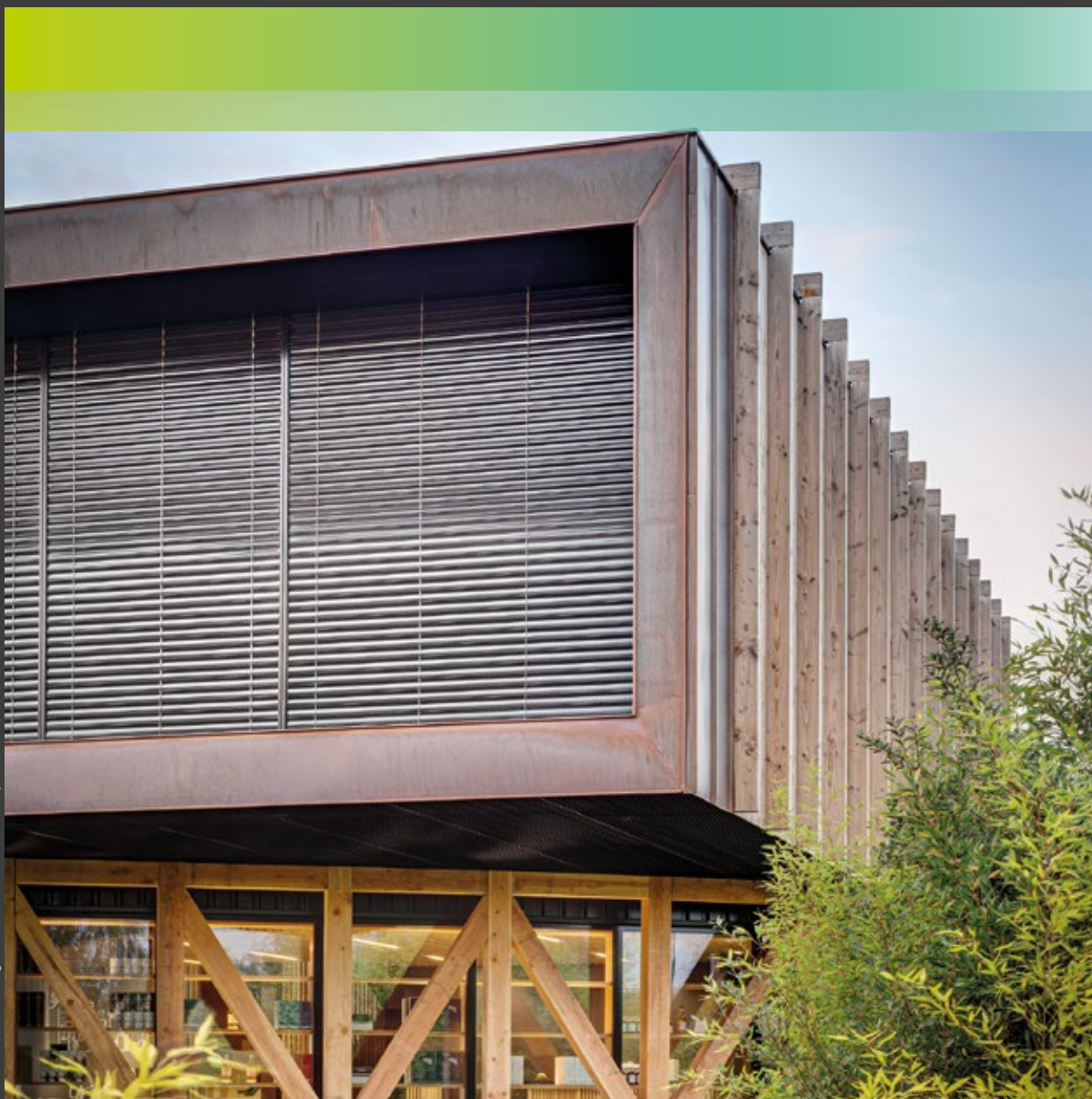


# Short manual

## External venetian blinds

2021

Distillerie Warenghem, ARMORIK Whisky breton, Architect: Atelier Rubin Associés





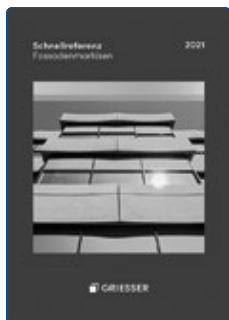
## All short manuals for download



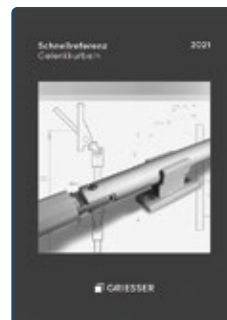
↓ [External venetian blinds](#)



↓ [Awnings](#)



↓ [Facade awnings](#)



↓ [Articulated cranks](#)



↓ [Window shutters](#)



↓ [Connection technique](#)



↓ [Rolling shutters](#)



↓ [Covers](#)



# External venetian blinds

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The information and values given refer to our products in their standard version according to the brochure and intended use/application.



# Metalunic® V | Metalunic® V Sinus

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## Limit dimensions

### Single blind

| Operation   | Width min.<br>(bk) | Width <sup>1</sup> max.<br>(bk) | Height min.<br>(hl) | Height max.<br>(hl) | Surface <sup>2</sup> max.<br>[m <sup>2</sup> ] |
|-------------|--------------------|---------------------------------|---------------------|---------------------|------------------------------------------------|
| Crank drive | 500                | 2800                            | 440                 | 4000                | 6.5                                            |
| Motor drive | 700                |                                 |                     |                     | 8                                              |

### Connected systems

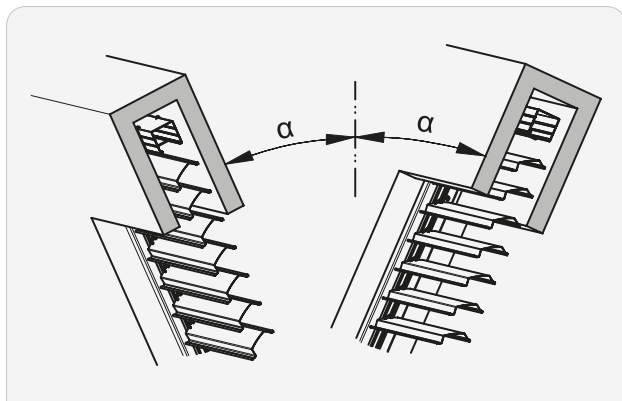
| Operation   | Width <sup>1</sup> max.<br>(bk) | Height max.<br>(hl) | Blinds max. | Blinds per<br>system | Surface <sup>2</sup> max.<br>[m <sup>2</sup> ] |
|-------------|---------------------------------|---------------------|-------------|----------------------|------------------------------------------------|
| Crank drive | 8400                            | 4000                | 3           | 2                    | 5                                              |
| Motor drive |                                 |                     | 2           | 3                    | 4                                              |
|             |                                 |                     |             | 2                    | 4.8                                            |

<sup>1</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

<sup>2</sup> If crank drive is in slat area: maximum surface area and crank position available on request.

### Inclined installation

Metalunic® V Sinus



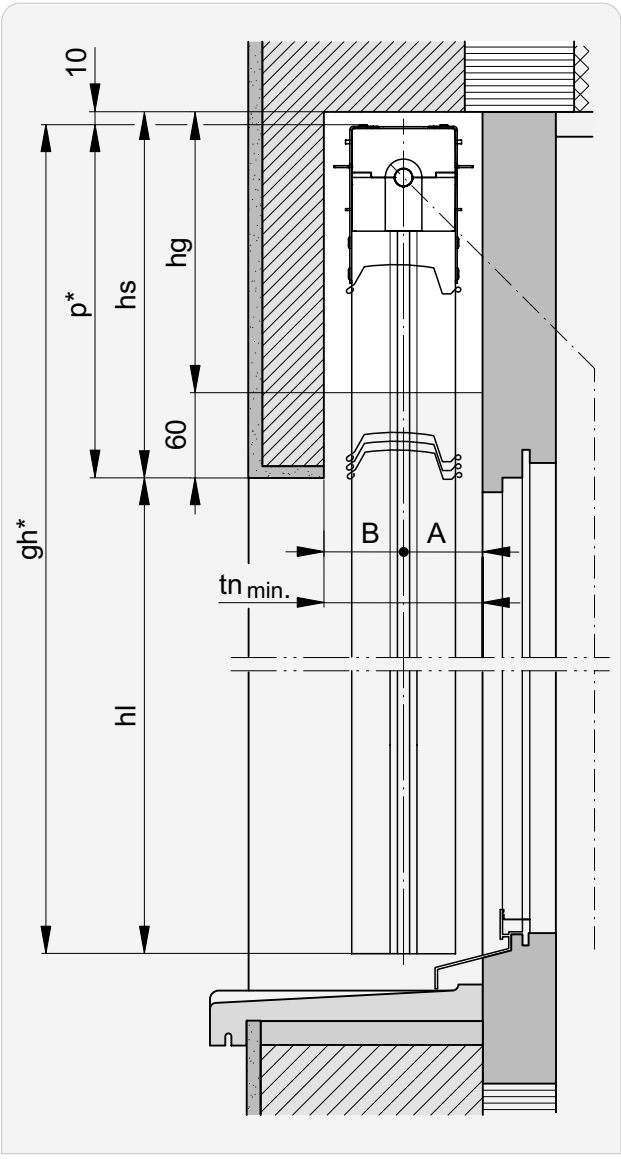
| Angle from the vertical<br>[α] | Width max.<br>(bk) |
|--------------------------------|--------------------|
| max. 25°                       | 1800               |

**! Reduce maximum loading with inclined installation by 20 %.**

**i** Protect blinds angled towards the outside from the effects of weathering (snow, ice).

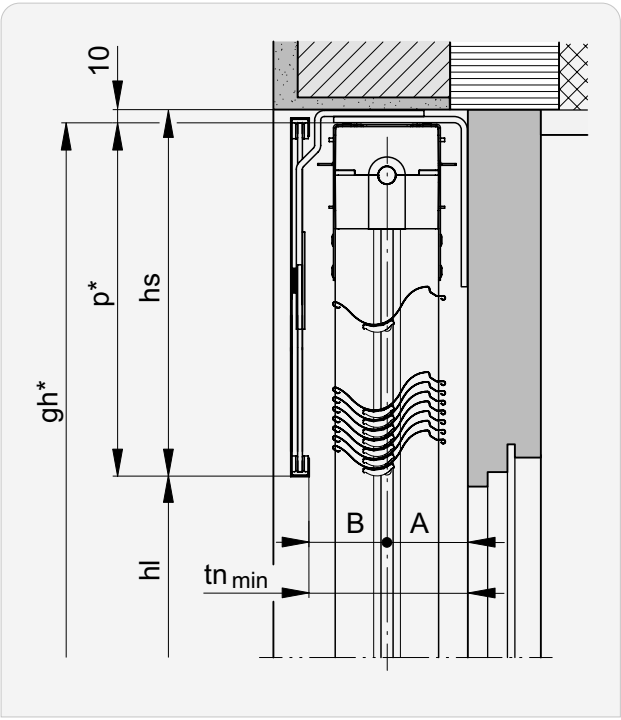
### Built-in system

Vertical section: Metalunic® V



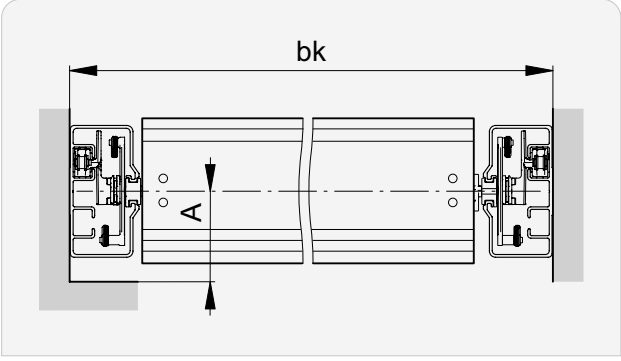
### Built-in system with cover

Vertical section: Metalunic® V Sinus



**i** \*Due to the split arrangement of the chain,  $gh$  and /or  $p$  can be reduced by up to 15 mm compared to the ordering dimensions.

### Horizontal section



## Header dimensions | Heights of package

## Metalunic® V

| hl → l | P min. | hs <sup>1</sup> | hl → l | P min. | hs <sup>1</sup> |
|--------|--------|-----------------|--------|--------|-----------------|
| 1000   | 260    | 270             | 2550   | 410    | 420             |
| 1050   | 260    | 270             | 2600   | 420    | 430             |
| 1100   | 260    | 270             | 2650   | 425    | 435             |
| 1150   | 265    | 275             | 2700   | 425    | 435             |
| 1200   | 270    | 280             | 2750   | 435    | 445             |
| 1250   | 275    | 285             | 2800   | 440    | 450             |
| 1300   | 285    | 295             | 2850   | 440    | 450             |
| 1350   | 285    | 295             | 2900   | 450    | 460             |
| 1400   | 290    | 300             | 2950   | 460    | 470             |
| 1450   | 295    | 305             | 3000   | 460    | 470             |
| 1500   | 300    | 310             | 3050   | 465    | 475             |
| 1550   | 305    | 315             | 3100   | 470    | 480             |
| 1600   | 315    | 325             | 3150   | 475    | 485             |
| 1650   | 315    | 325             | 3200   | 480    | 490             |
| 1700   | 320    | 330             | 3250   | 490    | 500             |
| 1750   | 330    | 340             | 3300   | 490    | 500             |
| 1800   | 330    | 340             | 3350   | 500    | 510             |
| 1850   | 340    | 350             | 3400   | 505    | 515             |
| 1900   | 345    | 355             | 3450   | 505    | 515             |
| 1950   | 345    | 355             | 3500   | 515    | 525             |
| 2000   | 355    | 365             | 3550   | 520    | 530             |
| 2050   | 360    | 370             | 3600   | 520    | 530             |
| 2100   | 360    | 370             | 3650   | 530    | 540             |
| 2150   | 370    | 380             | 3700   | 530    | 540             |
| 2200   | 380    | 390             | 3750   | 540    | 550             |
| 2250   | 380    | 390             | 3800   | 545    | 555             |
| 2300   | 385    | 395             | 3850   | 545    | 555             |
| 2350   | 395    | 405             | 3900   | 555    | 565             |
| 2400   | 395    | 405             | 3950   | 560    | 570             |
| 2450   | 400    | 410             | 4000   | 565    | 575             |
| 2500   | 405    | 415             |        |        |                 |

## Metalunic® V Sinus

| hl → l | P min. | hs <sup>1</sup> | hl → l | P min. | hs <sup>1</sup> |
|--------|--------|-----------------|--------|--------|-----------------|
| 1000   | 260    | 270             | 2550   | 415    | 425             |
| 1050   | 260    | 270             | 2600   | 415    | 425             |
| 1100   | 260    | 270             | 2650   | 425    | 435             |
| 1150   | 260    | 270             | 2700   | 425    | 435             |
| 1200   | 270    | 280             | 2750   | 435    | 445             |
| 1250   | 270    | 280             | 2800   | 440    | 450             |
| 1300   | 270    | 280             | 2850   | 440    | 450             |
| 1350   | 280    | 290             | 2900   | 450    | 460             |
| 1400   | 290    | 300             | 2950   | 455    | 465             |
| 1450   | 295    | 305             | 3000   | 460    | 470             |
| 1500   | 305    | 315             | 3050   | 470    | 480             |
| 1550   | 310    | 320             | 3100   | 470    | 480             |
| 1600   | 310    | 320             | 3150   | 475    | 485             |
| 1650   | 315    | 325             | 3200   | 485    | 495             |
| 1700   | 325    | 335             | 3250   | 485    | 495             |
| 1750   | 325    | 335             | 3300   | 495    | 505             |
| 1800   | 335    | 345             | 3350   | 495    | 505             |
| 1850   | 345    | 355             | 3400   | 500    | 510             |
| 1900   | 345    | 355             | 3450   | 510    | 520             |
| 1950   | 350    | 360             | 3500   | 510    | 520             |
| 2000   | 360    | 370             | 3550   | 520    | 530             |
| 2050   | 360    | 370             | 3600   | 530    | 540             |
| 2100   | 370    | 380             | 3650   | 530    | 540             |
| 2150   | 375    | 385             | 3700   | 535    | 545             |
| 2200   | 375    | 385             | 3750   | 545    | 555             |
| 2250   | 385    | 395             | 3800   | 545    | 555             |
| 2300   | 385    | 395             | 3850   | 550    | 560             |
| 2350   | 390    | 400             | 3900   | 555    | 565             |
| 2400   | 400    | 410             | 3950   | 560    | 570             |
| 2450   | 400    | 410             | 4000   | 565    | 575             |
| 2500   | 410    | 420             |        |        |                 |

| tn <sup>2</sup> min. | A  | B  |
|----------------------|----|----|
| 120*                 | 60 | 60 |

| tn <sup>2</sup> min. | A  | B  |
|----------------------|----|----|
| 120*                 | 60 | 60 |

<sup>1</sup> With gearbox in slot area: **hs + 20**.

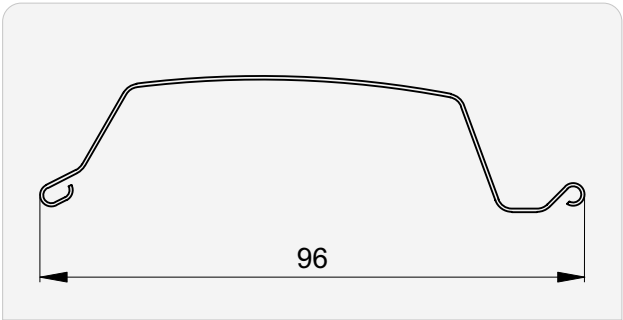
<sup>2</sup> Depending on the angle of the gearbox output, **tn min.** should be **increased by 5...10 mm** in this area.

\* + possible addition for protruding weatherboard or doorknobs.

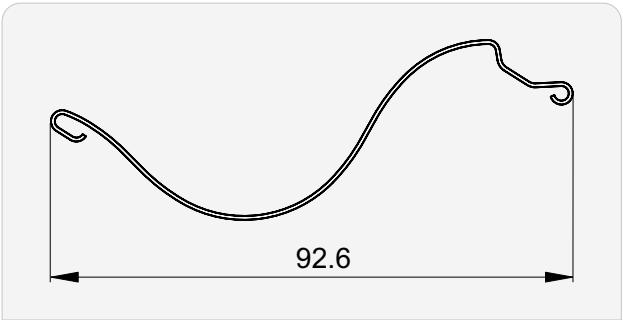
**i** Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

Slat profiles

Metalunic® V



Metalunic® V Sinus

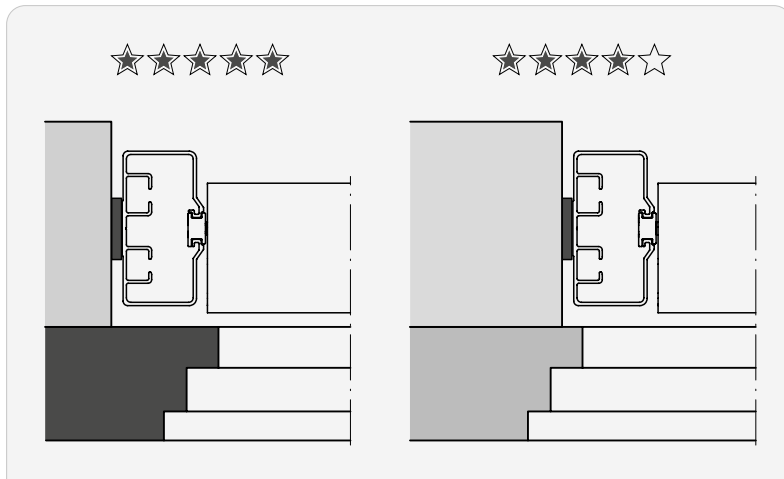


## Darkening

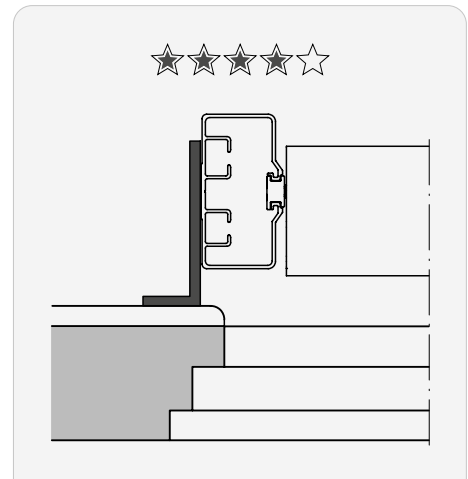
The following measures make it possible to achieve ideal shading results:

### Vertical

Locate the guides outside of the clear dimension of the window glass, if possible



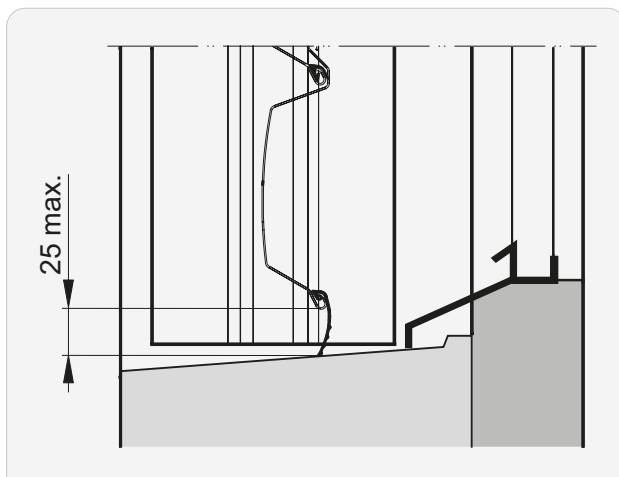
Continuous fixing bracket



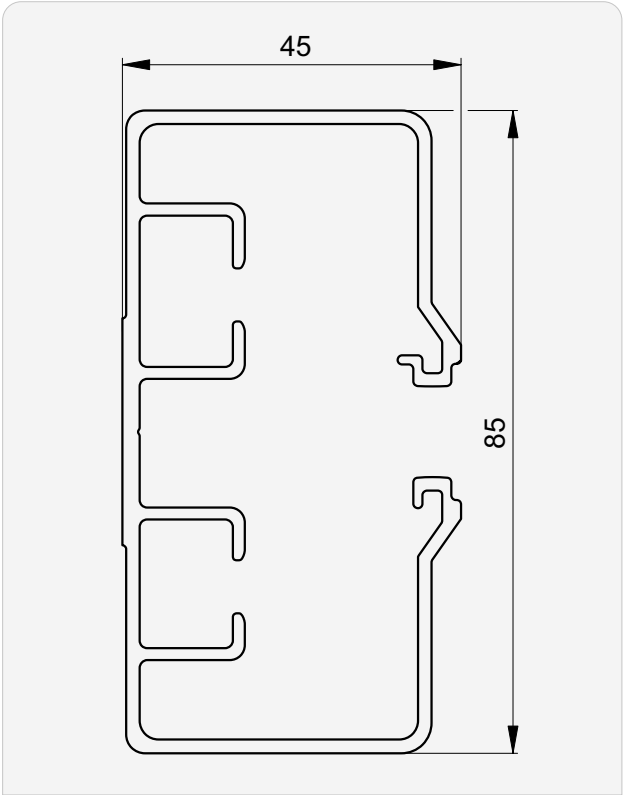
### Horizontal

Metalunic® V Sinus

Darkening profile



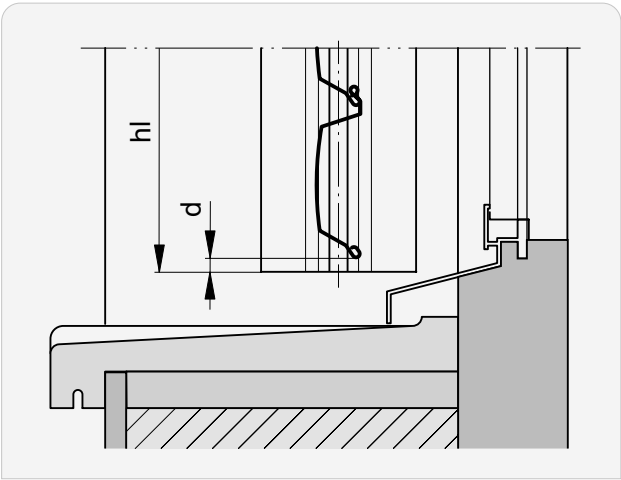
Guide rail



|                                           |           |                                                |           |
|-------------------------------------------|-----------|------------------------------------------------|-----------|
| ➡ Distance between guides <b>FD</b> ..... | <b>28</b> | ➡ Guide rail fastenings.....                   | <b>16</b> |
| ➡ Fastening points.....                   | <b>24</b> | ➡ Guide rail cut-outs in windowsill area ..... | <b>22</b> |
| ➡ Guide extension and facet .....         | <b>21</b> | ➡ Integrated guides.....                       | <b>15</b> |

## Sections | Details

Detail for bottom: Metalunic® V

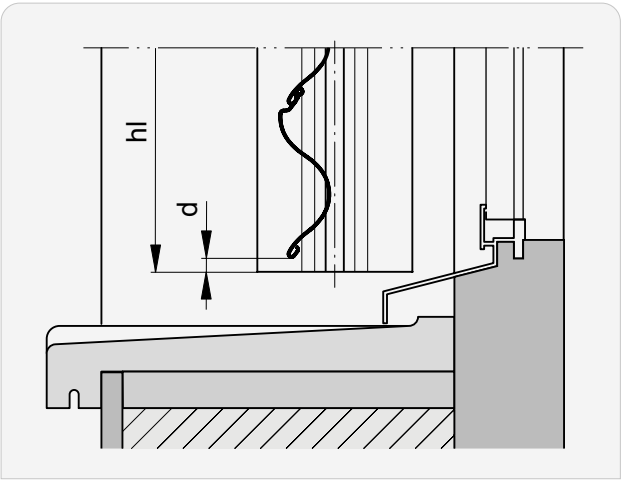


**d (d - dimension)**

$6 \pm 5$

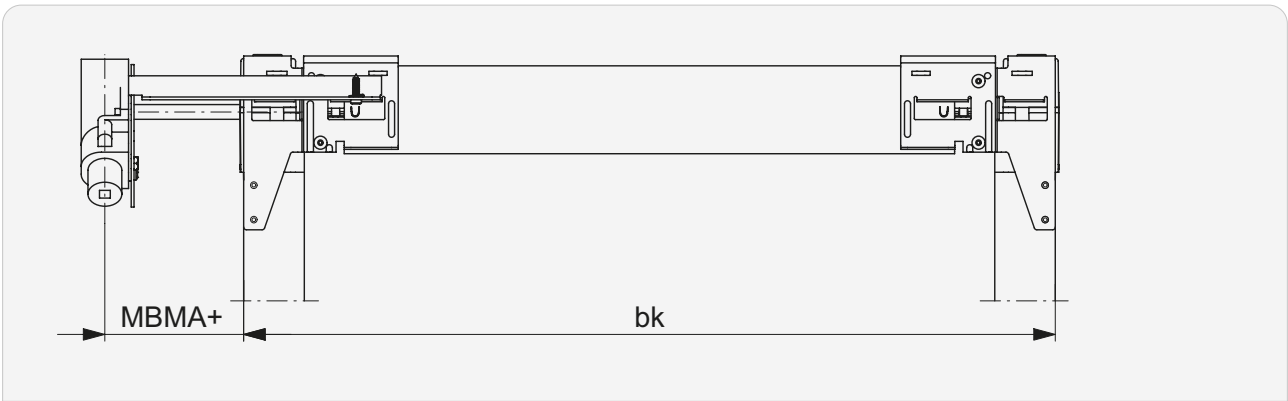
**i** **d - dimension** may vary with different blind dimensions.

Detail for bottom: Metalunic® V Sinus

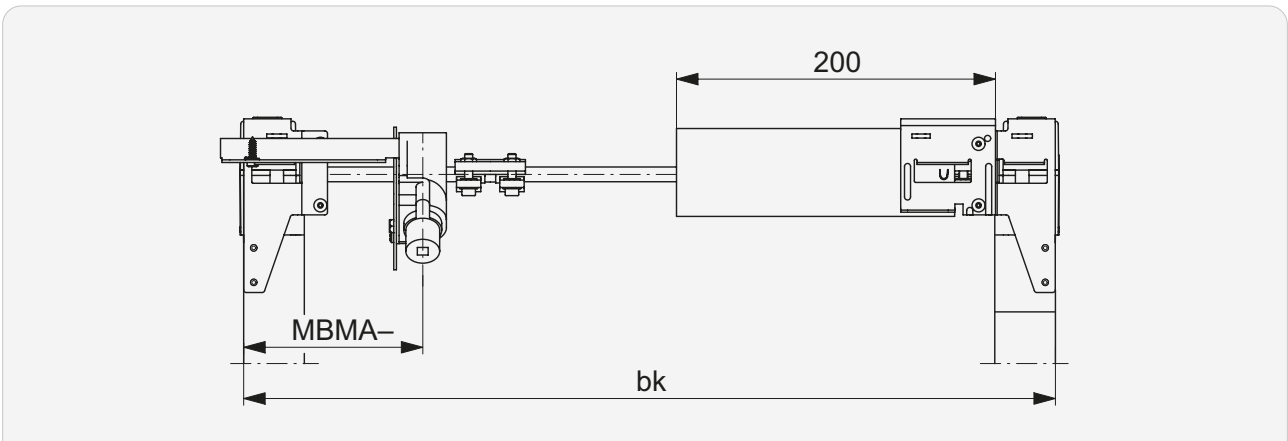


Sections for crank drive (MBMA)

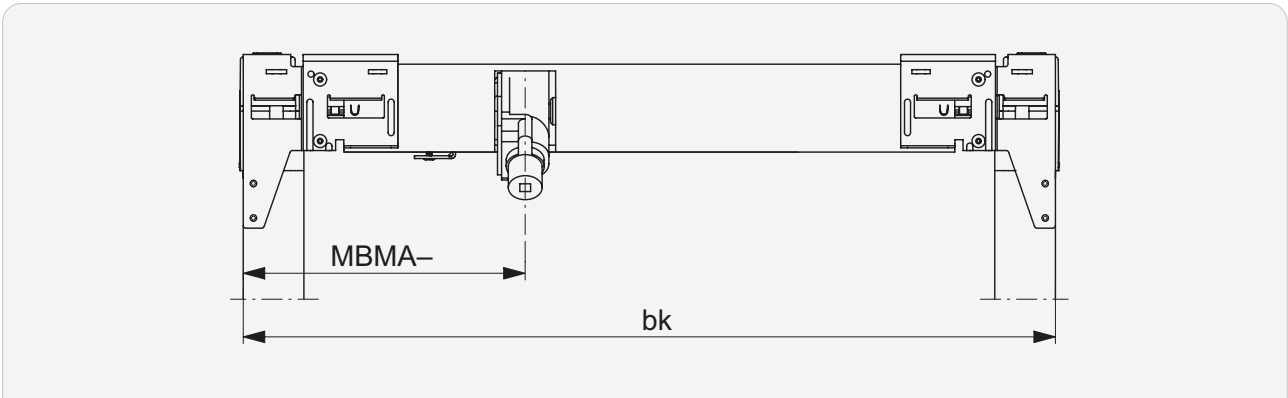
outside bk



within bk



Gearbox inside housing



**MBMA+**

25 ... 160

**MBMA-**

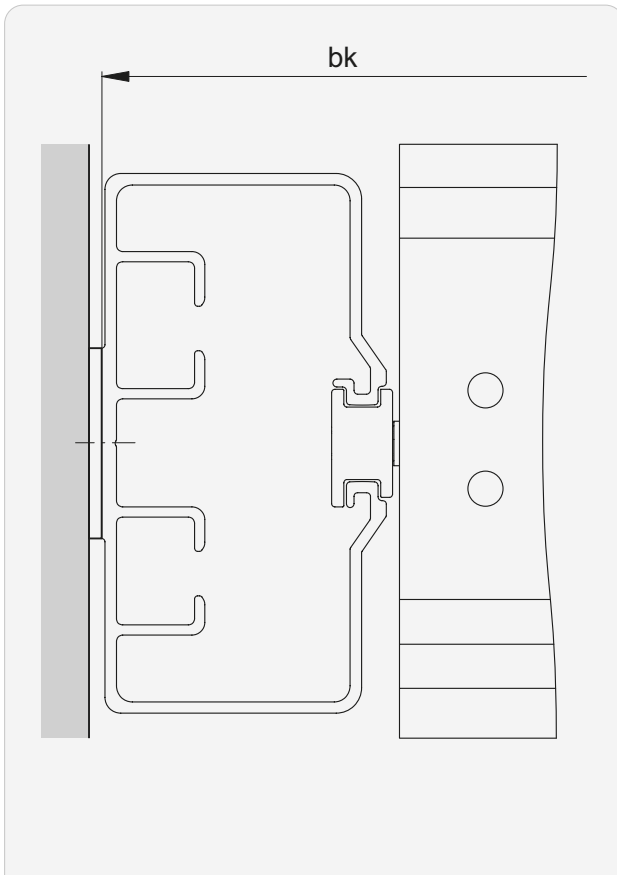
90 ... 210

211 ... (bk/2)\*

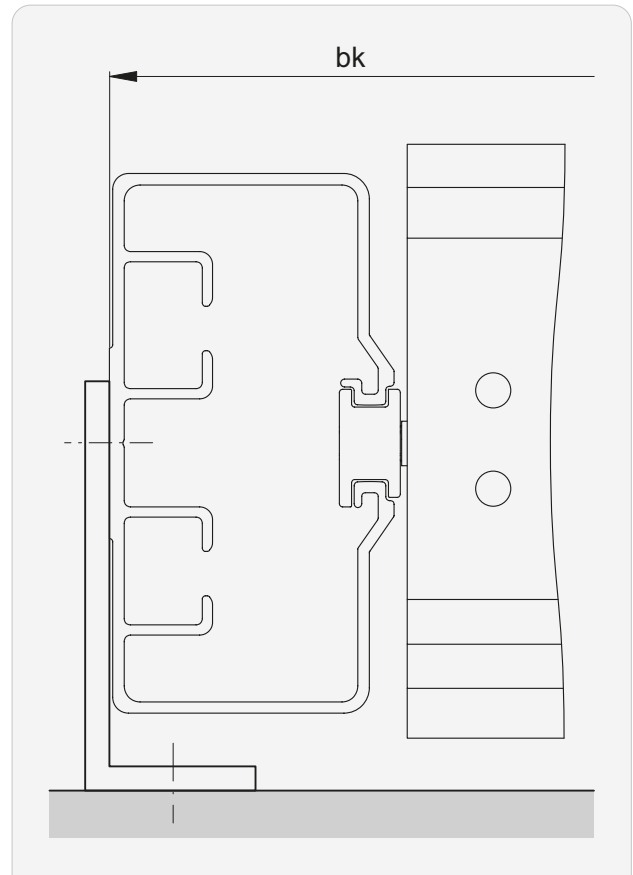
\* Gearbox inside housing

## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



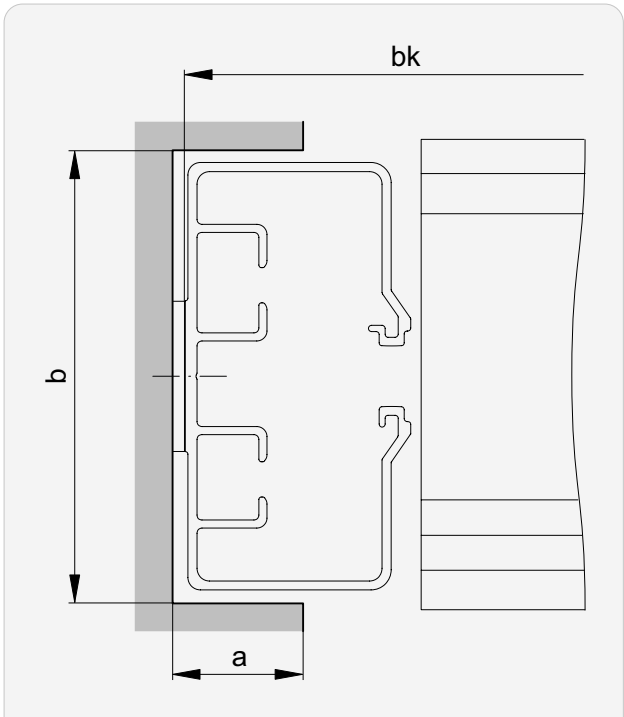
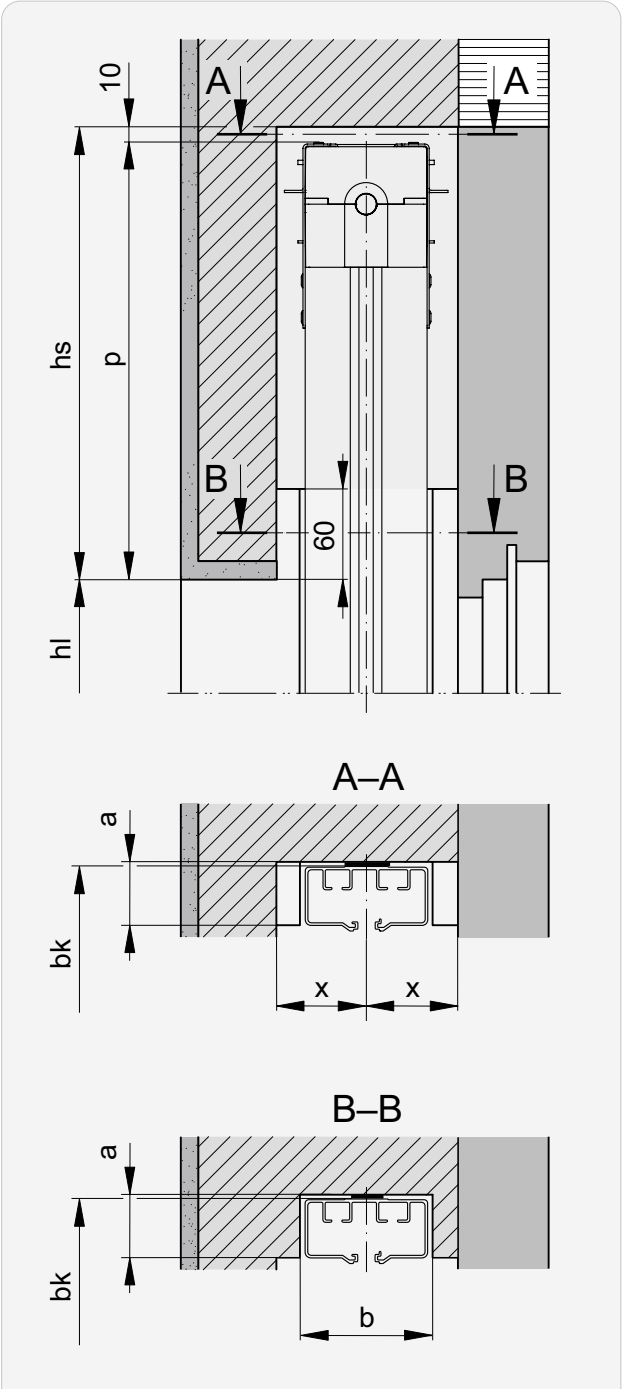
### Guides suspended



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

►► Guide rail installation (principle)

Guides recessed



| Version     | x min. |
|-------------|--------|
| Crank drive | 60     |
| Motor drive | 50     |

| a   | b   |
|-----|-----|
| ≤40 | ≥90 |

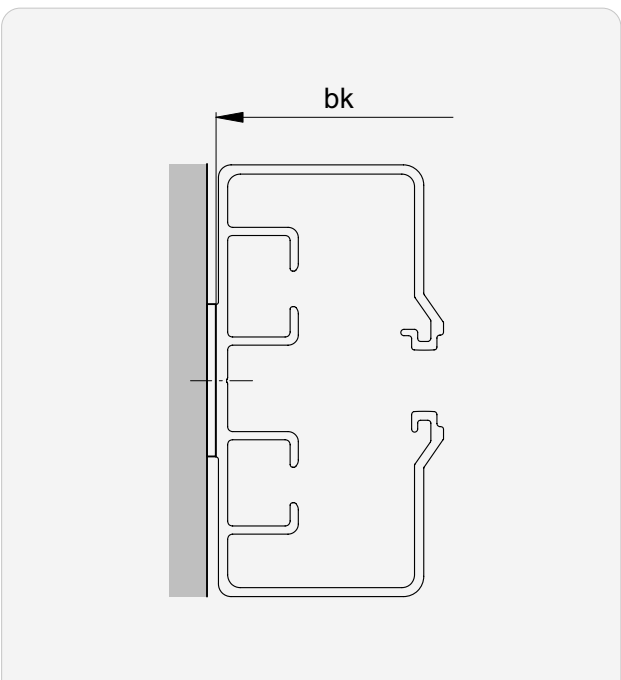
## Guide rail fastenings (principle)

### Overview

| Type |   |    |   |    |   |   |   |   |    |   |   |    |   |    |
|------|---|----|---|----|---|---|---|---|----|---|---|----|---|----|
| A    | B | Bd | C | Cd | E | F | G | H | Kv | M | T | Tv | V | Wv |
| ●    | ● | ●  | ● | ●  | ● | ● | — | — | —  | — | ● | —  | ● | —  |

● applicable without restrictions

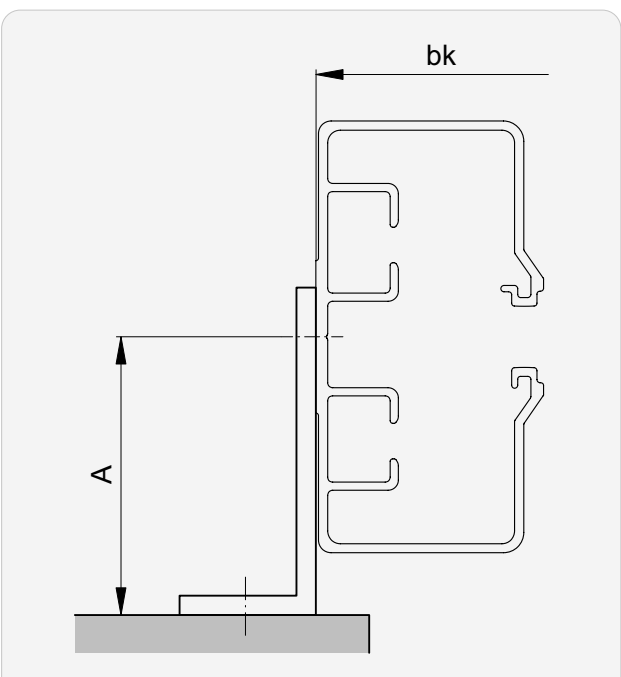
### A Soffit installation



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

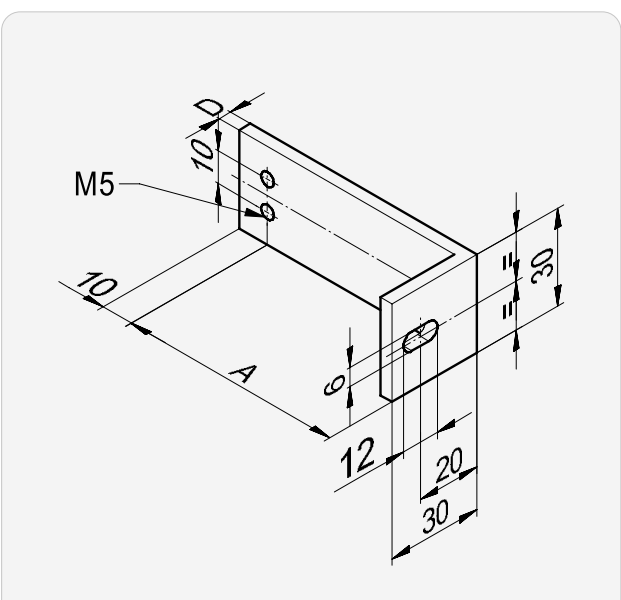


## B Installation with fastening bracket



Bracket outwards

### Fastening bracket for types B and C

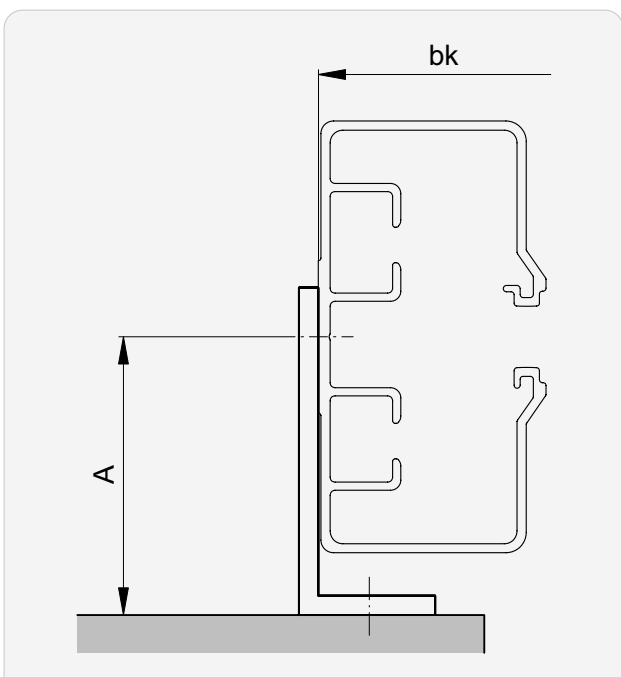


|            |          |
|------------|----------|
| <b>A*</b>  | <b>D</b> |
| 20 ... 115 | 4        |

**i** For suspended guide rails always with **brackets 70 mm.**

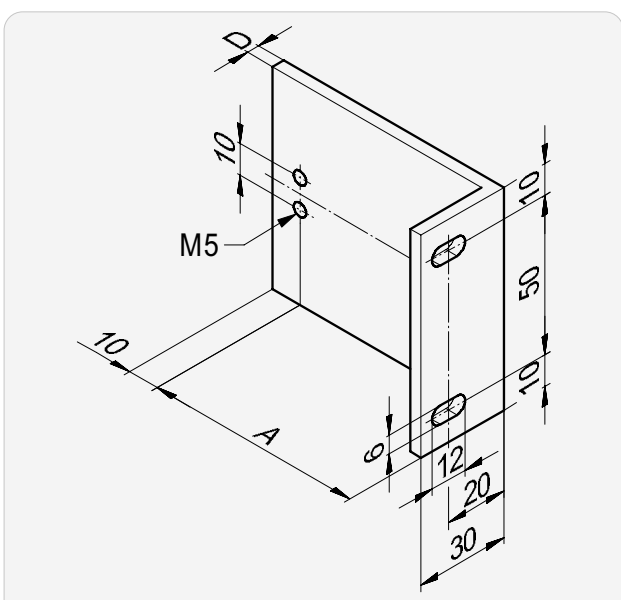
\* in 5 mm steps

### C Installation with fastening bracket



Bracket inwards

### Fastening bracket 70 mm for types B and C

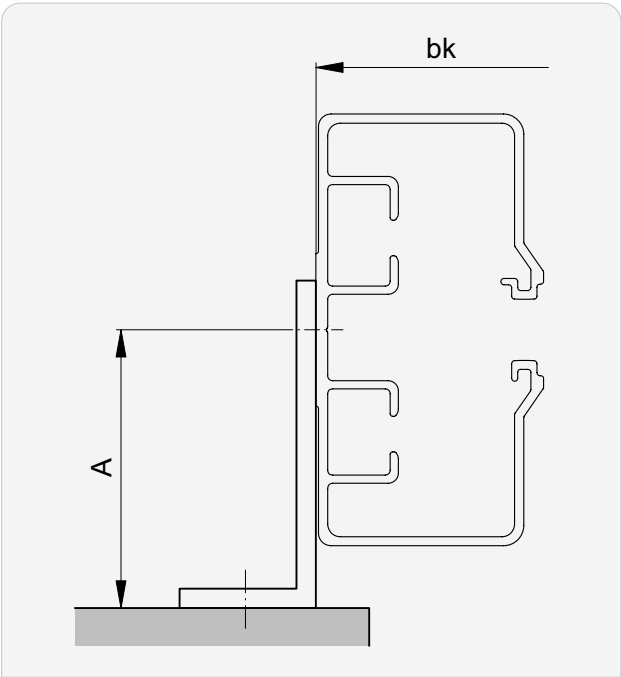


|             |          |
|-------------|----------|
| <b>A*</b>   | <b>D</b> |
| 20 ... 115  | 4        |
| 120 ... 215 | 5        |

**i** If the **projection is  $\geq 120$** , all products are fastened with a **70 mm bracket**.

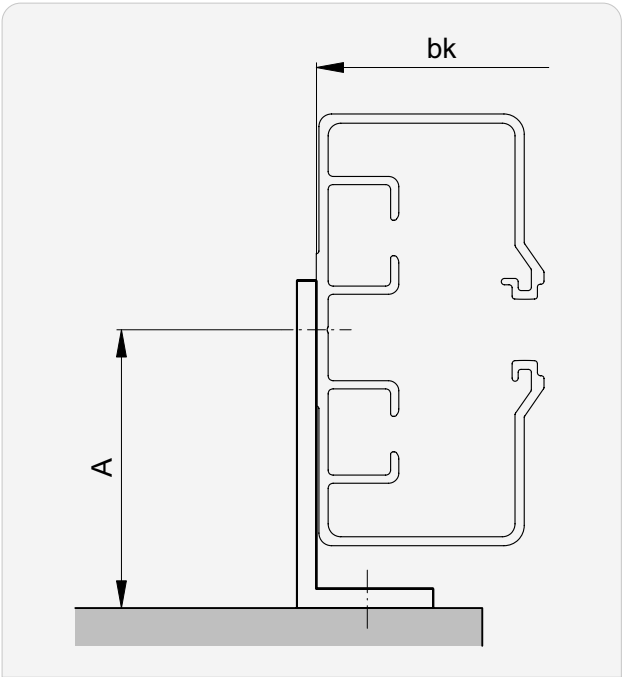
►► Guide rail fastenings (principle)

**Bd** Installation with continuous fastening bracket



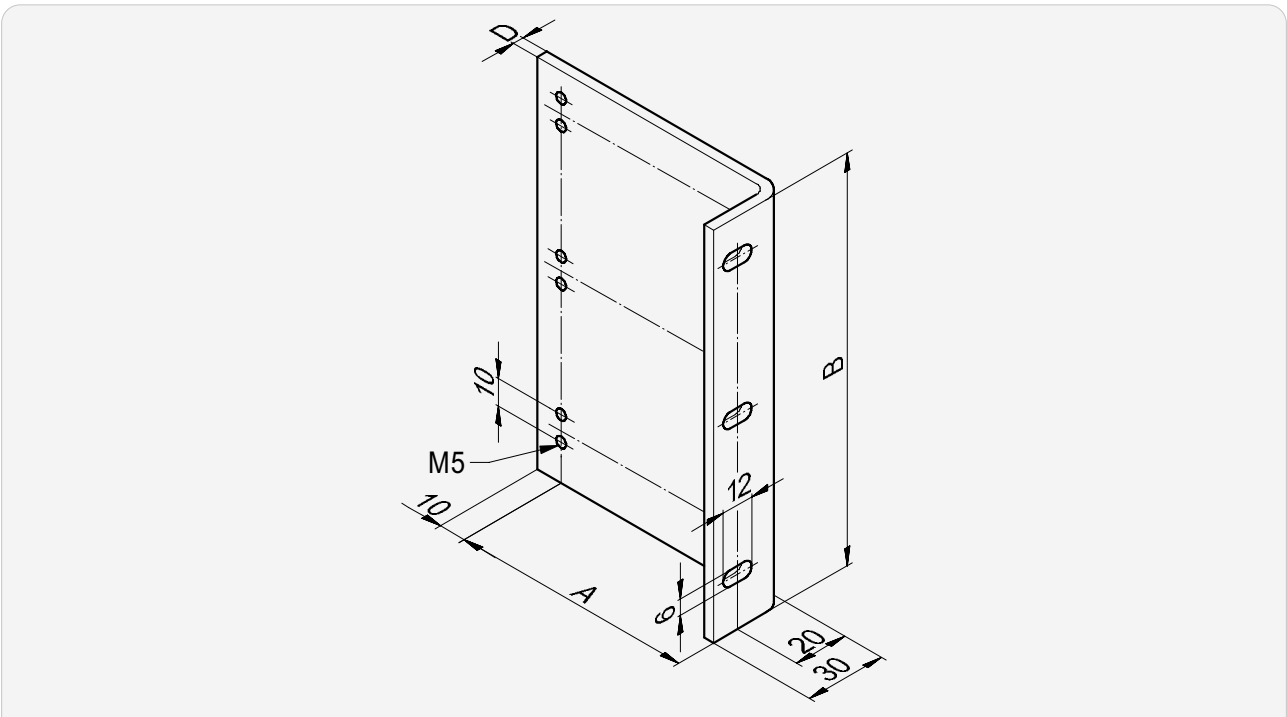
Bracket outwards

**Cd** Installation with continuous fastening bracket



Bracket inwards

Continuous fastening bracket for types Bd and Cd



**A\***

20 ... 300

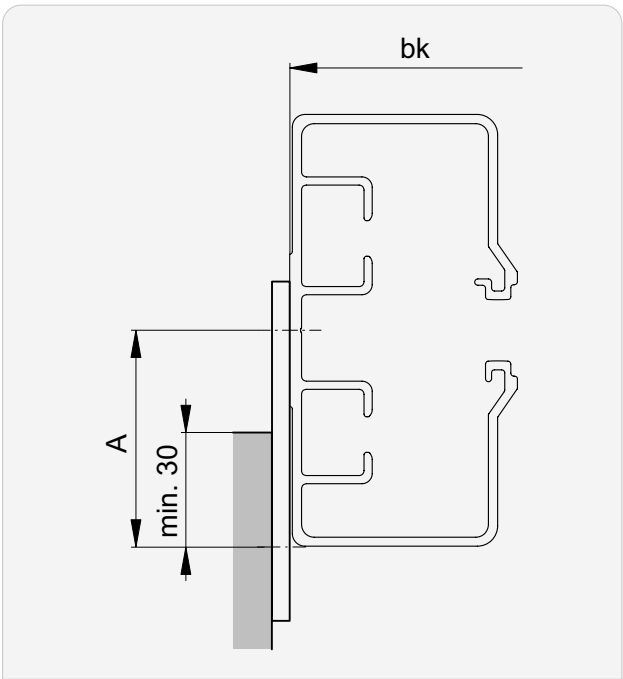
**D**

always 4

\* in 5 mm steps

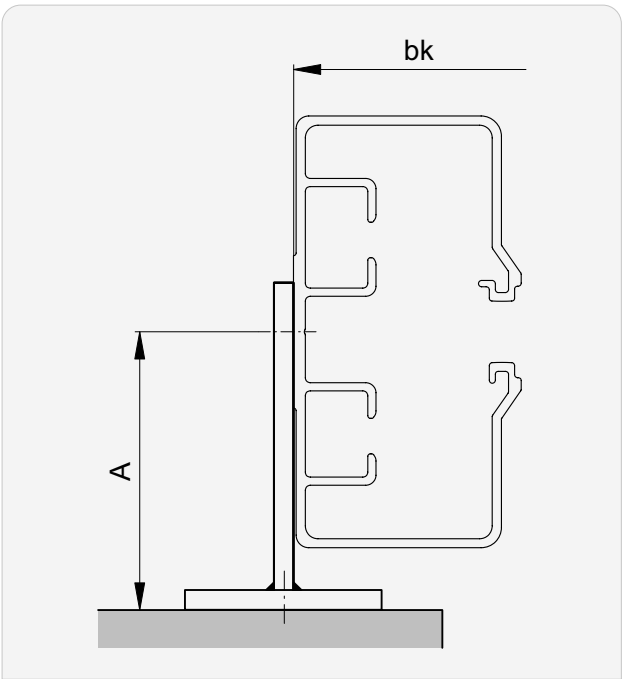
►► Guide rail fastenings (principle)

**E | F** Installation with fastening lug

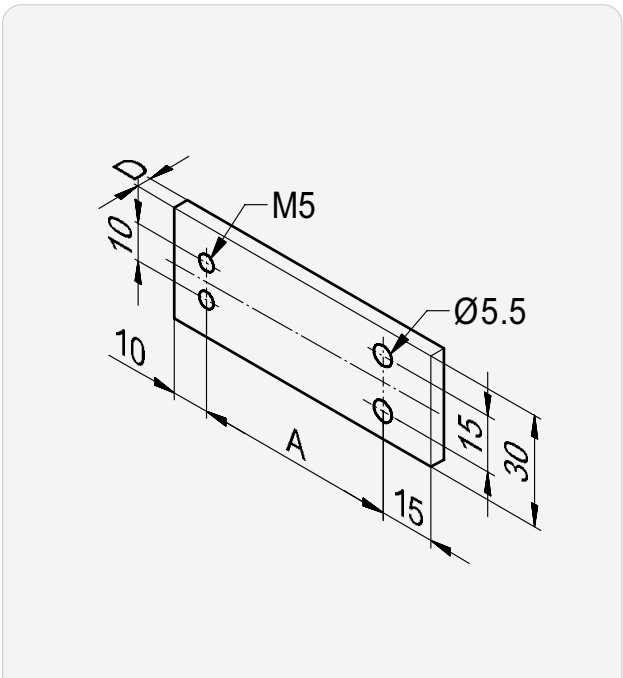


inwards / outwards

**T** Installation with T-bracket

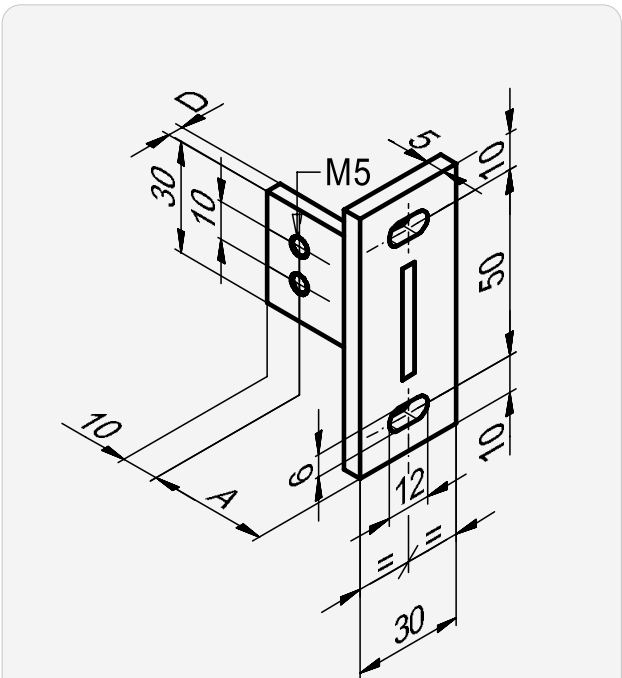


Fastening lug for type E | F



| A*          | D |
|-------------|---|
| 50 ... 115  | 4 |
| 120 ... 125 | 5 |

T-bracket for type T

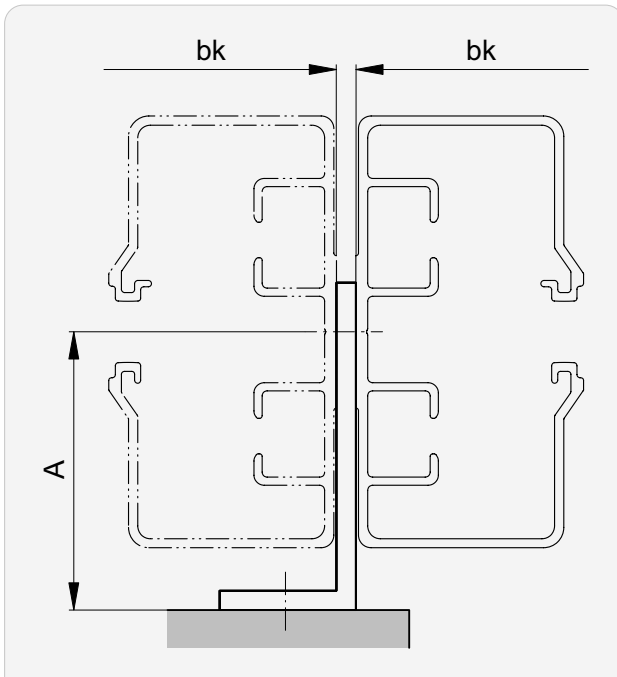


| A*          | D |
|-------------|---|
| 20 ... 115  | 4 |
| 120 ... 215 | 5 |

\* in 5 mm steps

## ►► Guide rail fastenings (principle)

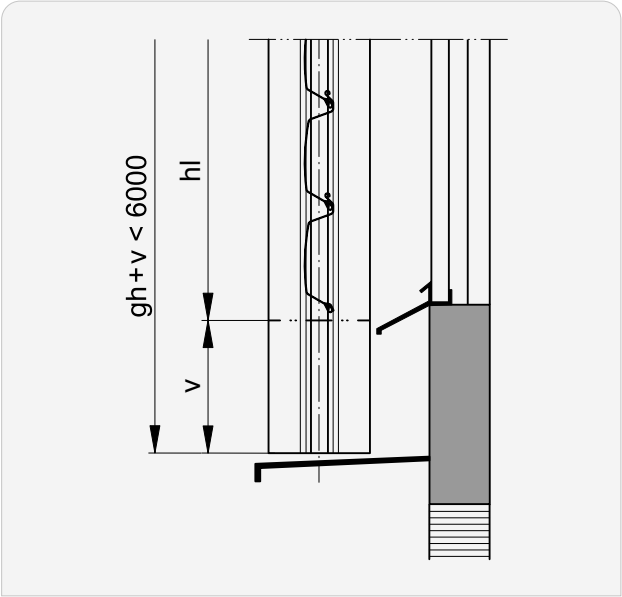
### **V** Installation with one bracket



The blind on the right uses the fastening for the blind on the left.

Guide extension and facet

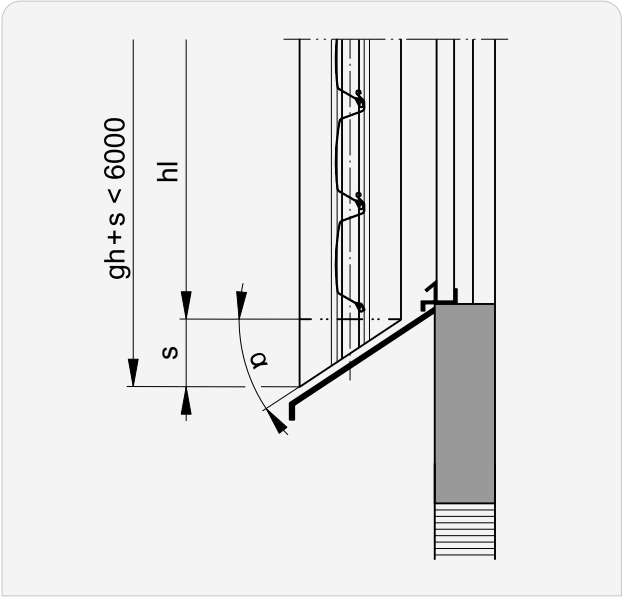
Extension



**v**

0 ... 3000

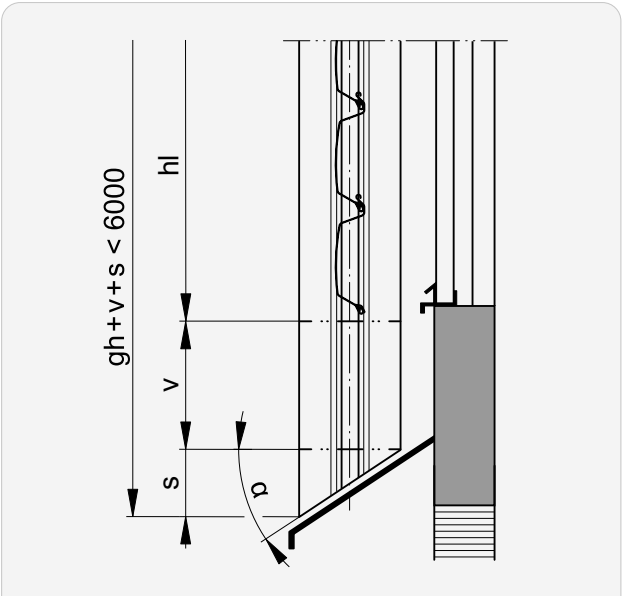
Facet



**α**

5 ... 60°

Extension and facet



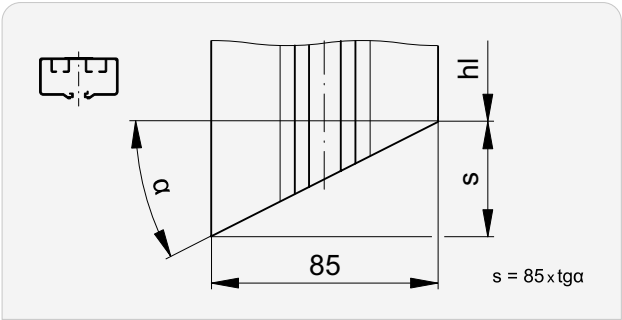
**v**

0 ... 3000

**α**

5 ... 60°

Angling at the guides



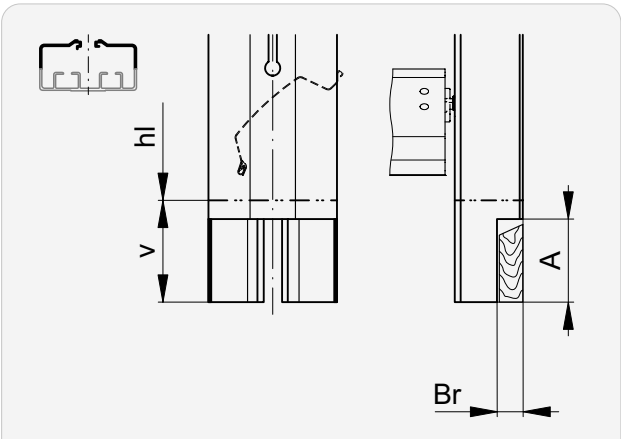
| α  | s  | α  | s  | α  | s  | α  | s  | α  | s   |
|----|----|----|----|----|----|----|----|----|-----|
| 5  | 7  | 15 | 23 | 25 | 40 | 35 | 60 | 45 | 85  |
| 6  | 9  | 16 | 24 | 26 | 41 | 36 | 62 | 46 | 88  |
| 7  | 10 | 17 | 26 | 27 | 43 | 37 | 64 | 47 | 91  |
| 8  | 12 | 18 | 28 | 28 | 45 | 38 | 66 | 48 | 94  |
| 9  | 13 | 19 | 29 | 29 | 47 | 39 | 69 | 49 | 98  |
| 10 | 15 | 20 | 31 | 30 | 49 | 40 | 71 | 50 | 101 |
| 11 | 17 | 21 | 33 | 31 | 51 | 41 | 74 | 51 | 105 |
| 12 | 18 | 22 | 34 | 32 | 52 | 42 | 77 | 52 | 109 |
| 13 | 20 | 23 | 36 | 33 | 55 | 43 | 79 | 53 | 113 |
| 14 | 21 | 24 | 38 | 34 | 57 | 44 | 82 | 54 | 117 |

## Guide rail cut-outs in windowsill area

**! Rear cut-out in combination with inner cut-out not possible!**

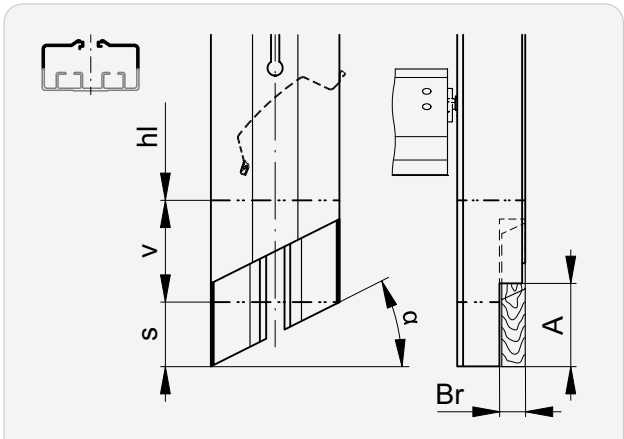
### Rear cut-out | with extension / with extension and facet

#### Extension



| $A \leq v$ | Br                    |
|------------|-----------------------|
| 0 ... 130  | 0 ... 13<br>17 ... 25 |

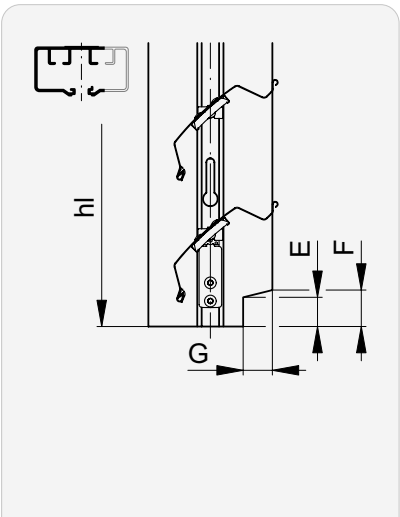
#### Extension and facet



| $A \leq (v + s)$ | Br                    | $\alpha$   |
|------------------|-----------------------|------------|
| 0 ... 35         | 0 ... 13<br>17 ... 25 | 0° ... 30° |

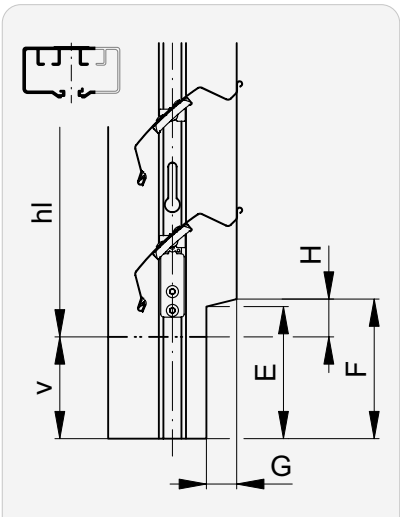
### Inner cut-out | without / with extension

#### Without extension



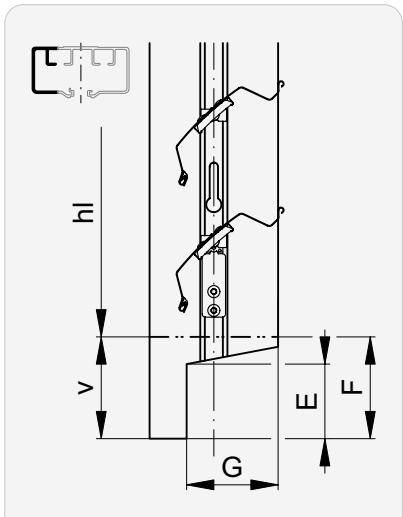
| E        | F        | G        |
|----------|----------|----------|
| 0 ... 20 | 0 ... 25 | 0 ... 20 |

#### Extension | $v \leq F$



| E         | F         | G        | H        |
|-----------|-----------|----------|----------|
| 0 ... 130 | 0 ... 180 | 0 ... 20 | 0 ... 25 |

#### Extension | $v > F$



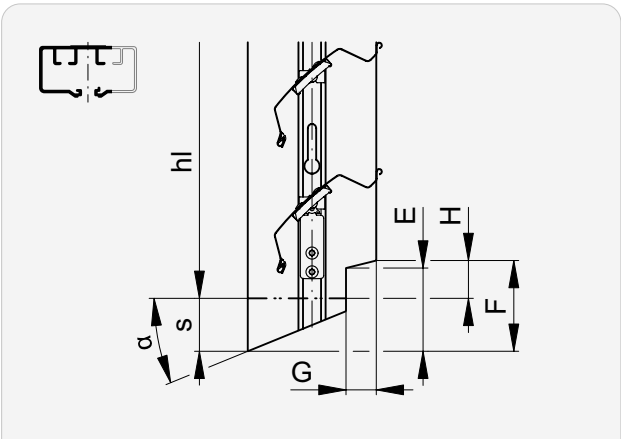
| E         | F         | G                                  |
|-----------|-----------|------------------------------------|
| 0 ... 130 | 0 ... 180 | 0 ... 20<br>37 ... 48<br>54 ... 78 |

v Guide rail extension: 0 ... 3000

►► Guide rail cut-outs in windowsill area

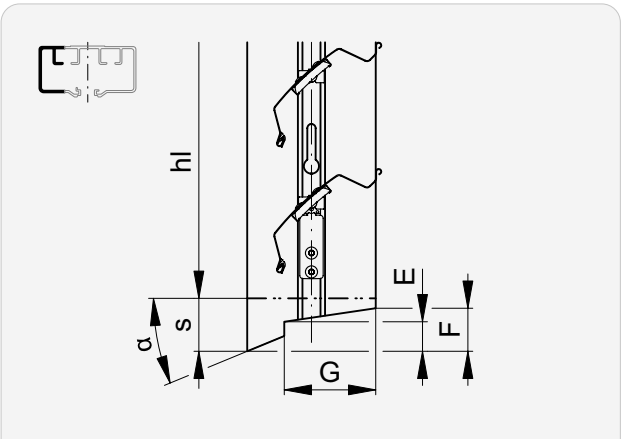
Inner cut-out | with facet

Facet |  $s \leq F$



| E         | F         | G        | H        |
|-----------|-----------|----------|----------|
| 0 ... 130 | 0 ... 180 | 0 ... 20 | 0 ... 25 |

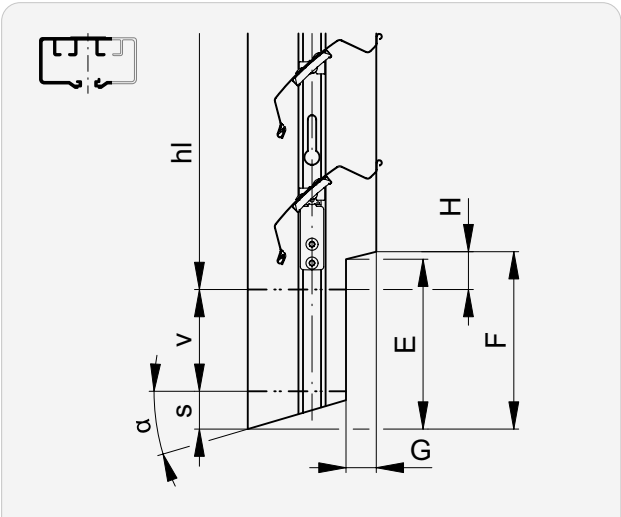
Facet |  $s > F$



| E         | F         | G         |
|-----------|-----------|-----------|
| 0 ... 130 | 0 ... 180 | 0 ... 20  |
|           |           | 37 ... 48 |
|           |           | 54 ... 78 |

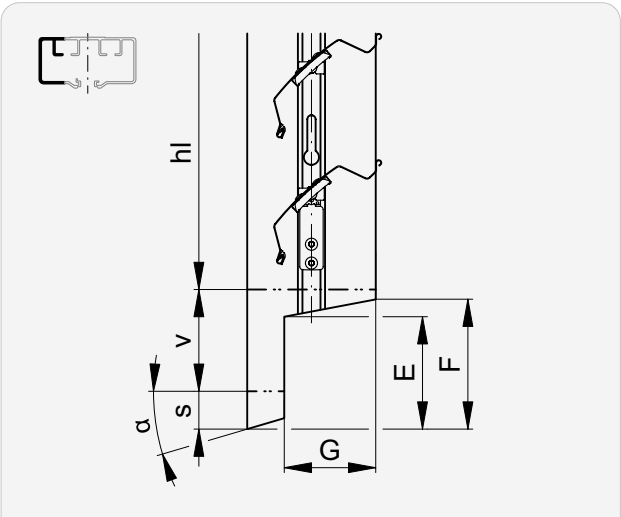
Inner cut-out | with extension and facet

Extension and facet |  $(v + s) \leq F$



| E         | F         | G        | H        |
|-----------|-----------|----------|----------|
| 0 ... 130 | 0 ... 180 | 0 ... 20 | 0 ... 25 |

Extension and facet |  $(v + s) > F$



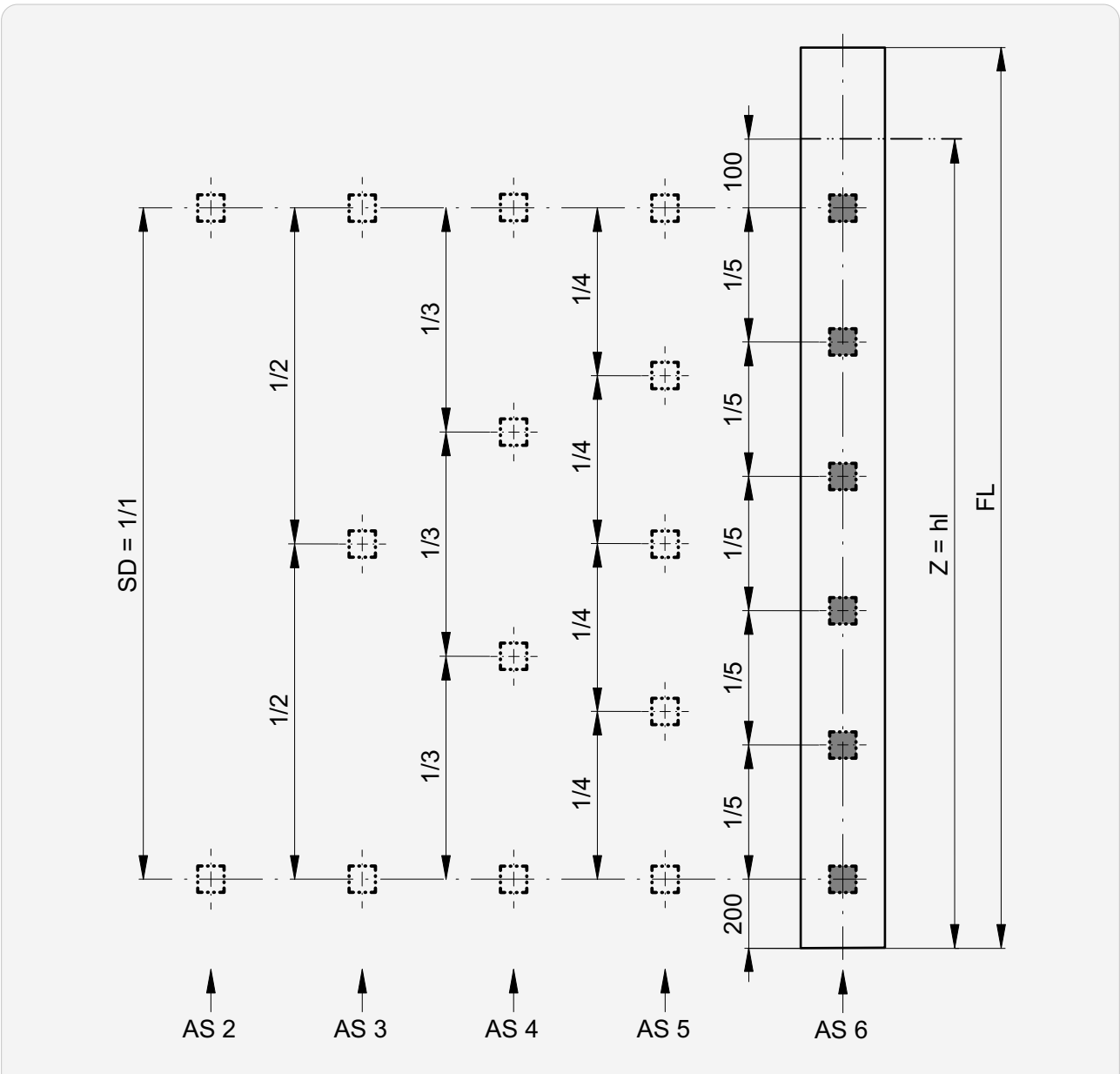
| E         | F         | G         |
|-----------|-----------|-----------|
| 0 ... 130 | 0 ... 180 | 0 ... 20  |
|           |           | 37 ... 48 |
|           |           | 54 ... 78 |

v Guide rail extension: 0 ... 3000

# Fastening points

## Without extension

| Z            | AS |
|--------------|----|
| ≤1500        | 2  |
| 1501... 2700 | 3  |
| 2701... 3900 | 4  |
| 3901... 5100 | 5  |
| >5100        | 6  |



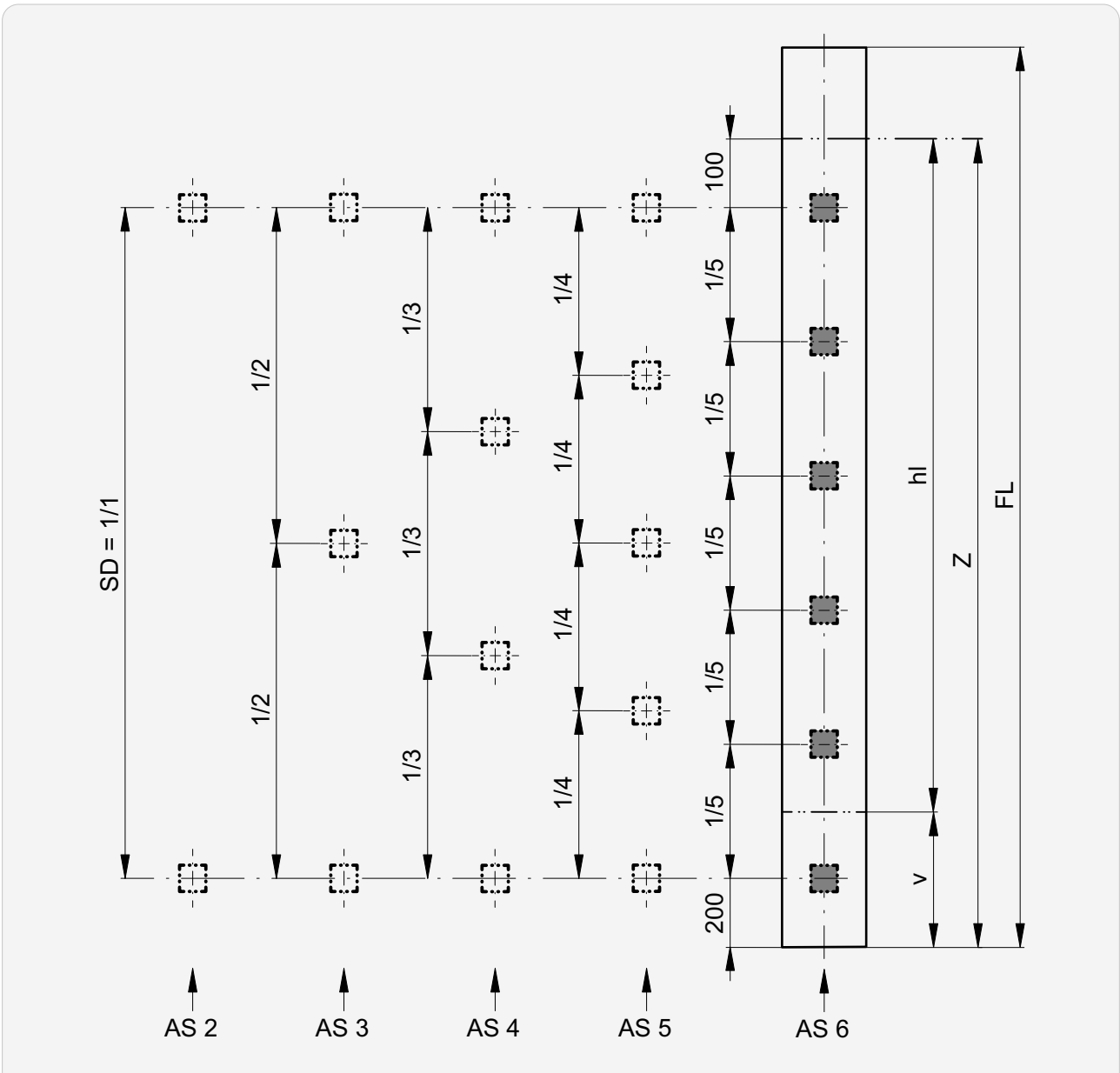
**AS** Number of slits

**SD** Slot spacing: max. 1200

►► Fastening points

With guide rail extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



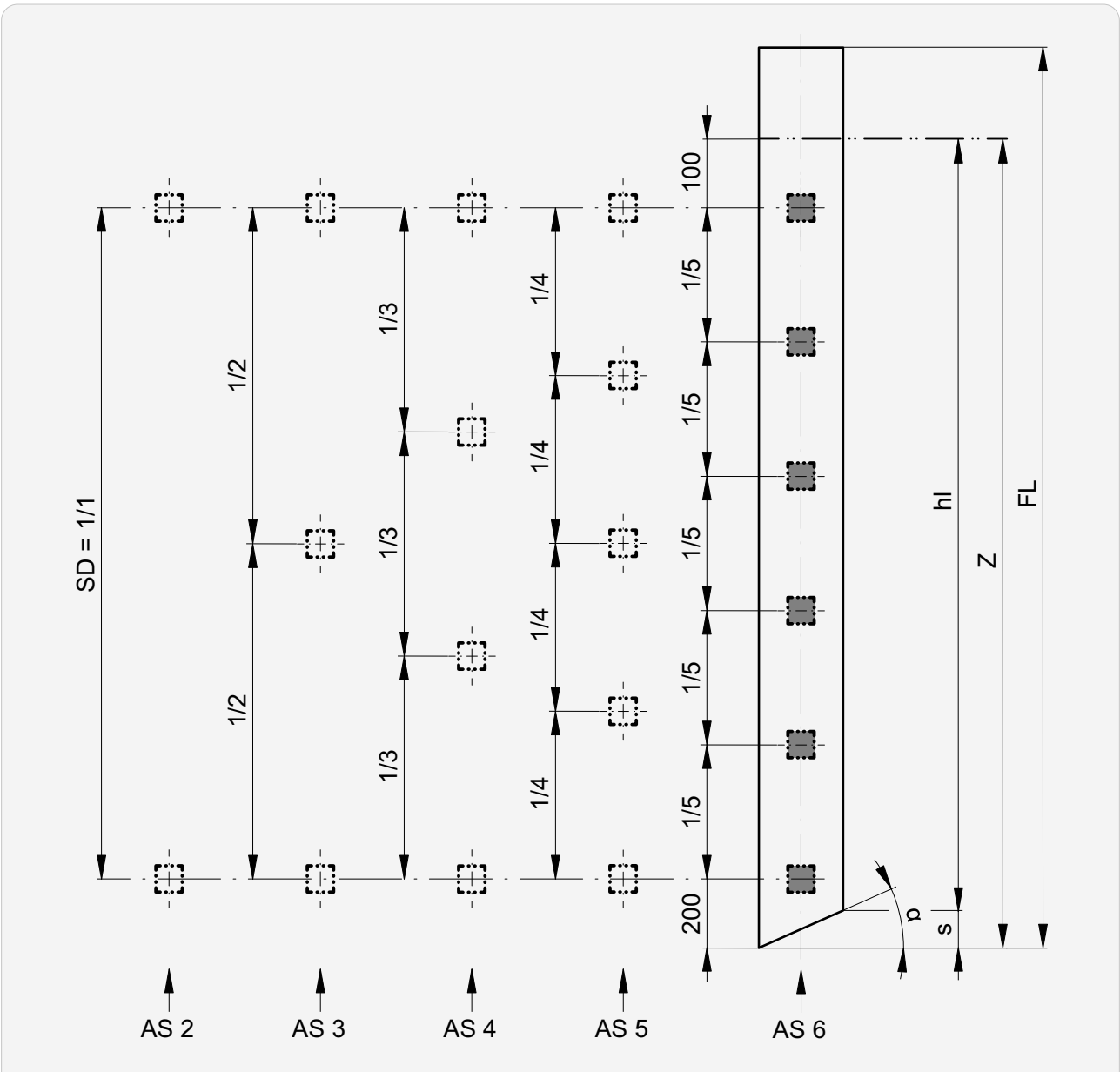
**AS** Number of slits  
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

►► Fastening points

With facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

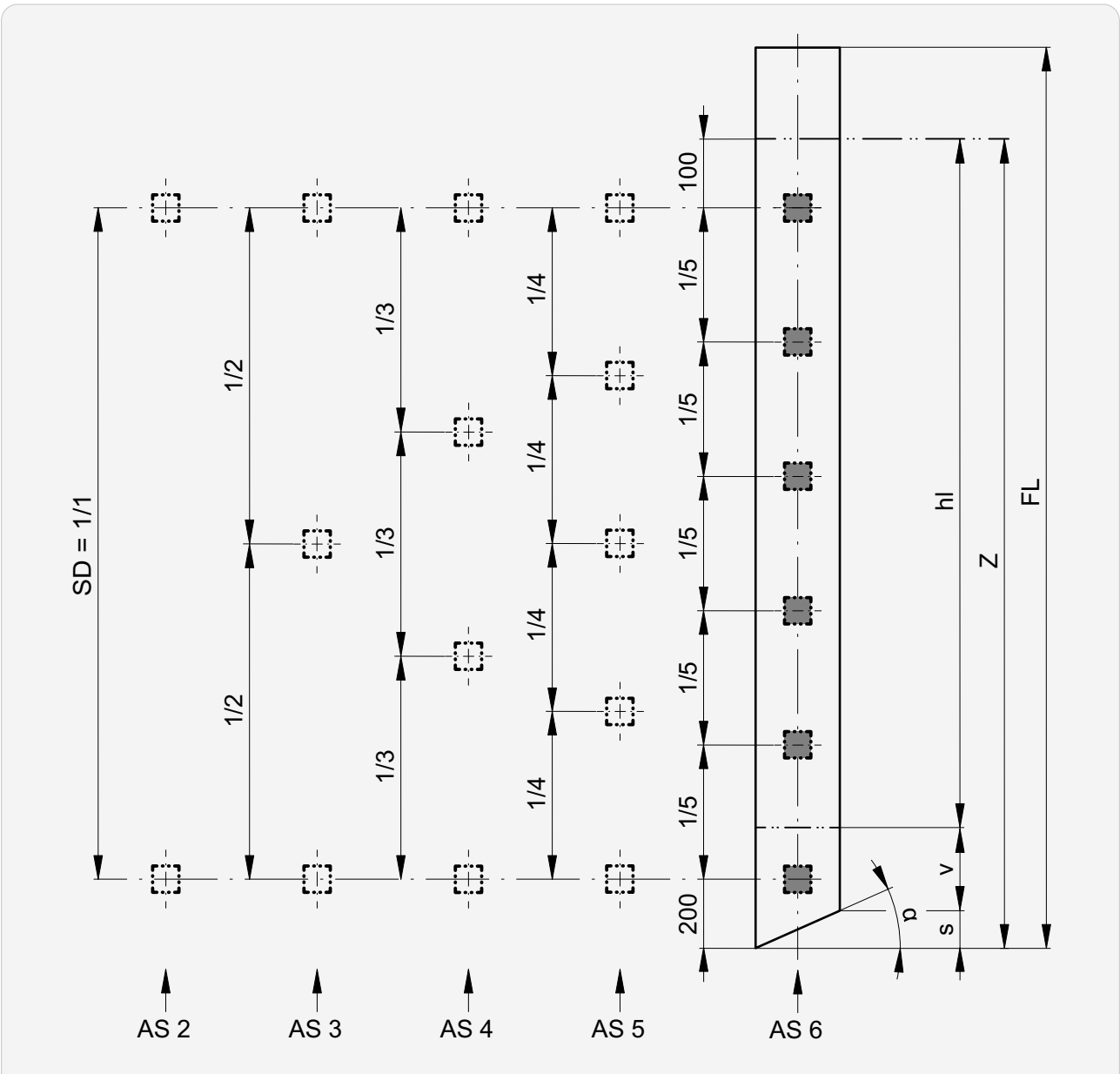
**SD** Slot spacing: max. 1200

**s** Faceting (guide rail width x tgα)

►► Fastening points

With guide rail extension and facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

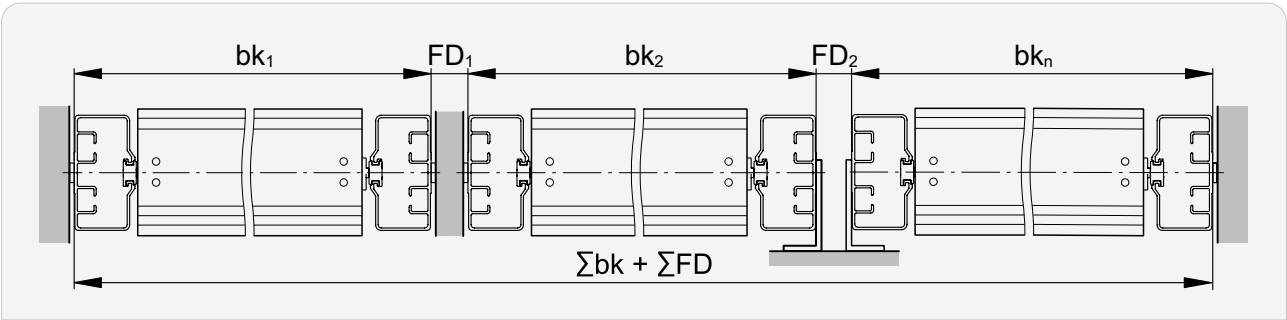
**s** Faceting (guide rail width x tgα)

**SD** Slot spacing: max. 1200

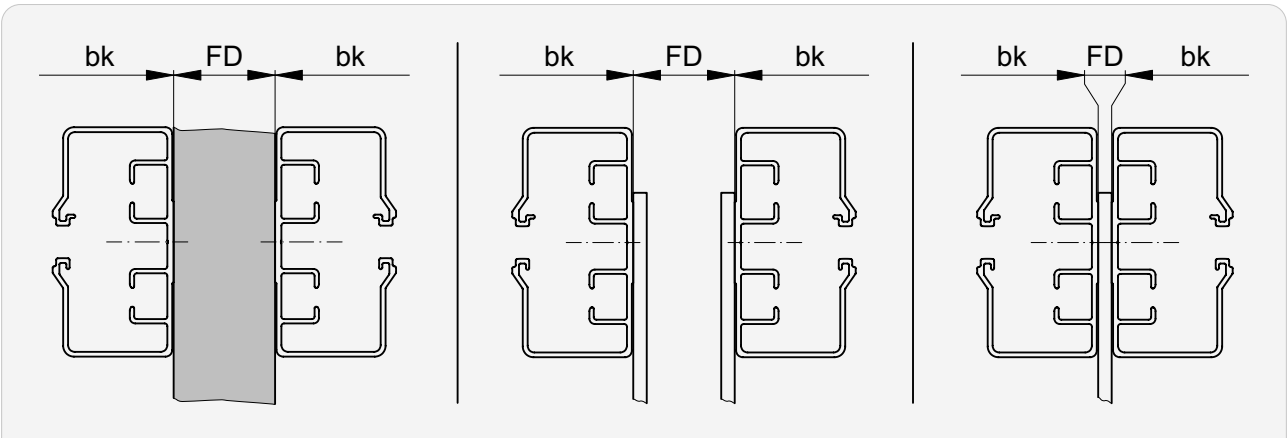
**v** Guide rail extension: max. 1000

Connected systems

System width



Distance between guides FD

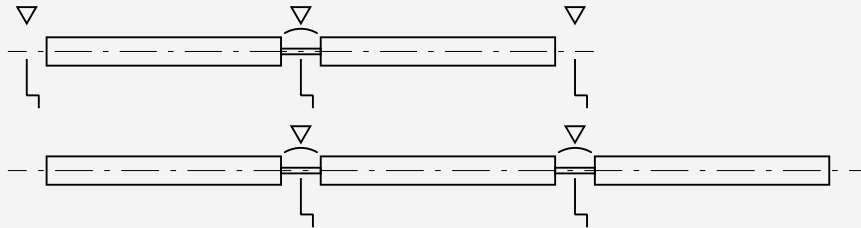


| FD min. | FD max. |
|---------|---------|
| 5       | 1000    |

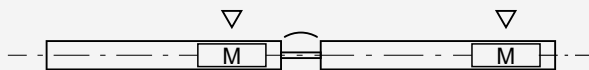
## ►► Connected systems

### Drive position

#### Gearbox



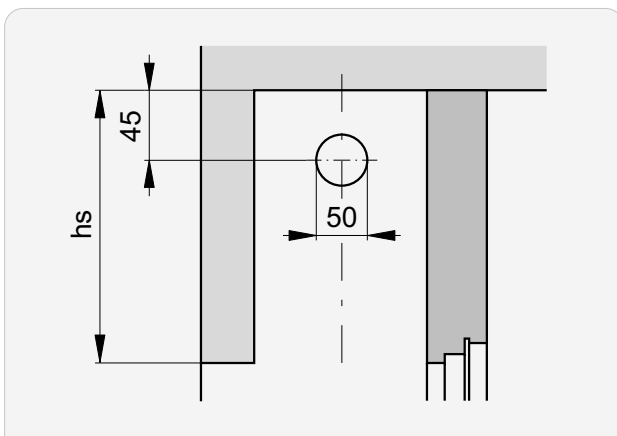
#### Motor



▼ Standard drive position

▽ Possible drive position

### Opening for connected blinds



Technical data of motors

Performance characteristics

| Type          | Limit switch |            | M    | n        | P   | I    |
|---------------|--------------|------------|------|----------|-----|------|
|               | Type         | Number of  | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |              |            |      |          |     |      |
| Elero Comfort |              |            |      |          |     |      |
| ECM...        | 06.01        | electronic | 6    | 26       | 115 | 0.50 |
|               | 09.01        |            | 9    |          | 156 | 0.68 |
|               | 06.51        | electronic | 6    |          | 115 | 0.50 |
|               | 09.51        |            | 9    |          | 156 | 0.68 |
| ECB...        | 06.51        | electronic | 6    | 26       | 115 | 0.50 |
|               | 09.51        |            | 9    |          | 156 | 0.68 |

- I Current consumption
- M Torque
- n Rotational speed
- P Power consumption





# Grinotex® III | Grinotex® III Sinus

|                                                |    |
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## Limit dimensions

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>1</sup> max.<br>(bk) | Height min.<br>(hl) | Height max.<br>(hl) | Surface <sup>2</sup> max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|---------------------------------|---------------------|---------------------|------------------------------------------------|
| Crank drive | 600 800 <sup>3</sup> | 4000                            | 380                 | 4250                | 8*                                             |
| Motor drive | 760 825 <sup>4</sup> |                                 |                     |                     | 8                                              |

### Connected systems

| Operation                | Width <sup>1</sup> max.<br>(bk) | Height max.<br>(hl) | Blinds max. | Blinds per<br>system | Surface <sup>2</sup> max.<br>[m <sup>2</sup> ] |
|--------------------------|---------------------------------|---------------------|-------------|----------------------|------------------------------------------------|
| Crank drive <sup>5</sup> | 10 000                          | 4250                | 3           | 2<br>3               | 8*<br>6.5*                                     |
| Motor drive              | 5500                            |                     | 2           | 2                    | 8                                              |

<sup>1</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

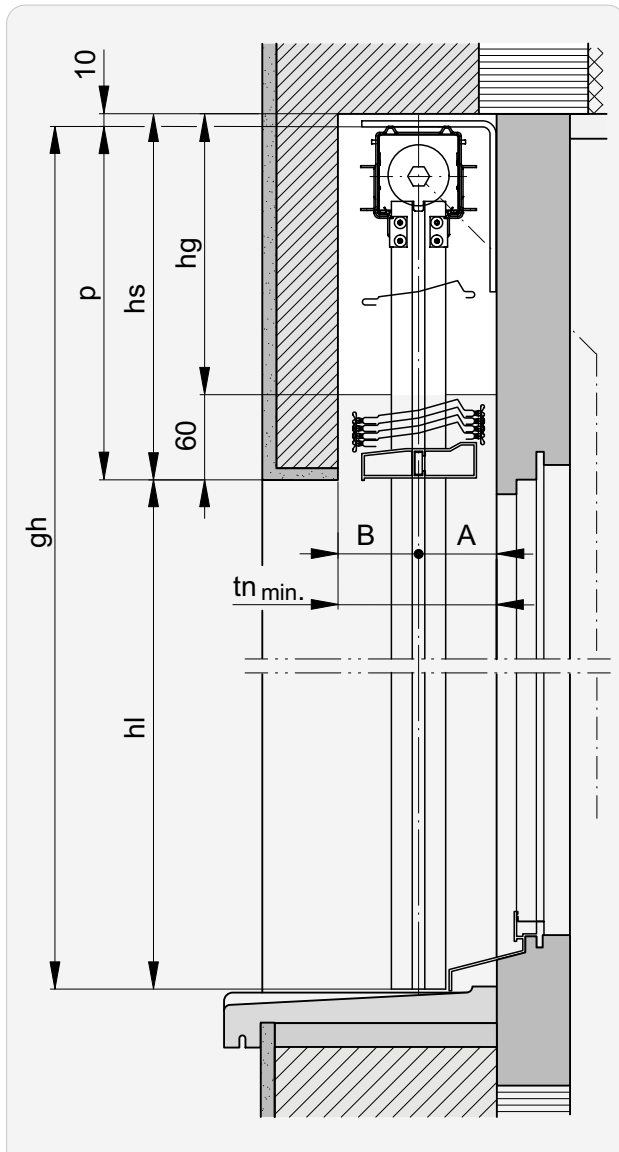
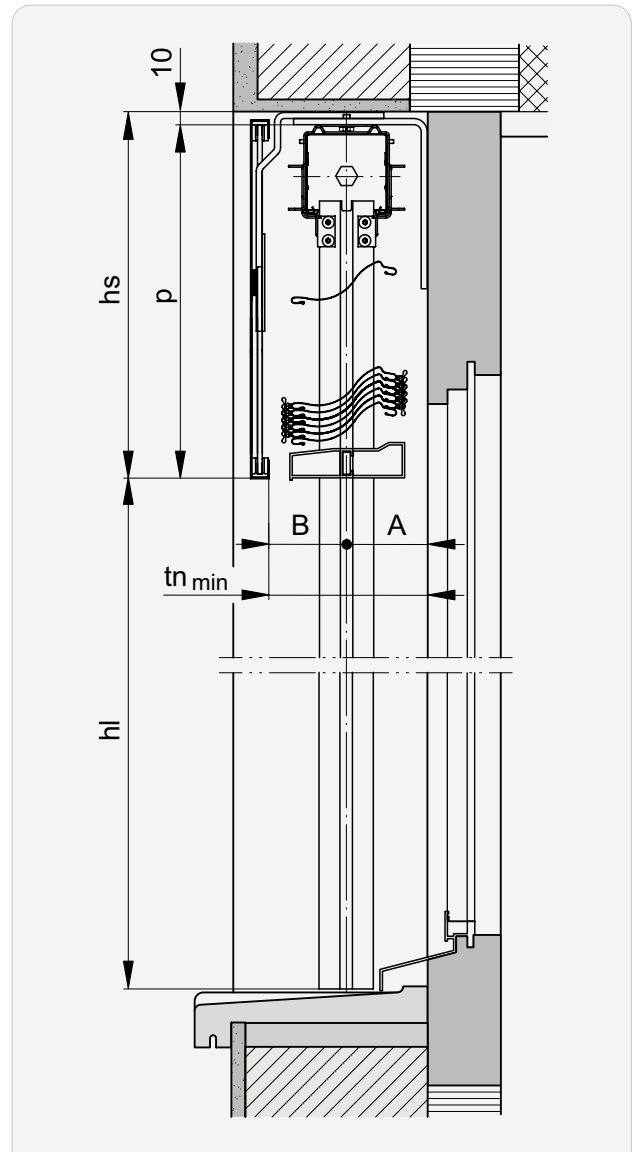
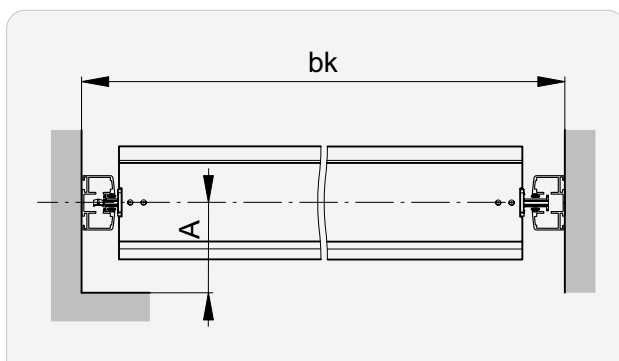
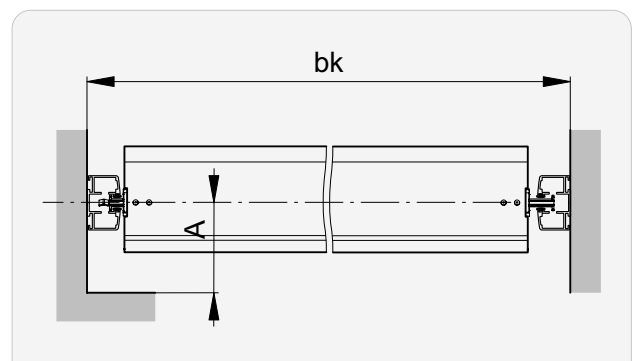
<sup>2</sup> If crank drive is in slat area: maximum surface area and crank position available on request.

<sup>3</sup> Gearbox in slat area.

<sup>4</sup> Motor drive with operating position.

<sup>5</sup> In the case of 3 connected blinds, the drive should be positioned between two blinds.

\* with MBMA— on request

**Built-in system****Vertical section: Grinotex® III****Built-in system with cover****Vertical section: Grinotex® III Sinus****Horizontal section: Grinotex® III****Horizontal section: Grinotex® III Sinus**

## Header dimensions Grinotex® III

| hl → l   | hs <sup>1</sup> |                |               |               |               |               |               |               |               | tn min. | A  | B  |
|----------|-----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|----|----|
|          | bk              | 2001–<br>≤2000 | 2251–<br>2250 | 2501–<br>2500 | 2751–<br>2750 | 3001–<br>3000 | 3250–<br>3250 | 3501–<br>3500 | 3751–<br>4000 |         |    |    |
| 1250     | 230             | 230            | 230           | 245           | 245           | 245           | 255           | 255           | 255           | 130*    | 65 | 65 |
| 1500     | 245             | 245            | 245           | 260           | 260           | 260           | 275           | 275           | 275           |         |    |    |
| 1750     | 265             | 265            | 280           | 280           | 280           | 290           | 290           | 290           | 290           |         |    |    |
| 2000     | 280             | 280            | 295           | 295           | 295           | 310           | 310           | 310           | 310           |         |    |    |
| 2250     | 300             | 300            | 315           | 315           | 315           | 325           | 325           | 325           | 325           |         |    |    |
| 2500     | 315             | 315            | 330           | 330           | 345           | 345           | 345           | 345           |               |         |    |    |
| 2750     | 335             | 335            | 350           | 350           | 360           | 360           |               |               |               |         |    |    |
| 3000     | 350             | 365            | 365           | 365           | 380           |               |               |               |               |         |    |    |
| 3250     | 370             | 385            | 385           | 385           |               |               |               |               |               |         |    |    |
| 3500     | 390             | 405            | 405           |               |               |               |               |               |               |         |    |    |
| 3750     | 410             | 425            | 425           |               |               |               |               |               |               |         |    |    |
| 4000     | 425             | 440            |               |               |               |               |               |               |               |         |    |    |
| 4250     | 445             | 460            |               |               |               |               |               |               |               |         |    |    |
| End rail | 23 mm           | 38 mm          | 50 mm         |               |               |               |               |               |               |         |    |    |

## Heights of package Grinotex® III

| hl → l   | p     |                |               |               |               |               |               |               |               | tn min. | A  | B  |
|----------|-------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|----|----|
|          | bk    | 2001–<br>≤2000 | 2251–<br>2250 | 2501–<br>2750 | 2751–<br>3000 | 3001–<br>3250 | 3250–<br>3500 | 3501–<br>3750 | 3751–<br>4000 |         |    |    |
| 1250     | 220   | 220            | 220           | 235           | 235           | 235           | 245           | 245           | 245           | 130*    | 65 | 65 |
| 1500     | 235   | 235            | 235           | 250           | 250           | 250           | 265           | 265           | 265           |         |    |    |
| 1750     | 255   | 255            | 270           | 270           | 270           | 280           | 280           | 280           | 280           |         |    |    |
| 2000     | 270   | 270            | 285           | 285           | 285           | 300           | 300           | 300           | 300           |         |    |    |
| 2250     | 290   | 290            | 305           | 305           | 305           | 315           | 315           | 315           | 315           |         |    |    |
| 2500     | 305   | 305            | 320           | 320           | 335           | 335           | 335           | 335           |               |         |    |    |
| 2750     | 325   | 325            | 340           | 340           | 350           | 350           |               |               |               |         |    |    |
| 3000     | 340   | 355            | 355           | 355           | 370           |               |               |               |               |         |    |    |
| 3250     | 330   | 375            | 375           | 375           |               |               |               |               |               |         |    |    |
| 3500     | 380   | 395            | 395           |               |               |               |               |               |               |         |    |    |
| 3750     | 400   | 415            | 415           |               |               |               |               |               |               |         |    |    |
| 4000     | 415   | 430            |               |               |               |               |               |               |               |         |    |    |
| 4250     | 435   | 450            |               |               |               |               |               |               |               |         |    |    |
| End rail | 23 mm | 38 mm          | 50 mm         |               |               |               |               |               |               |         |    |    |

<sup>1</sup> With gearbox in slot area: **hs + 20**.

\* + possible addition for protruding weatherboard or doorknobs.

**i** Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

## Header dimensions Grinotex® III Sinus

| hl → l   | hs <sup>1</sup> |               |               |               |               |               |               |               |               | tn min. | A  | B  |
|----------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|----|----|
|          | bk<br>≤2000     | 2001–<br>2250 | 2251–<br>2500 | 2501–<br>2750 | 2751–<br>3000 | 3001–<br>3250 | 3250–<br>3500 | 3501–<br>3750 | 3751–<br>4000 |         |    |    |
| 750      | 230             | 230           | 230           | 230           | 230           | 230           | 235           | 235           | 235           | 130*    | 65 | 65 |
| 1000     | 230             | 230           | 230           | 240           | 240           | 240           | 255           | 255           | 255           |         |    |    |
| 1250     | 245             | 245           | 245           | 260           | 260           | 260           | 270           | 270           | 270           |         |    |    |
| 1500     | 260             | 260           | 260           | 275           | 275           | 275           | 290           | 290           | 290           |         |    |    |
| 1750     | 285             | 285           | 300           | 300           | 300           | 310           | 310           | 310           | 310           |         |    |    |
| 2000     | 300             | 300           | 315           | 315           | 315           | 330           | 330           | 330           | 330           |         |    |    |
| 2250     | 320             | 320           | 335           | 335           | 335           | 345           | 345           | 345           | 345           |         |    |    |
| 2500     | 340             | 340           | 355           | 355           | 365           | 365           | 365           | 365           |               |         |    |    |
| 2750     | 355             | 355           | 370           | 370           | 380           | 380           |               |               |               |         |    |    |
| 3000     | 380             | 395           | 395           | 395           | 405           |               |               |               |               |         |    |    |
| 3250     | 395             | 410           | 410           | 410           |               |               |               |               |               |         |    |    |
| 3500     | 410             | 425           | 425           |               |               |               |               |               |               |         |    |    |
| 3750     | 430             | 445           | 445           |               |               |               |               |               |               |         |    |    |
| 4000     | 455             | 470           |               |               |               |               |               |               |               |         |    |    |
| 4250     | 470             | 485           |               |               |               |               |               |               |               |         |    |    |
| End rail | 23 mm           | 38 mm         | 50 mm         |               |               |               |               |               |               |         |    |    |

## Heights of package Grinotex® III Sinus

| hl → l   | p           |               |               |               |               |               |               |               |               | tn min. | A  | B  |
|----------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|----|----|
|          | bk<br>≤2000 | 2001–<br>2250 | 2251–<br>2500 | 2501–<br>2750 | 2751–<br>3000 | 3001–<br>3250 | 3250–<br>3500 | 3501–<br>3750 | 3751–<br>4000 |         |    |    |
| 750      | 220         | 220           | 220           | 220           | 220           | 220           | 225           | 225           | 225           | 130*    | 65 | 65 |
| 1000     | 220         | 220           | 220           | 230           | 230           | 230           | 245           | 245           | 245           |         |    |    |
| 1250     | 235         | 235           | 235           | 250           | 250           | 250           | 260           | 260           | 260           |         |    |    |
| 1500     | 250         | 250           | 250           | 265           | 265           | 265           | 280           | 280           | 280           |         |    |    |
| 1750     | 275         | 275           | 290           | 290           | 290           | 300           | 300           | 300           | 300           |         |    |    |
| 2000     | 290         | 290           | 305           | 305           | 305           | 320           | 320           | 320           | 320           |         |    |    |
| 2250     | 310         | 310           | 325           | 325           | 325           | 335           | 335           | 335           | 335           |         |    |    |
| 2500     | 330         | 330           | 345           | 345           | 355           | 355           | 355           | 355           |               |         |    |    |
| 2750     | 345         | 345           | 360           | 360           | 370           | 370           |               |               |               |         |    |    |
| 3000     | 370         | 385           | 385           | 385           | 395           |               |               |               |               |         |    |    |
| 3250     | 385         | 400           | 400           | 400           |               |               |               |               |               |         |    |    |
| 3500     | 400         | 415           | 415           |               |               |               |               |               |               |         |    |    |
| 3750     | 420         | 435           | 435           |               |               |               |               |               |               |         |    |    |
| 4000     | 445         | 460           |               |               |               |               |               |               |               |         |    |    |
| 4250     | 460         | 475           |               |               |               |               |               |               |               |         |    |    |
| End rail | 23 mm       | 38 mm         | 50 mm         |               |               |               |               |               |               |         |    |    |

<sup>1</sup> With gearbox in slot area: **hs + 20**.

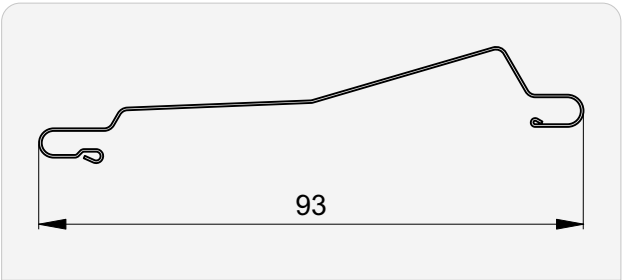
\* + possible addition for protruding weatherboard or doorknobs.



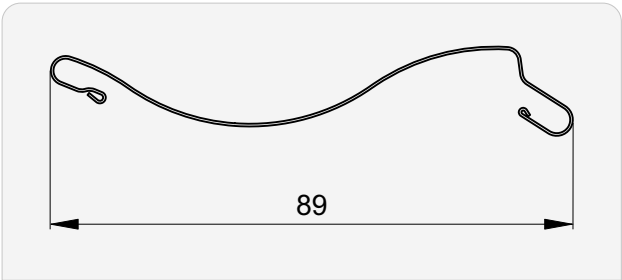
Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

Slat profiles

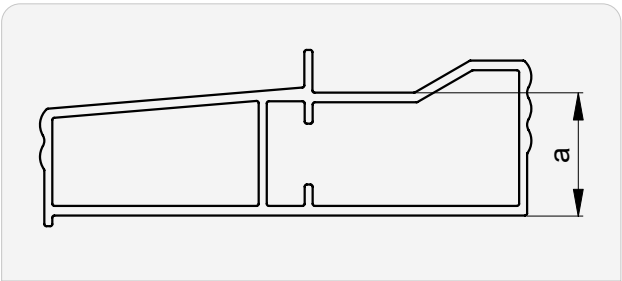
Grinotex® III



Grinotex® III Sinus



End rail



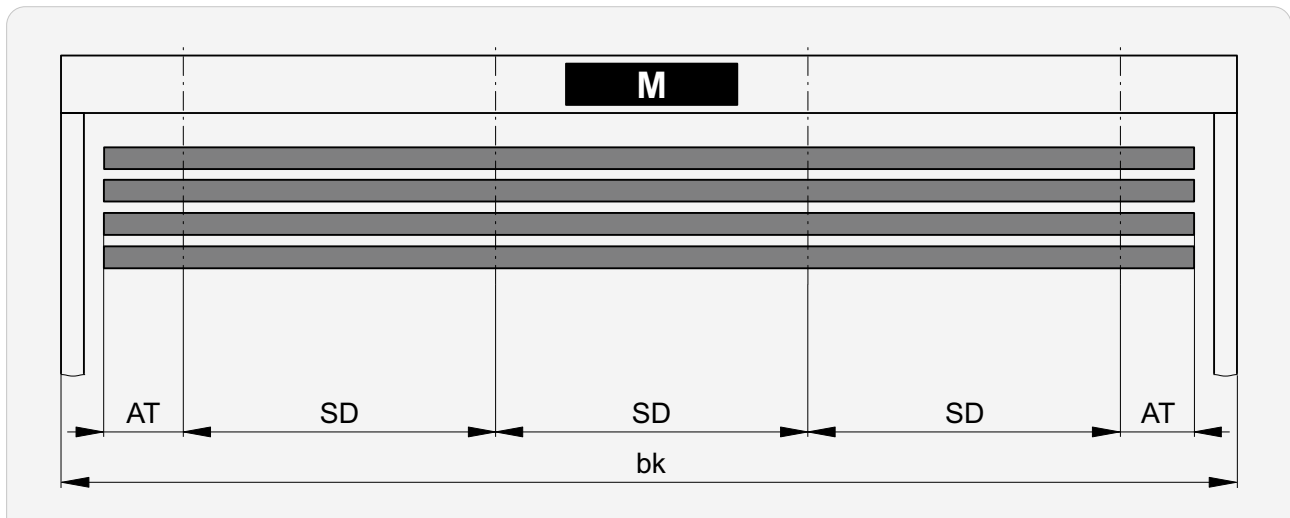
a

23

38

50

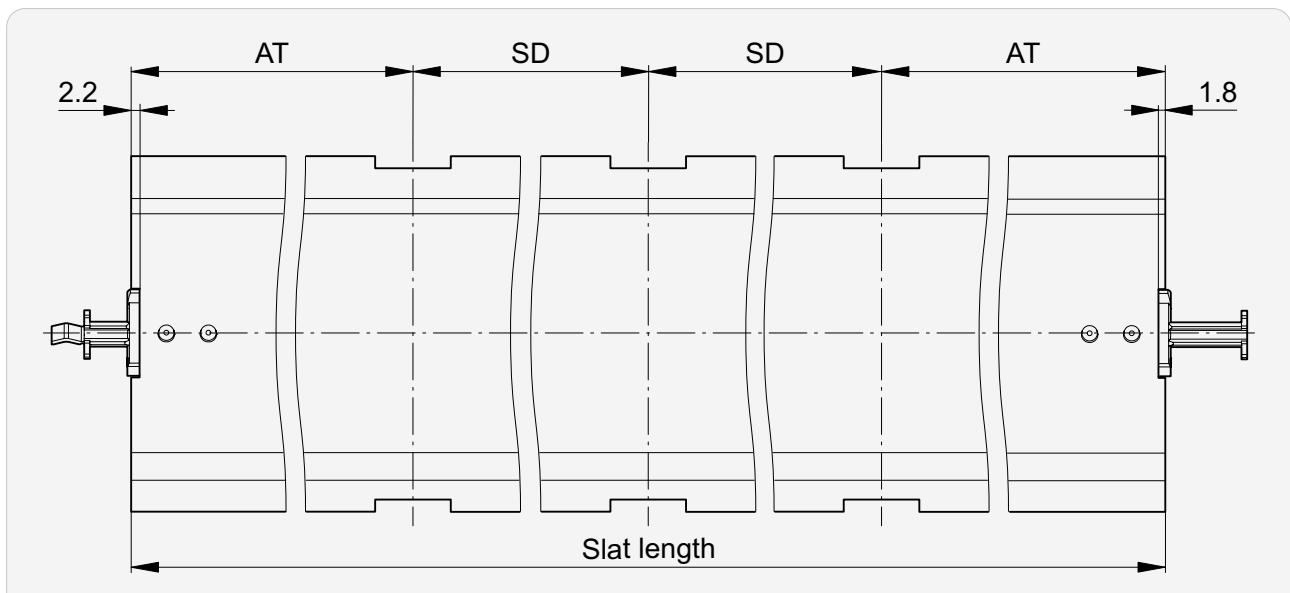
## Beginning distance | Slot spacing



| <b>bk</b>   | <b>AT min.</b>                     |                                     | <b>SD min.</b> | <b>SD max.</b> |
|-------------|------------------------------------|-------------------------------------|----------------|----------------|
|             | <b>without operating position</b>  | <b>with operating position</b>      |                |                |
| ≤750        | 100                                | 130                                 | 335*           | 800*           |
| 751... 1000 | 120                                | 130                                 |                |                |
| >1000       | 200                                | 200                                 |                |                |
| Special     | 80 <sup>1</sup> / 250 <sup>1</sup> | 110 <sup>1</sup> / 250 <sup>1</sup> |                |                |

<sup>1</sup> on request

\* Standard slot spacing machine fabrication



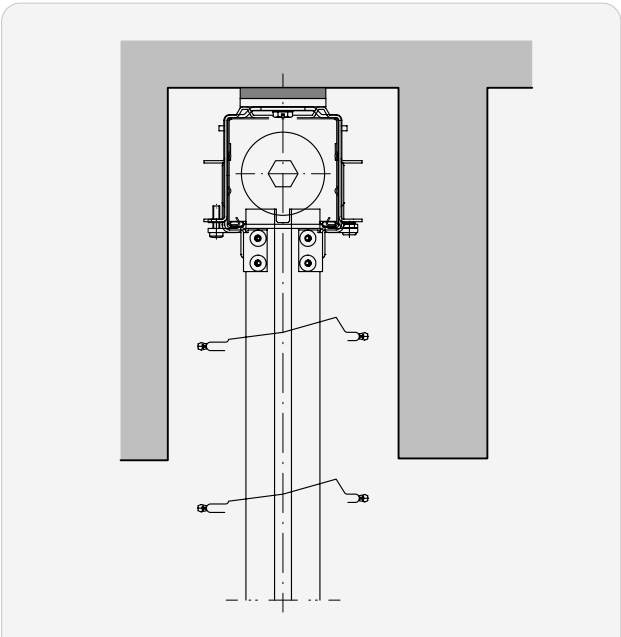
**AT** Beginning distance  
Distance from beginning of slot to centre of bearing

**SD** Slot spacing  
Distance from centre of bearing (slot) to centre of bearing (slot)

Housing fastening

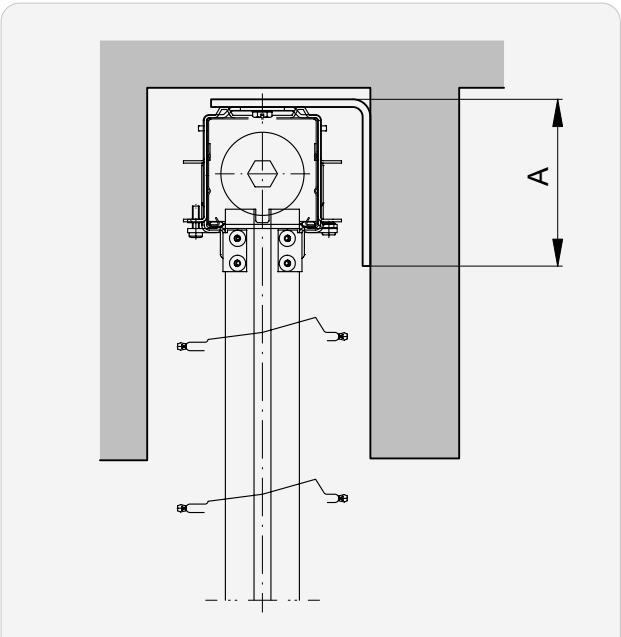
At top

NO

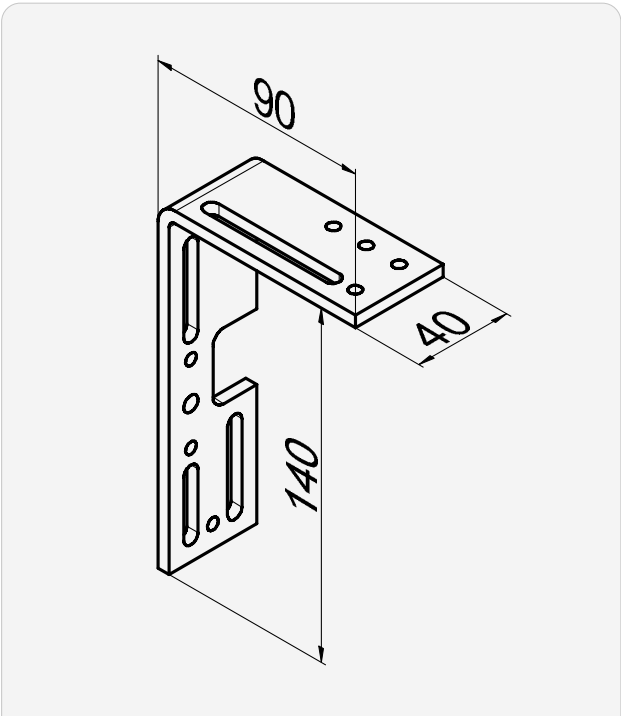


Box support

KT



Box support for type KT, for small headers\*

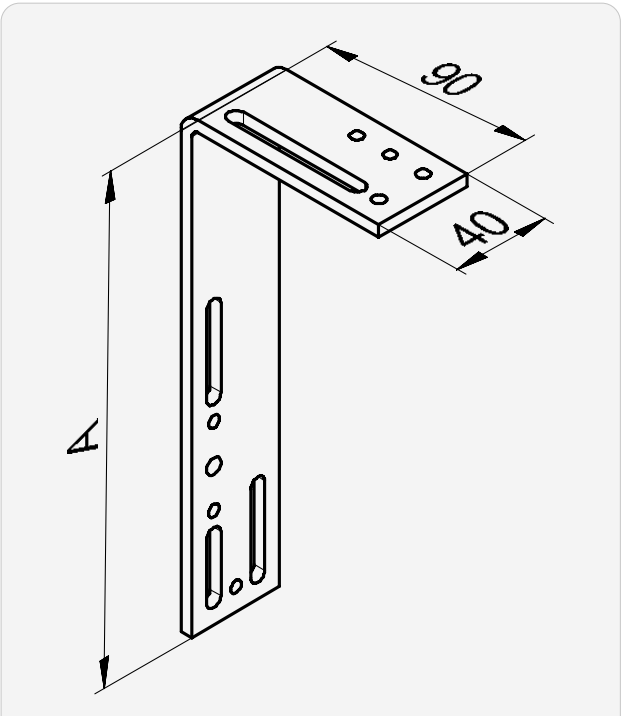


A

140

\* Header 100

Box support for type KT



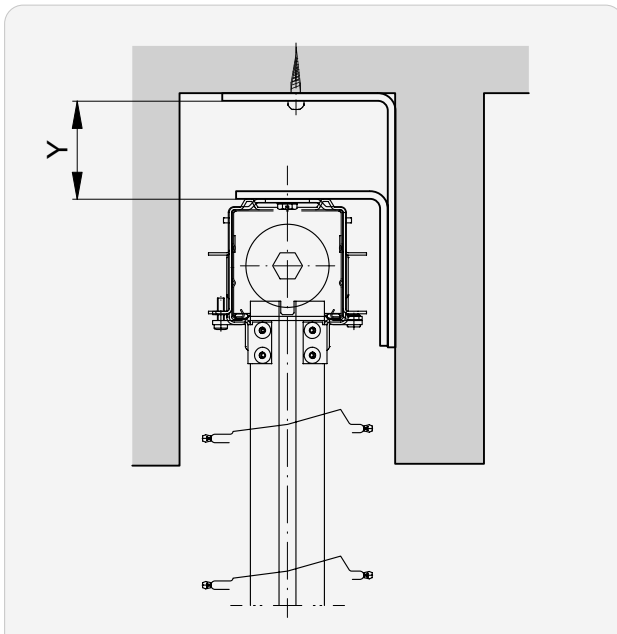
A

200

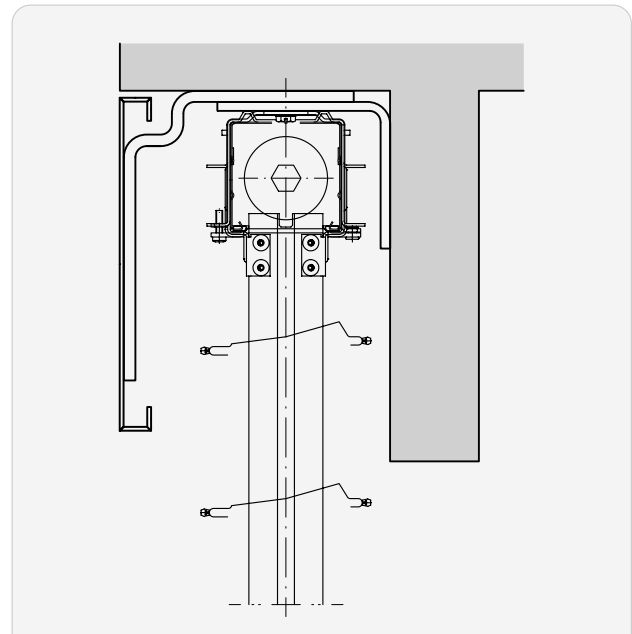
260

## ►► Housing fastening

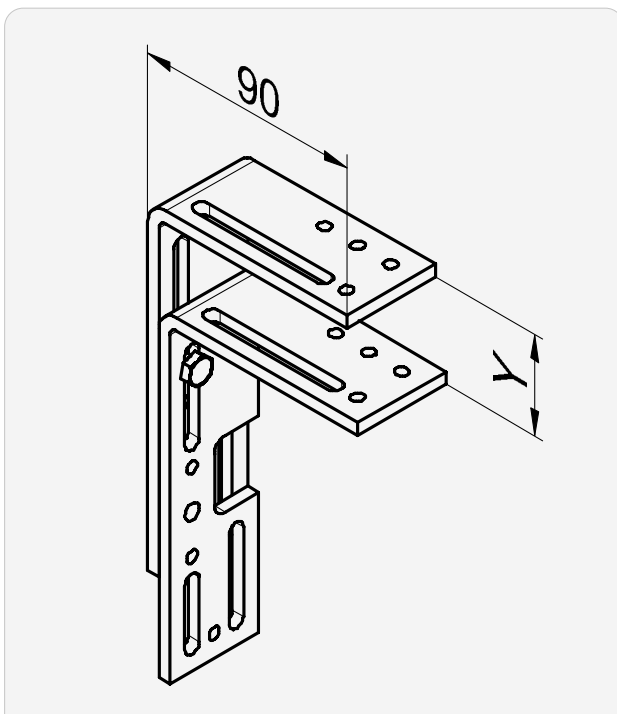
### Double box support

**DR**


### Gallery clip

**GB**


### Double box support for type DR


**Y**

10 ... 75

75 ... 135

135 ... 200

### Gallery clip for type GB


 See additional documentation:  
**Short manual "Covers"**

[Covers](#)

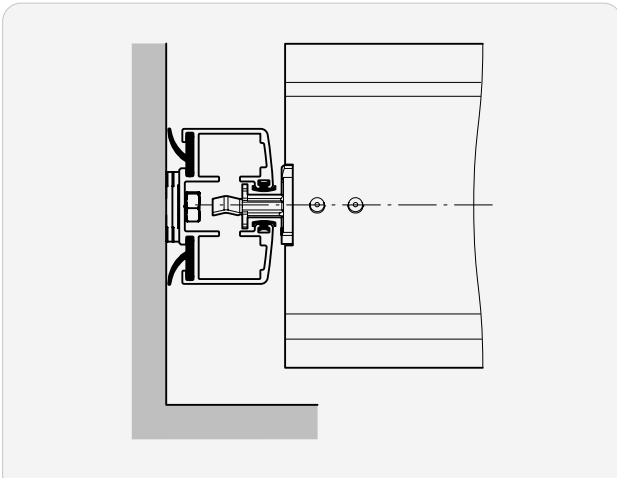

Number of box supports

| bk          | Quantity |
|-------------|----------|
| ≤2000*      | 0        |
| 2001...3000 | 1        |
| 3001...4000 | 2        |
| >4000       | 3        |

\* **bk ≤ 1500** with **motor > 9 Nm**

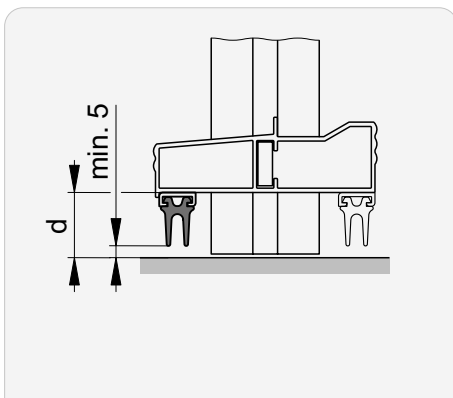
## Darkening

### Vertical: Joint-covering profile



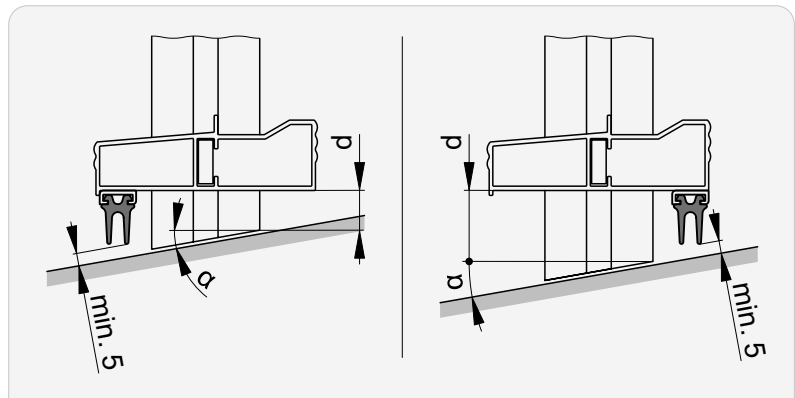
### Horizontal: Double lip-seal

#### Situation A



**d**  
≥ 25

#### Situation B



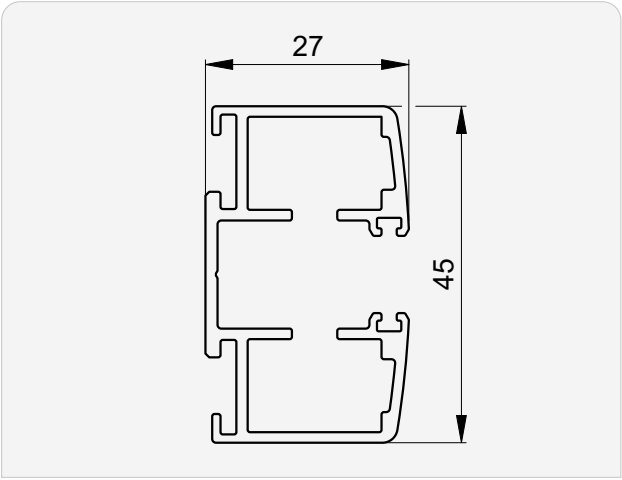
#### outside

| $\alpha$ | d  |
|----------|----|
| 1...7    | 30 |
| 3...12   | 25 |
| 8...15   | 20 |
| 13...15  | 15 |

#### inside

| $\alpha$ | d         |
|----------|-----------|
| 1...8    | 30        |
| 1...21   | 35        |
| 9...32   | 40        |
| 21...40  | 45        |
| 30...46  | 50 (max.) |
| 47...60  | –         |

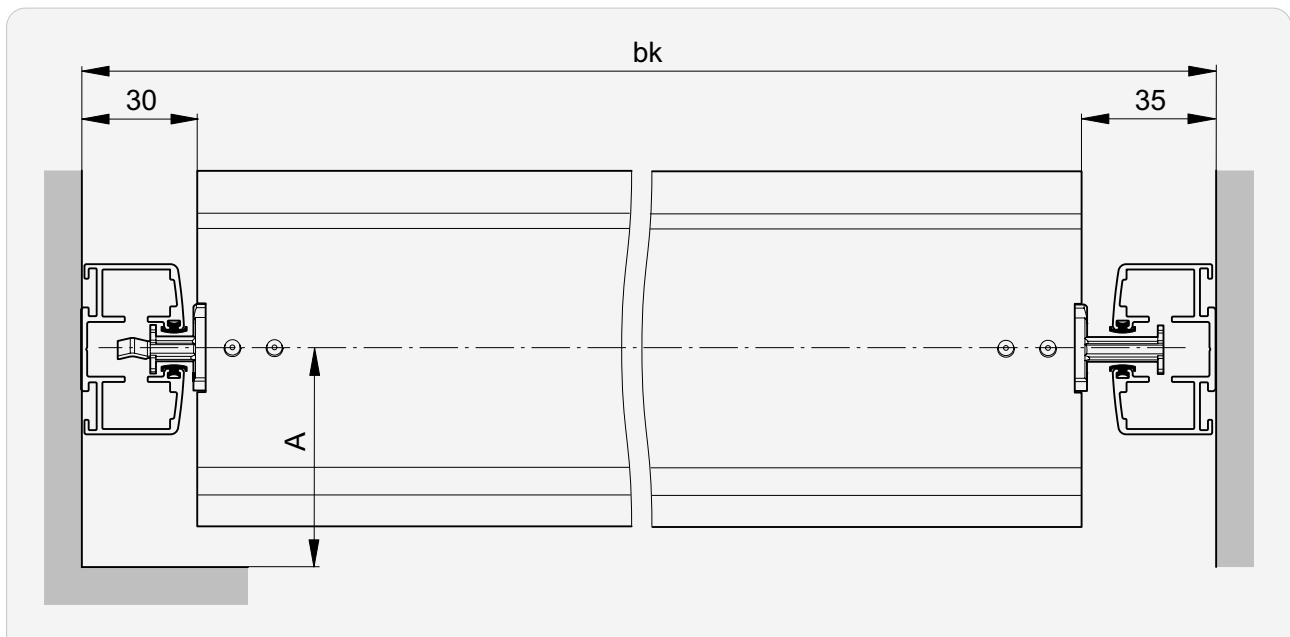
Guide rail



|                                           |           |                                                |           |
|-------------------------------------------|-----------|------------------------------------------------|-----------|
| ➤ Distance between guides <b>FD</b> ..... | <b>70</b> | ➤ Guide rail cut-outs in windowsill area ..... | <b>60</b> |
| ➤ Fastening points.....                   | <b>65</b> | ➤ Installation window .....                    | <b>64</b> |
| ➤ Guide extension and facet .....         | <b>59</b> | ➤ Integrated guides.....                       | <b>53</b> |
| ➤ Guide rail fastenings.....              | <b>54</b> |                                                |           |

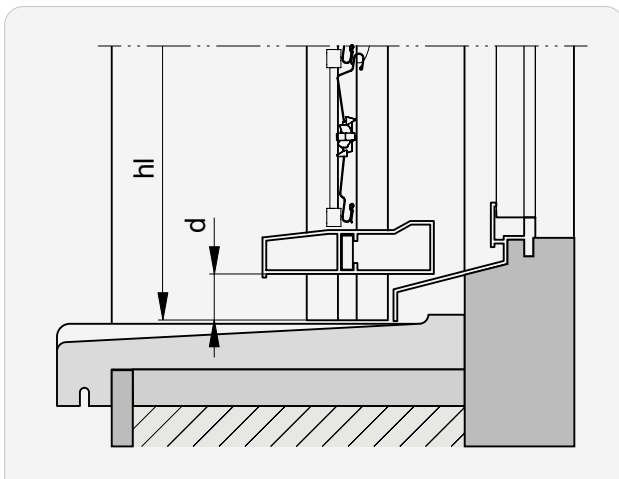
## Sections | Details

### Horizontal section



➡ Value for **A**..... **36**

### Detail for bottom



#### **d (d - dimension)**

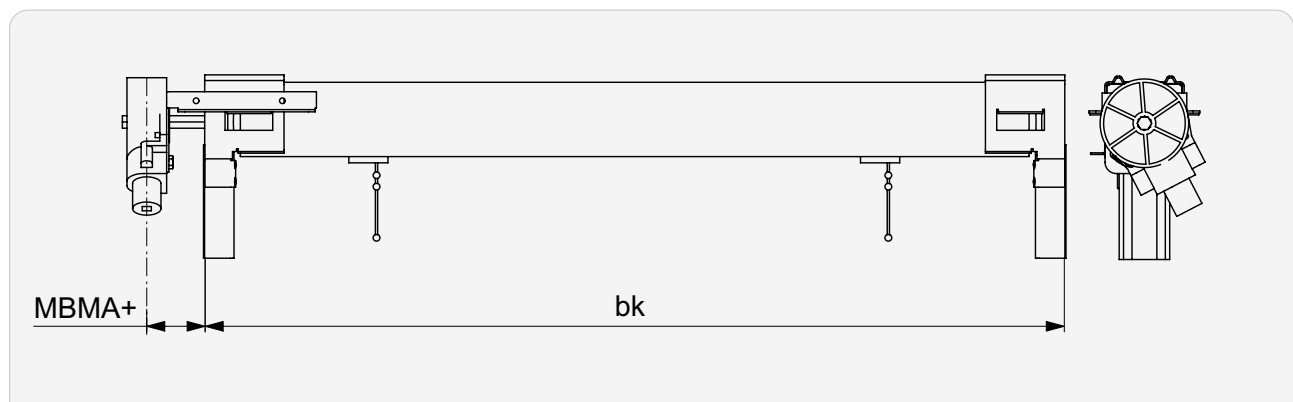
5...50 +5/-3

in 5 mm steps | Standard: 20

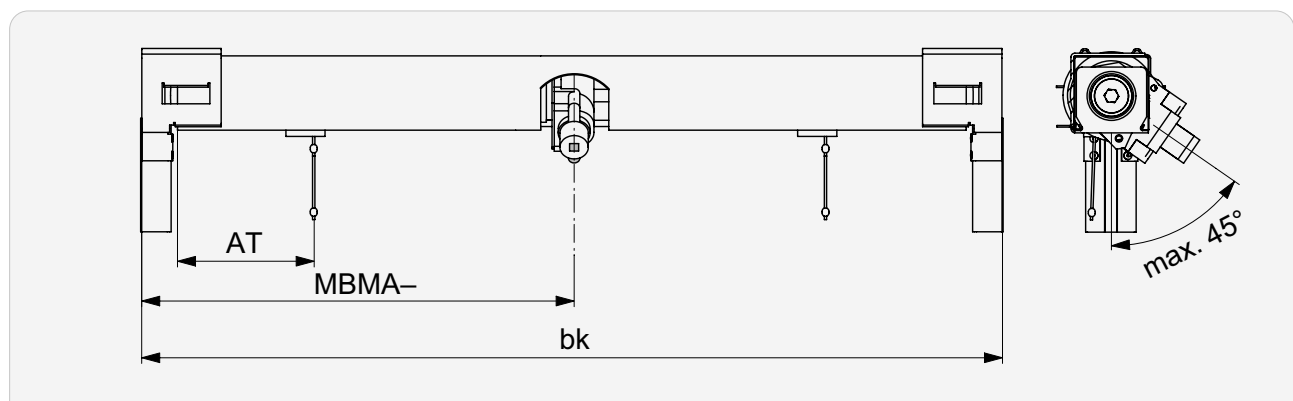
**i** **d - dimension** may vary with different blind dimensions.

## Sections for crank drive (MBMA)

### outside bk



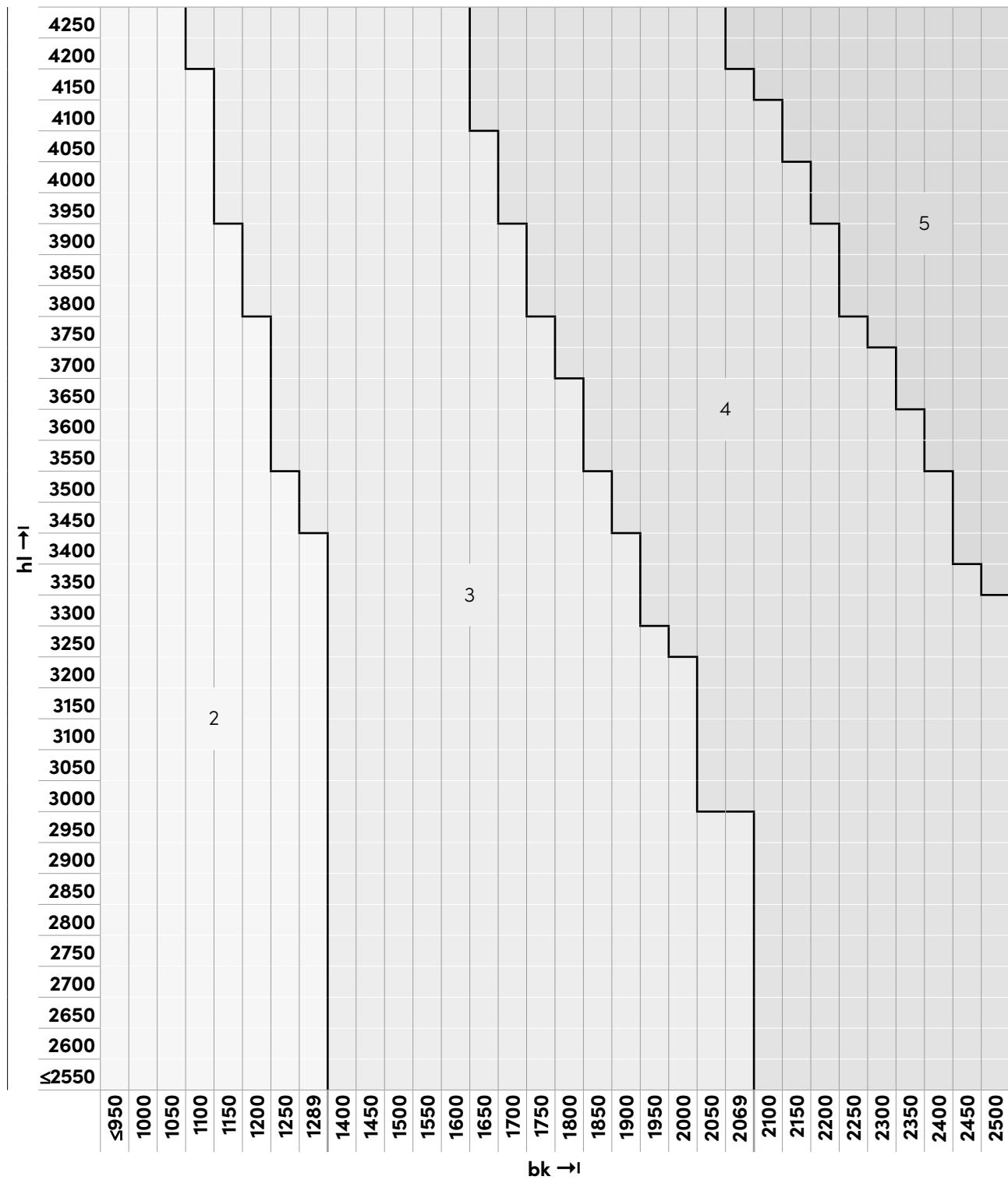
### within bk



| Version                    | MBMA+    | MBMA-               | Width max.<br>(bk) | AT  |
|----------------------------|----------|---------------------|--------------------|-----|
| without operating position | 25...100 | 95 + AT ... (bk/2)  | ≤750               | 100 |
|                            |          |                     | 751...1000         | 120 |
|                            |          |                     | >1000              | 200 |
| with operating position    | 25...100 | 125 + AT ... (bk/2) | ≤750               | 130 |
|                            |          |                     | 751...1000         | 130 |
|                            |          |                     | >1000              | 200 |

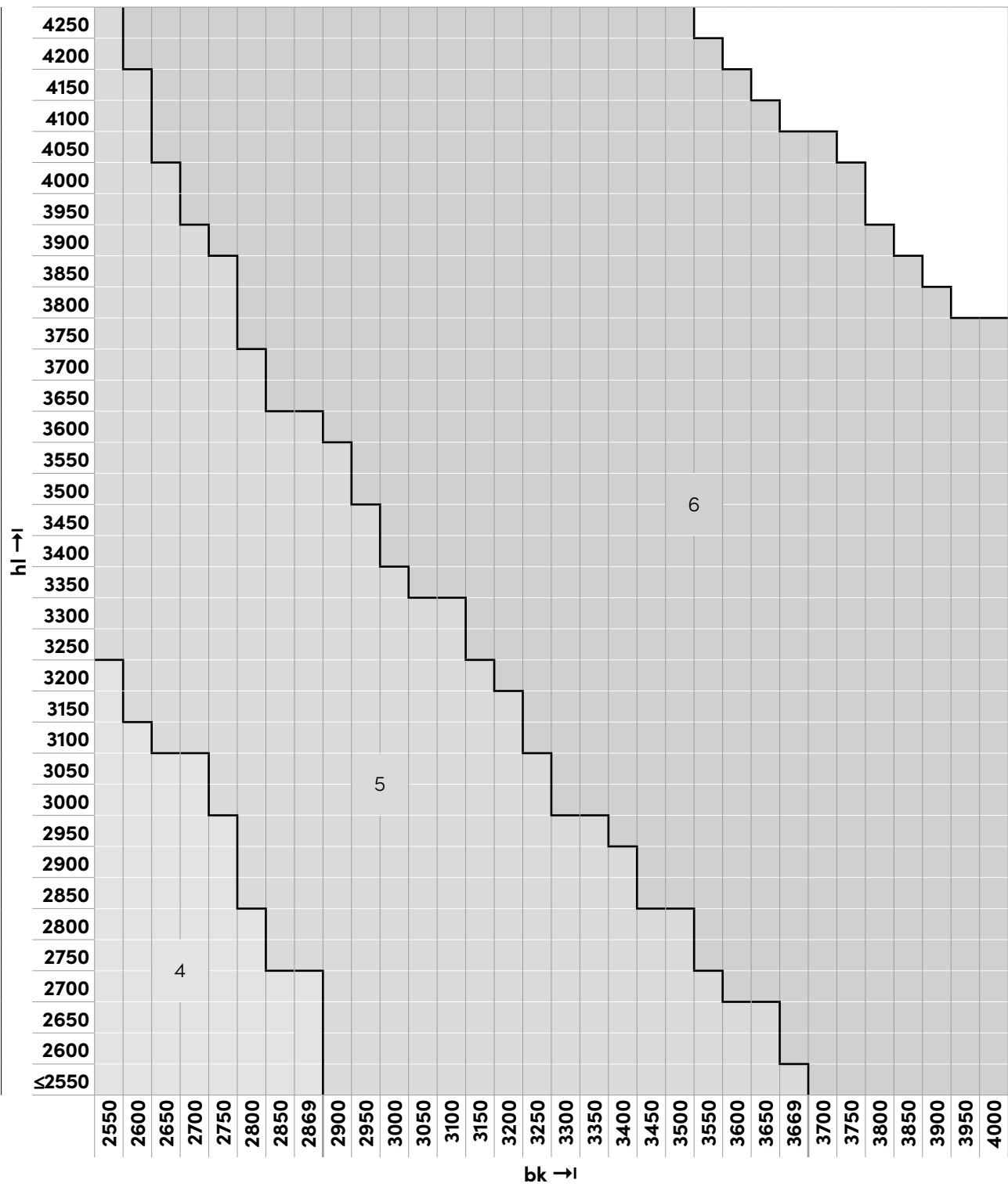
## Vertical connections | Standard motor position

Number of bearings



►► Vertical connections | Standard motor position

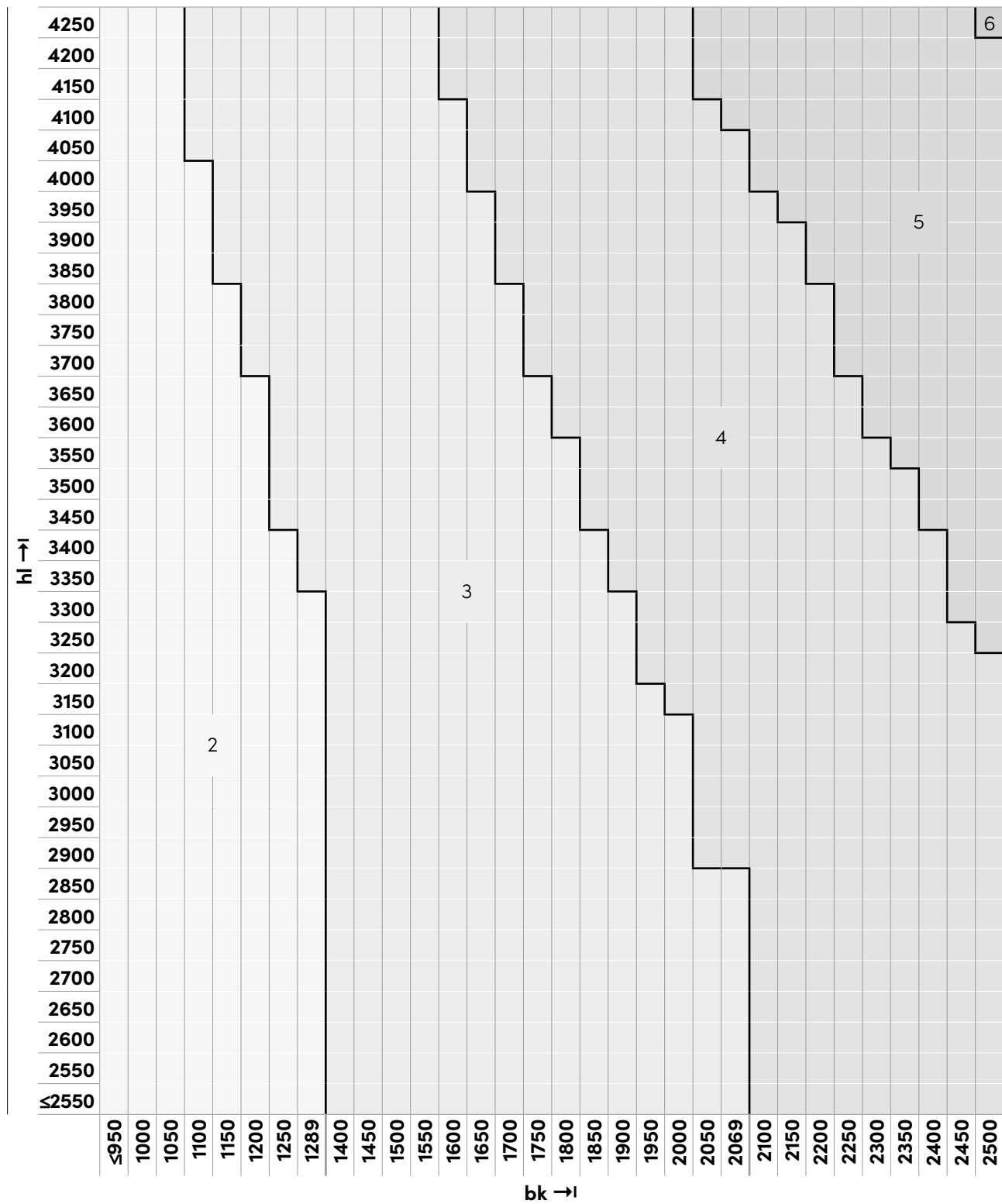
Number of bearings



## ►► Vertical connections | Standard motor position

Number of bearings

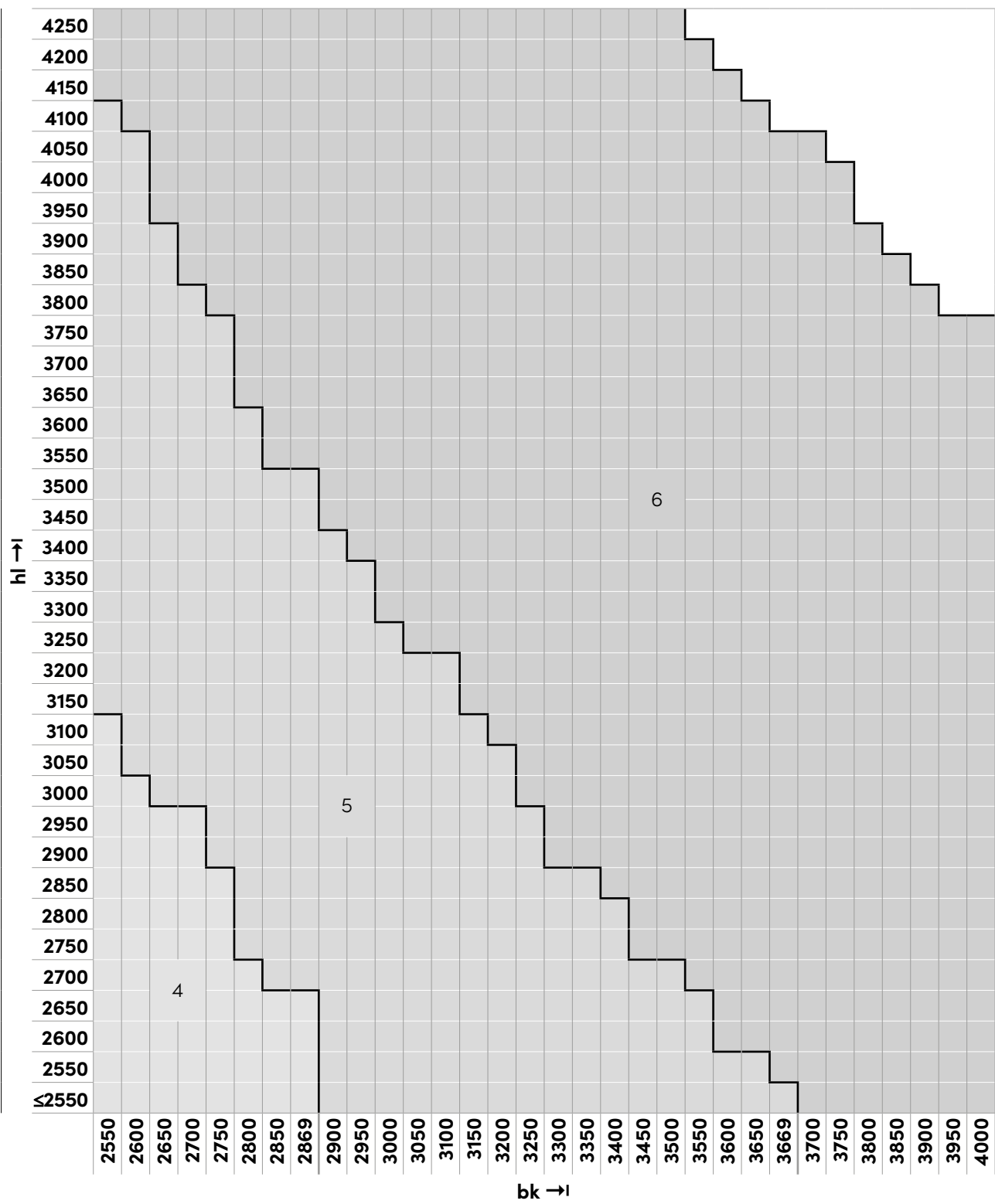
Sinus



►► Vertical connections | Standard motor position

Number of bearings

Sinus



## ►► Vertical connections | Standard motor position

### Standard motor position

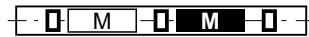
#### Number of bearings

#### Standard motor position

2



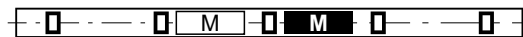
3



4



5



6



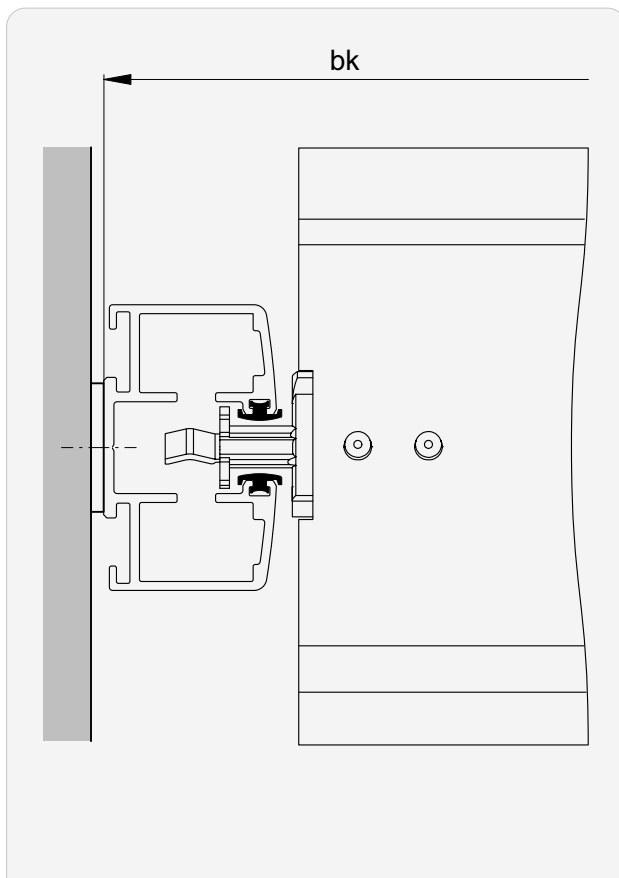
 Bearing

 Standard motor position

 Possible motor position (on request)

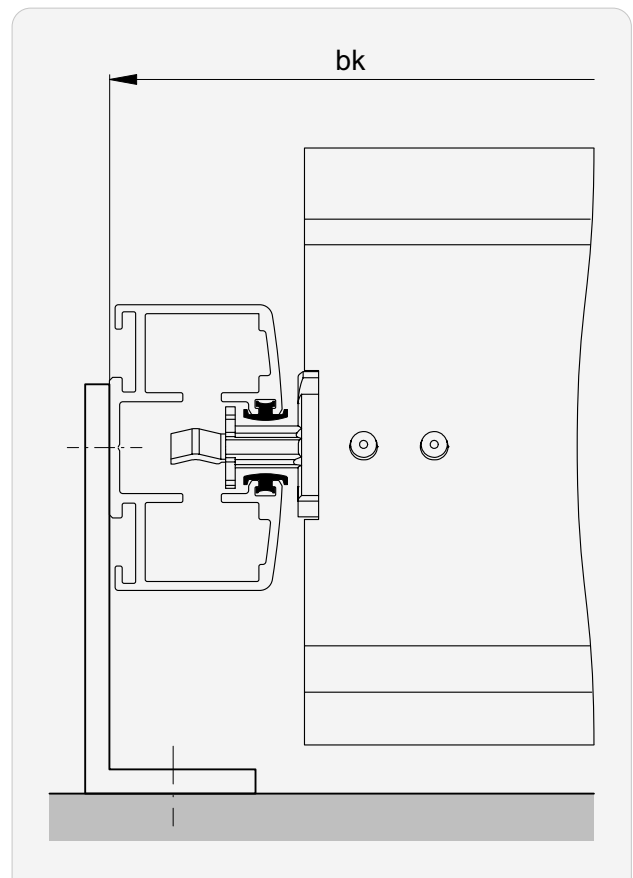
## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



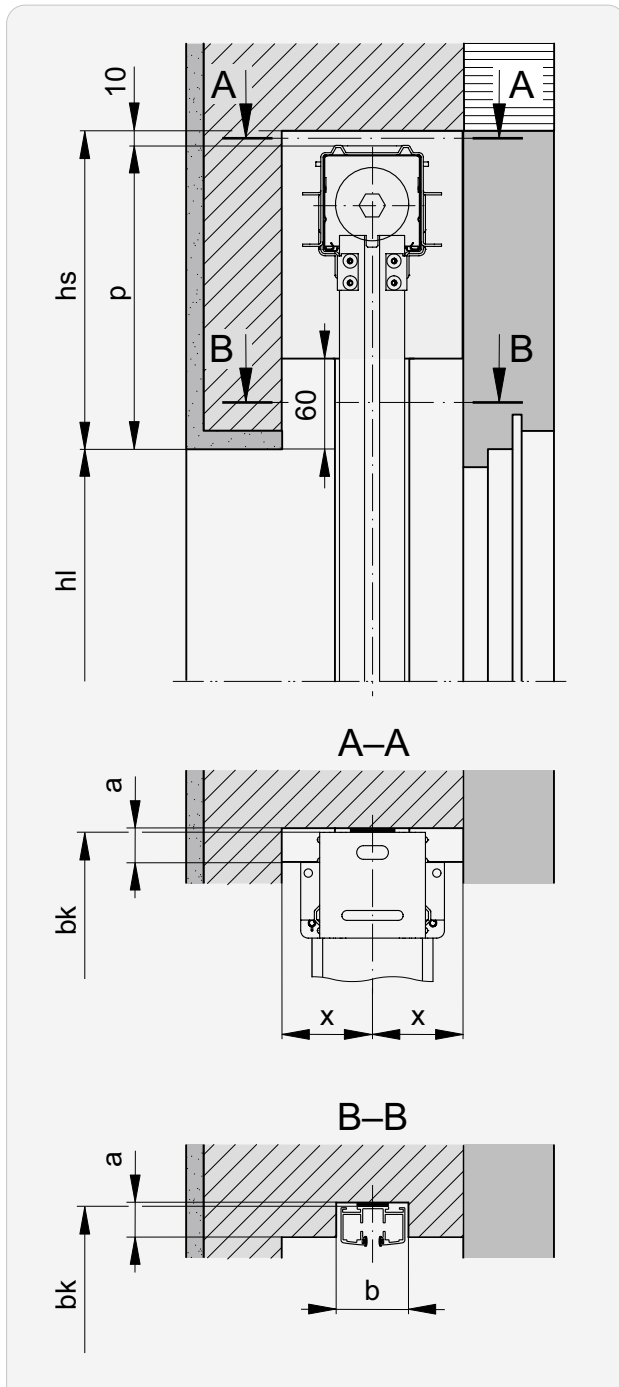
**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

### Guides suspended



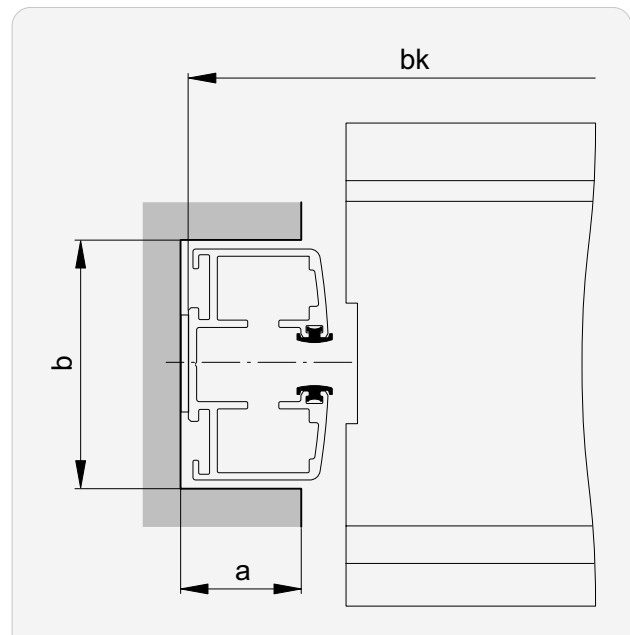
## ►► Guide rail installation (principle)

### Guides recessed



**! Two-part guides required!**

**i** Only possible if  $h_l > 1135$



| Version     | x min. |
|-------------|--------|
| Crank drive | 60     |
| Motor drive |        |

| a         | b         |
|-----------|-----------|
| $\leq 20$ | $\geq 50$ |

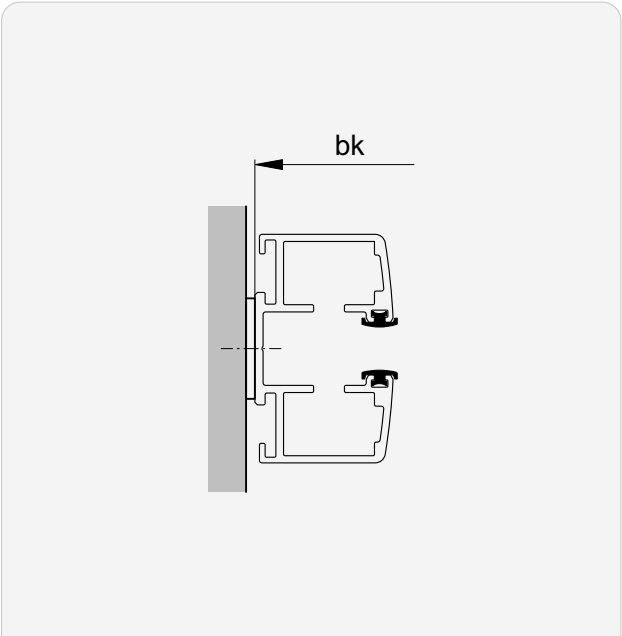
Guide rail fastenings (principle)

Overview

| Type |   |    |   |    |   |   |   |   |    |   |   |    |   |    |
|------|---|----|---|----|---|---|---|---|----|---|---|----|---|----|
| A    | B | Bd | C | Cd | E | F | G | H | Kv | M | T | Tv | V | Wv |
| ●    | ● | ●  | ● | ●  | ● | ● | — | — | —  | — | ● | —  | ● | —  |

● applicable without restrictions

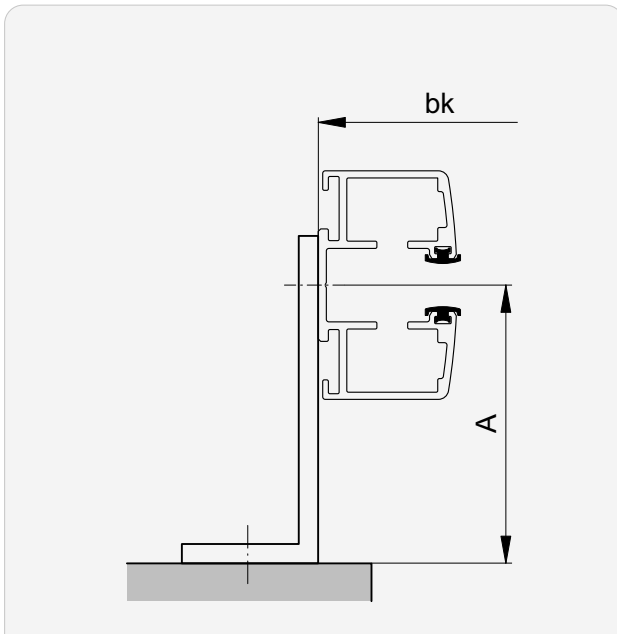
A Soffit installation



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

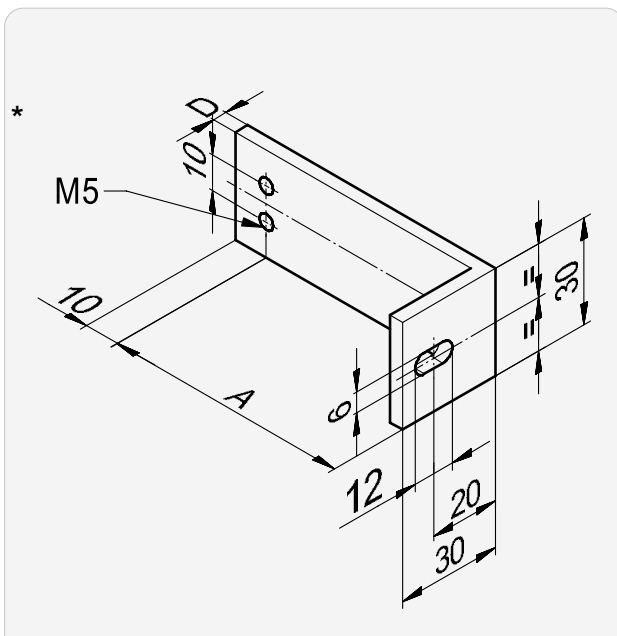
## ►► Guide rail fastenings (principle)

### B Installation with fastening bracket



Bracket outwards

### Fastening bracket for types B and C

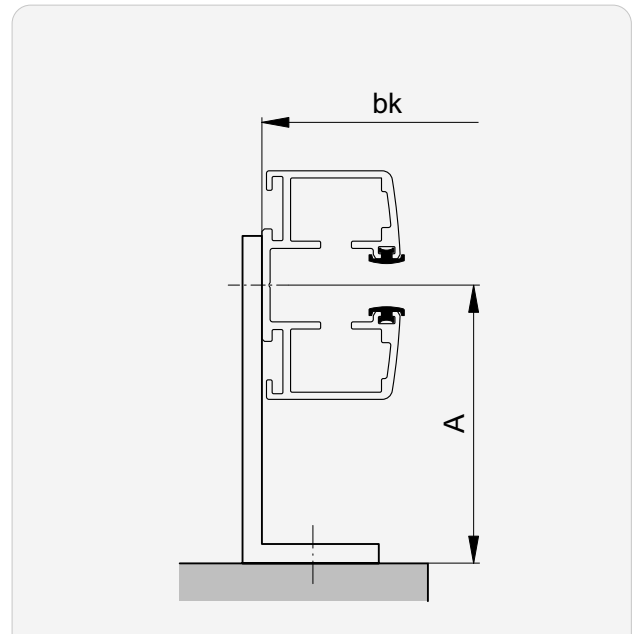


| A*       | D |
|----------|---|
| 20...115 | 4 |

**i** For suspended guide rails always with **brackets**  
**70 mm.**

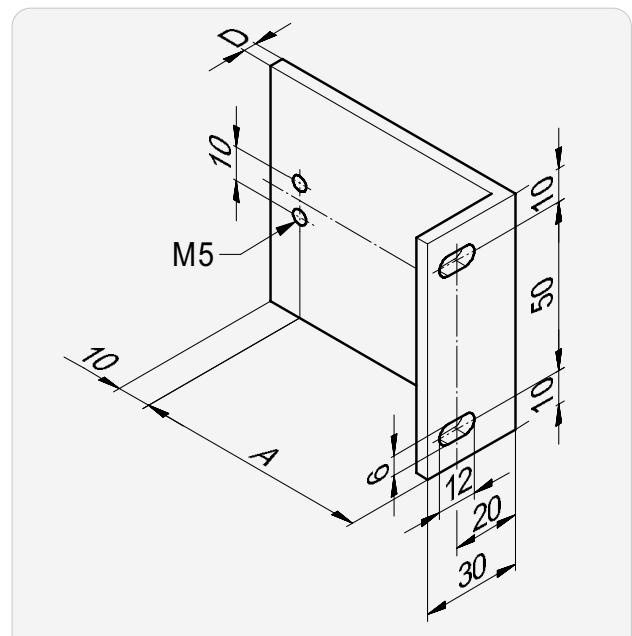
\* in 5 mm steps

### C Installation with fastening bracket



Bracket inwards

### Fastening bracket 70 mm for types B and C

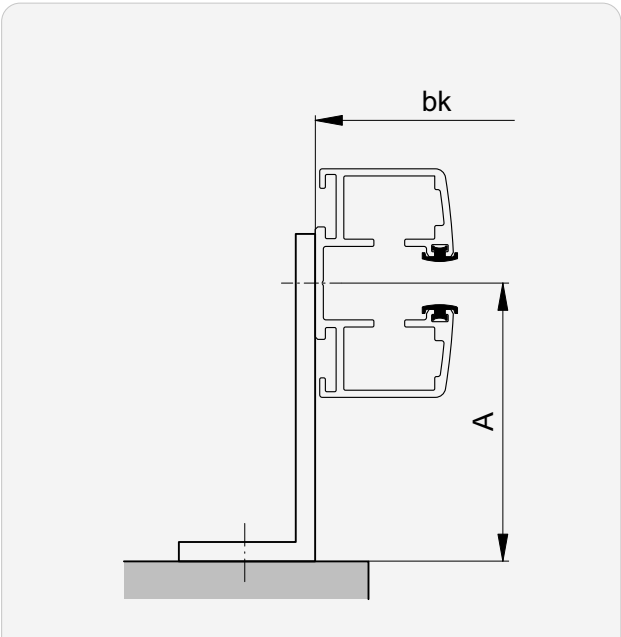


|             |          |
|-------------|----------|
| <b>A*</b>   | <b>D</b> |
| 20 ... 115  | 4        |
| 120 ... 215 | 5        |

**i** If the **projection is  $\geq 120$** , all products are fastened with a **70 mm bracket**.

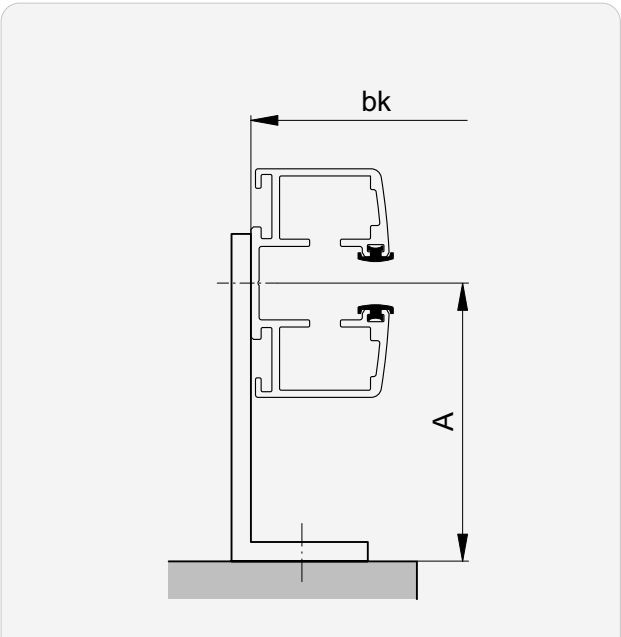
►► Guide rail fastenings (principle)

**Bd** Installation with continuous fastening bracket



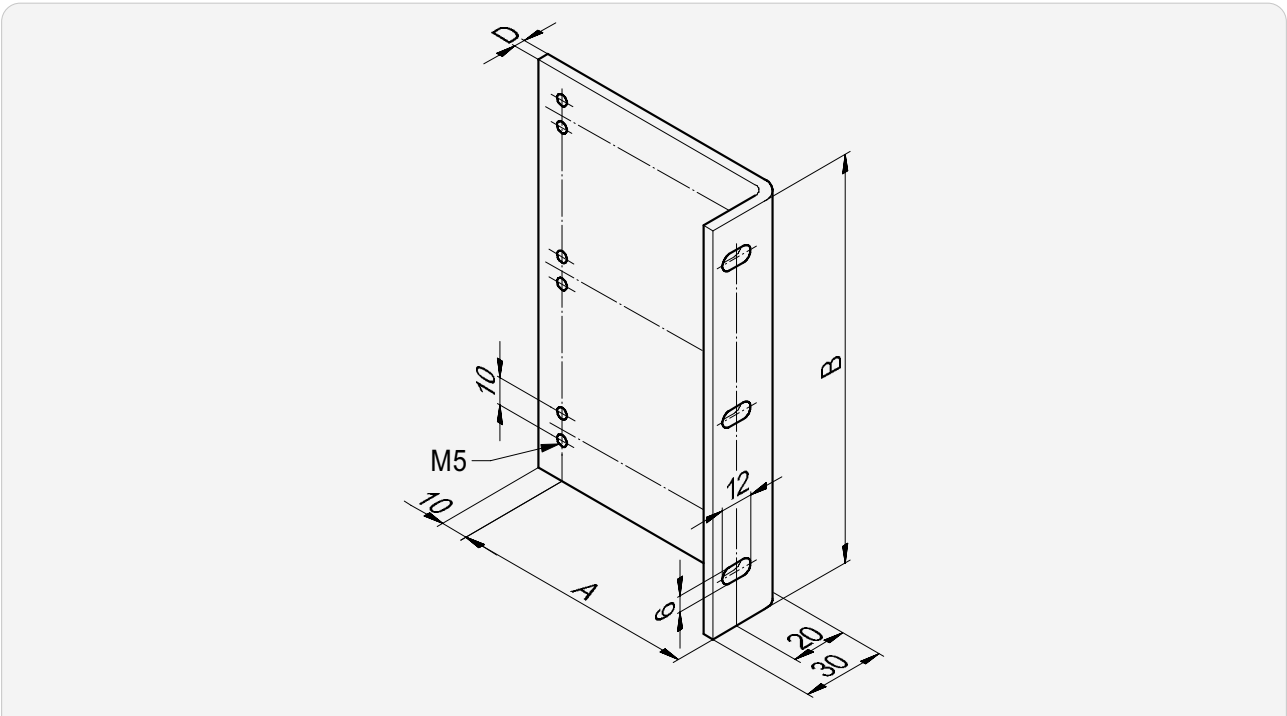
Bracket outwards

**Cd** Installation with continuous fastening bracket



Bracket inwards

Continuous fastening bracket for types Bd and Cd

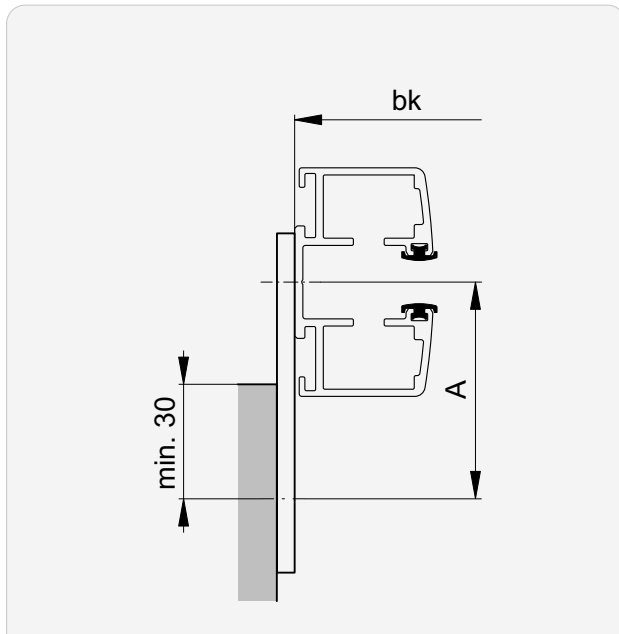


|           |          |
|-----------|----------|
| <b>A*</b> | <b>D</b> |
| 20...300  | always 4 |

\* in 5 mm steps

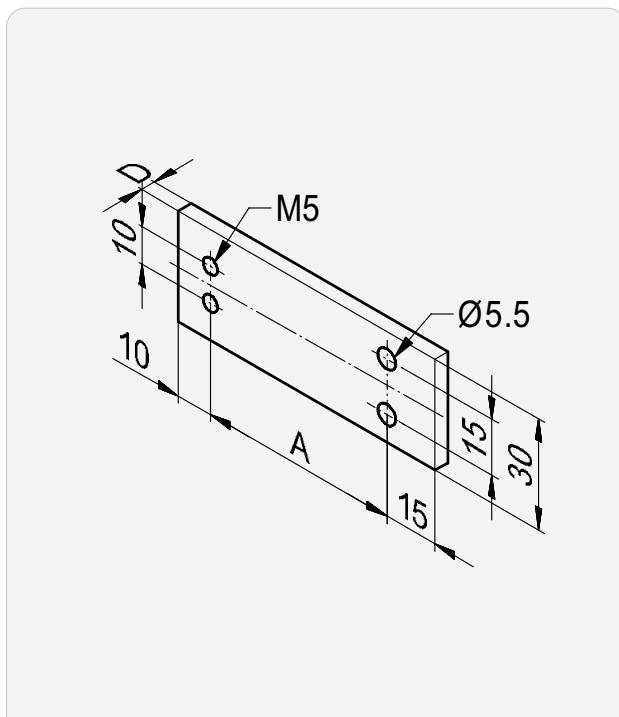
## ►► Guide rail fastenings (principle)

### **E | F** Installation with fastening lug



inwards / outwards

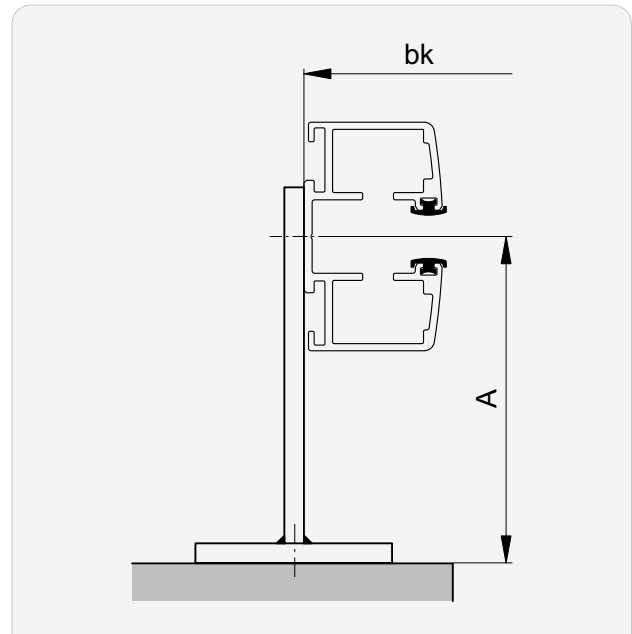
#### Fastening lug for type E | F



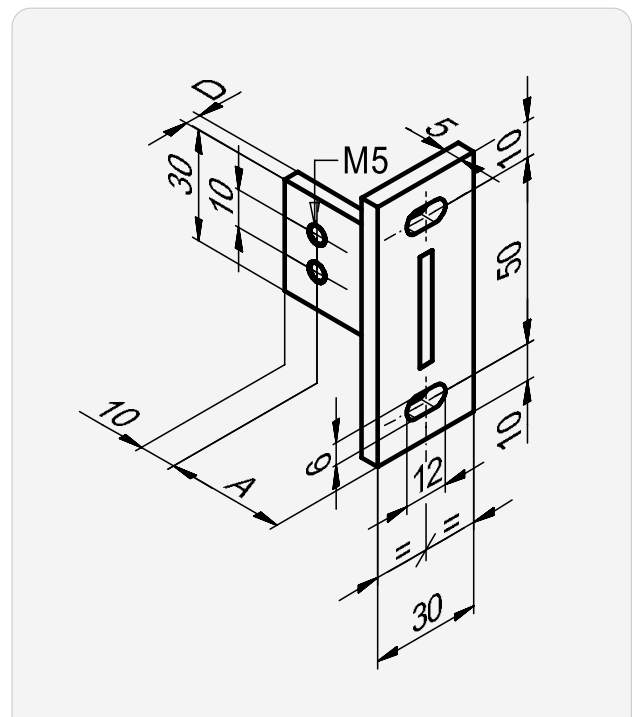
| A*          | D |
|-------------|---|
| 50 ... 115  | 4 |
| 120 ... 125 | 5 |

\* in 5 mm steps

### **T** Installation with T-bracket



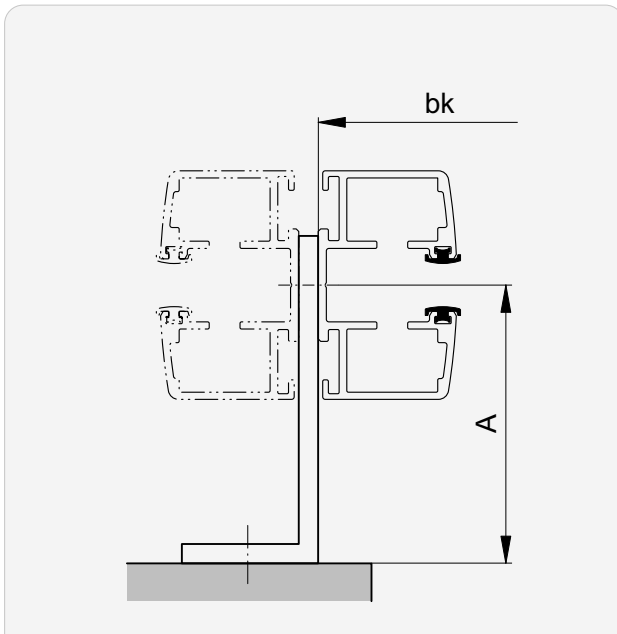
#### T-bracket for type T



| A*          | D |
|-------------|---|
| 20 ... 115  | 4 |
| 120 ... 215 | 5 |

## ►► Guide rail fastenings (principle)

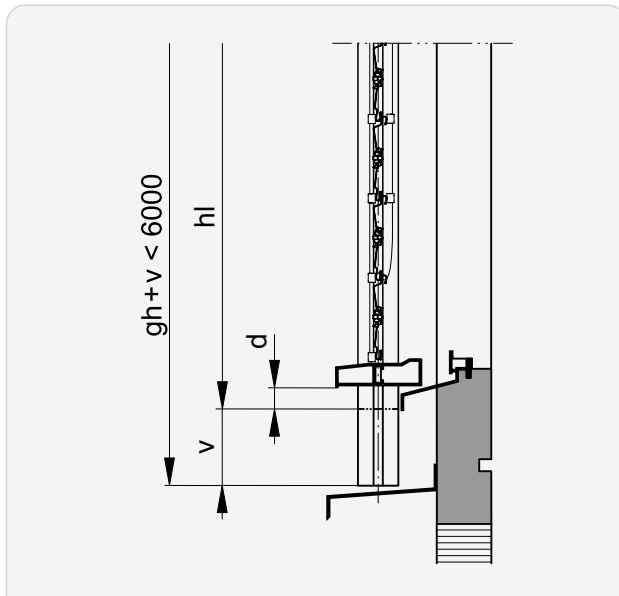
### V Installation with one bracket



The blind on the right uses the fastening for the blind on the left.

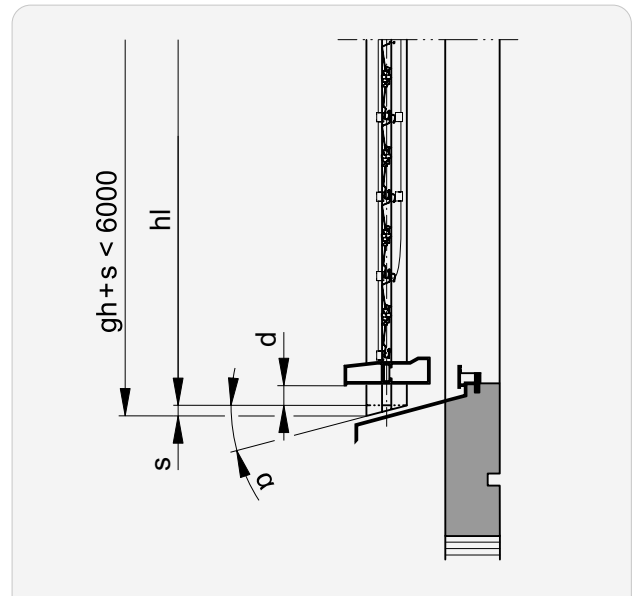
## Guide extension and facet

### Extension and facet

**v**

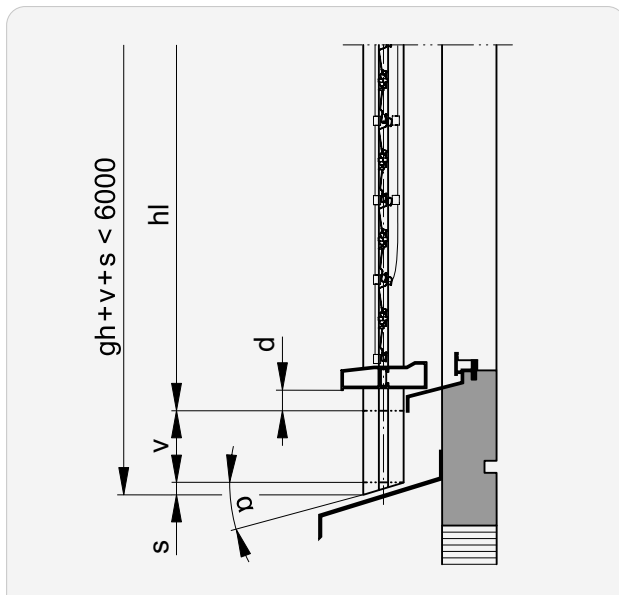
0...3000

### Facet

**α**

5...60°

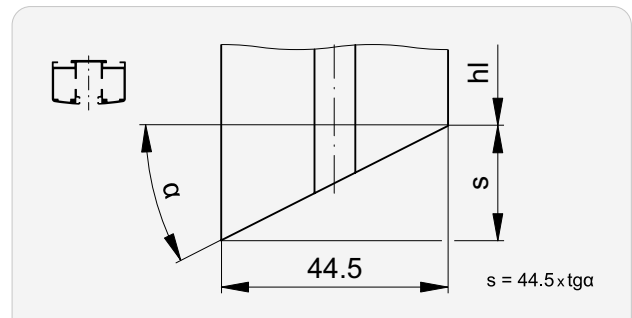
### Angling at the guides

**v**

0...3000

**α**

5...60°

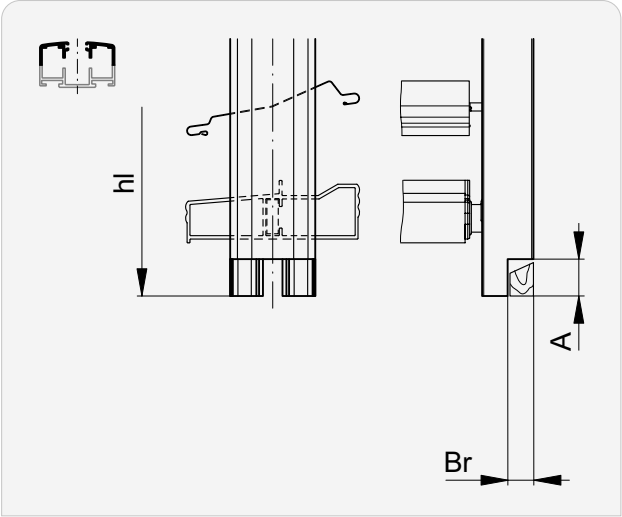


| α  | s  | α  | s  | α  | s  | α  | s  | α  | s  | α  | s  |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 5  | 4  | 15 | 12 | 25 | 21 | 35 | 31 | 45 | 45 | 55 | 64 |
| 6  | 5  | 16 | 13 | 26 | 22 | 36 | 32 | 46 | 46 | 56 | 66 |
| 7  | 5  | 17 | 14 | 27 | 23 | 37 | 34 | 47 | 48 | 57 | 69 |
| 8  | 6  | 18 | 14 | 28 | 24 | 38 | 35 | 48 | 49 | 58 | 71 |
| 9  | 7  | 19 | 15 | 29 | 25 | 39 | 36 | 49 | 51 | 59 | 74 |
| 10 | 8  | 20 | 16 | 30 | 26 | 40 | 37 | 50 | 53 | 60 | 77 |
| 11 | 9  | 21 | 17 | 31 | 27 | 41 | 39 | 51 | 55 |    |    |
| 12 | 9  | 22 | 18 | 32 | 28 | 42 | 40 | 52 | 57 |    |    |
| 13 | 10 | 23 | 19 | 33 | 29 | 43 | 41 | 53 | 59 |    |    |
| 14 | 11 | 24 | 20 | 34 | 30 | 44 | 43 | 54 | 61 |    |    |

Guide rail cut-outs in windowsill area

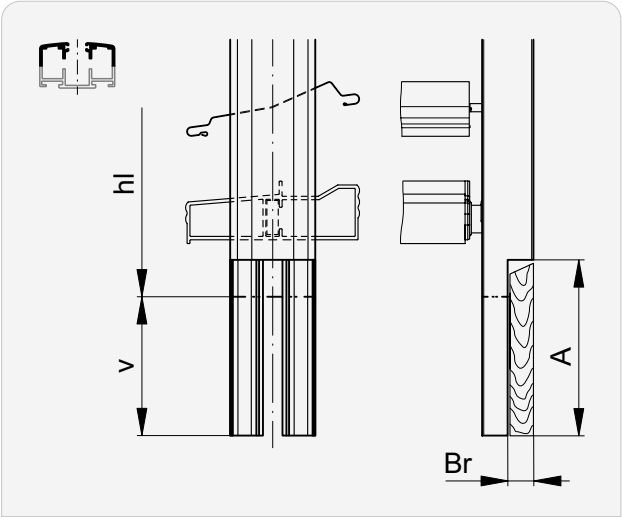
Rear cut-out | without/with extension

Without extension



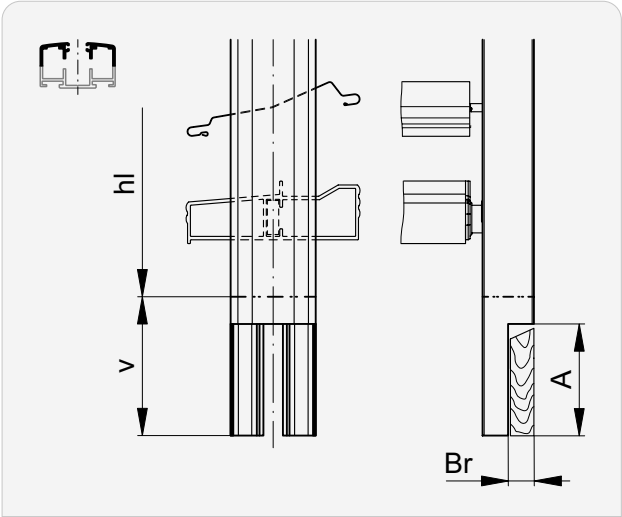
| A               | Br              |
|-----------------|-----------------|
| ≤ d - dimension | 2...4<br>6...15 |

Extension |  $v \leq A$



| A               | Br              |
|-----------------|-----------------|
| ≤ d - dimension | 2...4<br>6...15 |

Extension |  $v > A$



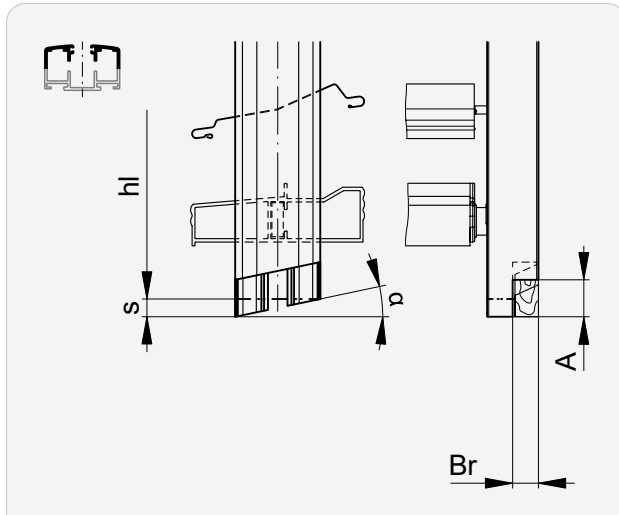
| A               | Br              |
|-----------------|-----------------|
| ≤ d - dimension | 2...4<br>6...15 |

v Guide rail extension: 0 ... 3000

## ►► Guide rail cut-outs in windowsill area

### Rear cut-out | with facet / with extension and facet

#### Facet



**A**

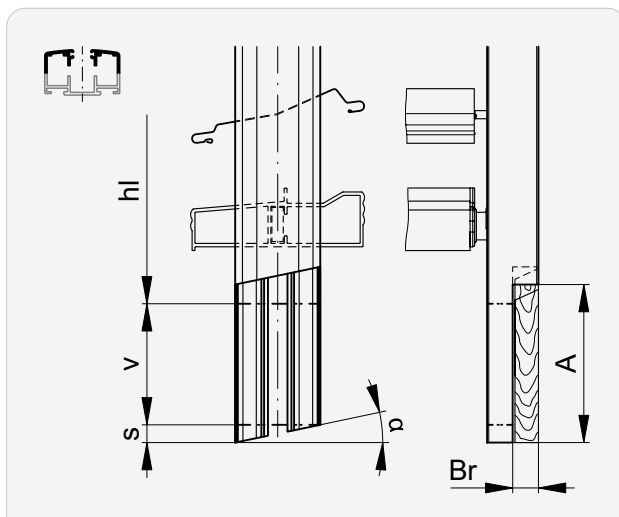
≤ d - dimension (5...35)

**Br**

2...4

6...15

#### Extension and facet | $(v + s) \leq A$



**A**

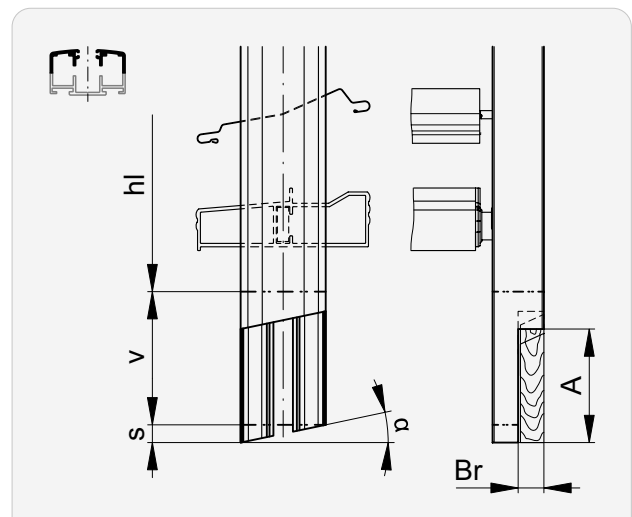
≤ d - dimension (5...35)

**Br**

2...4

6...15

#### Extension and facet | $(v + s) > A$



**A**

≤ d - dimension (5...35)

**Br**

2...4

6...15

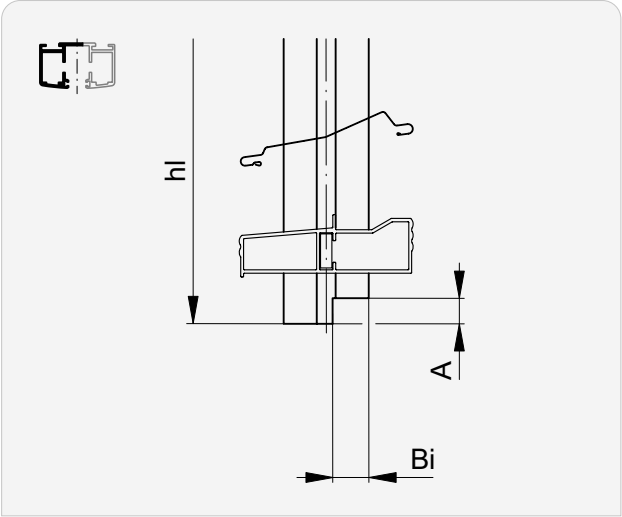
**v** Guide rail extension: 0...3000

➡ **d - dimension** .....45

►► Guide rail cut-outs in windowsill area

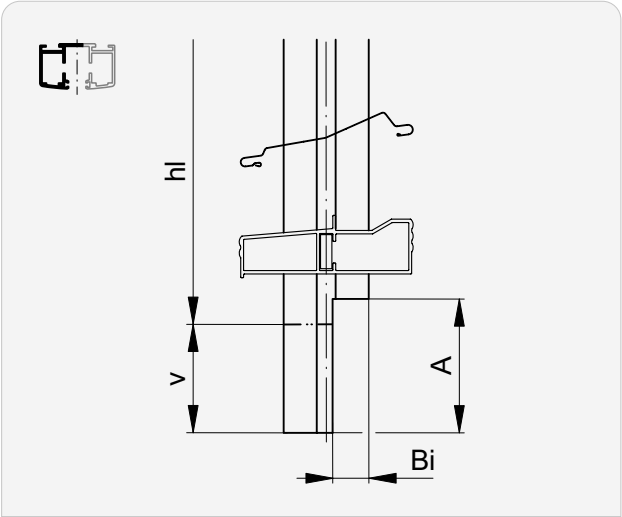
Inner cut-out | without / with extension

Without extension



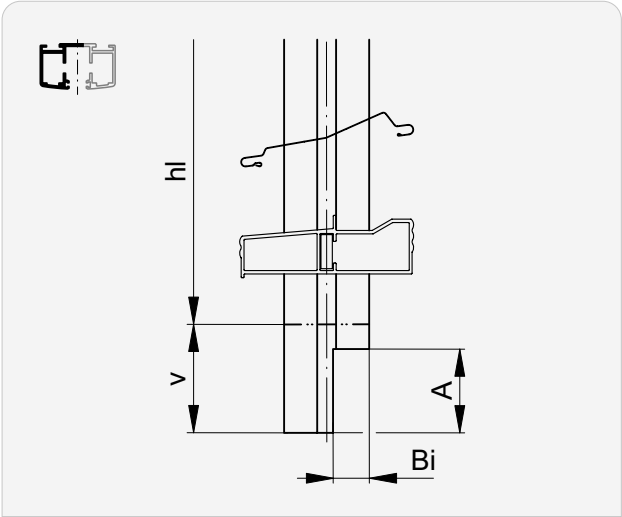
| A               | Bi       |
|-----------------|----------|
| ≤ d - dimension | 0 ... 13 |
|                 | 19       |

Extension |  $v \leq A$



| A               | Bi       |
|-----------------|----------|
| ≤ d - dimension | 0 ... 13 |
|                 | 19       |

Extension |  $v > A$



| A               | Bi       |
|-----------------|----------|
| ≤ d - dimension | 0 ... 13 |
|                 | 19       |

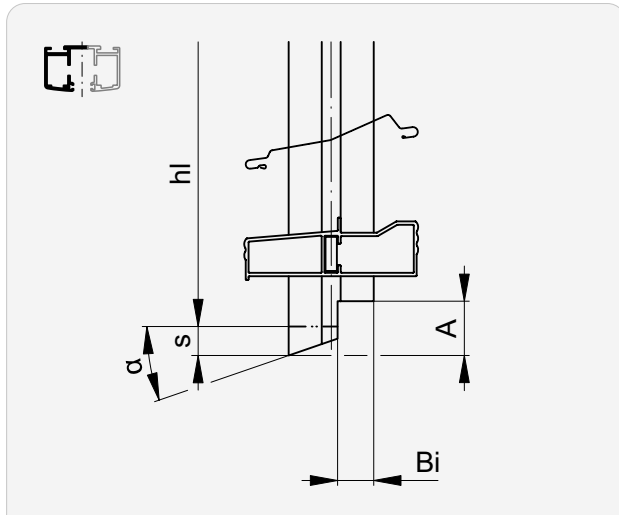
v Guide rail extension: 0 ... 3000

➡ d - dimension ..... 45

## ►► Guide rail cut-outs in windowsill area

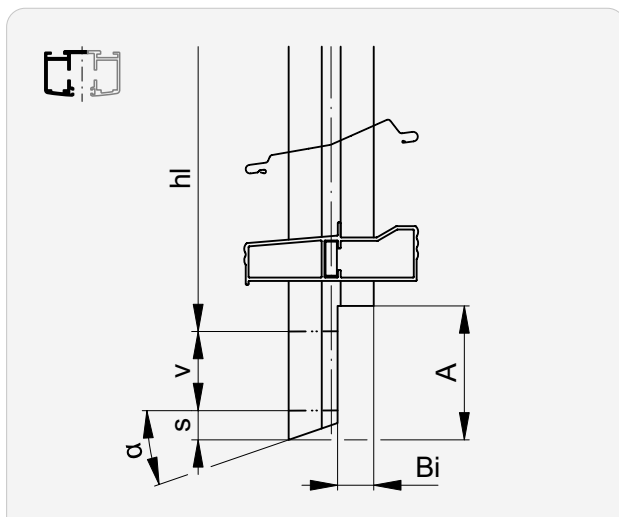
### Inner cut-out | with facet / with extension and facet

#### Facet



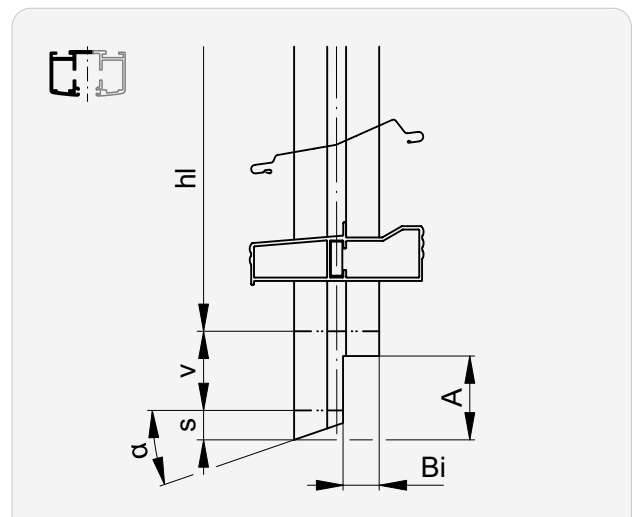
| A               | Bi     |
|-----------------|--------|
| ≤ d - dimension | 0...13 |
|                 | 19     |

#### Extension and facet | $(v + s) \leq A$



| A               | Bi     |
|-----------------|--------|
| ≤ d - dimension | 0...13 |
|                 | 19     |

#### Extension and facet | $(v + s) > A$



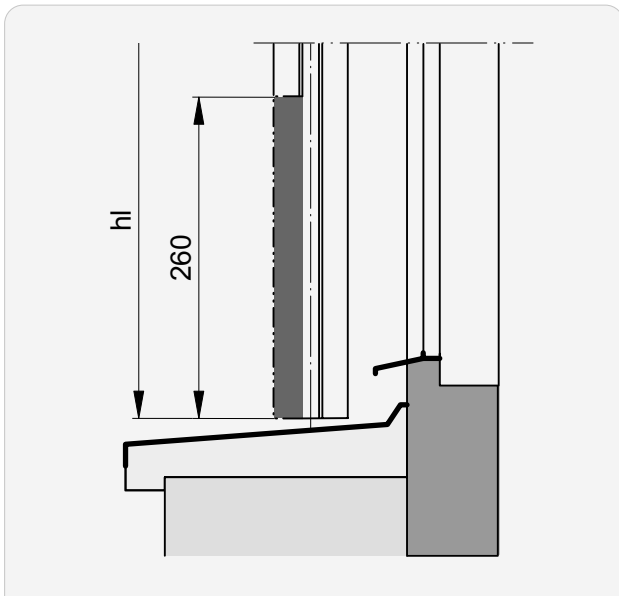
| A               | Bi     |
|-----------------|--------|
| ≤ d - dimension | 0...13 |
|                 | 19     |

v Guide rail extension: 0...3000

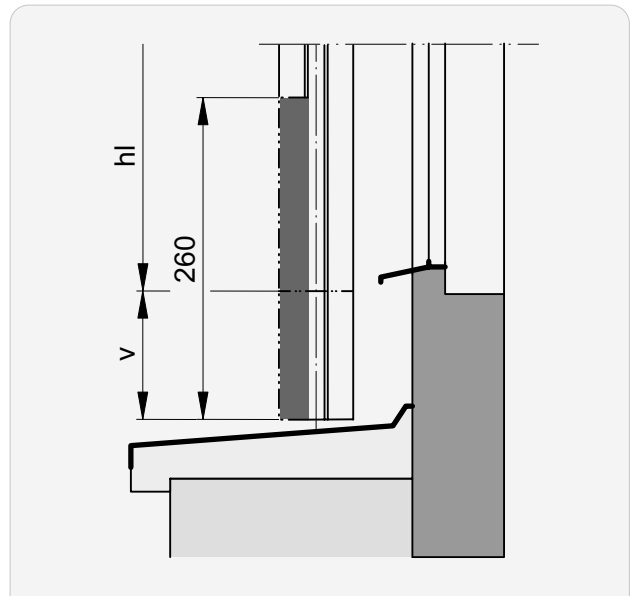
➡ d - dimension .....45

## Installation window

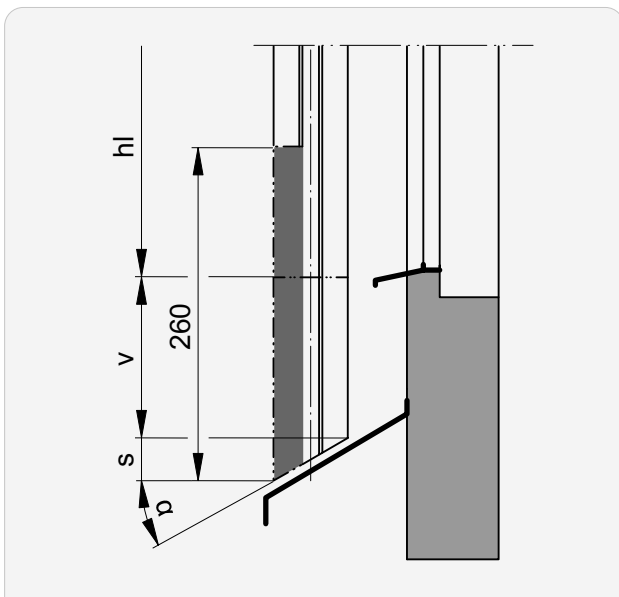
### Without extension



### With extension



### With extension and facet



#### for $(v + s) \leq 80$

always for  
bottommost

#### for $(v + s) > 80$

two-part guide rails instead of installation window ( $hl > 1135$ )  
always with continuous beading.

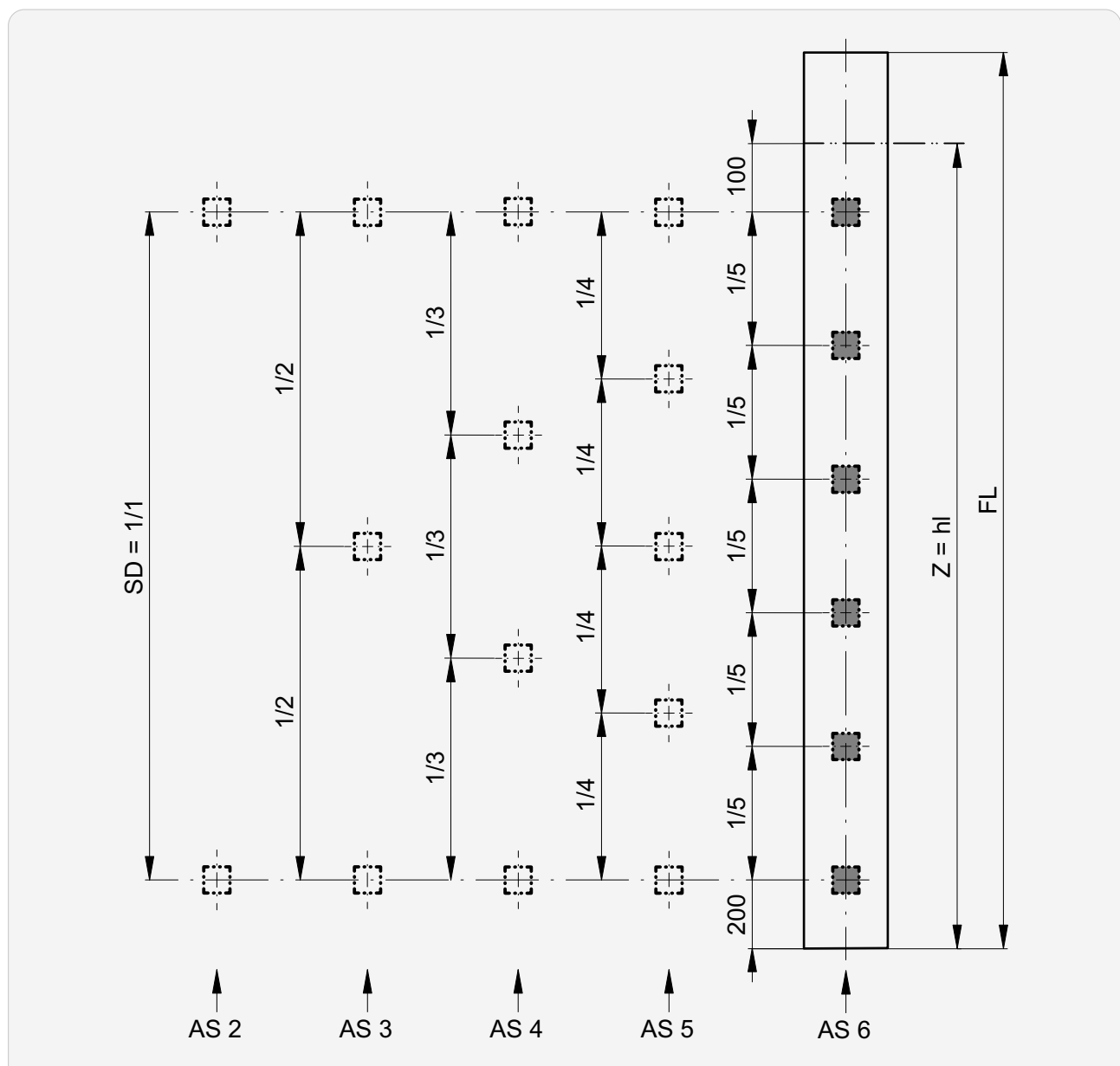
**s** Faceting (guide rail width  $\times \tan \alpha$ )

**v** Guide rail extension: max. 1000

## Fastening points

### Without extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**SD** Slot spacing: max. 1200

**i** Bottommost fastening point is also the fastening point for installation window.

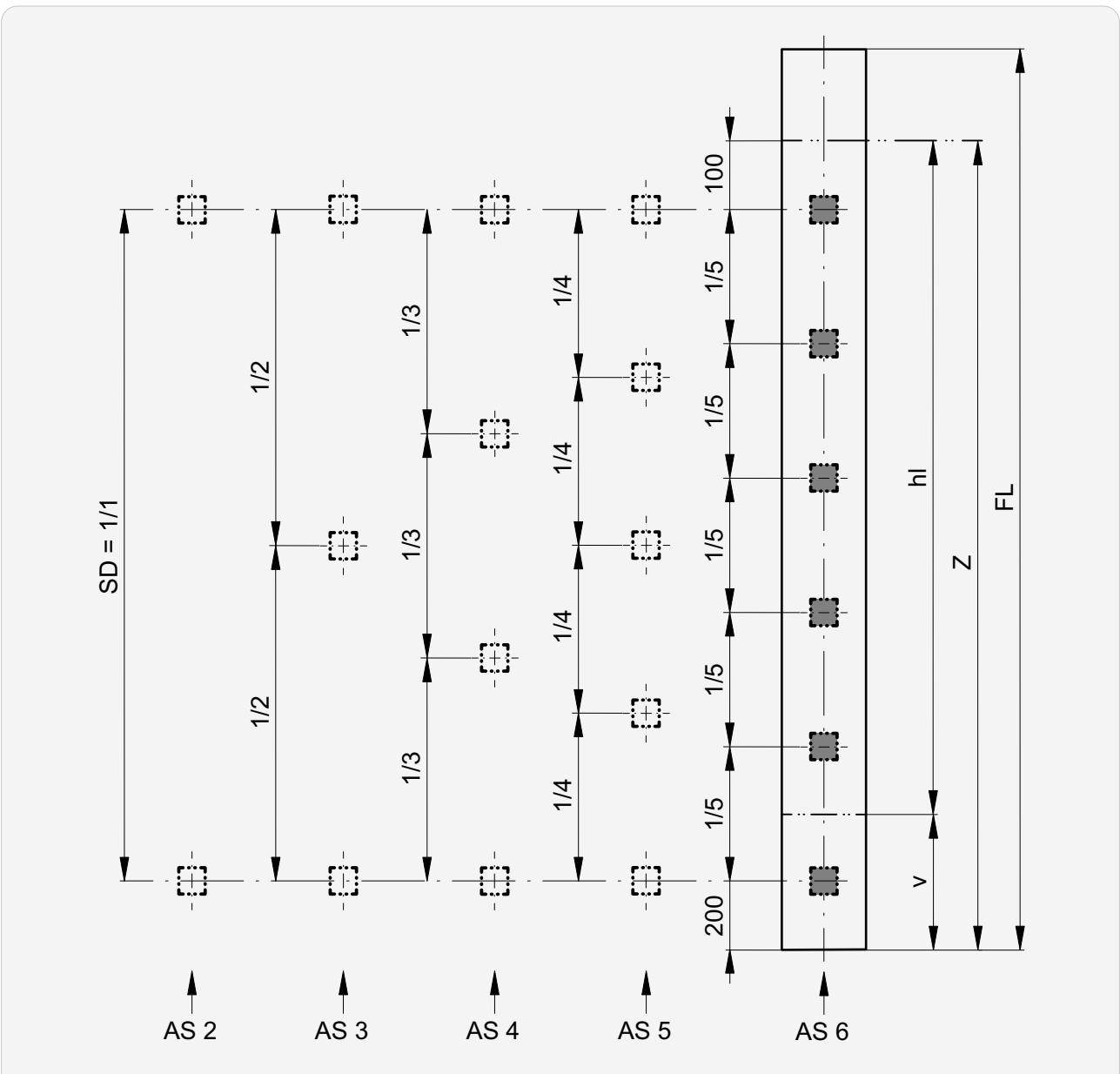
➡ Guide rail fastenings.....54

➡ Installation window .....64

►► Fastening points

With guide rail extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**v** Guide rail extension: max. 1000

**SD** Slot spacing: max. 1200

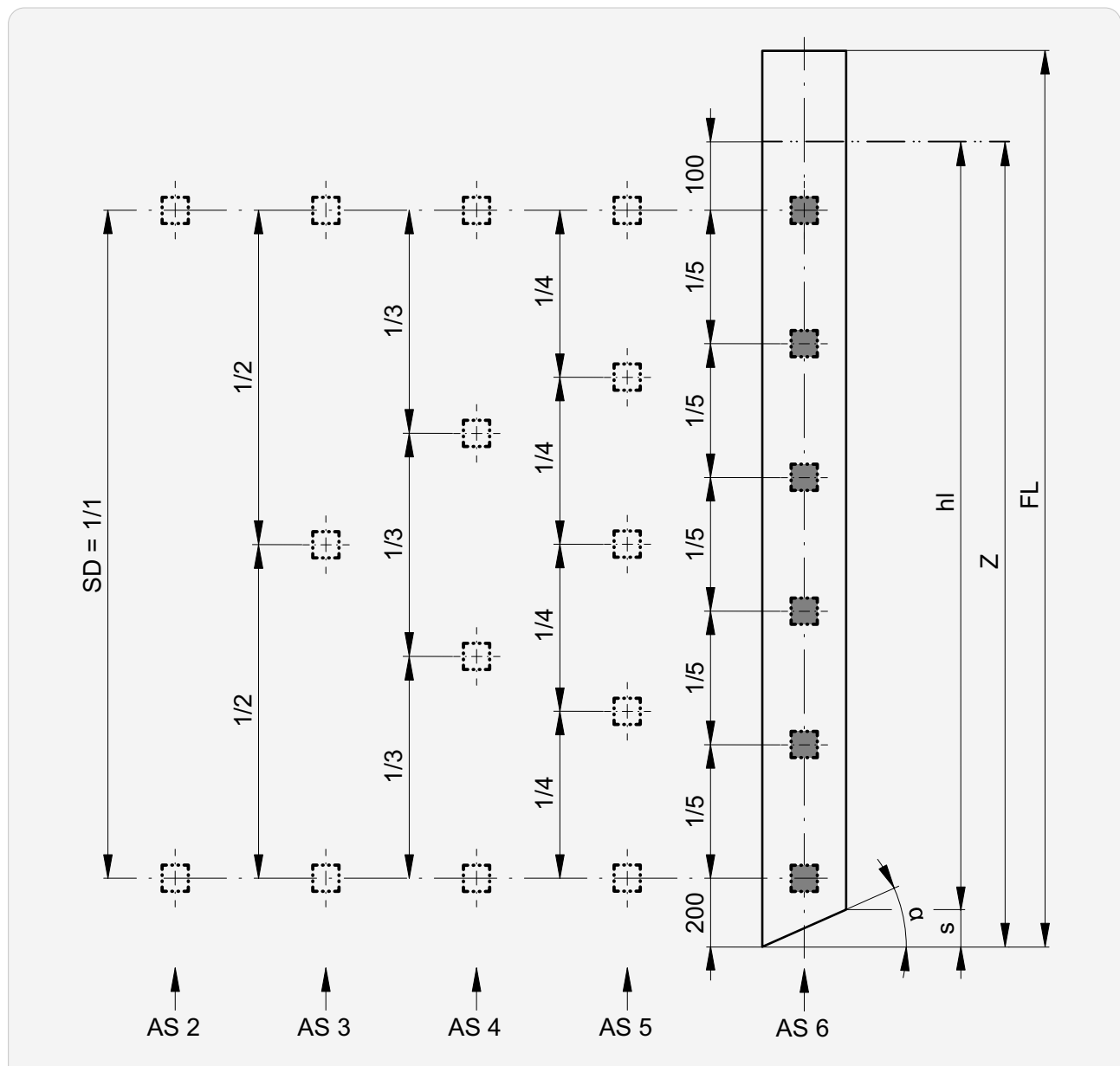
|                                   |    |
|-----------------------------------|----|
| ► Guide extension and facet ..... | 59 |
| ► Guide rail fastenings.....      | 54 |

|                             |    |
|-----------------------------|----|
| ► Installation window ..... | 64 |
|-----------------------------|----|

## ►► Fastening points

### With facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**SD** Slot spacing: max. 1200

**s** Faceting (guide rail width x  $\tan \alpha$ )

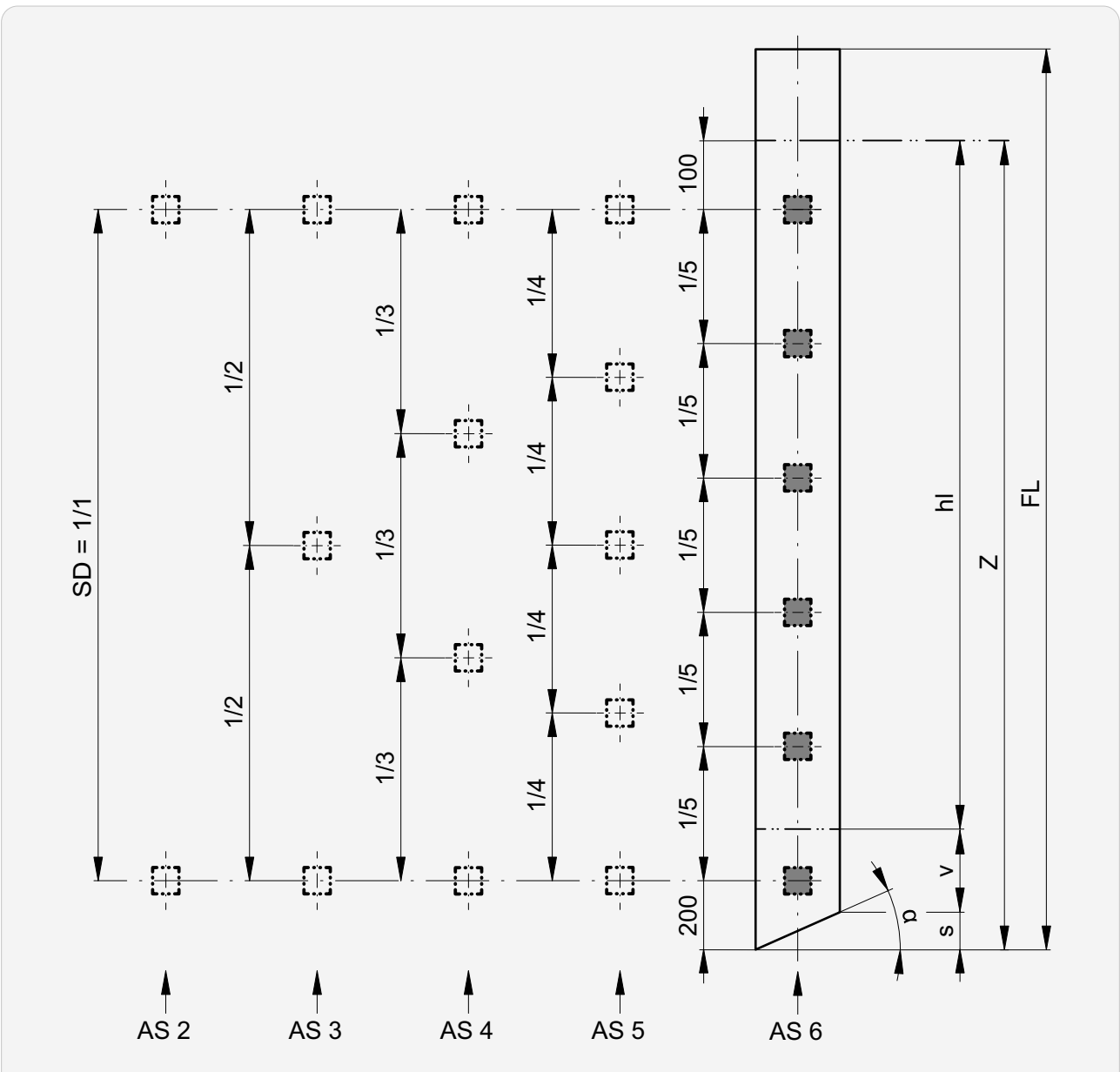
➡ Guide extension and facet ..... 59  
 ➡ Guide rail fastenings ..... 54

➡ Installation window ..... 64

►► Fastening points

With guide rail extension and facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**s** Faceting (guide rail width x tgα)

**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

|                                   |    |
|-----------------------------------|----|
| ► Guide extension and facet ..... | 59 |
| ► Guide rail fastenings.....      | 54 |

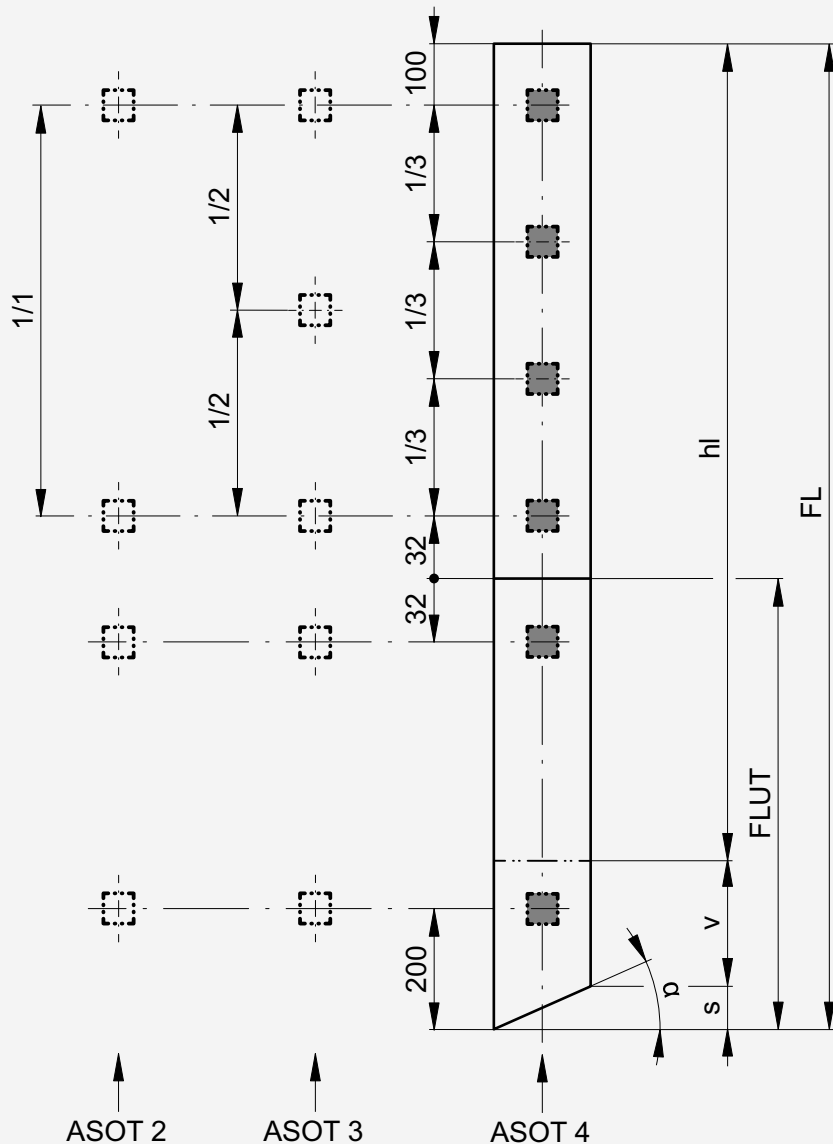
|                             |    |
|-----------------------------|----|
| ► Installation window ..... | 64 |
|-----------------------------|----|

## ►► Fastening points

### For two-part guide rails

| FLUT | for $(s+v) \leq 80$<br>hl* | for $(s+v) > 80$<br>s+v | ASOT | hl*         |
|------|----------------------------|-------------------------|------|-------------|
| 500  | $\leq 1635$                | 81...250                | 2    | $\leq 2582$ |
| 1000 | 1636...1885                | 251...750               | 3    | 2583...3782 |
| 1250 | $\geq 1886$                | $\geq 751$              | 4    | $\geq 3783$ |

\* hl > 1135: always with continuous beading.



**ASOT** Number of slits in top part

**FLUT** Length of bottom part

**s** Faceting (guide rail width x  $\tan \alpha$ )

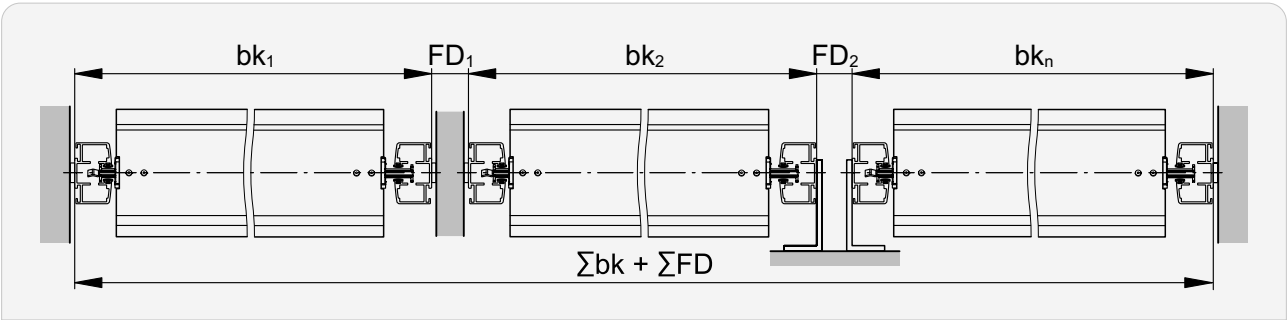
**v** Guide rail extension: max. 1000

|                                   |    |
|-----------------------------------|----|
| ► Guide extension and facet ..... | 59 |
| ► Guide rail fastenings .....     | 54 |

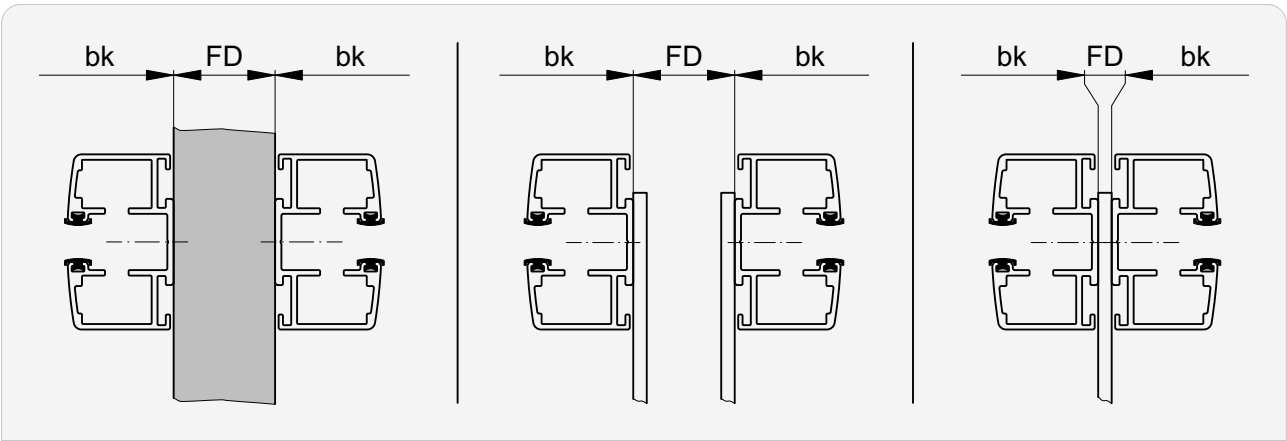
|                             |    |
|-----------------------------|----|
| ► Installation window ..... | 64 |
|-----------------------------|----|

Connected systems

System width



Distance between guides FD

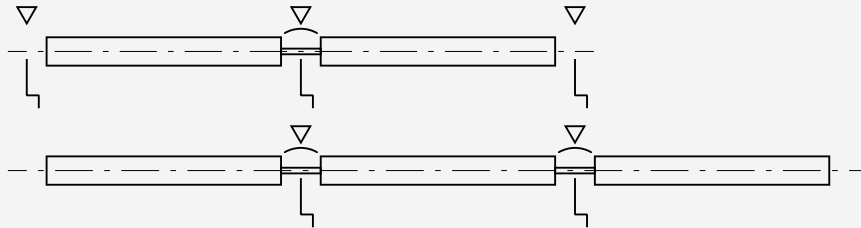


| FD min. | FD max. |
|---------|---------|
| 5       | 1000    |

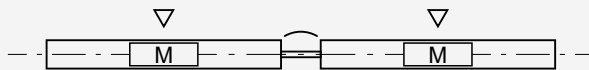
## ►► Connected systems

### Drive position connected blinds

#### Gearbox

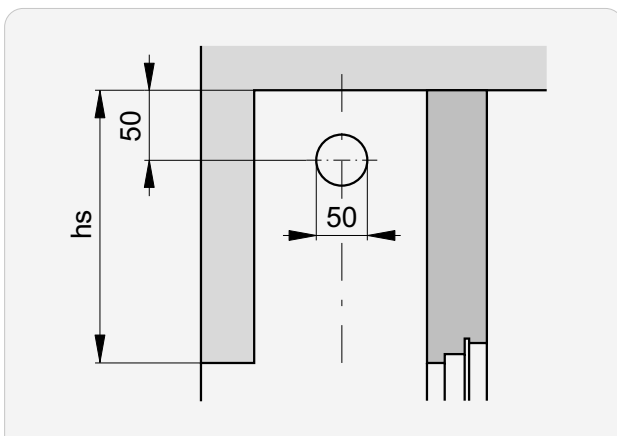


#### Motor



▼ Standard drive position

▽ Possible drive position



## Technical data of motors

### Performance characteristics

| Type          | Limit switch |           | M    | n        | P   | I    |
|---------------|--------------|-----------|------|----------|-----|------|
|               | Type         | Number of | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |              |           |      |          |     |      |
| Elero Comfort |              |           |      |          |     |      |
| ECM...        | 06.01        | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01        |           | 9    |          | 156 | 0.68 |
|               | 06.51        | 3         | 6    |          | 115 | 0.50 |
|               | 09.51        |           | 9    |          | 156 | 0.68 |
| ECB...        | 06.01        | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01        |           | 9    |          | 156 | 0.68 |
|               | 06.51        | 3         | 6    |          | 115 | 0.50 |
|               | 09.51        |           | 9    |          | 156 | 0.68 |

**I** Current consumption

**M** Torque

**n** Rotational speed

**P** Power consumption





# Lamisol® III

|                                                |     |
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## Limit dimensions

### Single blind

| Operation   | Width min.<br>(bk)      | Width <sup>1</sup> max.<br>(bk) | Height min.<br>(hl) | Height max.<br>(hl)    | Surface <sup>2</sup> max.<br>[m <sup>2</sup> ] |
|-------------|-------------------------|---------------------------------|---------------------|------------------------|------------------------------------------------|
| Crank drive | 510* 530 <sup>6,*</sup> | 4500                            | 400                 | 4300 4000 <sup>5</sup> | 10                                             |
| Motor drive | 590 630 <sup>5</sup>    |                                 |                     |                        |                                                |

### Connected systems

| Operation                | Width <sup>1</sup> max.<br>(bk) |        | Blinds max. | Blinds per<br>system | Surface <sup>2</sup> max.<br>[m <sup>2</sup> ] |
|--------------------------|---------------------------------|--------|-------------|----------------------|------------------------------------------------|
| Crank drive <sup>3</sup> | 510* 570 <sup>6,*</sup>         |        |             | 2...4                | 10                                             |
| Motor drive <sup>4</sup> | 590 670 <sup>5</sup>            | 10 000 | 4           | 2                    | 16                                             |
|                          |                                 |        |             | 3...4                | 24                                             |

<sup>1</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

<sup>2</sup> If crank drive is in slat area: maximum surface area and crank position available on request.

<sup>3</sup> A max. of 2 blinds may be connected on each side of the gearbox.

<sup>4</sup> For 3 or 4 blinds, the motor should be positioned in the center.

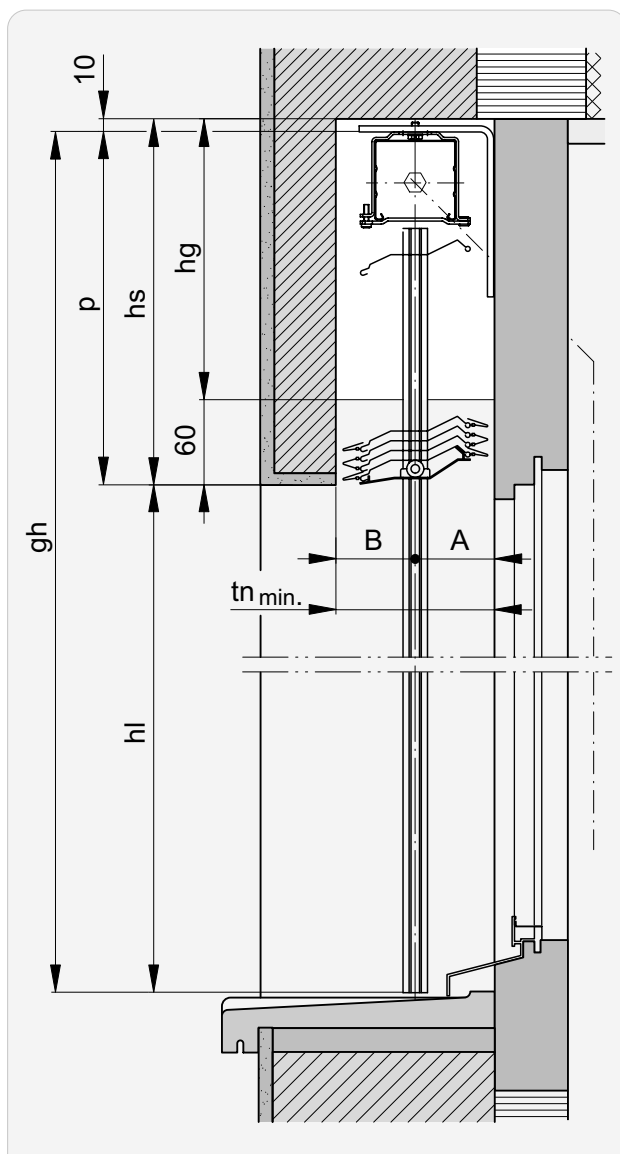
<sup>5</sup> Radio motor Geiger AIR

<sup>6</sup> Lamisol® III Fix

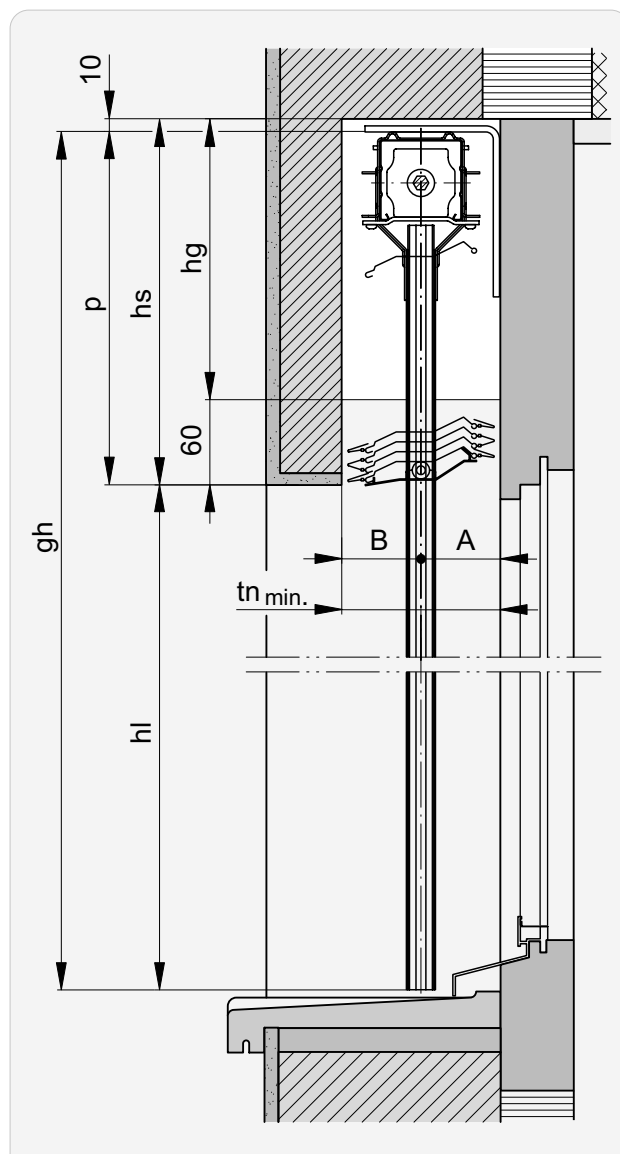
\* with MBMA— on request

## Built-in system

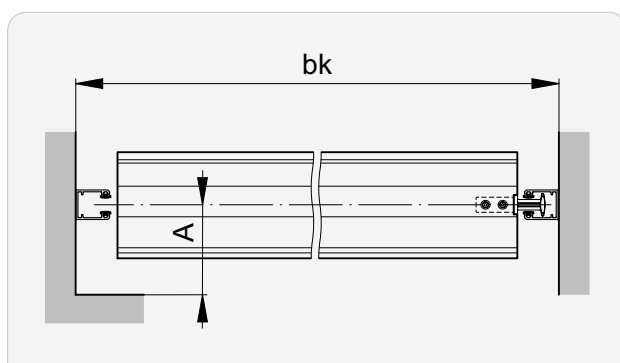
Vertical section: Guide rail conventional



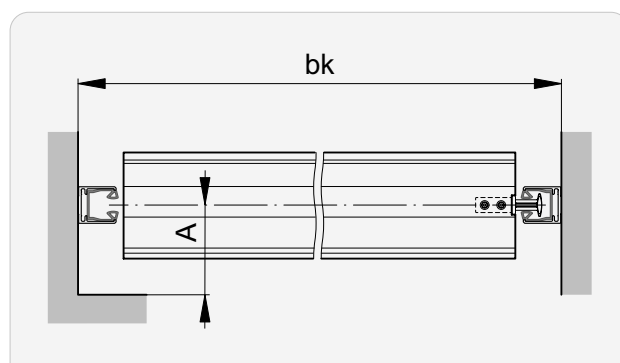
Vertical section: Guide rail Fix-L



Horizontal section: Guide rail conventional

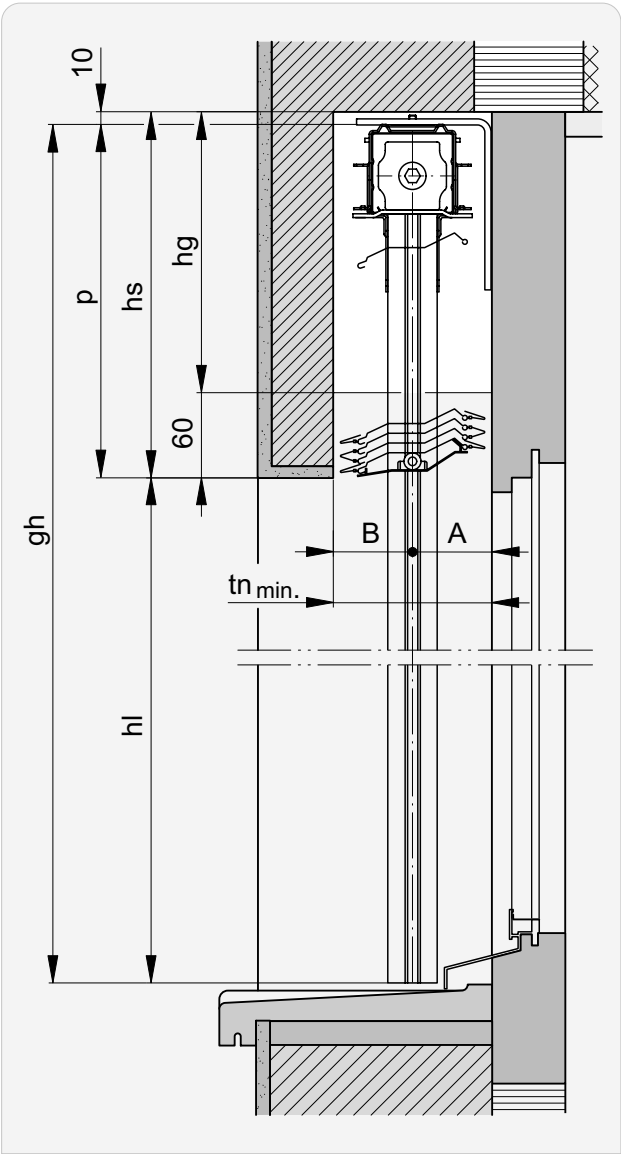


Horizontal section: Guide rail Fix-L



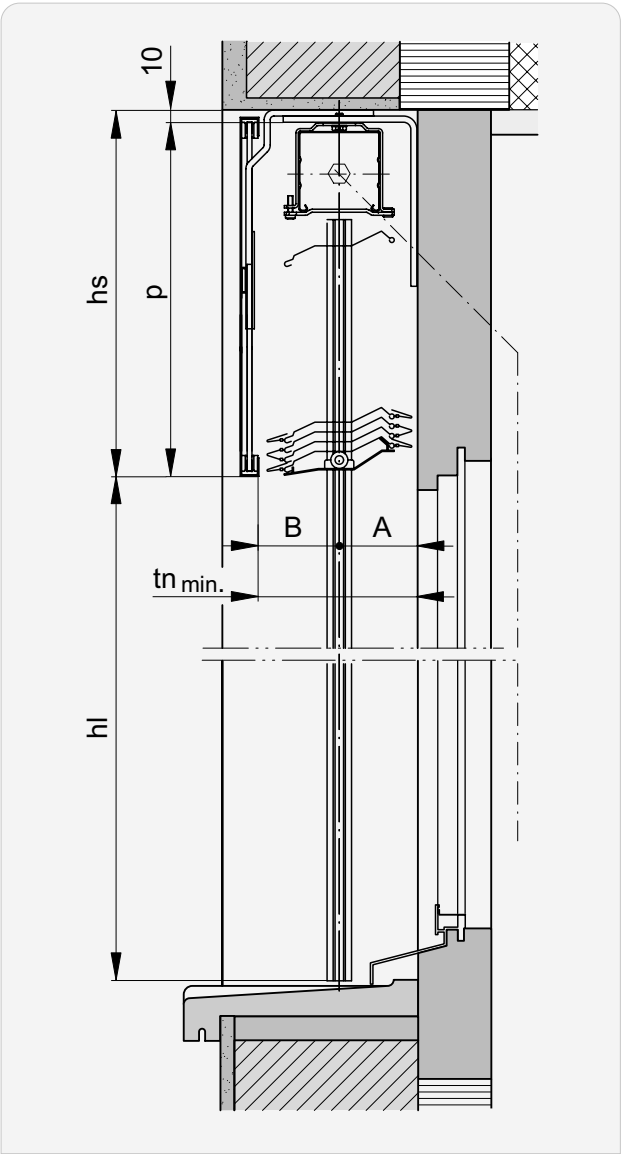
►► Built-in system

Vertical section: Guide rail Fix

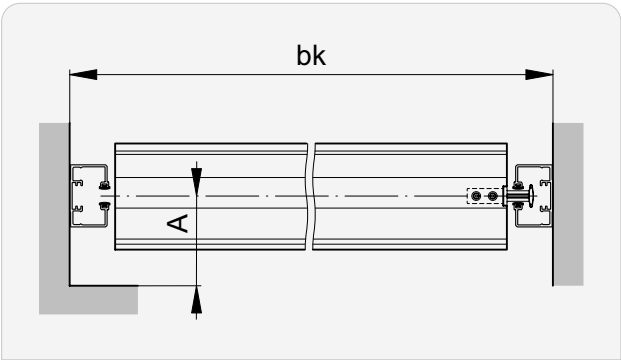


Built-in system with cover

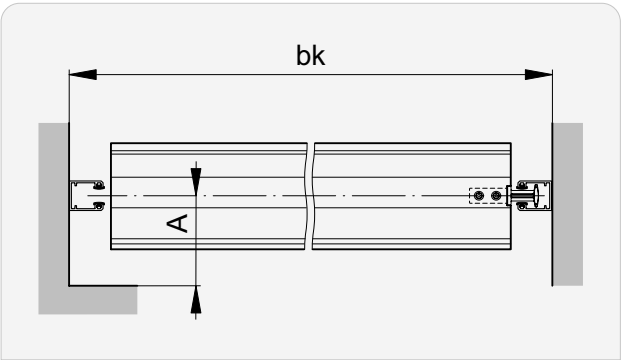
Vertical section: Guide rail conventional



Horizontal section: Guide rail Fix

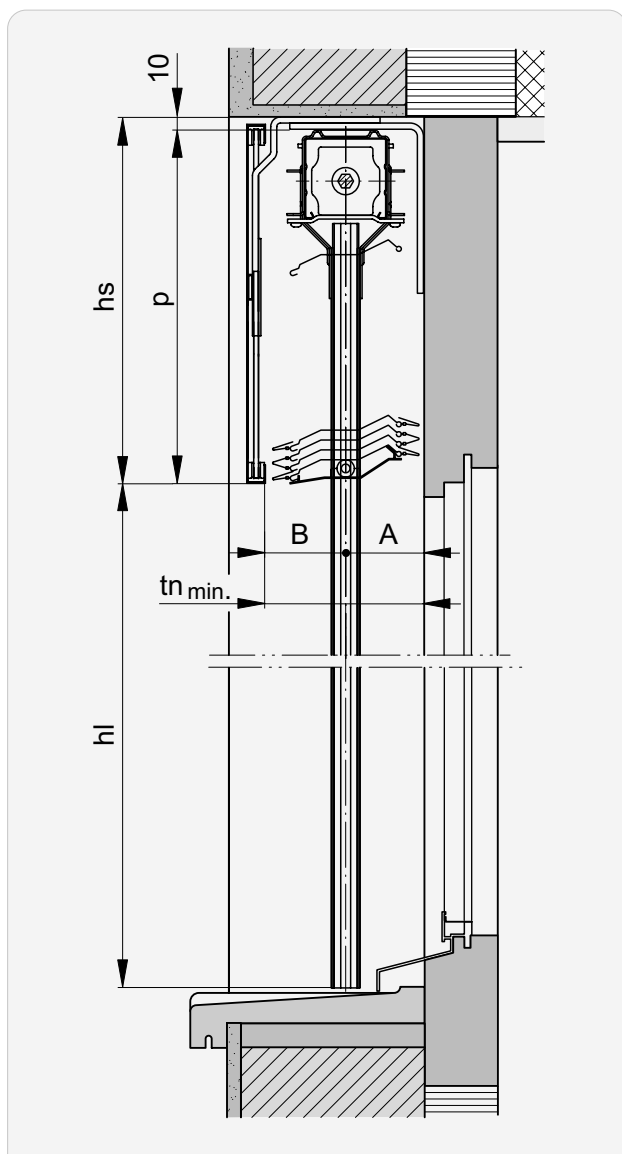


Horizontal section: Guide rail conventional

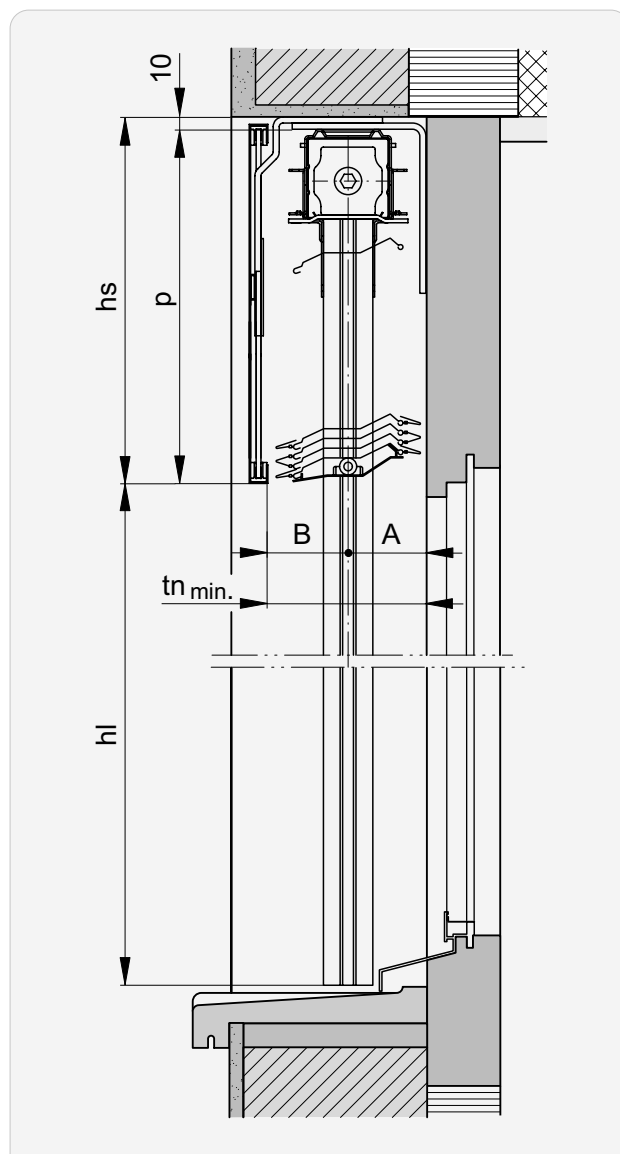


## ► Built-in system with cover

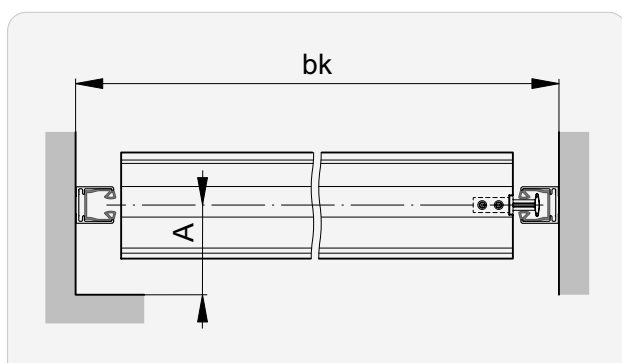
### Vertical section: Guide rail Fix-L



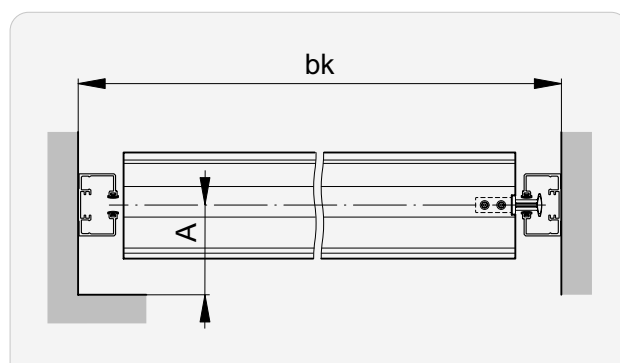
### Vertical section: Guide rail Fix



### Horizontal section: Guide rail Fix-L



### Horizontal section: Guide rail Fix



## Header dimensions | Heights of package

Lamisol® III 70

| hl → l | P min. | hs <sup>1</sup> | hl → l | P min. | hs <sup>1</sup> |
|--------|--------|-----------------|--------|--------|-----------------|
| 1300   | 195    | 205             | 2850   | 295    | 305             |
| 1350   | 195    | 205             | 2900   | 300    | 310             |
| 1400   | 200    | 210             | 2950   | 305    | 315             |
| 1450   | 205    | 215             | 3000   | 305    | 315             |
| 1500   | 210    | 220             | 3050   | 310    | 320             |
| 1550   | 210    | 220             | 3100   | 315    | 325             |
| 1600   | 210    | 220             | 3150   | 320    | 330             |
| 1650   | 215    | 225             | 3200   | 320    | 330             |
| 1700   | 220    | 230             | 3250   | 325    | 335             |
| 1750   | 225    | 235             | 3300   | 325    | 335             |
| 1800   | 225    | 235             | 3350   | 330    | 340             |
| 1850   | 230    | 240             | 3400   | 335    | 345             |
| 1900   | 235    | 245             | 3450   | 335    | 345             |
| 1950   | 235    | 245             | 3500   | 340    | 350             |
| 2000   | 240    | 250             | 3550   | 345    | 355             |
| 2050   | 240    | 250             | 3600   | 350    | 360             |
| 2100   | 245    | 255             | 3650   | 350    | 360             |
| 2150   | 250    | 260             | 3700   | 355    | 365             |
| 2200   | 255    | 265             | 3750   | 355    | 365             |
| 2250   | 255    | 265             | 3800   | 360    | 370             |
| 2300   | 260    | 270             | 3850   | 365    | 375             |
| 2350   | 265    | 275             | 3900   | 370    | 380             |
| 2400   | 265    | 275             | 3950   | 370    | 380             |
| 2450   | 270    | 280             | 4000   | 375    | 385             |
| 2500   | 275    | 285             | 4050   | 380    | 390             |
| 2550   | 275    | 285             | 4100   | 385    | 395             |
| 2600   | 280    | 290             | 4150   | 385    | 395             |
| 2650   | 285    | 295             | 4200   | 385    | 395             |
| 2700   | 290    | 300             | 4250   | 390    | 400             |
| 2750   | 290    | 300             | 4300   | 395    | 405             |
| 2800   | 295    | 305             |        |        |                 |

Lamisol® III 90

| hl → l | P min. | hs <sup>1</sup> | hl → l | P min. | hs <sup>1</sup> |
|--------|--------|-----------------|--------|--------|-----------------|
| 1800   | 215    | 225             | 3100   | 285    | 295             |
| 1850   | 220    | 230             | 3150   | 285    | 295             |
| 1900   | 220    | 230             | 3200   | 290    | 300             |
| 1950   | 220    | 230             | 3250   | 295    | 305             |
| 2000   | 225    | 235             | 3300   | 295    | 305             |
| 2050   | 225    | 235             | 3350   | 300    | 310             |
| 2100   | 230    | 240             | 3400   | 305    | 315             |
| 2150   | 235    | 245             | 3450   | 305    | 315             |
| 2200   | 235    | 245             | 3500   | 310    | 320             |
| 2250   | 240    | 250             | 3550   | 315    | 325             |
| 2300   | 240    | 250             | 3600   | 315    | 325             |
| 2350   | 245    | 255             | 3650   | 315    | 325             |
| 2400   | 250    | 260             | 3700   | 320    | 330             |
| 2450   | 250    | 260             | 3750   | 320    | 330             |
| 2500   | 250    | 260             | 3800   | 325    | 335             |
| 2550   | 255    | 265             | 3850   | 330    | 340             |
| 2600   | 255    | 265             | 3900   | 330    | 340             |
| 2650   | 260    | 270             | 3950   | 335    | 345             |
| 2700   | 265    | 275             | 4000   | 340    | 350             |
| 2750   | 265    | 275             | 4050   | 340    | 350             |
| 2800   | 270    | 280             | 4100   | 345    | 355             |
| 2850   | 275    | 285             | 4150   | 345    | 355             |
| 2900   | 275    | 285             | 4200   | 345    | 355             |
| 2950   | 280    | 290             | 4250   | 350    | 360             |
| 3000   | 280    | 290             | 4300   | 355    | 365             |
| 3050   | 280    | 290             |        |        |                 |

| tn min. | A  | B  |
|---------|----|----|
| 100*    | 50 | 50 |

| tn min. | A  | B  |
|---------|----|----|
| 130*    | 65 | 65 |

<sup>1</sup> With gearbox in slot area: **hs + 20**.

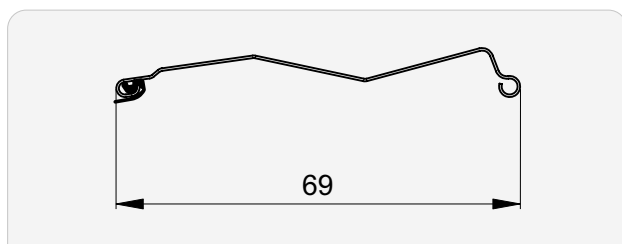
Lamisol® III Reflect: **hs + 5**.

\* + possible addition for protruding weatherboard or doorknobs.

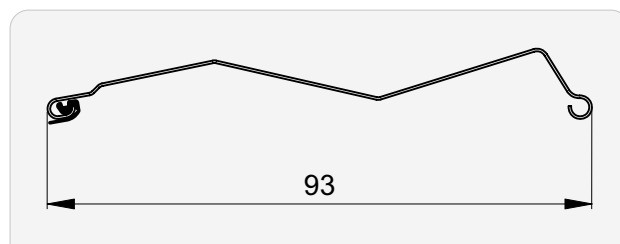
**i** Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

## Slat profiles

Lamisol® III 70

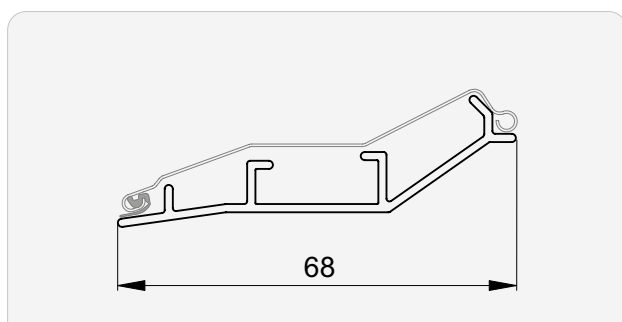


Lamisol® III 90

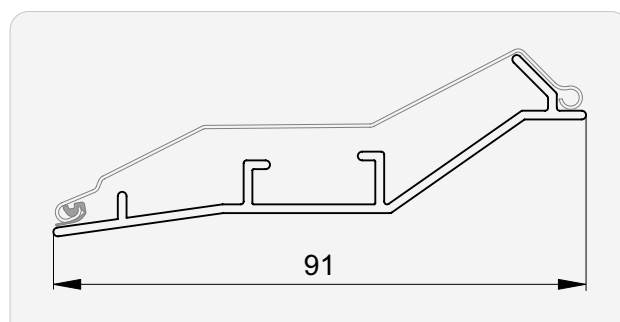


## End rails

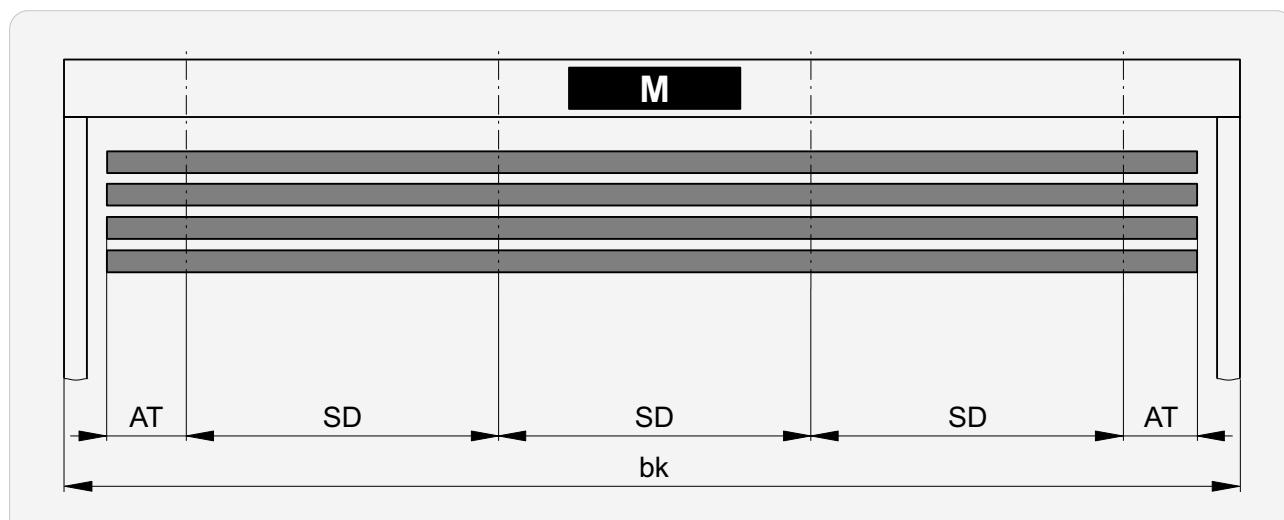
Lamisol® III 70



Lamisol® III 90



## Beginning distance | Slot spacing



| bk          | AT min.       |    | SD min. | SD max. |
|-------------|---------------|----|---------|---------|
| ≤610        | Conventional  | 50 | 350*    | 1000*   |
|             | Fix           | 60 |         |         |
|             | Fix connected | 80 |         |         |
| 611... 1250 | 100           |    |         |         |
| >1250       | 200           |    |         |         |
| Special     | 250           |    |         |         |

\* Standard slot spacing machine fabrication

Deviations from the standard are possible when:

| Deviation                | Correction |
|--------------------------|------------|
| MBMA+ < 40               | AT         |
| Support loading too high | AS         |
| Slot spacing < 350       | AT + AS    |
| With motor               | AT + AS    |

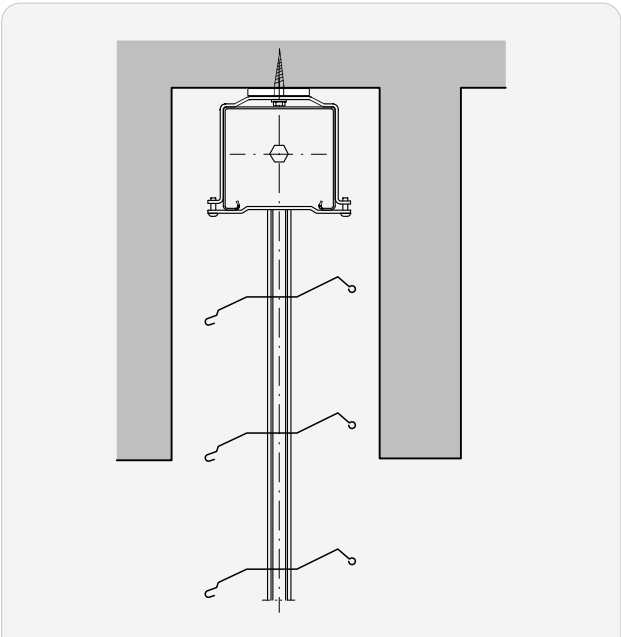
**AT** Beginning distance  
Distance from beginning of slot to centre of bearing

**SD** Slot spacing  
Distance from centre of bearing (slot) to centre of bearing (slot)

Housing fastening

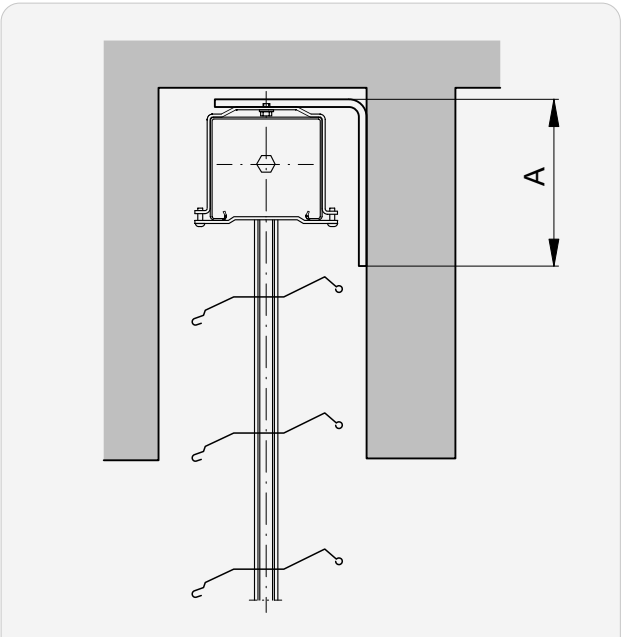
At top

NO

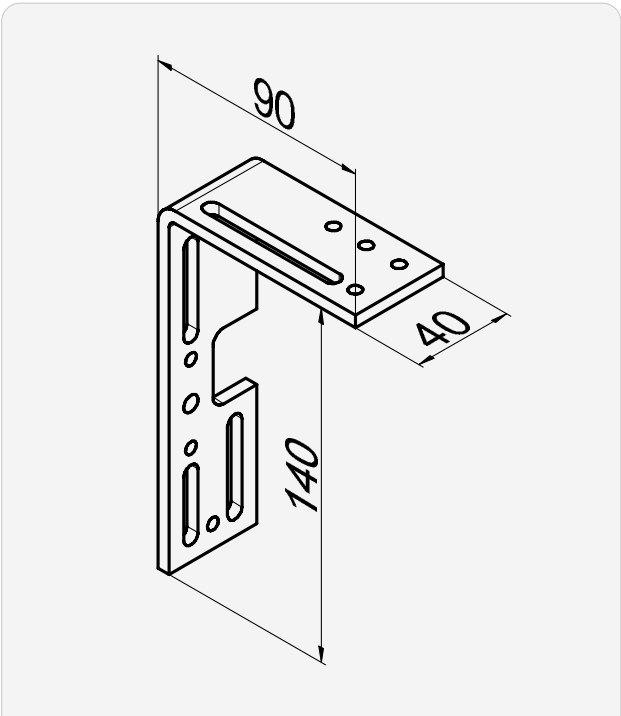


Box support

KT



Box support for type KT, for small headers\*

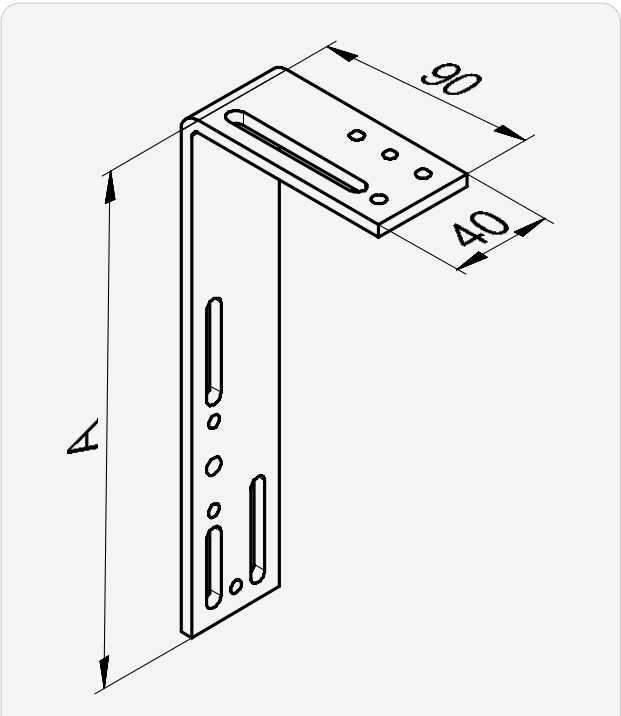


A

140

\* Header 100

Box support for type KT



A

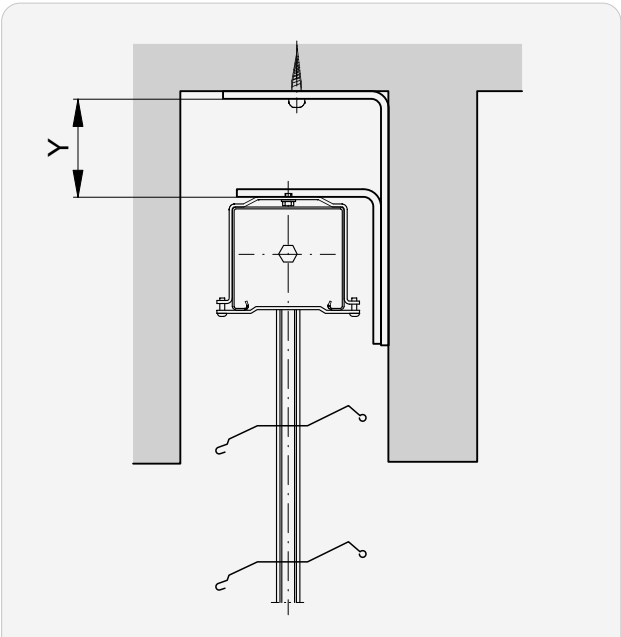
200

260

►► Housing fastening

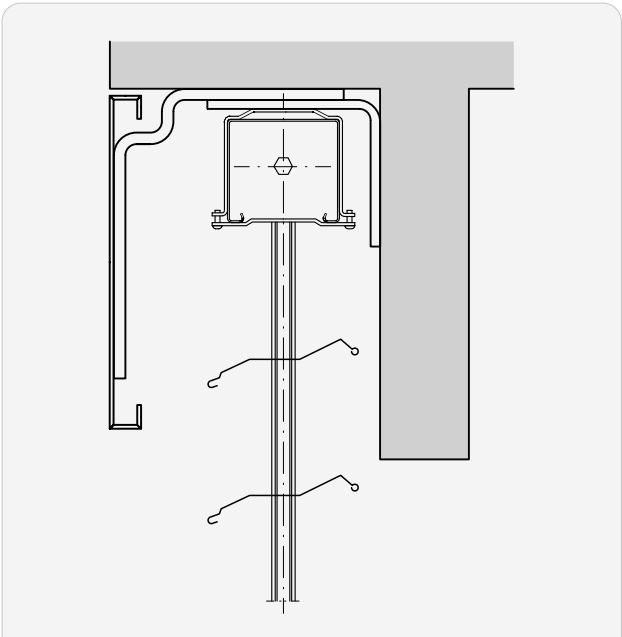
Double box support

DR

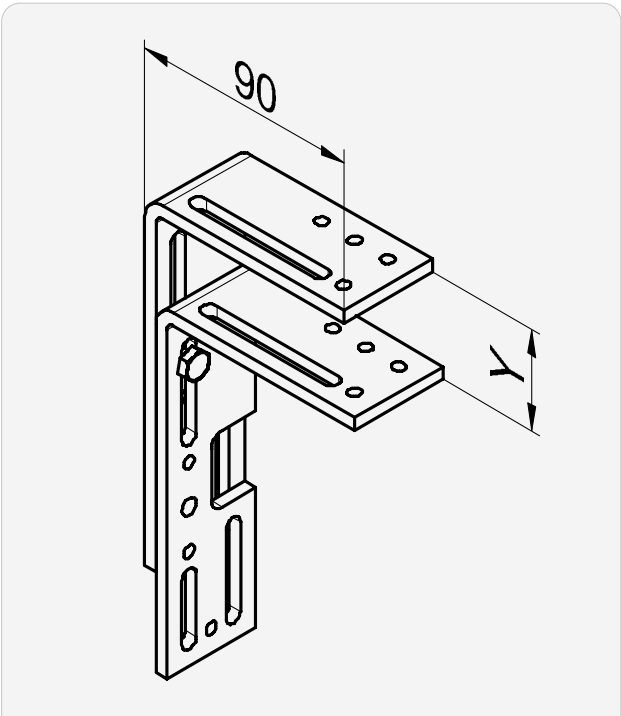


Gallery clip

GB



Double box support for type DR



Y

10 ... 75

75 ... 135

135 ... 200

Gallery clip for type GB



See additional documentation:  
**Short manual "Covers"**



[Covers](#)



## Number of box supports

### Conventional guides

| bk          | Quantity |
|-------------|----------|
| ≤2000       | 2        |
| 2001...3000 | 3        |
| 3001...4000 | 4        |
| >4000       | 5        |

### Fix guides | Additional fastenings

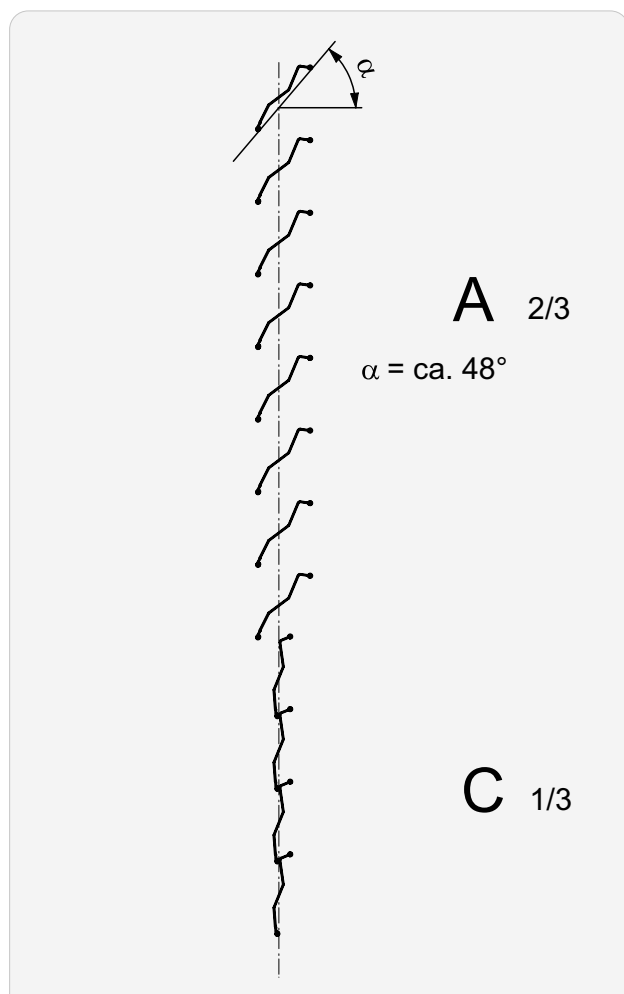
| bk          | Quantity |
|-------------|----------|
| ≤2500       | 0        |
| 2501...3500 | 1        |
| >3500       | 2        |

## Options

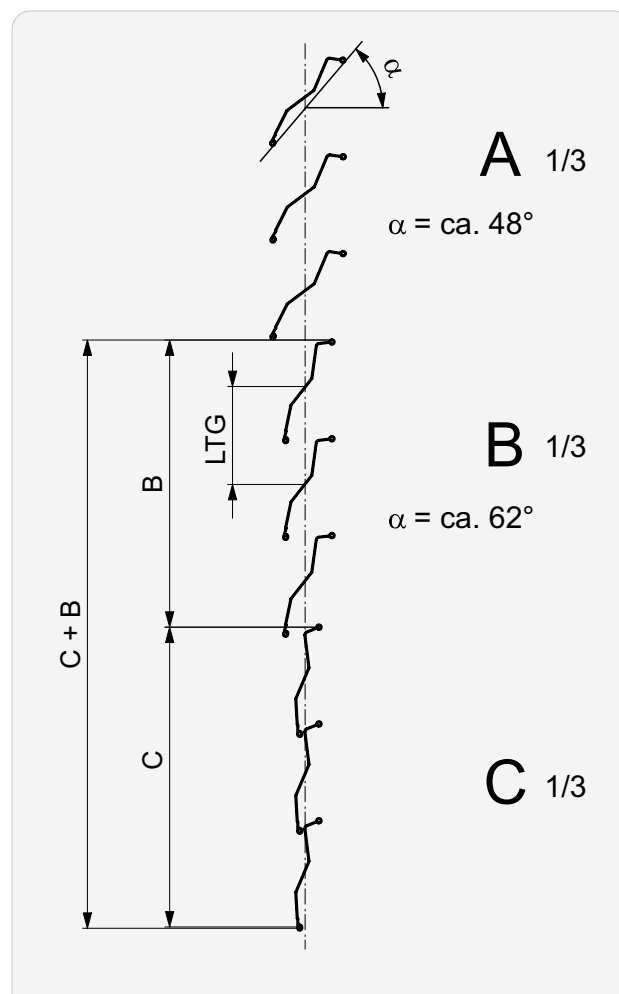
### Lamisol® III Reflect

**i** For glare protection at bottom and use of daylight at top.

#### Lamisol® III 70



#### Lamisol® III 90

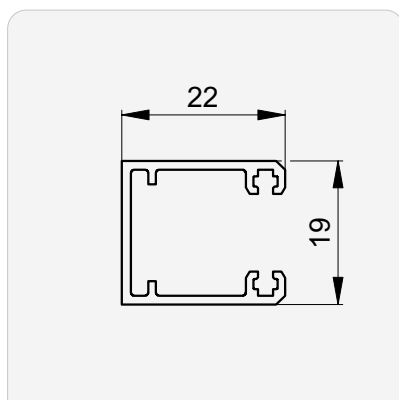


**i** For technical reasons, the Reflect zone (**C+B**) must be two slat spacing units larger than the Reflect zone **C**.

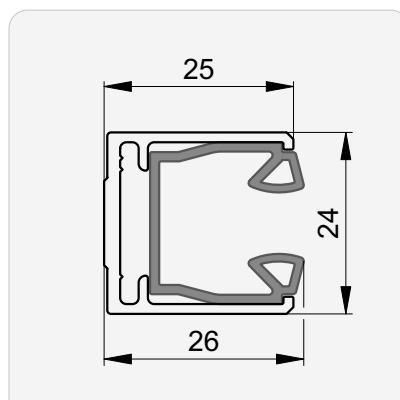
- A** Use of daylight
- B** Ability to see outside
- C** Glare protection
- LTG** Slat spacing

## Guide rails

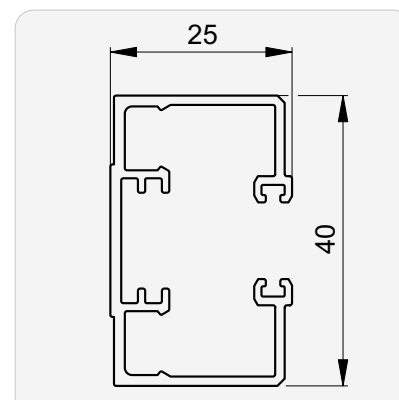
**Type E | Single guide**



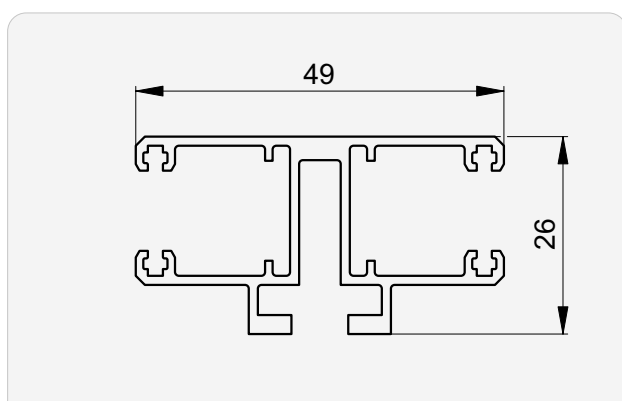
**Type L | Fix guide**



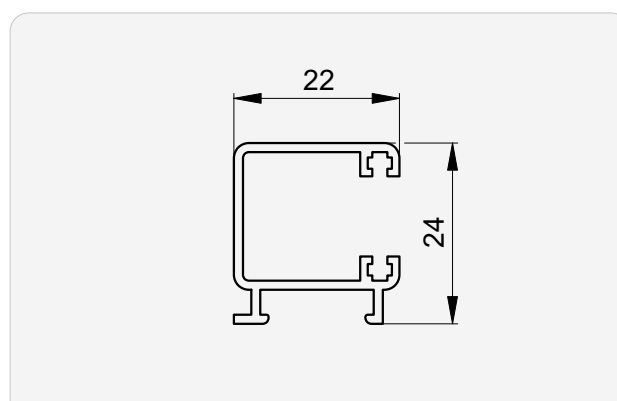
**Type F | Fix guide**



**Type D | Double guide**

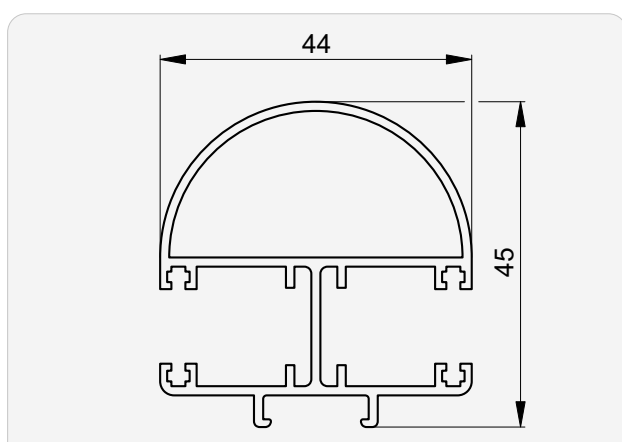


**Type C | Single guide**

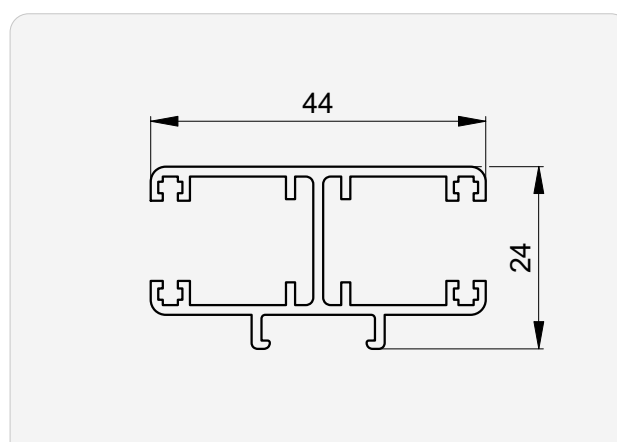


Special guide fastening required

**Type R | Curved double guide**



**Type T | Double guide**

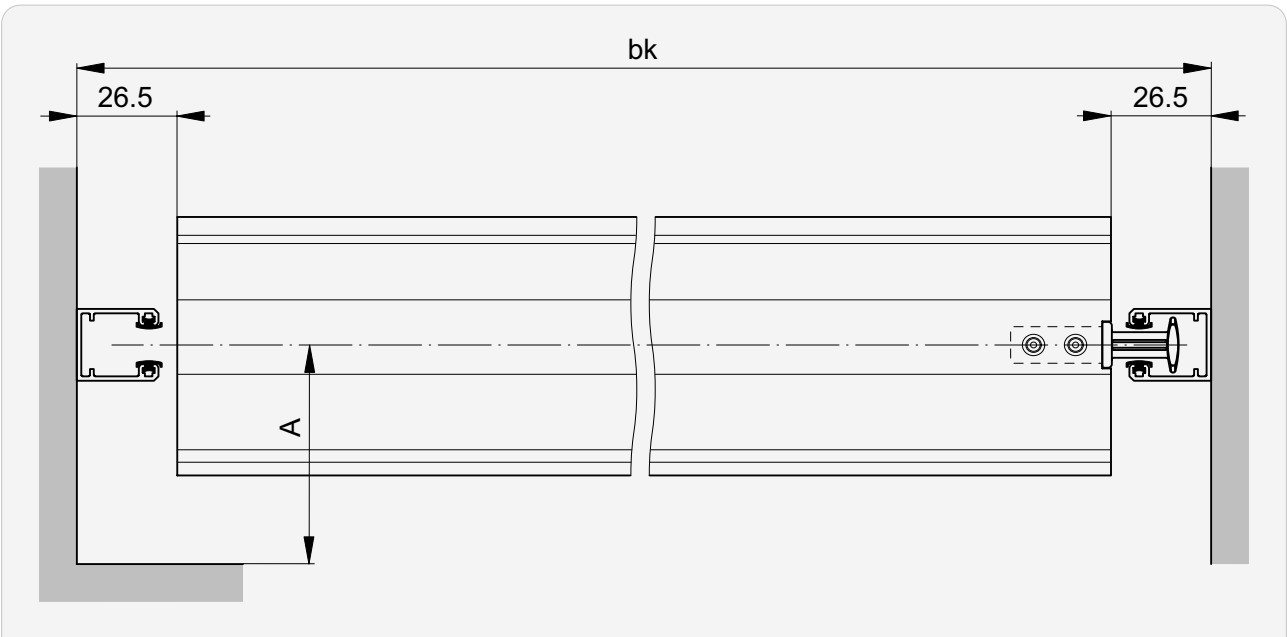


|                                           |            |
|-------------------------------------------|------------|
| ➤ Distance between guides <b>FD</b> ..... | <b>117</b> |
| ➤ Fastening points.....                   | <b>113</b> |
| ➤ Guide extension and facet .....         | <b>106</b> |
| ➤ Guide rail fastenings.....              | <b>98</b>  |

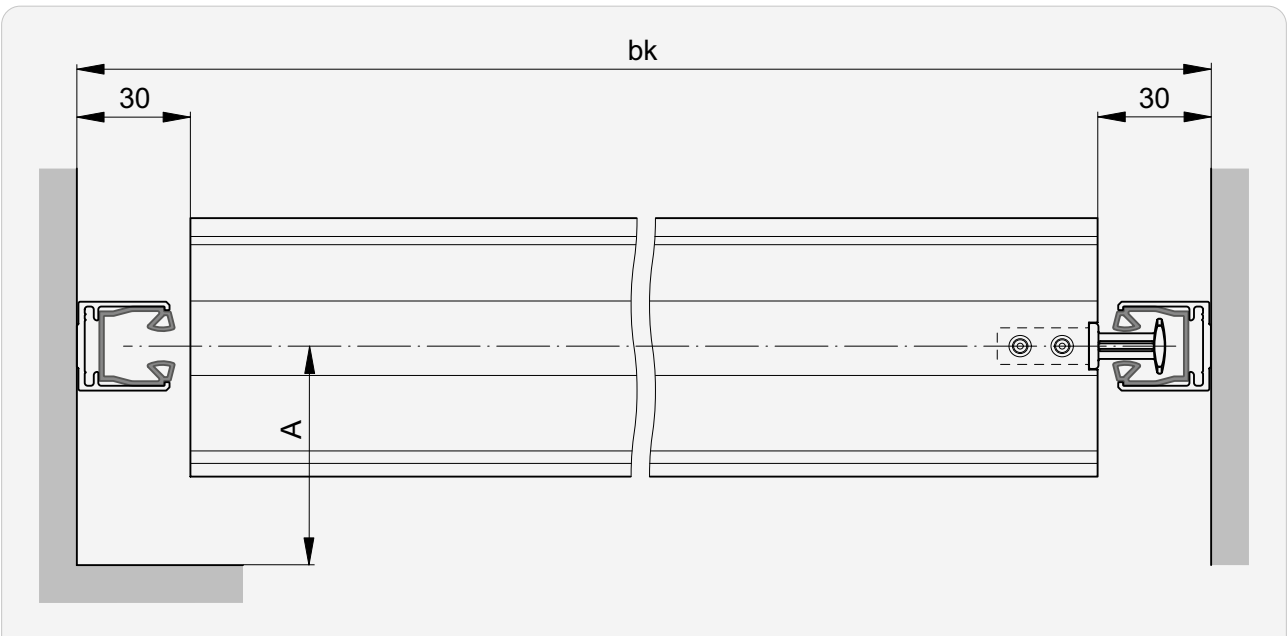
|                                                |            |
|------------------------------------------------|------------|
| ➤ Guide rail cut-outs in windowsill area ..... | <b>109</b> |
| ➤ Installation window .....                    | <b>112</b> |
| ➤ Integrated guides.....                       | <b>97</b>  |

Sections | Details

Horizontal section: Guide rail conventional



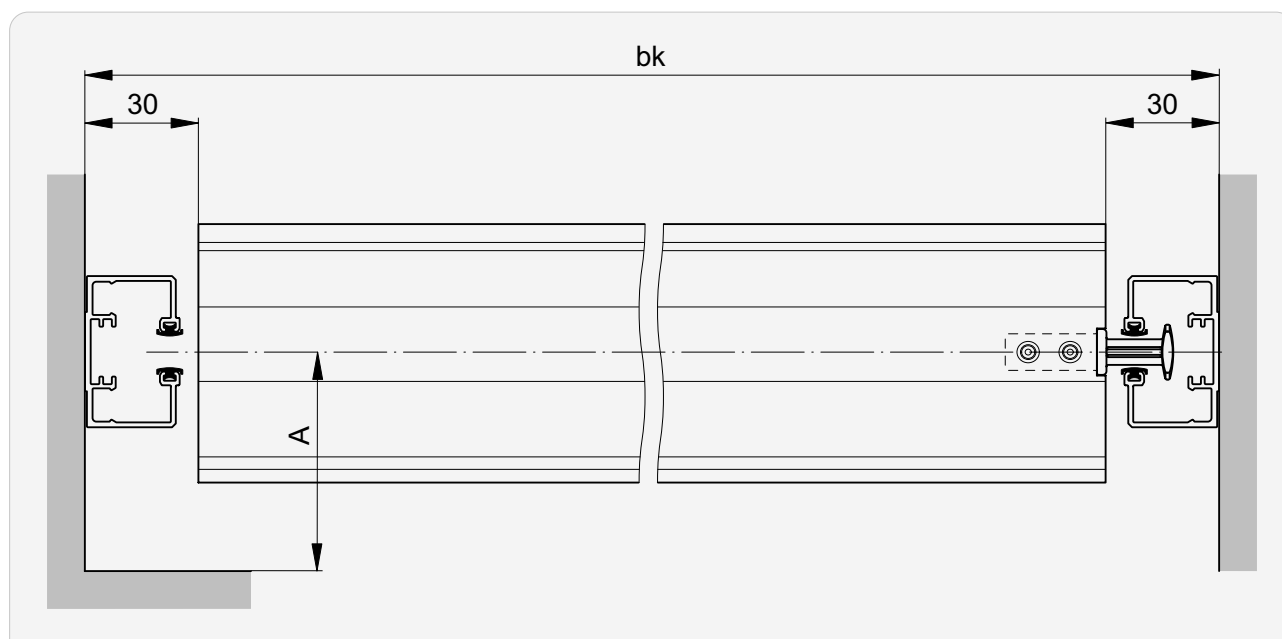
Horizontal section: Guide rail Fix-L



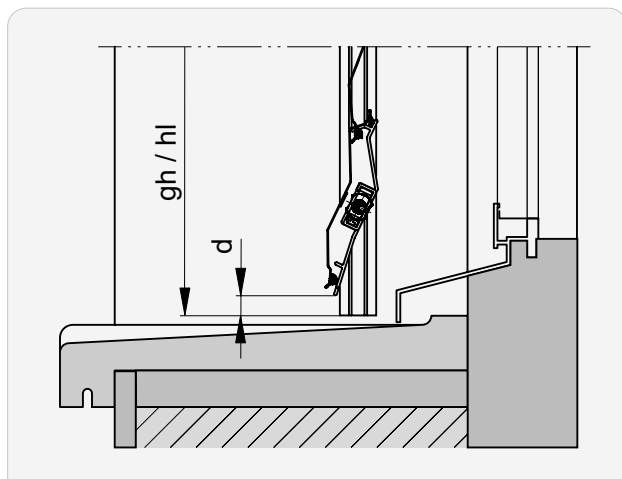
➡ Value for  $A$  ..... 80

## ►► Sections | Details

### Horizontal section: Guide rail Fix



### Detail at bottom



#### **d (d - dimension)**

5 +5/-3 (Lamisol® III Reflect: 15 +5/-3)



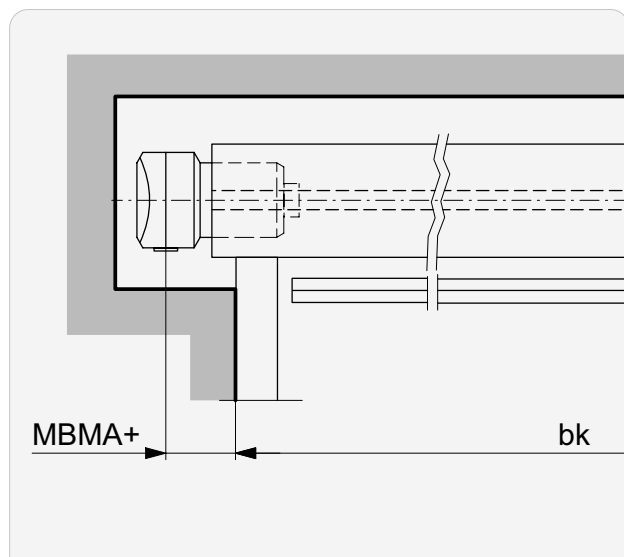
**d - dimension** may vary with different blind dimensions.

➡ Value for **A** ..... **80**

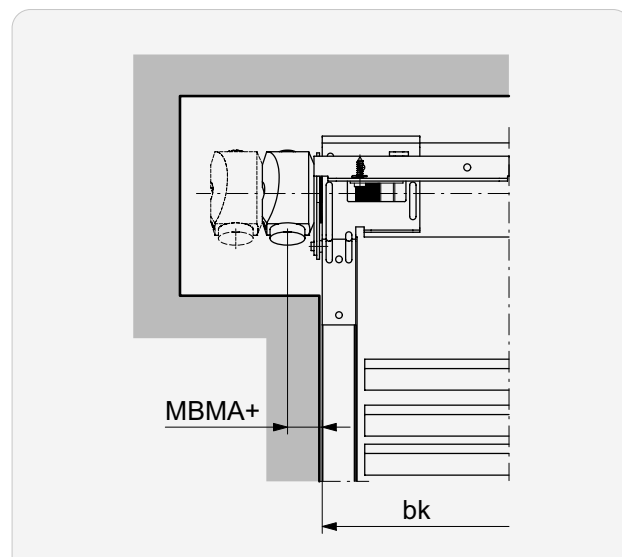
## Sections for crank drive (MBMA)

### outside bk

#### Conventional

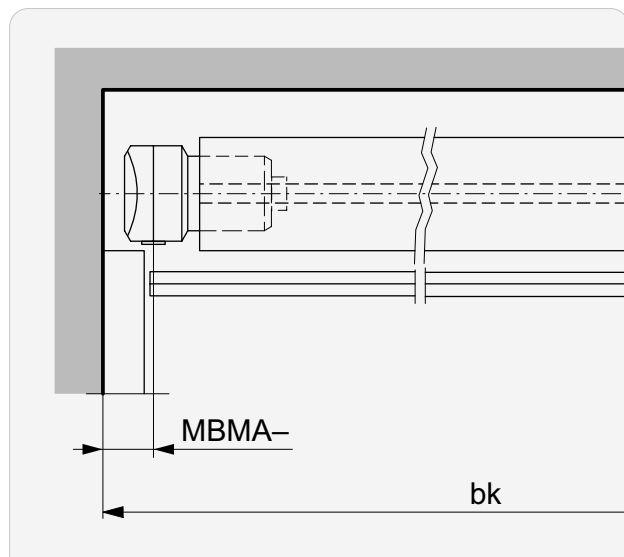


#### Self-supporting (Fix)

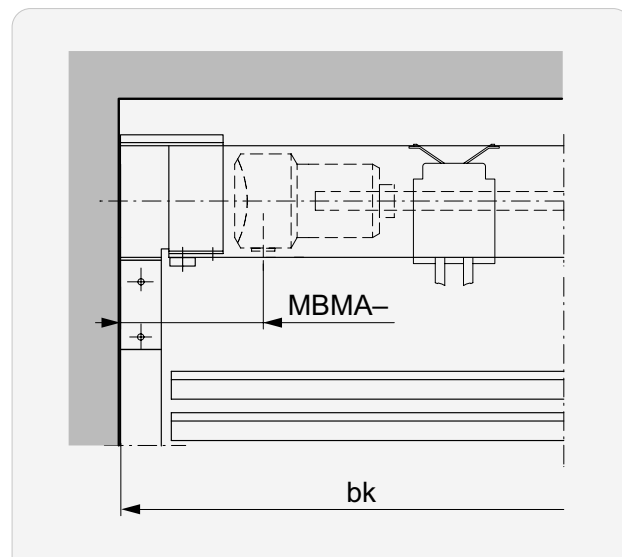


### within bk

#### Conventional



#### Self-supporting (Fix)



#### Version

Conventional

Self-supporting (Fix)

#### MBMA+

0 ... 500

26 ... 125 (10 ... 25)<sup>1</sup>

#### MBMA-

0 ... (bk/2)\*

90 ... (bk/2)

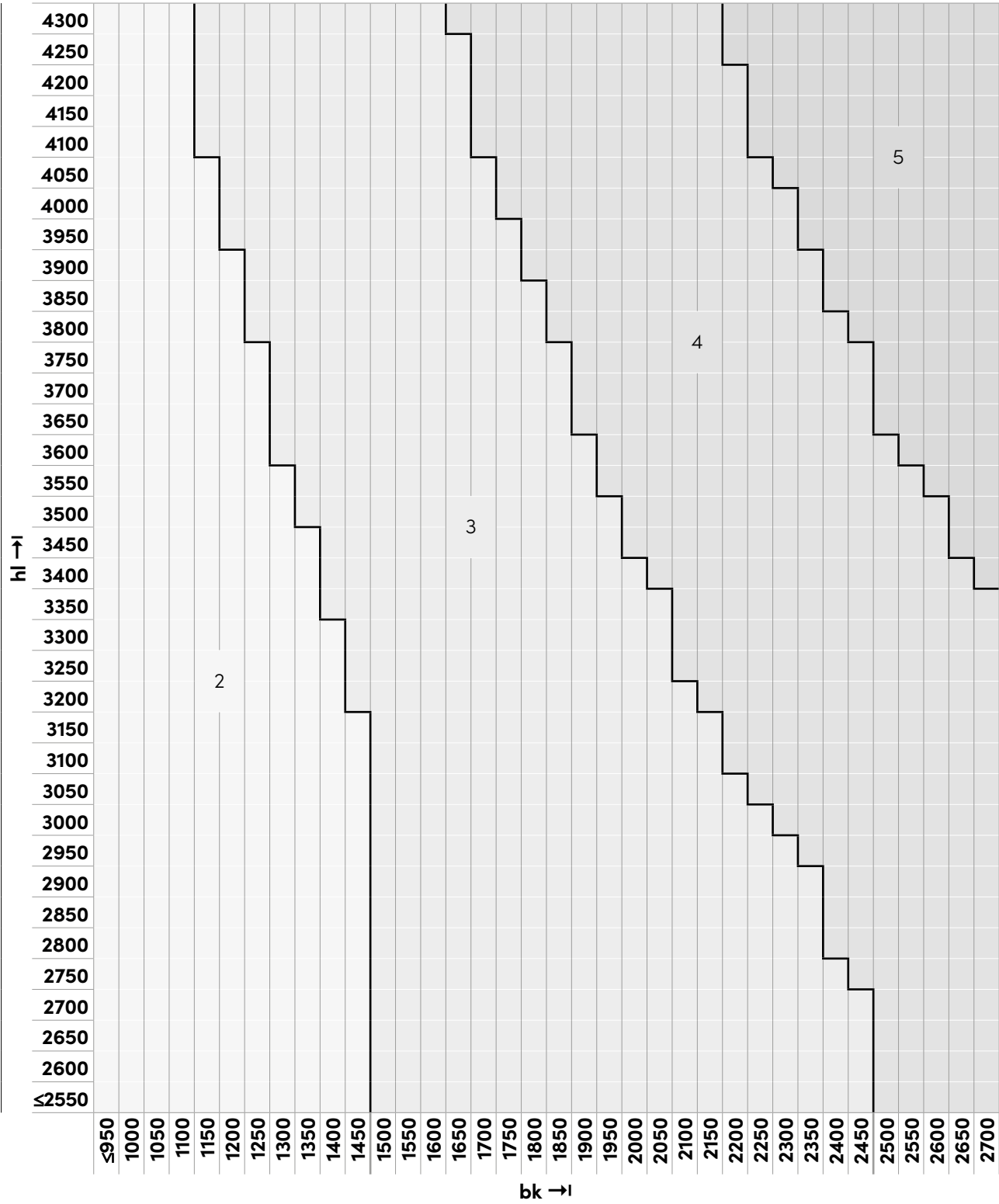
<sup>1</sup> for reverse mounted gearbox

\* ≤30: Gearbox niche required

Vertical connections | Standard motor position

Number of bearings

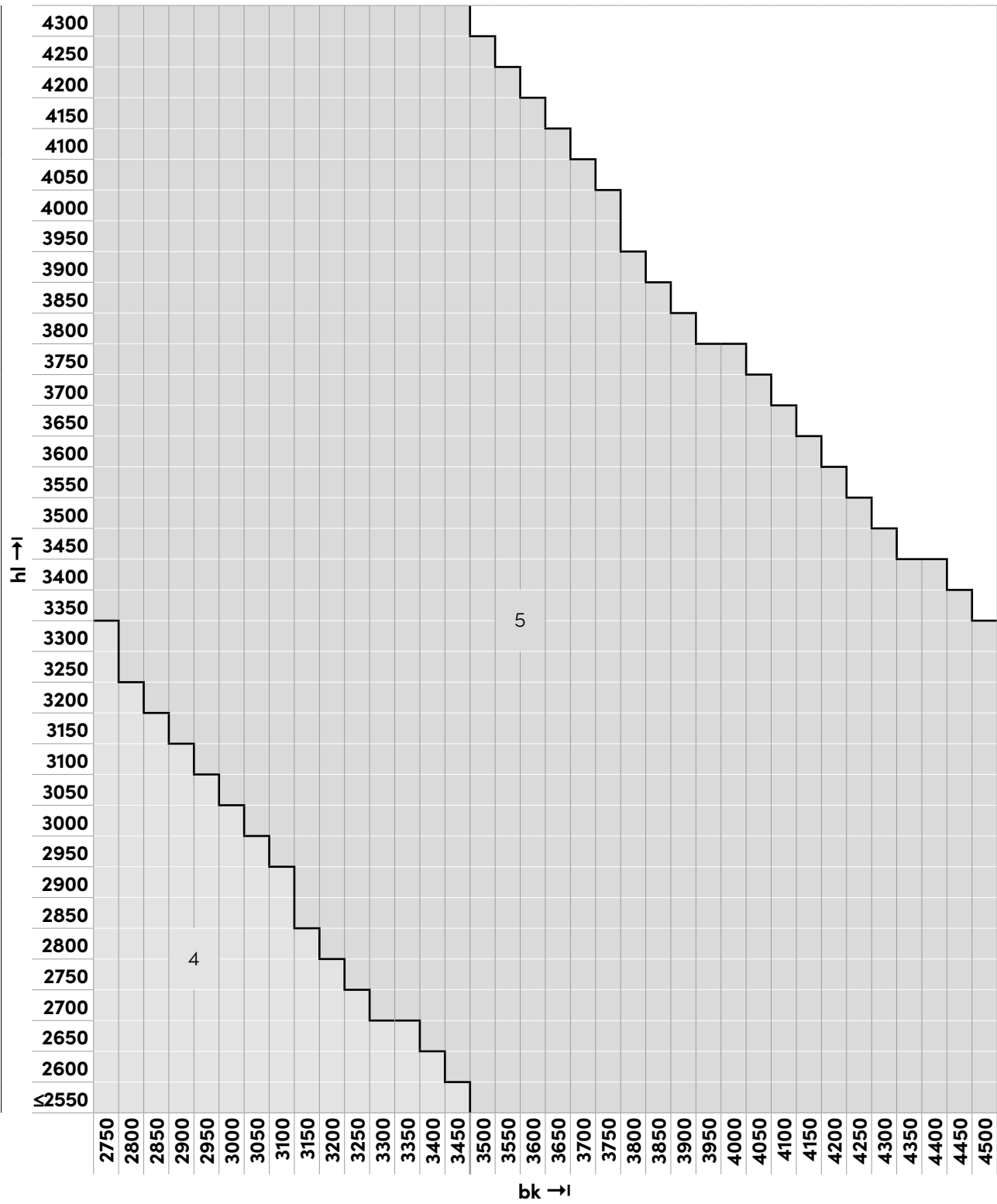
Lamisol® III 70



►► Vertical connections | Standard motor position

Number of bearings

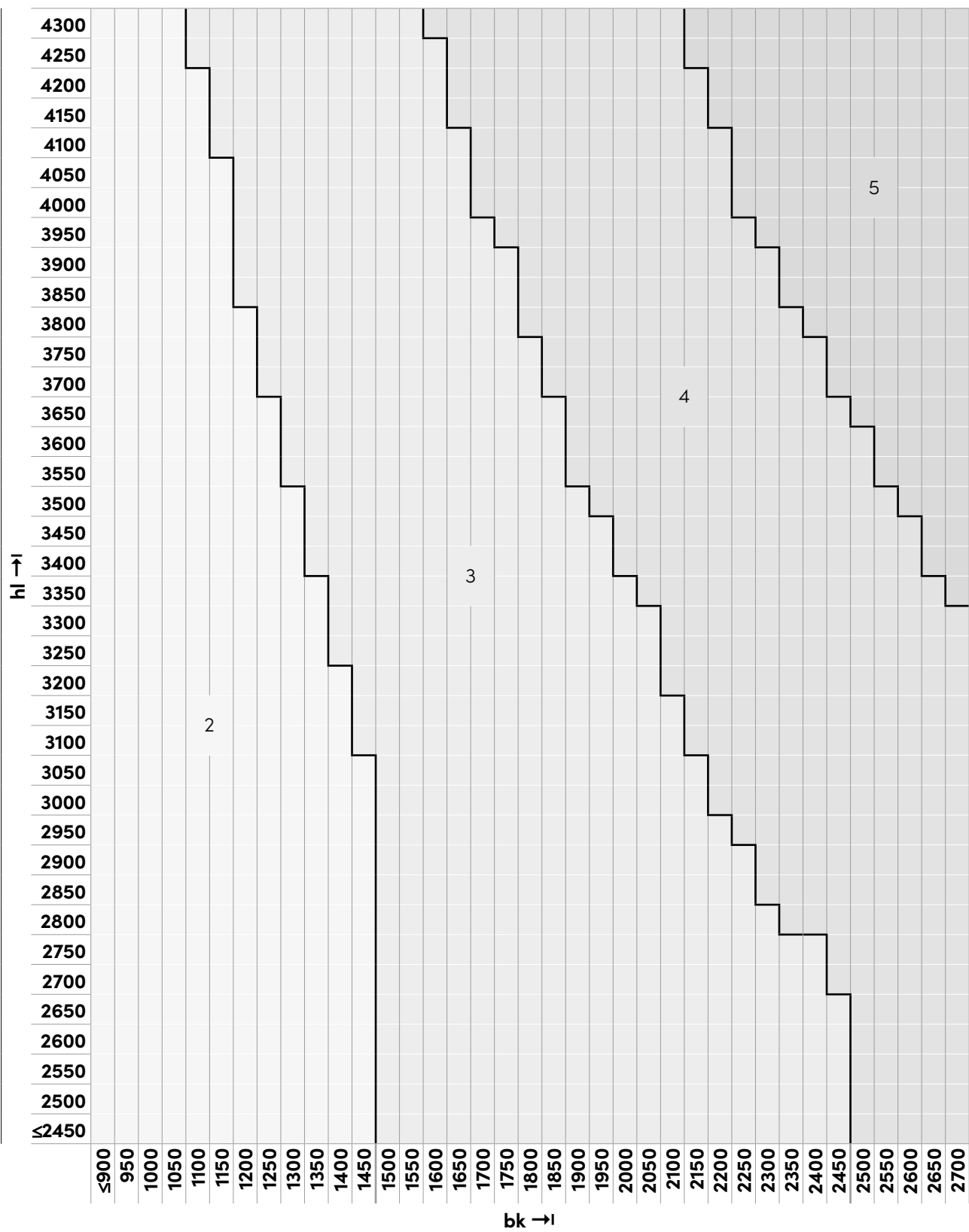
Lamisol® III 70



►► Vertical connections | Standard motor position

Number of bearings

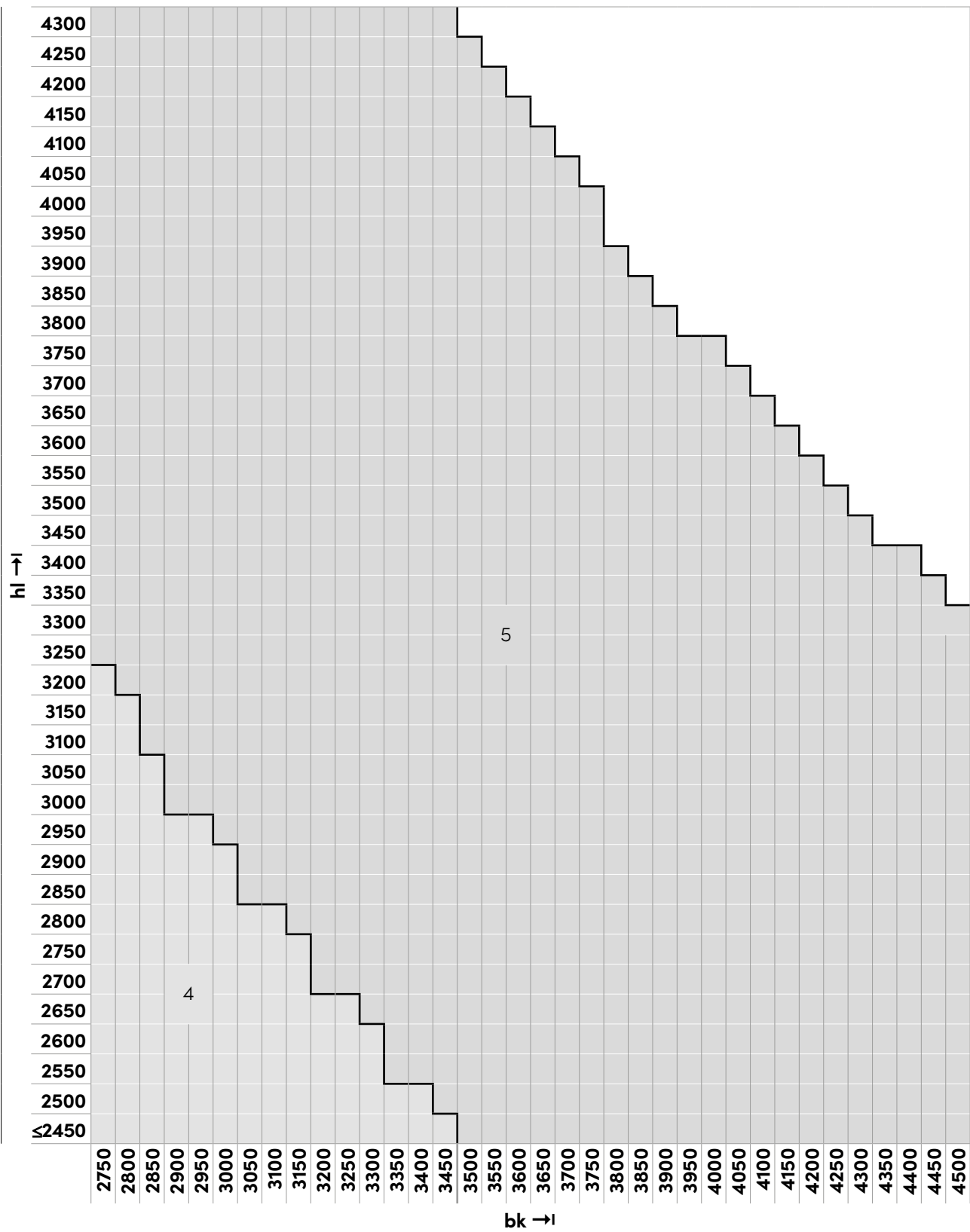
Lamisol® III 90



►► Vertical connections | Standard motor position

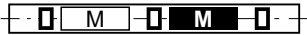
Number of bearings

Lamisol® III 90



►► Vertical connections | Standard motor position

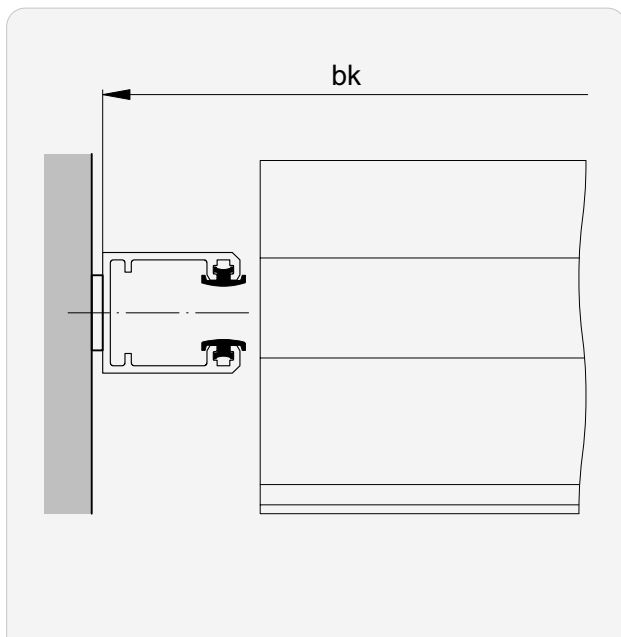
Standard motor position

| Number of bearings | Standard motor position                                                            |
|--------------------|------------------------------------------------------------------------------------|
| 2                  |   |
| 3                  |  |
| 4                  |  |
| 5                  |  |

-  Bearing
-  Standard motor position
-  Possible motor position (on request)

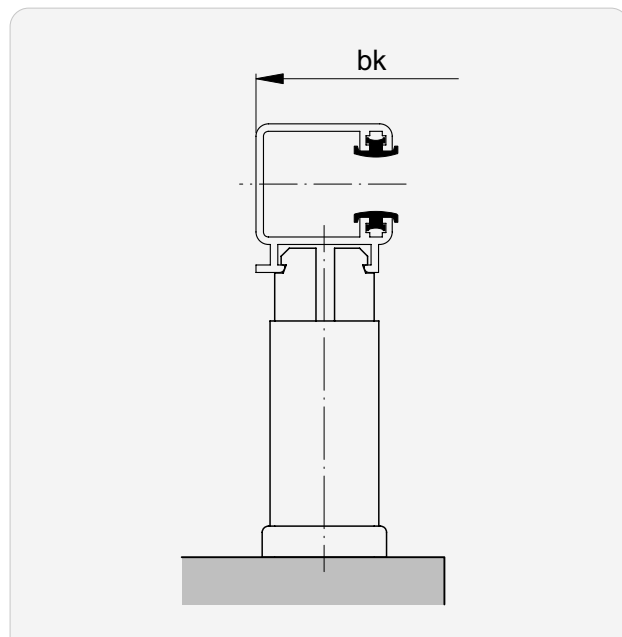
## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

### Guides suspended



## ►► Guide rail installation (principle)

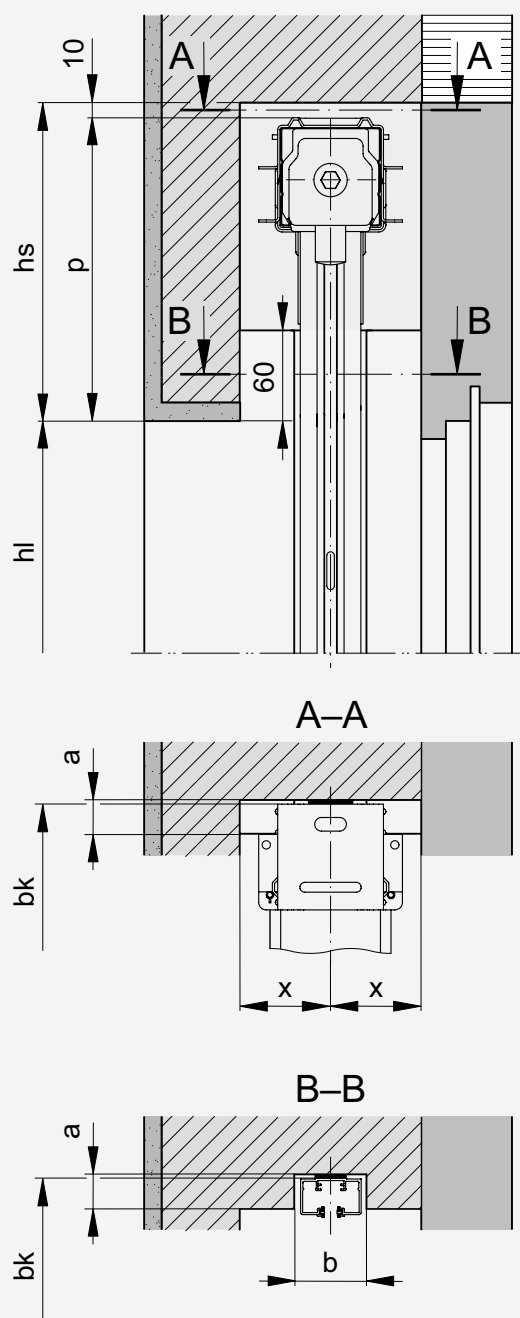
### Guides recessed



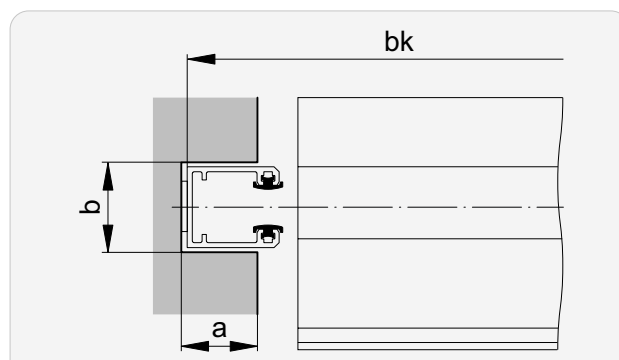
#### \*Type F | Without guide cut-out:

Only possible if curtain can be retracted from below.

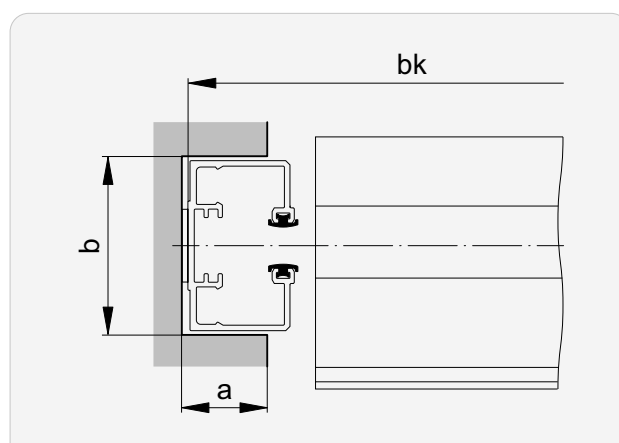
#### Type E | F\* | L



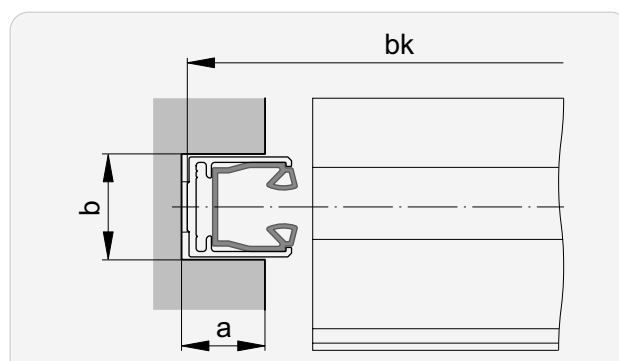
#### Type E



#### Type F\*



#### Type L



| Product   Version   | x min. |
|---------------------|--------|
| Lamisol® III 70 Fix | 50     |
| Lamisol® III 90 Fix | 65     |

| Type | a   | b   |
|------|-----|-----|
| E    | ≤18 | ≥21 |
| F*   | ≤20 | ≥42 |
| L    | ≤24 | ≥25 |

## Guide rail fastenings (principle)

### Overview

| Type |   |    |   |    |   |   |   |                |                |                |   |    |   |    |
|------|---|----|---|----|---|---|---|----------------|----------------|----------------|---|----|---|----|
| A    | B | Bd | C | Cd | E | F | G | H              | Kv             | M              | T | Tv | V | Wv |
| ●    | ● | ●  | ● | ●  | ● | ● | — | ○ <sup>1</sup> | ○ <sup>2</sup> | ○ <sup>3</sup> | ● | ●  | ● | ●  |

● applicable without restrictions

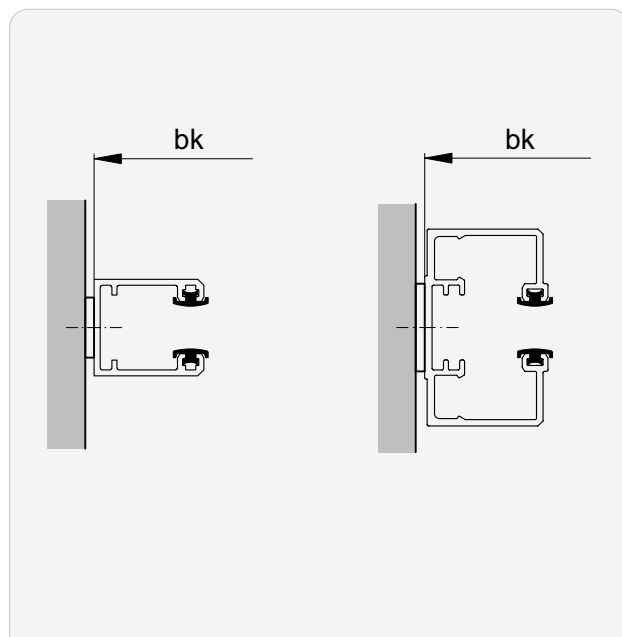
○ applicable with restrictions:

<sup>1</sup> only with guide **type D**

<sup>2</sup> only with guide **type C | T | R**

<sup>3</sup> only with guide **type E**

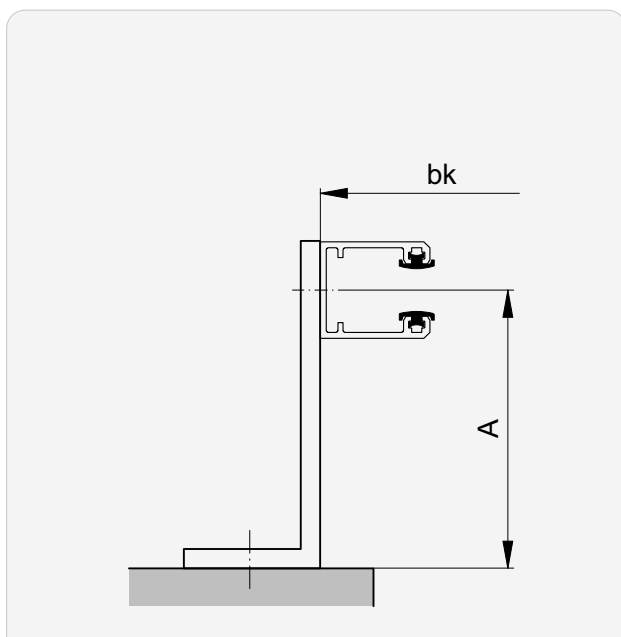
### A Soffit installation



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

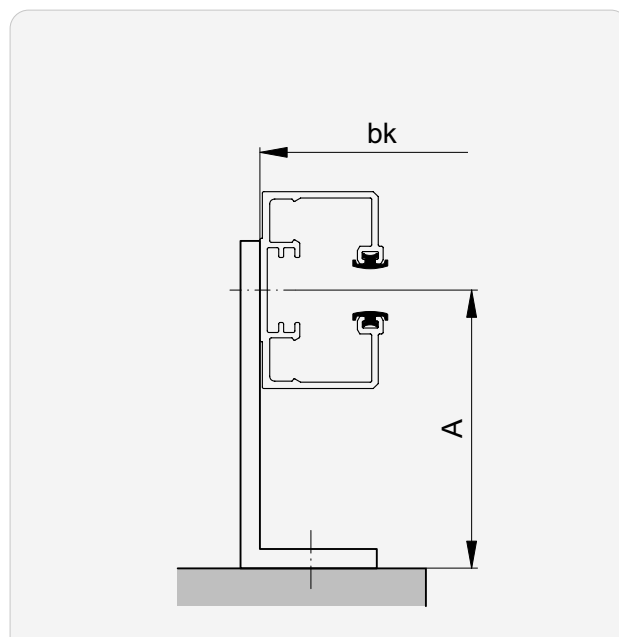
## ►► Guide rail fastenings (principle)

### B Installation with fastening bracket



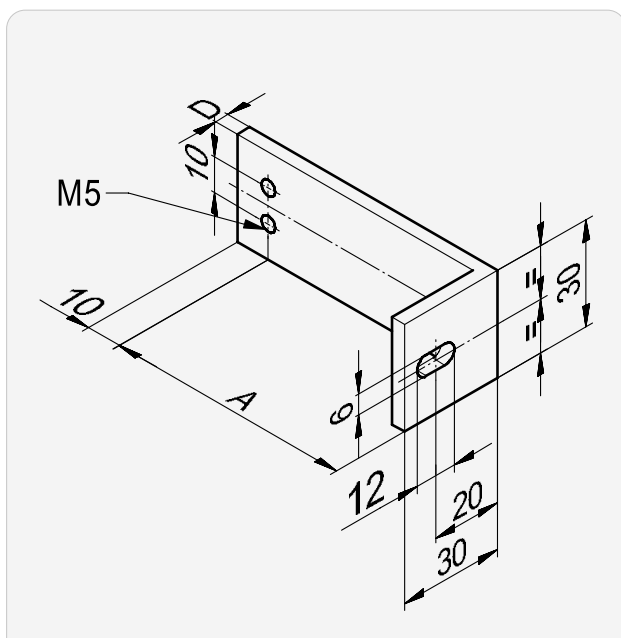
Bracket outwards

### C Installation with fastening bracket



Bracket inwards

#### Fastening bracket for types B and C



A\*

20 ... 115

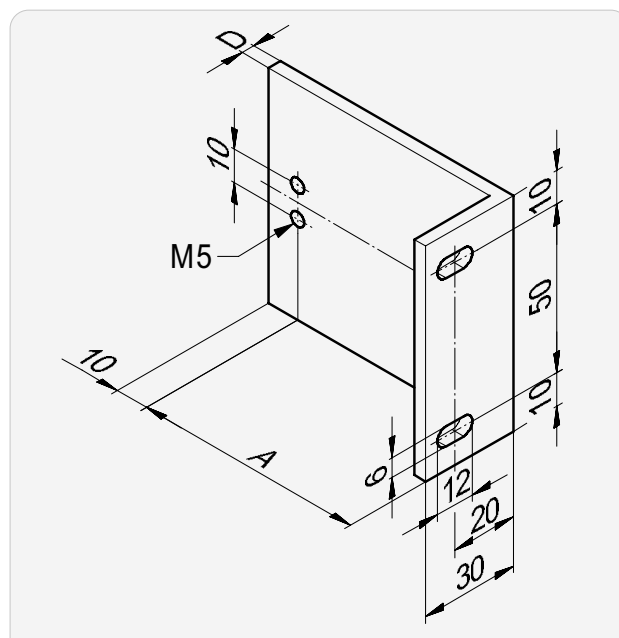
D

4

**i** For suspended guide rails always with **brackets 70 mm**.

\* in 5 mm steps

#### Fastening bracket 70 mm for types B and C



A\*

20 ... 115

120 ... 215

D

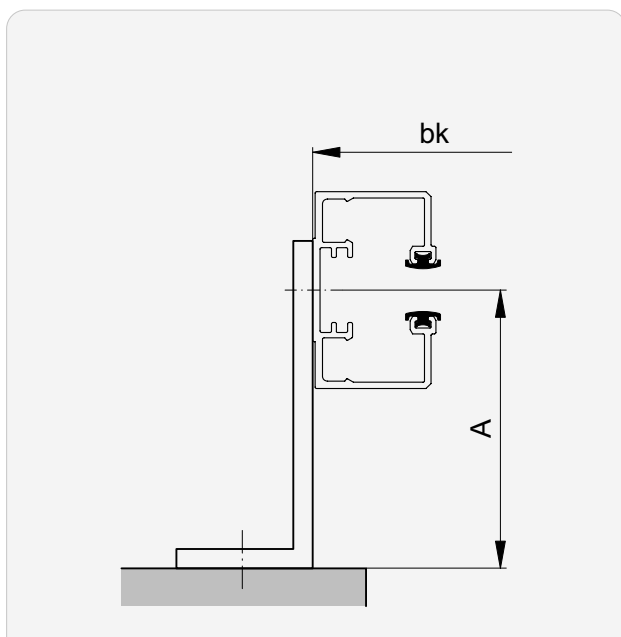
4

5

**i** If the **projection is  $\geq 120$** , all products are fastened with a **70 mm bracket**.

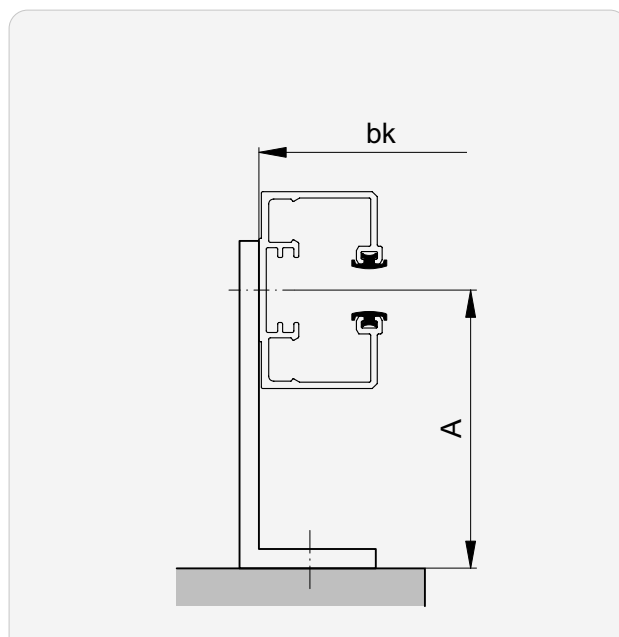
## ►► Guide rail fastenings (principle)

### **Bd** Installation with continuous fastening bracket



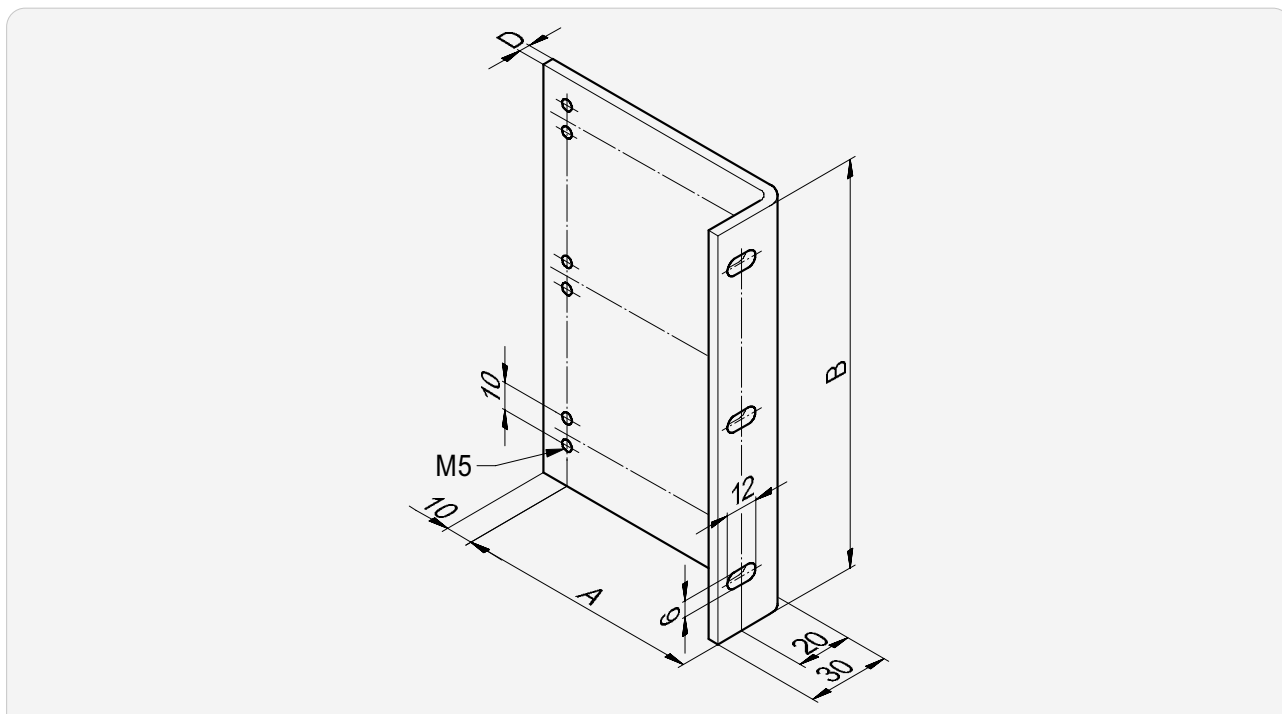
Bracket outwards

### **Cd** Installation with continuous fastening bracket



Bracket inwards

### Continuous fastening bracket for types Bd and Cd



**A\***

20...300

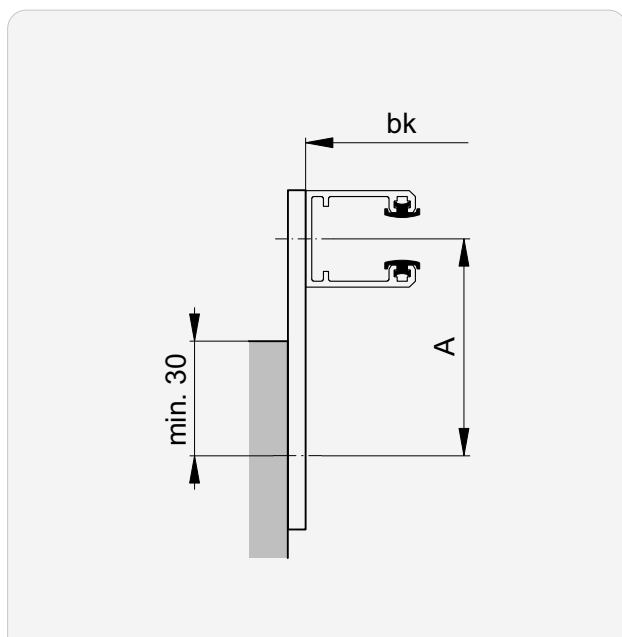
**D**

always 4

\* in 5 mm steps

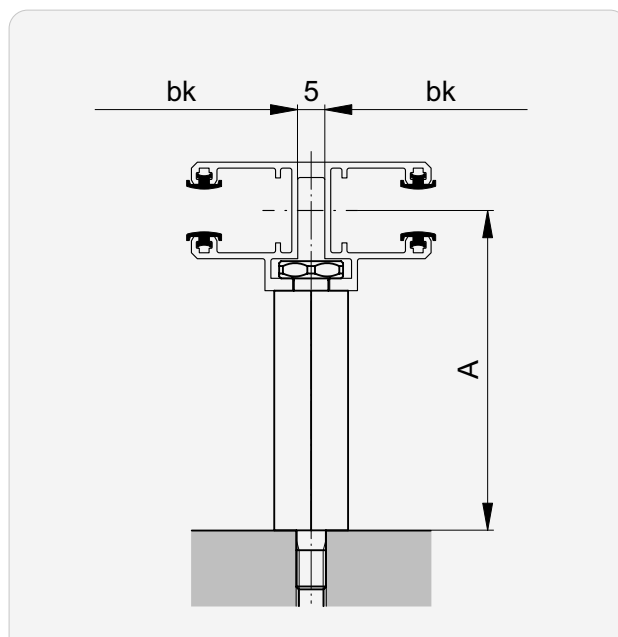
## ►► Guide rail fastenings (principle)

### **E | F** Installation with fastening lug



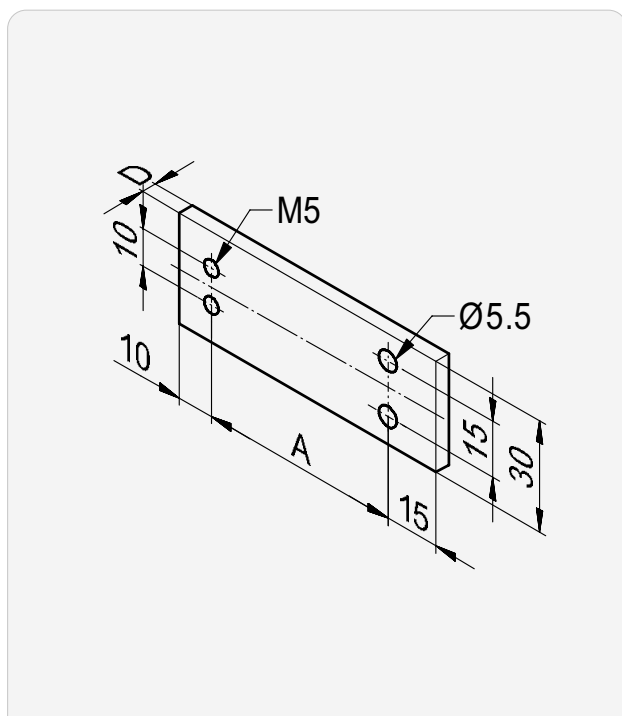
inwards / outwards

### **H** Installation with spacer



Only with guide type D

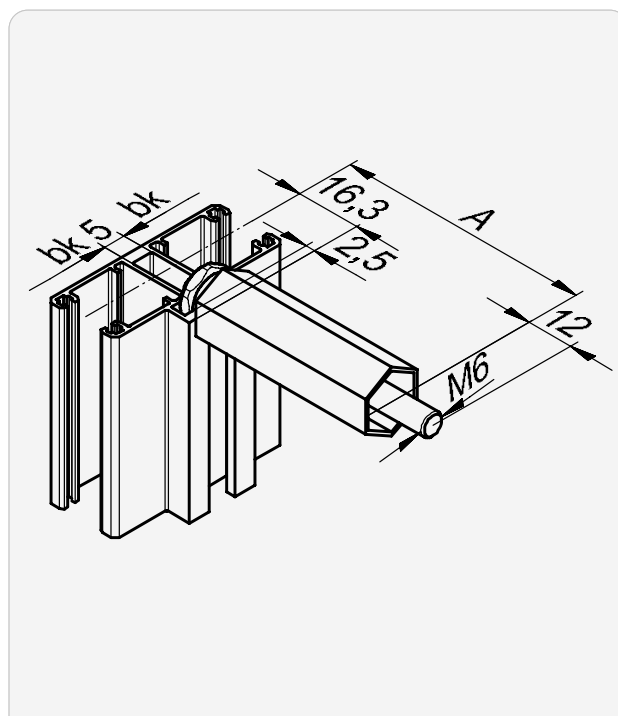
### Fastening lug for type E | F



| A*          | D |
|-------------|---|
| 50 ... 115  | 4 |
| 120 ... 125 | 5 |

\* in 5 mm steps

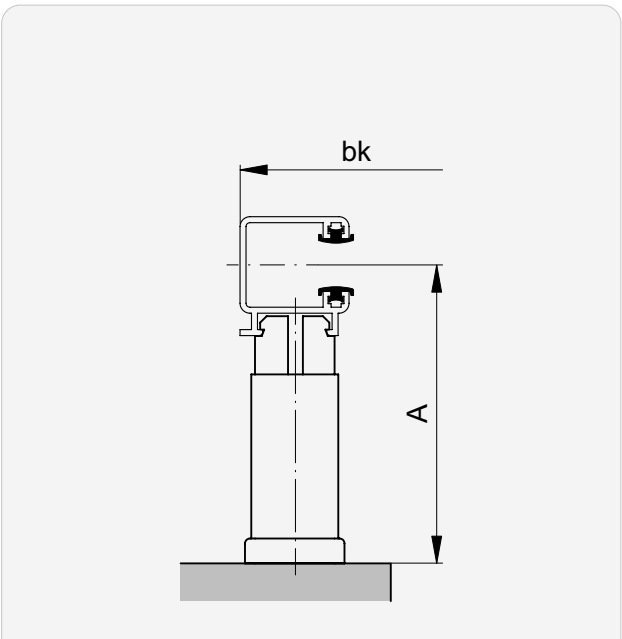
### Spacer for type H



| A          |
|------------|
| 35 ... 115 |

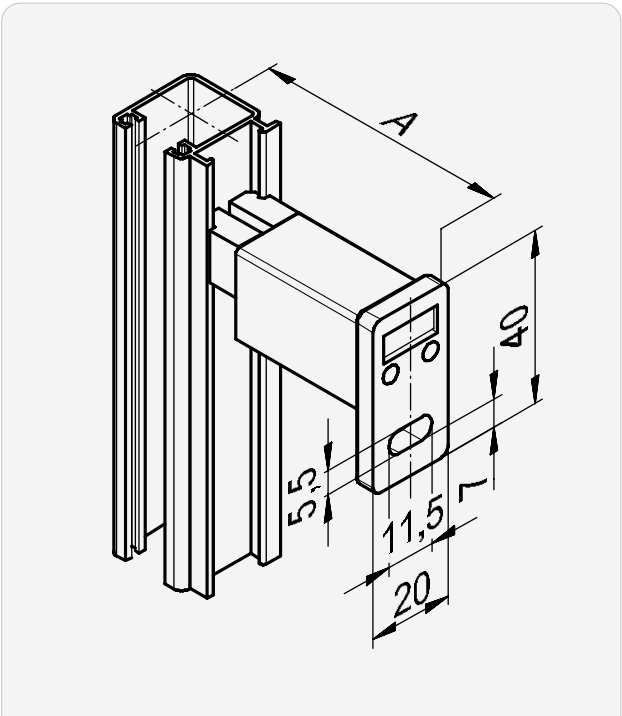
►► Guide rail fastenings (principle)

**Kv** Installation with adjustable console



Only with guide type C|T|R

Console for type Kv

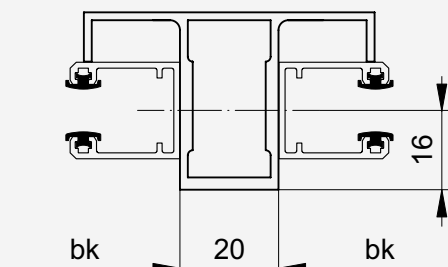


| A           | A           |
|-------------|-------------|
| 60 ... 75   | 121 ... 135 |
| 76 ... 90   | 136 ... 150 |
| 91 ... 105  | 151 ... 165 |
| 106 ... 120 | 166 ... 180 |
|             | 181 ... 195 |

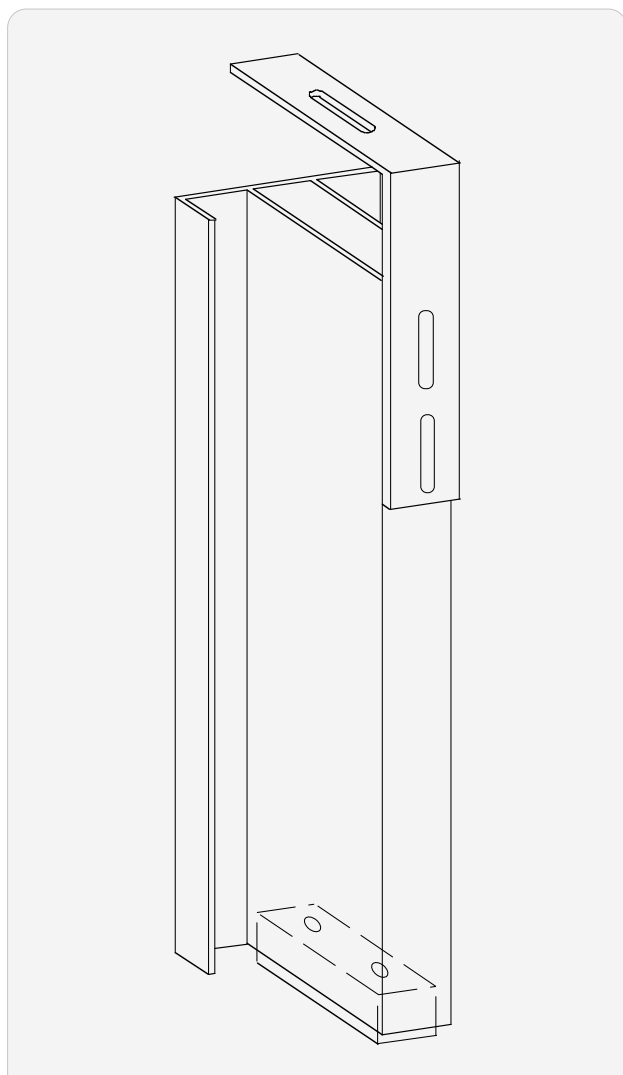
## ►► Guide rail fastenings (principle)

### **M** Installation with centre bracket

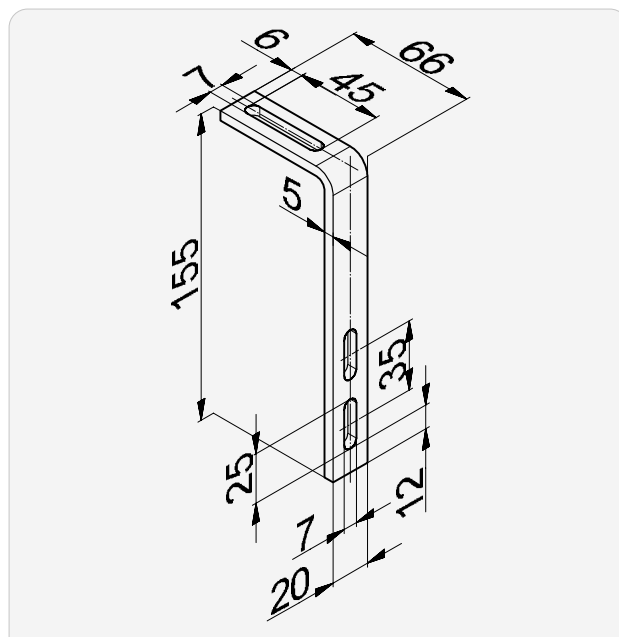
**i** Only with guide type E  
Length = Guide length



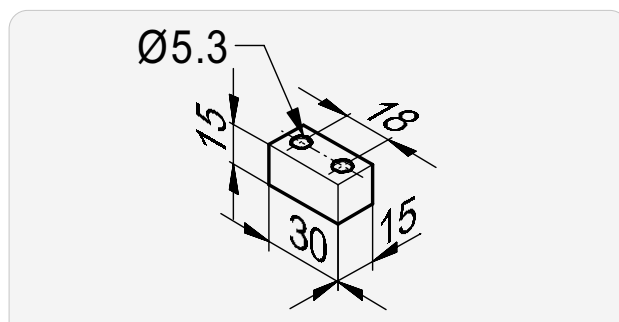
#### Principle



#### Fastening bracket above centre bracket

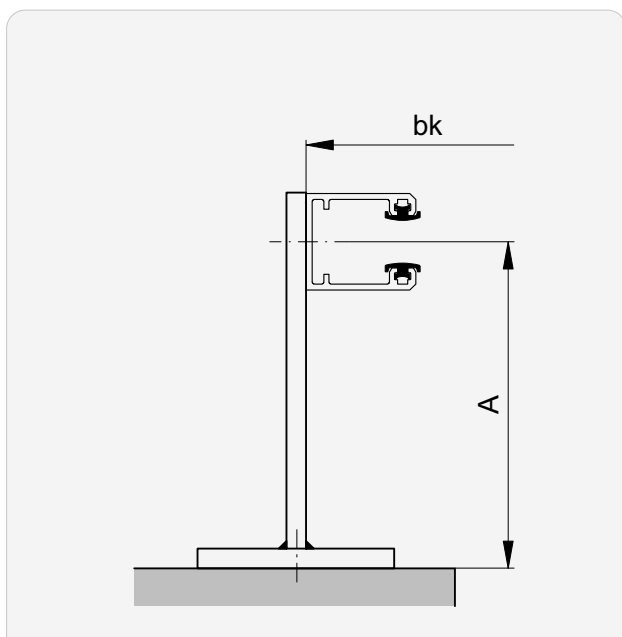
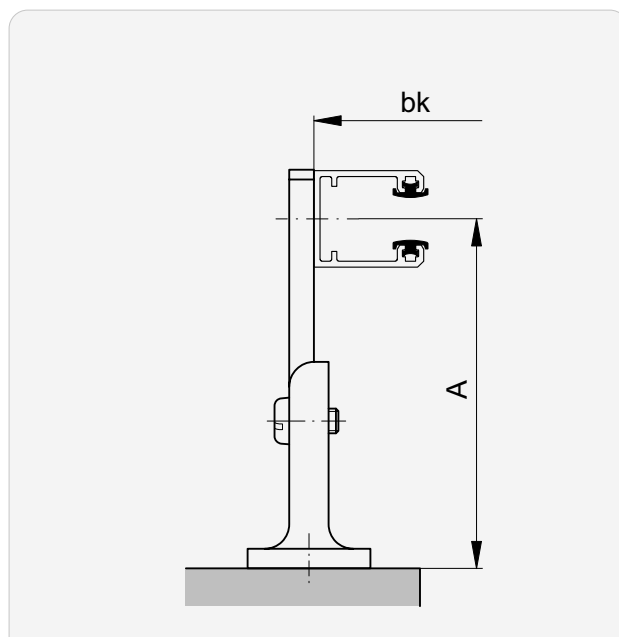


#### Fastening square below for centre bracket

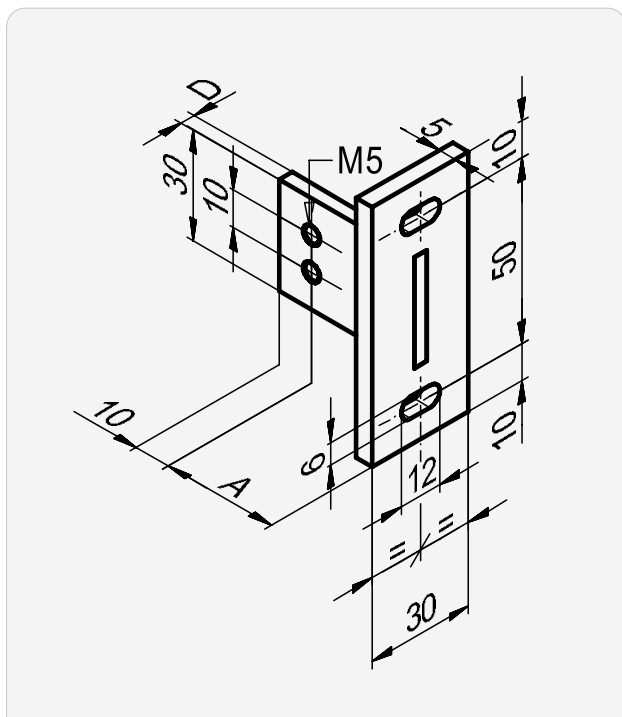


## ►► Guide rail fastenings (principle)

## T Installation with T-bracket

**Tv** Installation with adjustable T-bracket

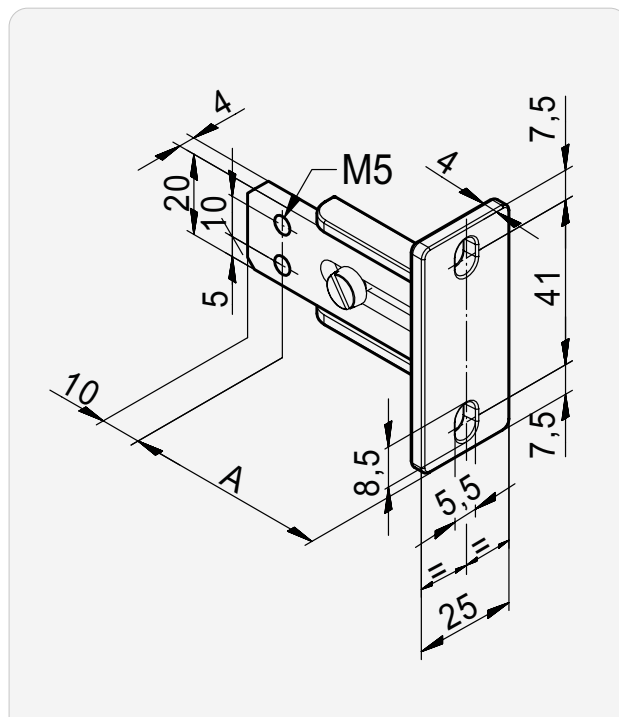
### T-bracket for type T



| <b>A*</b>   | <b>D</b> |
|-------------|----------|
| 20 ... 115  | 4        |
| 120 ... 215 | 5        |

\* in 5mm steps

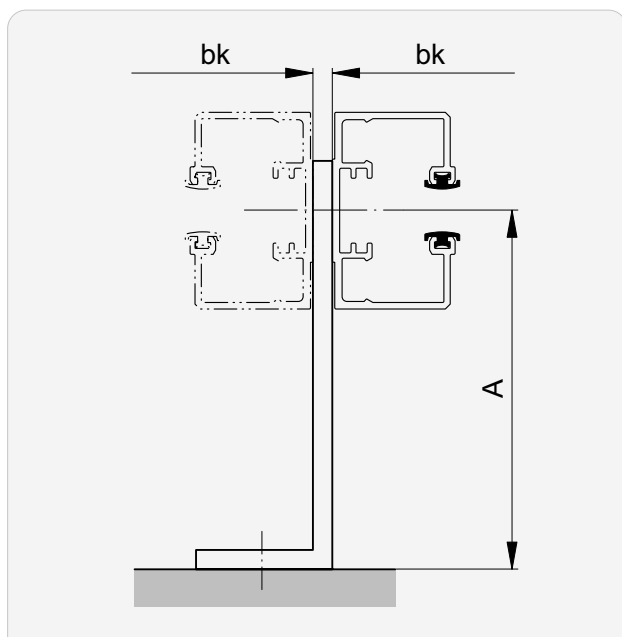
**T-bracket adjustable for type Tv**



| A           |
|-------------|
| 50 ... 68   |
| 69 ... 87   |
| 88 ... 106  |
| 107 ... 115 |

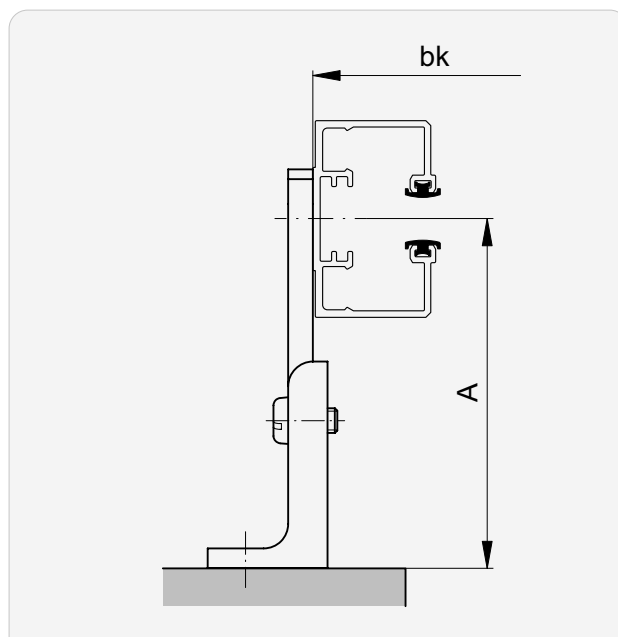
## ►► Guide rail fastenings (principle)

## V Installation with one bracket

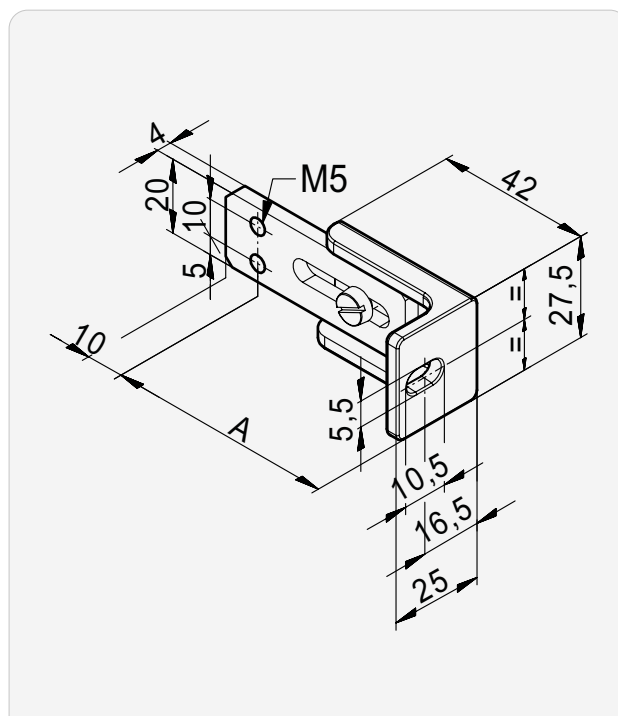


The blind on the right uses the fastening for the blind on the left.

### Wv Installation with adjustable bracket



**W-bracket adjustable for type Wv**



**A**

50...68

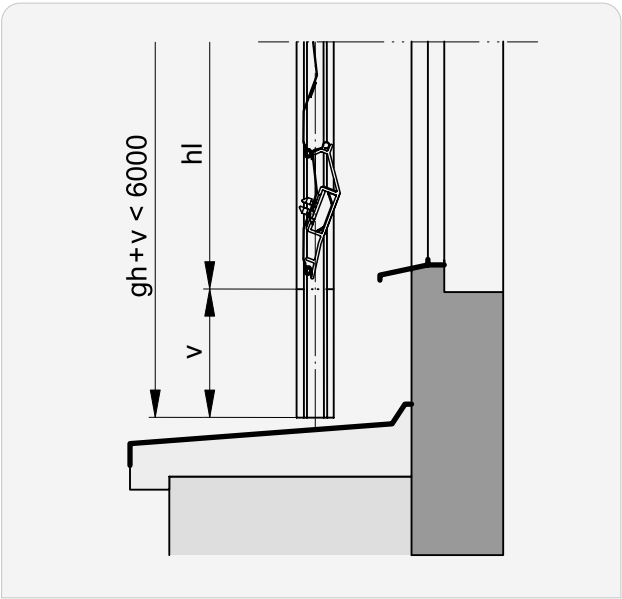
69...87

88...106

107...115

Guide extension and facet

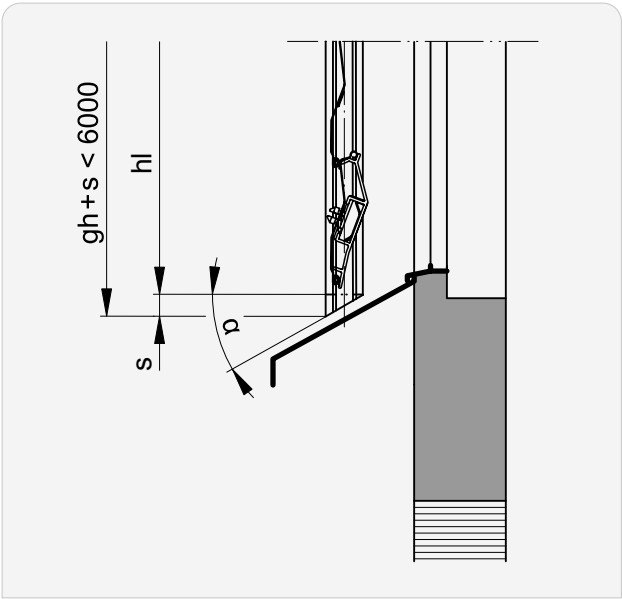
Extension



**v**

-35...3000

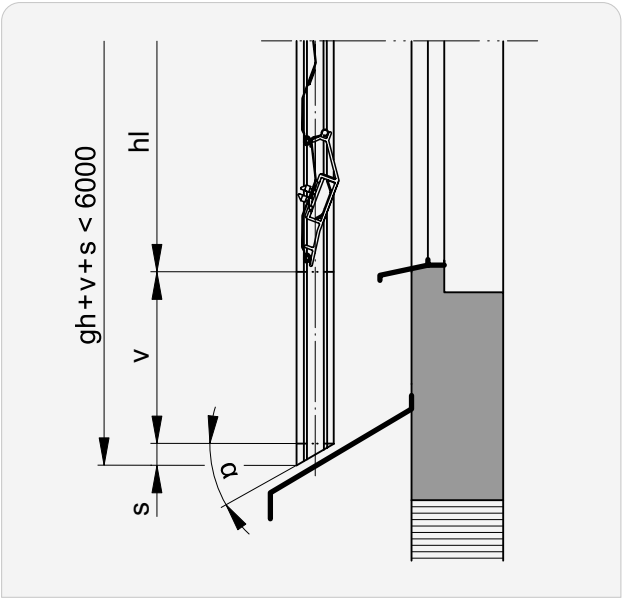
Facet



**α**

5...50°

Extension and facet



**v**

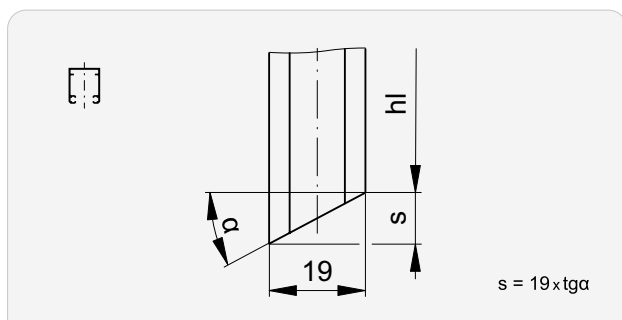
0...3000

**α**

5...50°

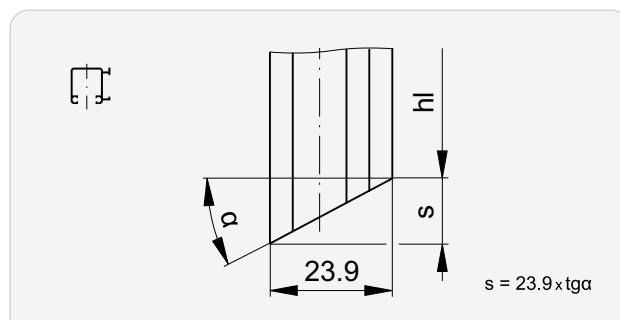
## Angling at the guides

### Type E | Single guide



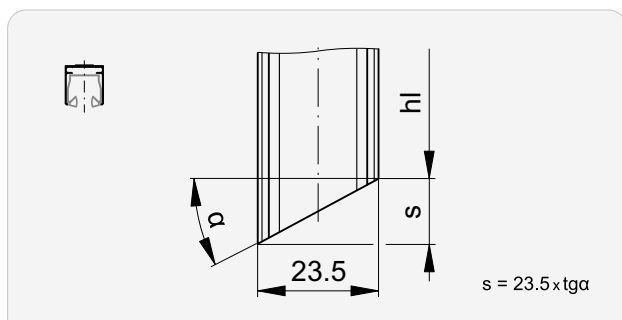
| $\alpha$ | s | $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|---|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 5 | 25       | 9  | 35       | 13 | 45       | 19 |
| 6        | 2 | 16       | 5 | 26       | 9  | 36       | 14 | 46       | 20 |
| 7        | 2 | 17       | 6 | 27       | 10 | 37       | 14 | 47       | 20 |
| 8        | 3 | 18       | 6 | 28       | 10 | 38       | 15 | 48       | 21 |
| 9        | 3 | 19       | 7 | 29       | 11 | 39       | 15 | 49       | 22 |
| 10       | 3 | 20       | 7 | 30       | 11 | 40       | 16 | 50       | 23 |
| 11       | 4 | 21       | 7 | 31       | 11 | 41       | 17 |          |    |
| 12       | 4 | 22       | 8 | 32       | 12 | 42       | 17 |          |    |
| 13       | 4 | 23       | 8 | 33       | 12 | 43       | 18 |          |    |
| 14       | 5 | 24       | 8 | 34       | 13 | 44       | 18 |          |    |

### Type C | Single guide



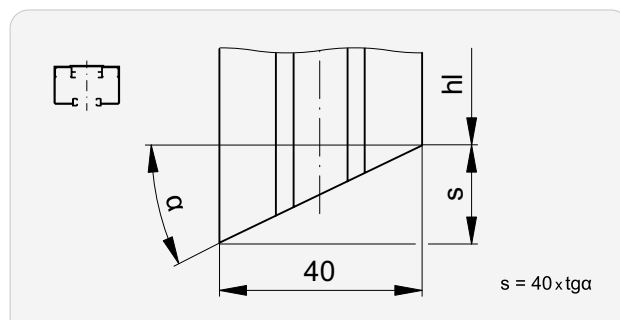
| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 17 | 45       | 24 |
| 6        | 3 | 16       | 7  | 26       | 12 | 36       | 17 | 46       | 25 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 26 |
| 8        | 3 | 18       | 8  | 28       | 13 | 38       | 19 | 48       | 27 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 19 | 49       | 27 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 28 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 21 |          |    |
| 12       | 5 | 22       | 10 | 32       | 15 | 42       | 22 |          |    |
| 13       | 6 | 23       | 10 | 33       | 16 | 43       | 22 |          |    |
| 14       | 6 | 24       | 11 | 34       | 16 | 44       | 23 |          |    |

### Type L | Fix guide



| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 16 | 45       | 24 |
| 6        | 2 | 16       | 7  | 26       | 11 | 36       | 17 | 46       | 24 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 25 |
| 8        | 3 | 18       | 8  | 28       | 12 | 38       | 18 | 48       | 26 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 19 | 49       | 27 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 28 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 20 |          |    |
| 12       | 5 | 22       | 9  | 32       | 15 | 42       | 21 |          |    |
| 13       | 5 | 23       | 10 | 33       | 15 | 43       | 22 |          |    |
| 14       | 6 | 24       | 10 | 34       | 16 | 44       | 23 |          |    |

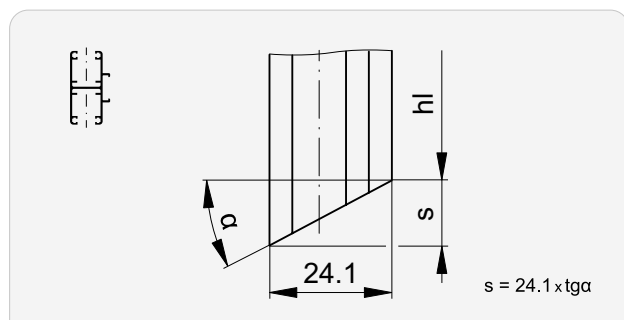
### Type F | Fix guide



| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 3  | 15       | 11 | 25       | 19 | 35       | 28 | 45       | 40 |
| 6        | 4  | 16       | 11 | 26       | 20 | 36       | 29 | 46       | 41 |
| 7        | 5  | 17       | 12 | 27       | 20 | 37       | 30 | 47       | 43 |
| 8        | 6  | 18       | 13 | 28       | 21 | 38       | 31 | 48       | 44 |
| 9        | 6  | 19       | 14 | 29       | 22 | 39       | 32 | 49       | 46 |
| 10       | 7  | 20       | 15 | 30       | 23 | 40       | 34 | 50       | 48 |
| 11       | 8  | 21       | 15 | 31       | 24 | 41       | 35 |          |    |
| 12       | 9  | 22       | 16 | 32       | 25 | 42       | 36 |          |    |
| 13       | 9  | 23       | 17 | 33       | 26 | 43       | 37 |          |    |
| 14       | 10 | 24       | 18 | 34       | 27 | 44       | 39 |          |    |

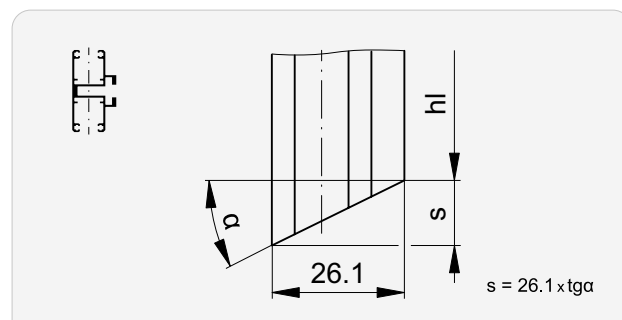
## ► Angling at the guides

### Type T | Double guide



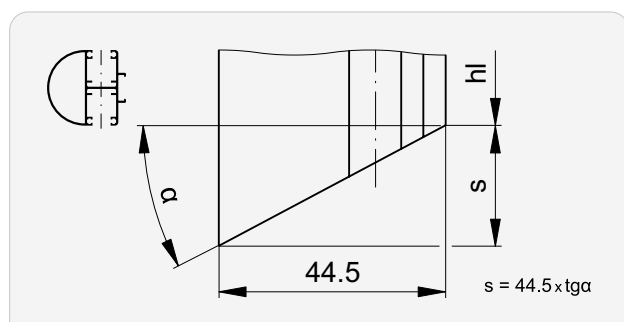
| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 17 | 45       | 24 |
| 6        | 3 | 16       | 7  | 26       | 12 | 36       | 18 | 46       | 25 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 26 |
| 8        | 3 | 18       | 8  | 28       | 13 | 38       | 19 | 48       | 27 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 20 | 49       | 28 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 29 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 21 |          |    |
| 12       | 5 | 22       | 10 | 32       | 15 | 42       | 22 |          |    |
| 13       | 6 | 23       | 10 | 33       | 16 | 43       | 22 |          |    |
| 14       | 6 | 24       | 11 | 34       | 16 | 44       | 23 |          |    |

### Type D | Double guide



| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 7  | 25       | 12 | 35       | 18 | 45       | 26 |
| 6        | 3 | 16       | 7  | 26       | 13 | 36       | 19 | 46       | 27 |
| 7        | 3 | 17       | 8  | 27       | 13 | 37       | 20 | 47       | 28 |
| 8        | 4 | 18       | 8  | 28       | 14 | 38       | 20 | 48       | 29 |
| 9        | 4 | 19       | 9  | 29       | 14 | 39       | 21 | 49       | 30 |
| 10       | 5 | 20       | 9  | 30       | 15 | 40       | 22 | 50       | 31 |
| 11       | 5 | 21       | 10 | 31       | 16 | 41       | 23 |          |    |
| 12       | 6 | 22       | 11 | 32       | 16 | 42       | 24 |          |    |
| 13       | 6 | 23       | 11 | 33       | 17 | 43       | 24 |          |    |
| 14       | 7 | 24       | 12 | 34       | 18 | 44       | 25 |          |    |

### Type R | Curved double guide



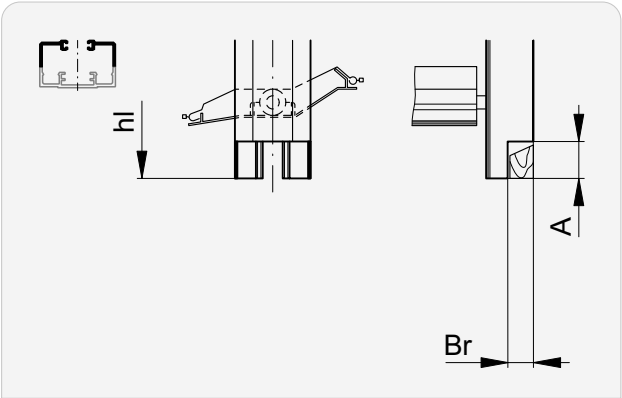
| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 4  | 15       | 12 | 25       | 21 | 35       | 31 | 45       | 45 |
| 6        | 5  | 16       | 13 | 26       | 22 | 36       | 32 | 46       | 46 |
| 7        | 5  | 17       | 14 | 27       | 23 | 37       | 34 | 47       | 48 |
| 8        | 6  | 18       | 14 | 28       | 24 | 38       | 35 | 48       | 50 |
| 9        | 7  | 19       | 15 | 29       | 25 | 39       | 36 | 49       | 51 |
| 10       | 8  | 20       | 16 | 30       | 26 | 40       | 37 | 50       | 53 |
| 11       | 9  | 21       | 17 | 31       | 27 | 41       | 39 |          |    |
| 12       | 9  | 22       | 18 | 32       | 28 | 42       | 40 |          |    |
| 13       | 10 | 23       | 19 | 33       | 29 | 43       | 42 |          |    |
| 14       | 11 | 24       | 20 | 34       | 30 | 44       | 43 |          |    |

Guide rail cut-outs in windowsill area

| Guide type |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|
| C          | D | E | F | L | R | T |
| —          | — | ● | ● | ● | — | — |

Rear cut-out | without/with extension

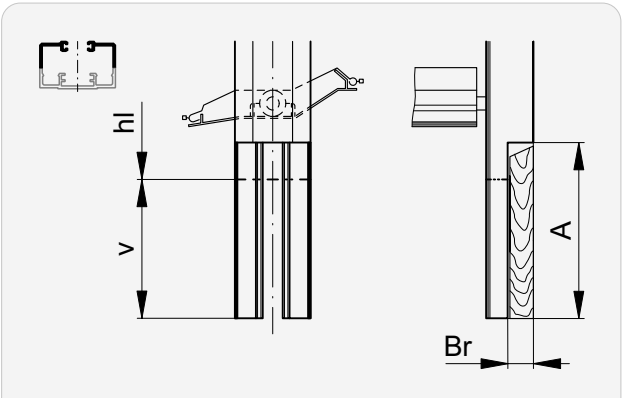
Without extension



| A        | Guide type | Br       |          |         |
|----------|------------|----------|----------|---------|
|          |            | E        | F        | L*      |
| 0 ... 25 |            | 2 ... 3  | 2 ... 4  | 2 ... 4 |
|          |            | 5 ... 12 | 9 ... 12 | 6       |

\* FL ≥ 630

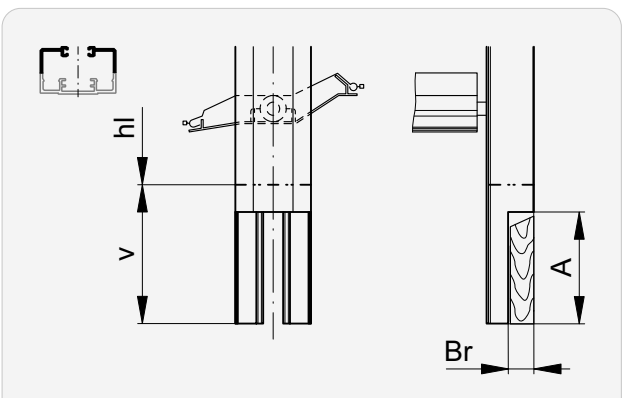
Extension |  $v \leq A$



| A        | Guide type | Br       |          |         |
|----------|------------|----------|----------|---------|
|          |            | E        | F        | L*      |
| 0 ... 25 |            | 2 ... 3  | 2 ... 4  | 2 ... 4 |
|          |            | 5 ... 12 | 9 ... 12 | 6       |

\* FL ≥ 630

Extension |  $v > A$



| A        | Guide type | Br       |          |         |
|----------|------------|----------|----------|---------|
|          |            | E        | F        | L*      |
| 0 ... 25 |            | 2 ... 3  | 2 ... 4  | 2 ... 4 |
|          |            | 5 ... 12 | 9 ... 12 | 6       |

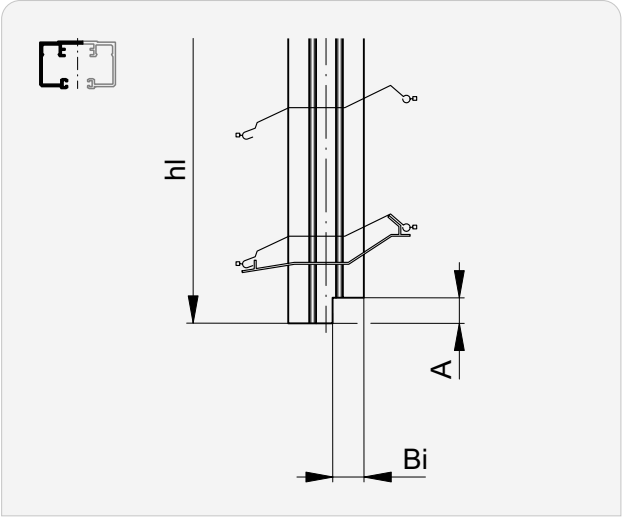
\* FL ≥ 630

v Guide rail extension: 0 ... 3000

►► Guide rail cut-outs in windowsill area

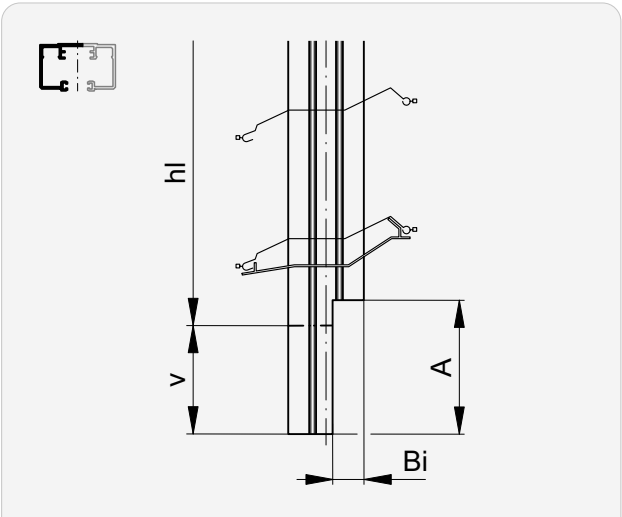
Inner cut-out | without / with extension

Without extension



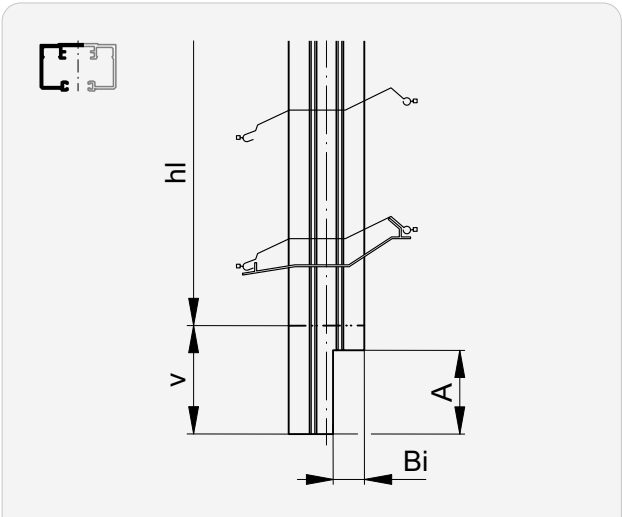
| A          | Guide type | Bi       |          |          |
|------------|------------|----------|----------|----------|
|            |            | E        | F        | L*       |
| 0 ... 25   |            | 6 ... 12 | 3 ... 10 | 8 ... 12 |
| * FL ≥ 630 |            |          |          |          |

Extension |  $v \leq A$



| A          | Guide type | Bi       |          |          |
|------------|------------|----------|----------|----------|
|            |            | E        | F        | L*       |
| 0 ... 25   |            | 6 ... 12 | 3 ... 10 | 8 ... 12 |
| * FL ≥ 630 |            |          |          |          |

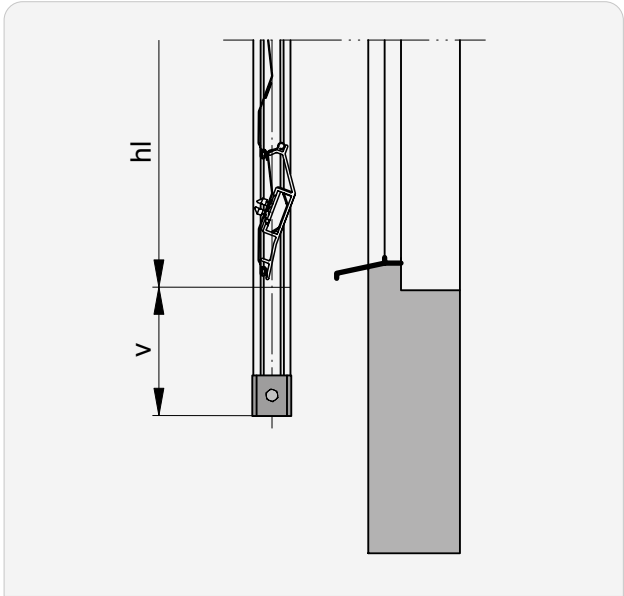
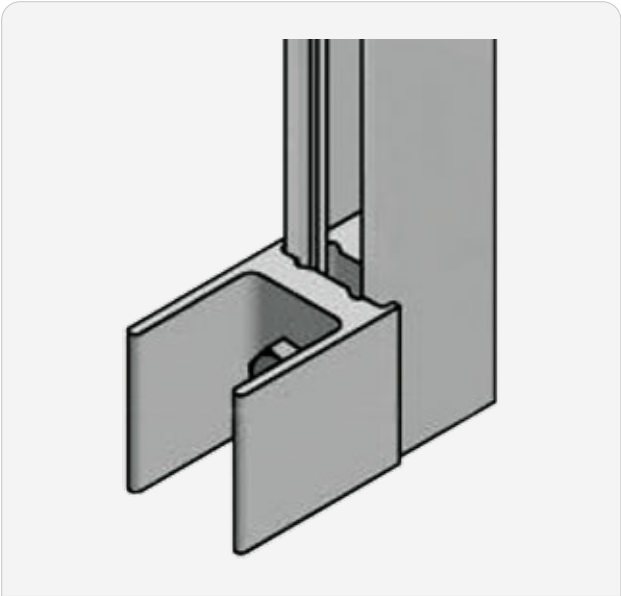
Extension |  $v > A$



| A          | Guide type | Bi       |          |          |
|------------|------------|----------|----------|----------|
|            |            | E        | F        | L*       |
| 0 ... 25   |            | 6 ... 12 | 3 ... 10 | 8 ... 12 |
| * FL ≥ 630 |            |          |          |          |

v Guide rail extension: 0 ... 3000

Guide rail end for suspended guide rails

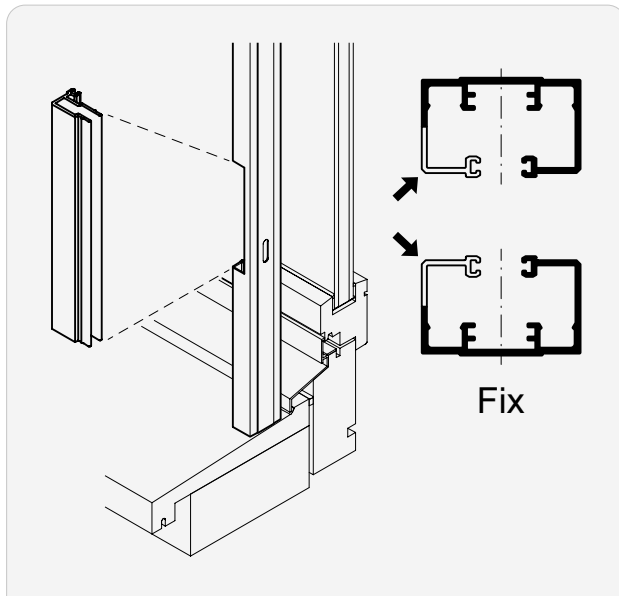


| Guide type |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|
| C          | D | E | F | L | R | T |
| ●          | ● | ● | ● | ● | ● | ● |

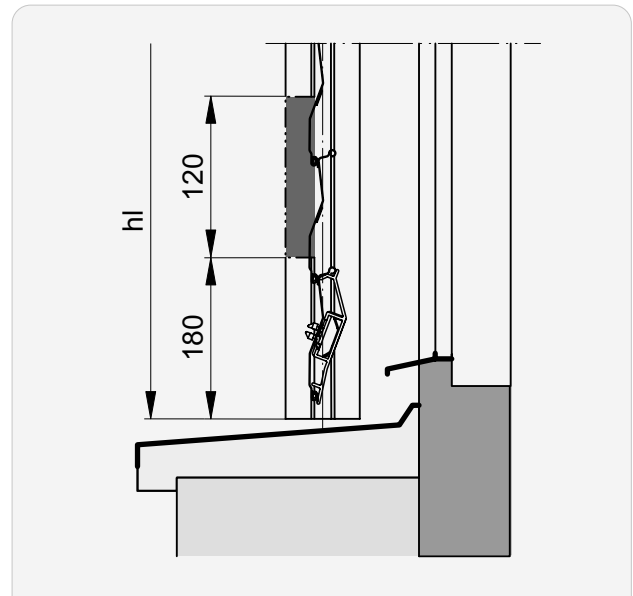
| L* | v   |
|----|-----|
| 70 | ≥30 |

\* Guide fastening with local brackets.

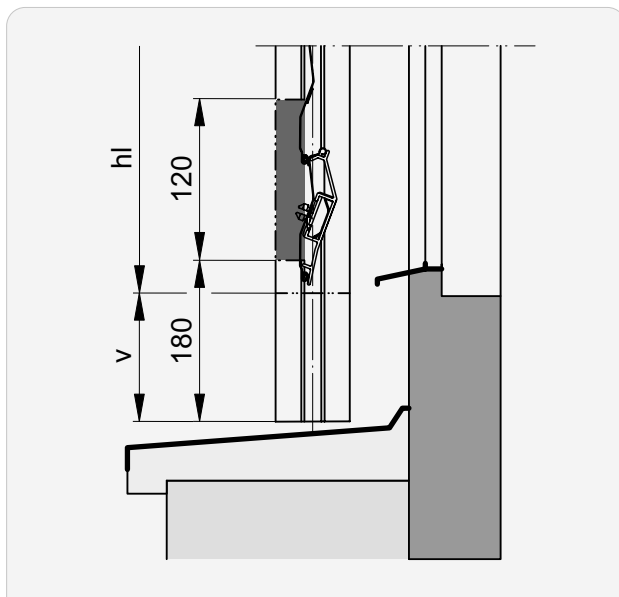
## Installation window



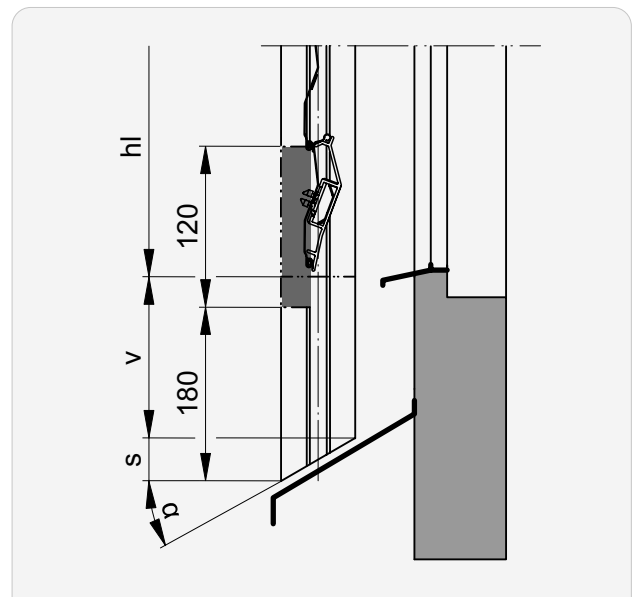
### Without extension



### With extension



### With extension and facet

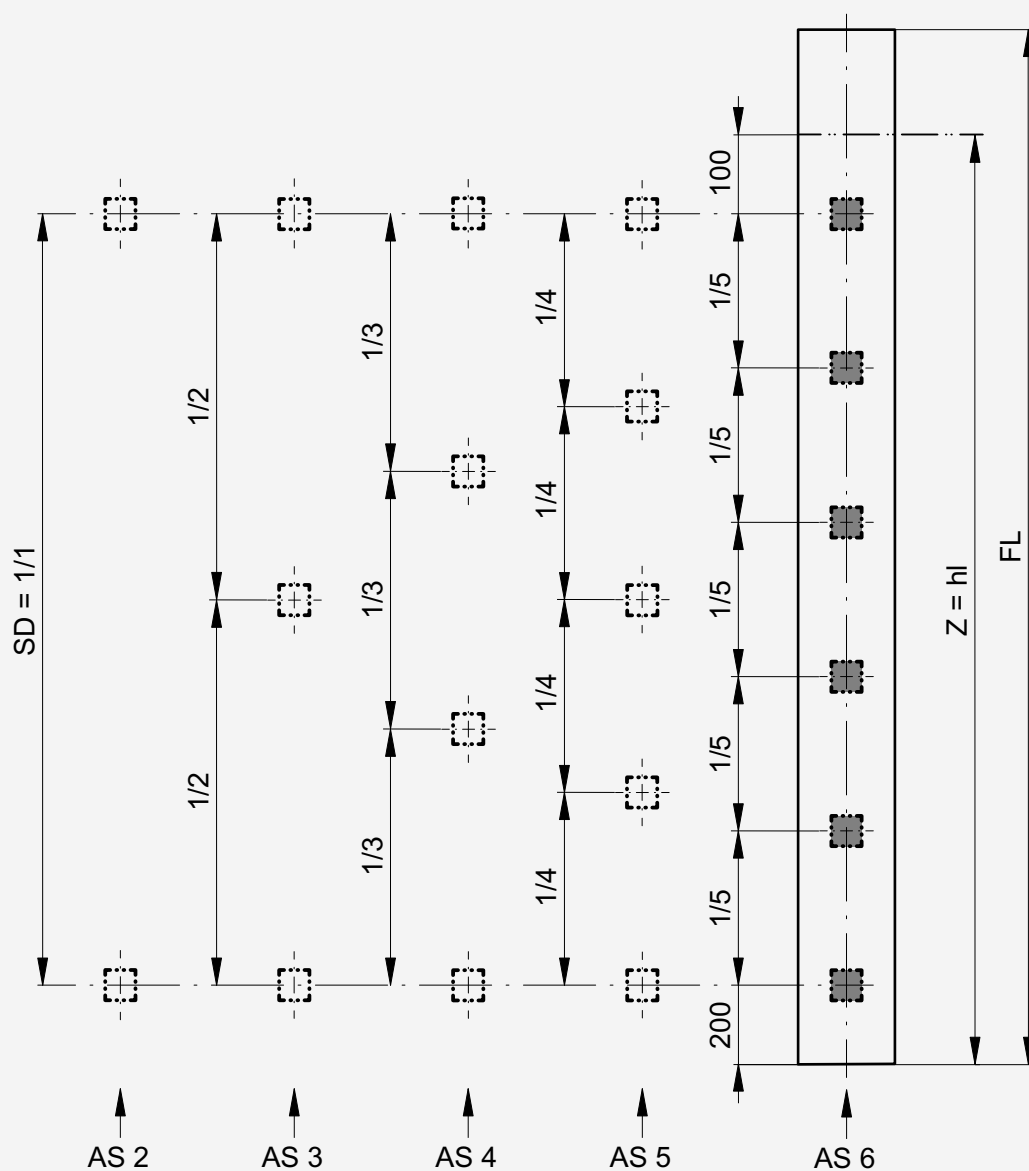


- s** Faceting (guide rail width x  $\tan \alpha$ )
- v** Guide rail extension: max. 3000

## Fastening points

### Without extension

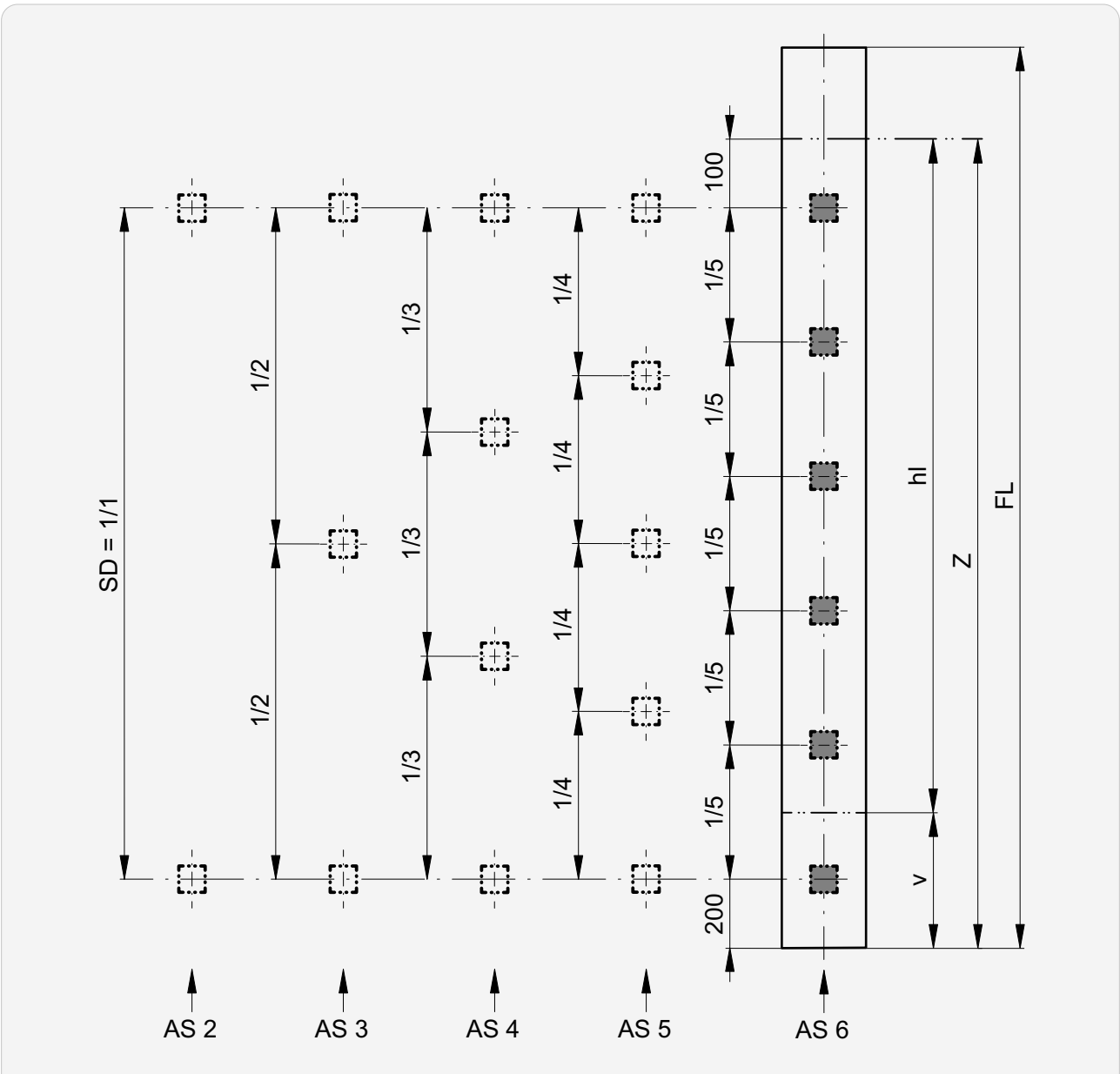
| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



►► Fastening points

With guide rail extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits  
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 3000

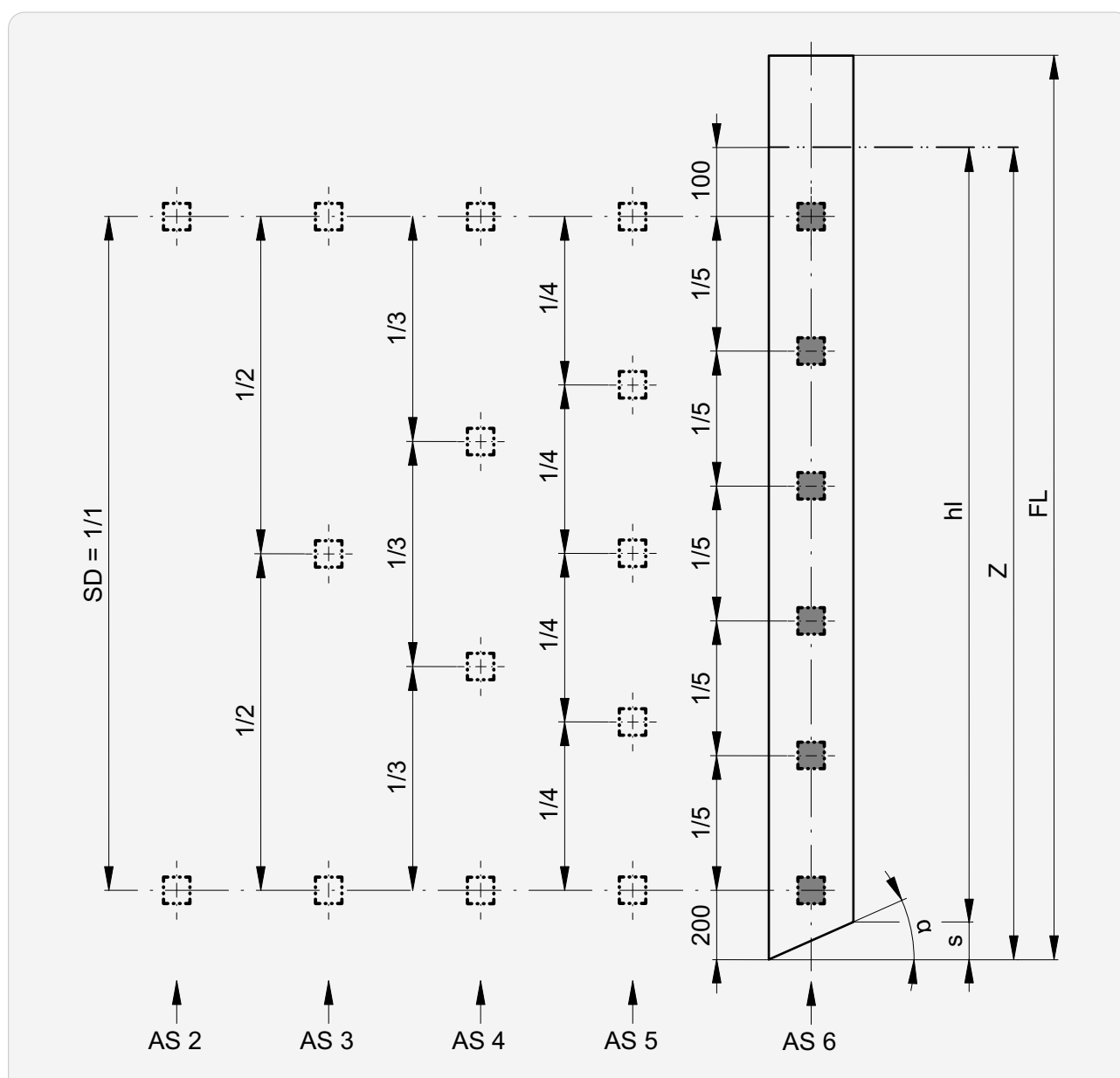
|                                   |     |
|-----------------------------------|-----|
| ► Guide extension and facet ..... | 106 |
| ► Guide rail fastenings.....      | 98  |

|                             |     |
|-----------------------------|-----|
| ► Installation window ..... | 112 |
|-----------------------------|-----|

## ►► Fastening points

### With facet

| <b>Z</b>    | <b>AS</b> |
|-------------|-----------|
| ≤1500       | 2         |
| 1501...2700 | 3         |
| 2701...3900 | 4         |
| 3901...5100 | 5         |
| >5100       | 6         |



**AS** Number of slits

**SD** Slot spacing: max. 1200

**s** Faceting (guide rail width x  $\tan \alpha$ )

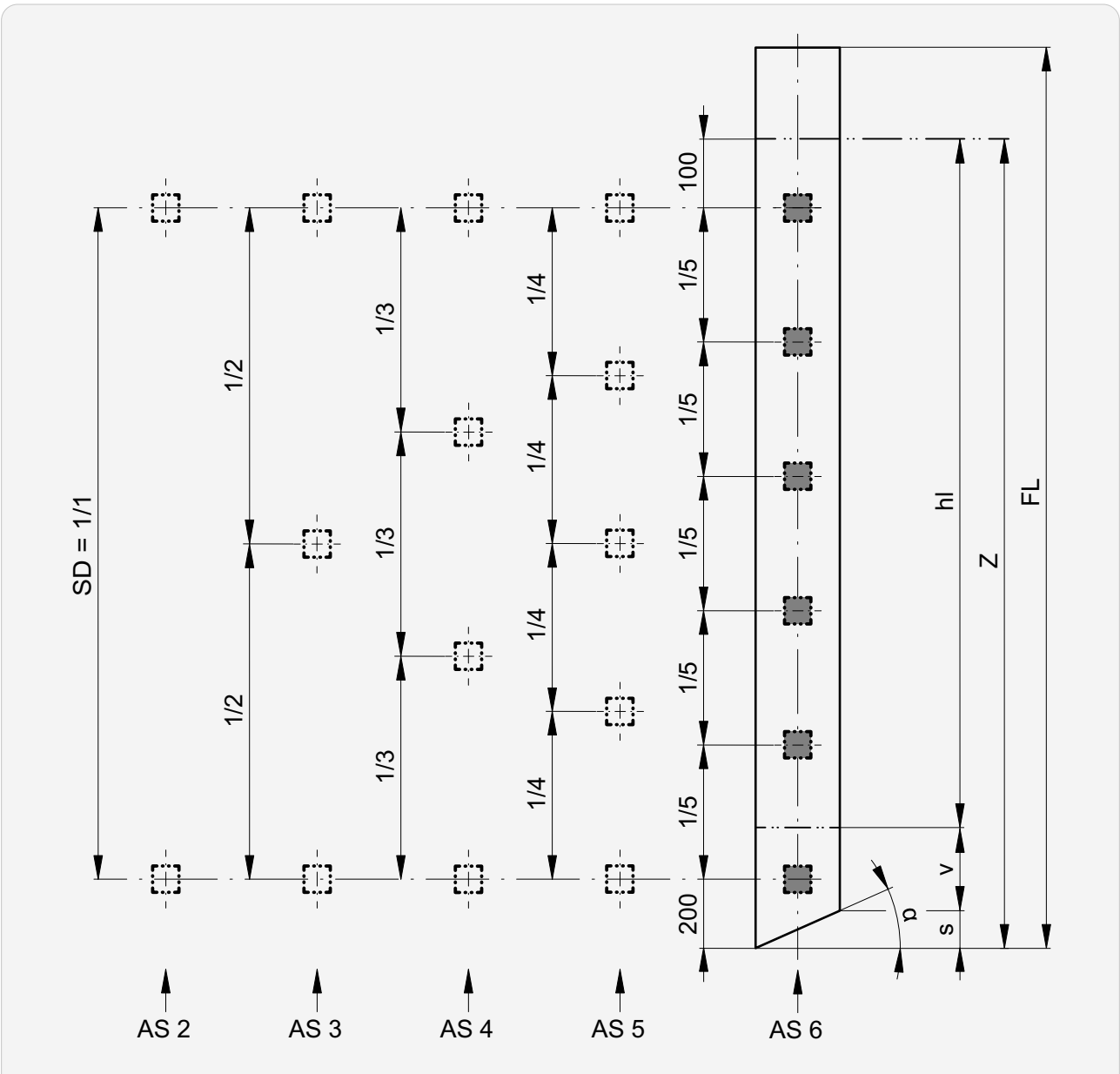
|                                   |     |
|-----------------------------------|-----|
| ► Guide extension and facet ..... | 106 |
| ► Guide rail fastenings .....     | 98  |

|                             |     |
|-----------------------------|-----|
| ► Installation window ..... | 112 |
|-----------------------------|-----|

►► Fastening points

With guide rail extension and facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**s** Faceting (guide rail width x  $\tan \alpha$ )

**SD** Slot spacing: max. 1200

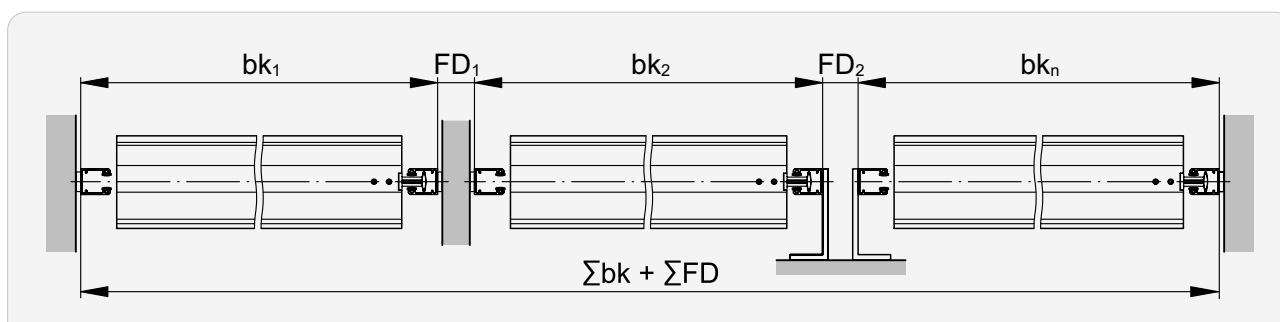
**v** Guide rail extension: max. 3000

|                                   |     |
|-----------------------------------|-----|
| ► Guide extension and facet ..... | 106 |
| ► Guide rail fastenings.....      | 98  |

|                             |     |
|-----------------------------|-----|
| ► Installation window ..... | 112 |
|-----------------------------|-----|

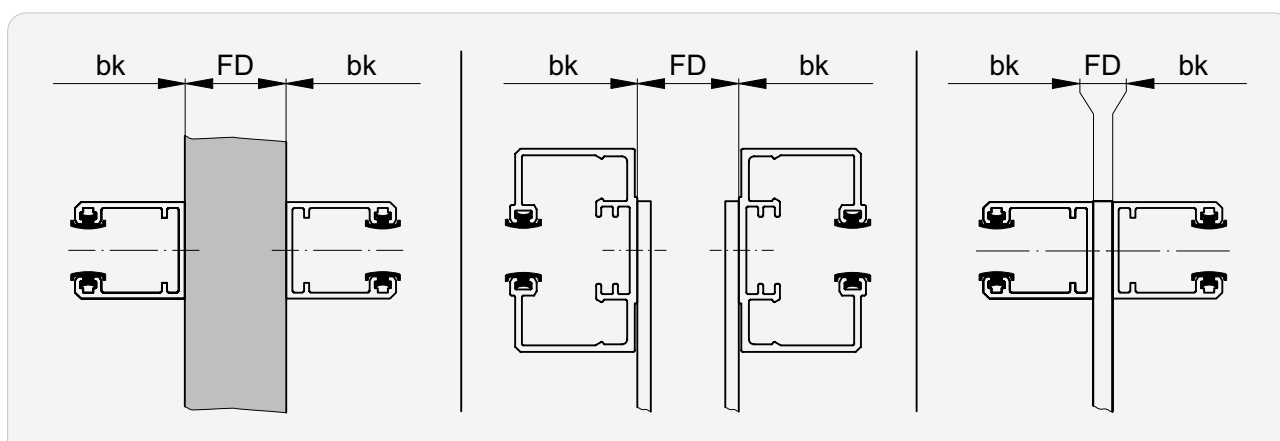
## Connected systems

### System width



### Distance between guides FD

#### Single guide | Fix guide



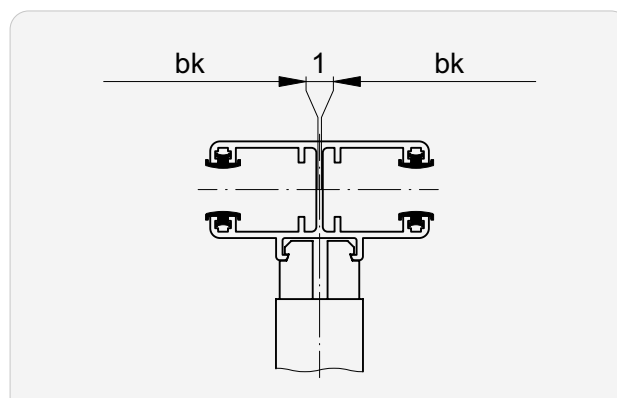
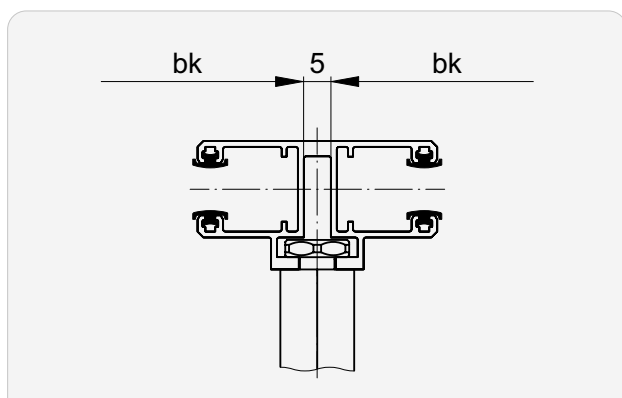
**FD min.**

5

**FD max.**

1000

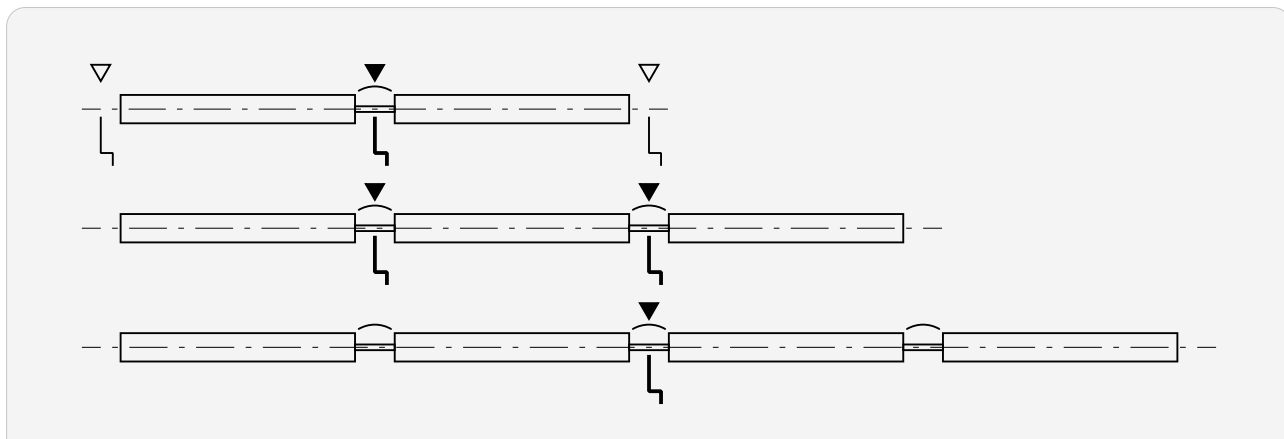
#### Double guide



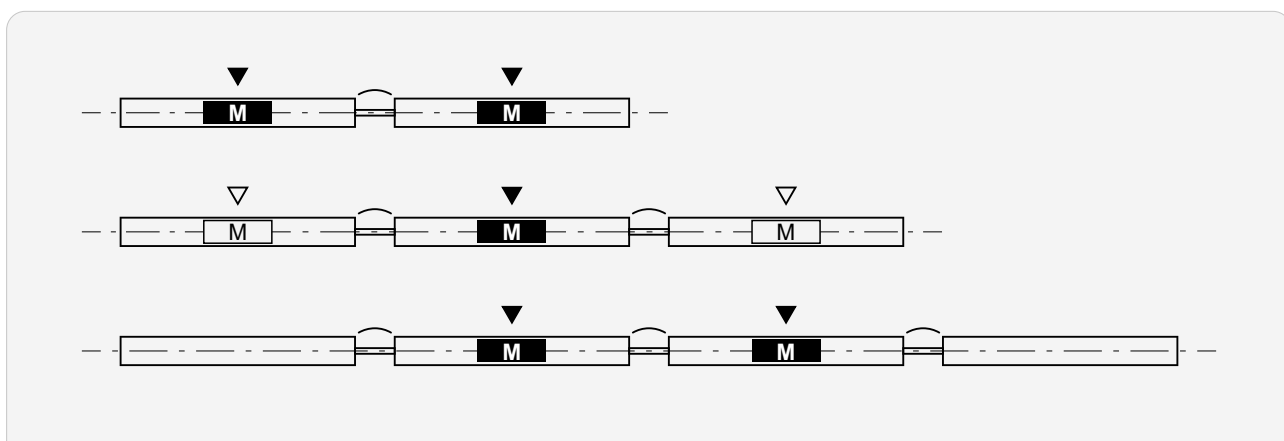
## ►► Connected systems

### Drive position

#### Gearbox



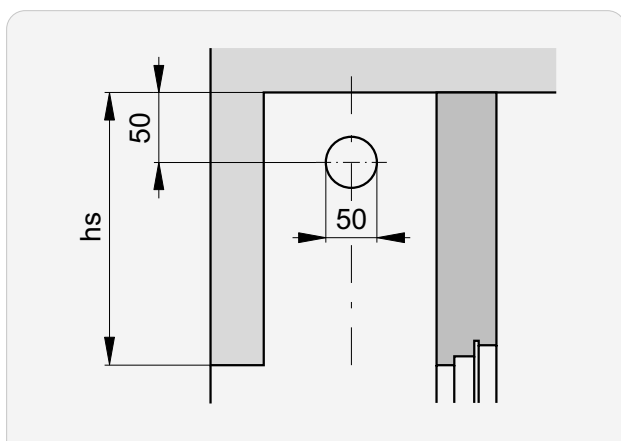
#### Motor



▼ Standard drive position

▽ Possible drive position

### Opening for connected blinds



## Technical data of motors

### Performance characteristics

| Type          |       | Limit switch |           | M    | n        | P   | I    |
|---------------|-------|--------------|-----------|------|----------|-----|------|
|               |       | Type         | Number of | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |       |              |           |      |          |     |      |
| Elero         |       |              |           |      |          |     |      |
| ES...         | 06.01 | mechanical   | 2         | 6    | 26       | 110 | 0.50 |
|               | 09.01 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.01 |              |           | 20   |          | 190 | 1.05 |
| ES...         | 06.51 | mechanical   | 3         | 6    | 26       | 110 | 0.50 |
|               | 09.51 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.51 |              |           | 20   |          | 190 | 1.05 |
| Option        |       |              |           |      |          |     |      |
| Somfy         |       |              |           |      |          |     |      |
| SH...         | 06.01 | mechanical   | 2         | 6    | 24       | 95  | 0.40 |
|               | 10.01 |              |           | 10   |          | 110 | 0.65 |
|               | 18.01 |              |           | 18   |          | 155 | 1.00 |
| SW...         | 06.01 | electronic   | 2         | 6    | 24       | 95  | 0.40 |
| SI...         | 10.01 |              |           | 10   |          | 110 | 0.65 |
| SR...         | 18.01 |              |           | 18   |          | 155 | 1.00 |
| Elero Comfort |       |              |           |      |          |     |      |
| ECM...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| ECB...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| Geiger AIR    |       |              |           |      |          |     |      |
| GA...         | 06.01 | electronic   | 2         | 6    | 26       | 93  | 0.40 |
|               | 06.10 |              |           | 10   |          | 135 | 0.60 |
|               | 06.20 |              |           | 20   |          | 190 | 0.85 |

**I** Current consumption

**M** Torque

**n** Rotational speed

**P** Power consumption



# Lamisol® III System

|                                                |     |
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## Limit dimensions Lamisol® III System Profil

### Single blind

| Operation   | Width min.<br>(bk)                                    | Width <sup>1</sup> max.<br>(bk)     | Height min.<br>(hl)               | Height max.<br>(hl)                                      | Surface max.<br>[m <sup>2</sup> ] |
|-------------|-------------------------------------------------------|-------------------------------------|-----------------------------------|----------------------------------------------------------|-----------------------------------|
| Motor drive | 600 <sup>3</sup> 500 <sup>4</sup><br>630 <sup>2</sup> | 4500 <sup>3</sup> 4550 <sup>4</sup> | 400 <sup>3</sup> 380 <sup>4</sup> | 4300 <sup>3</sup> 5000 <sup>4</sup><br>4000 <sup>2</sup> | 10                                |

## Limit dimensions Lamisol® III System Box

### Single blind

| Operation   | Width min.<br>(bk)                                    | Width <sup>1</sup> max.<br>(bk) | Height min.<br>(gh) | Height max.<br>(gh)                                | Surface max.<br>[m <sup>2</sup> ] |
|-------------|-------------------------------------------------------|---------------------------------|---------------------|----------------------------------------------------|-----------------------------------|
| Motor drive | 600 <sup>3</sup> 500 <sup>4</sup><br>630 <sup>2</sup> | 4000                            | 590                 | 4700<br>4379 <sup>2,3</sup><br>4344 <sup>2,4</sup> | 10                                |

<sup>1</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

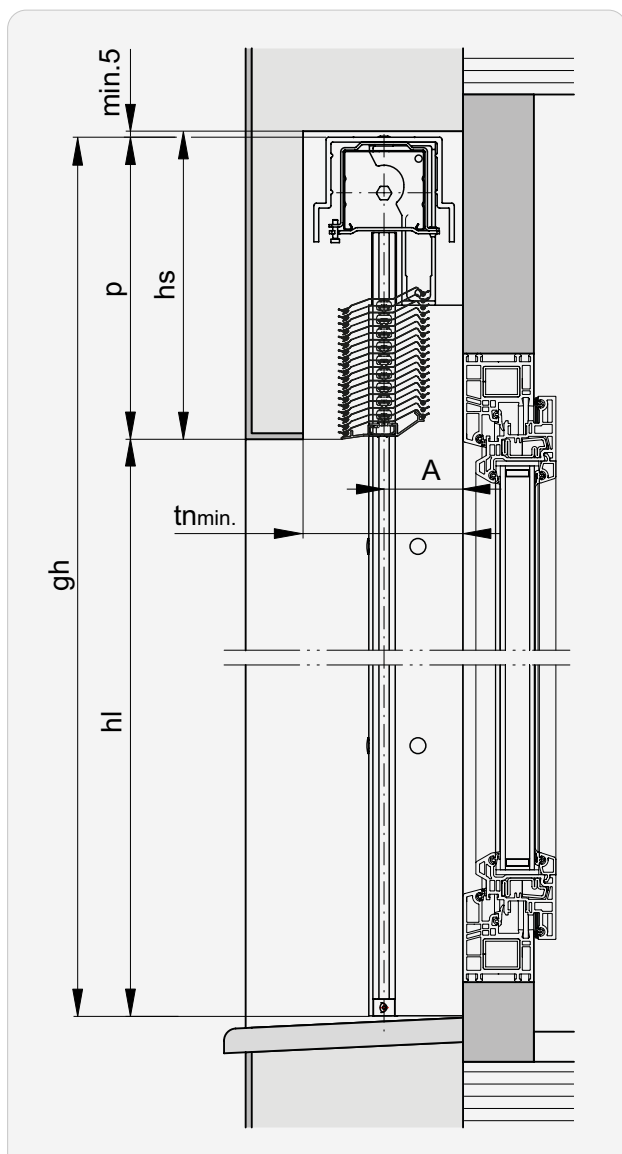
<sup>2</sup> Radio motor Geiger AIR

<sup>3</sup> Lamisol® III 70 System

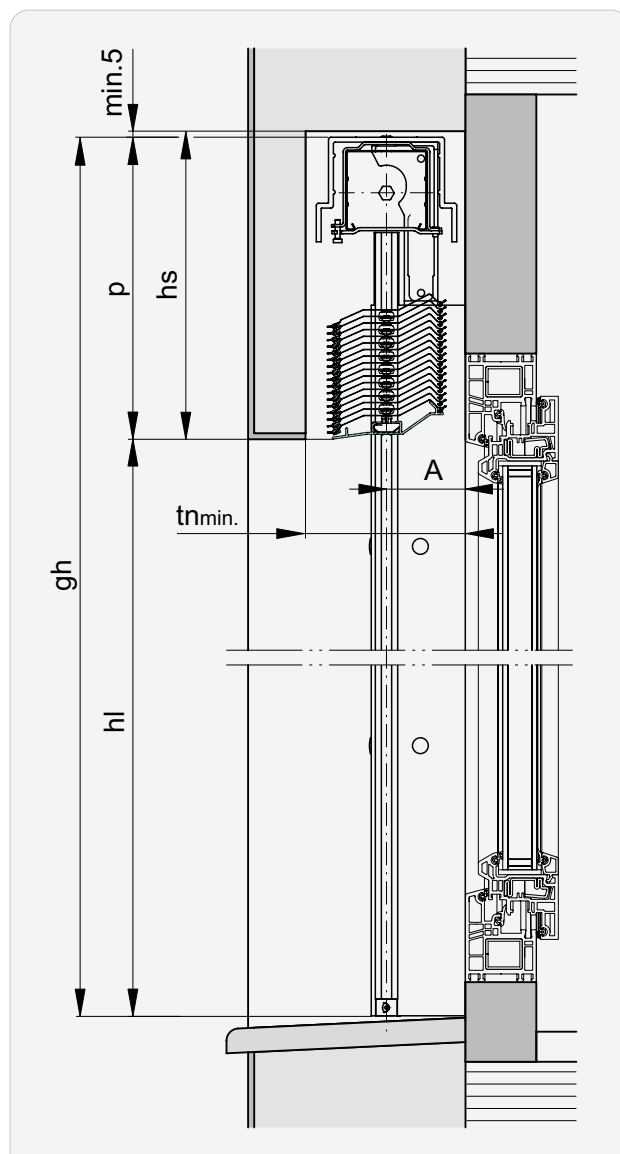
<sup>4</sup> Lamisol® III 90 System

## Built-in System

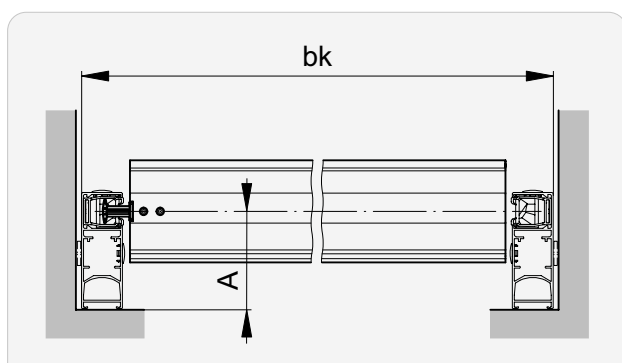
Vertical section: Lamisol® III 70 System Profil



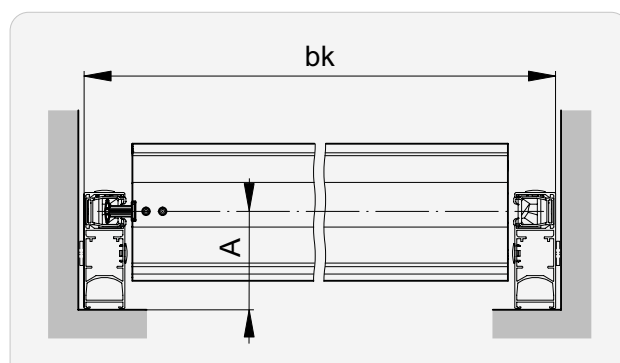
Vertical section: Lamisol® III 90 System Profil



Horizontal section: Lamisol® III 70 System Profil

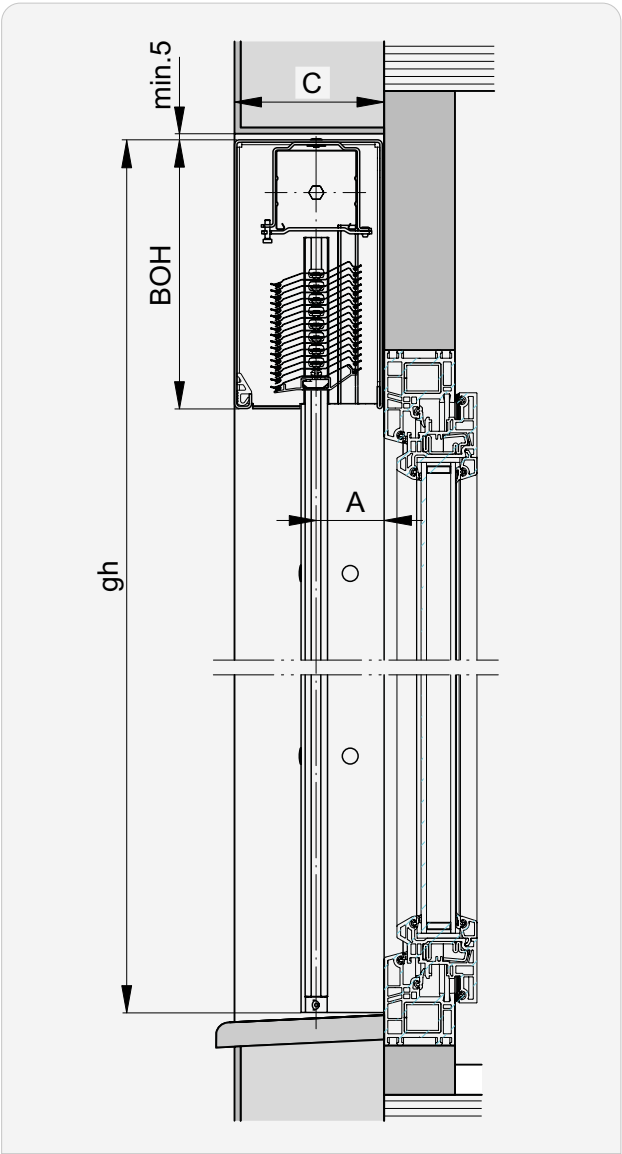


Horizontal section: Lamisol® III 90 System Profil



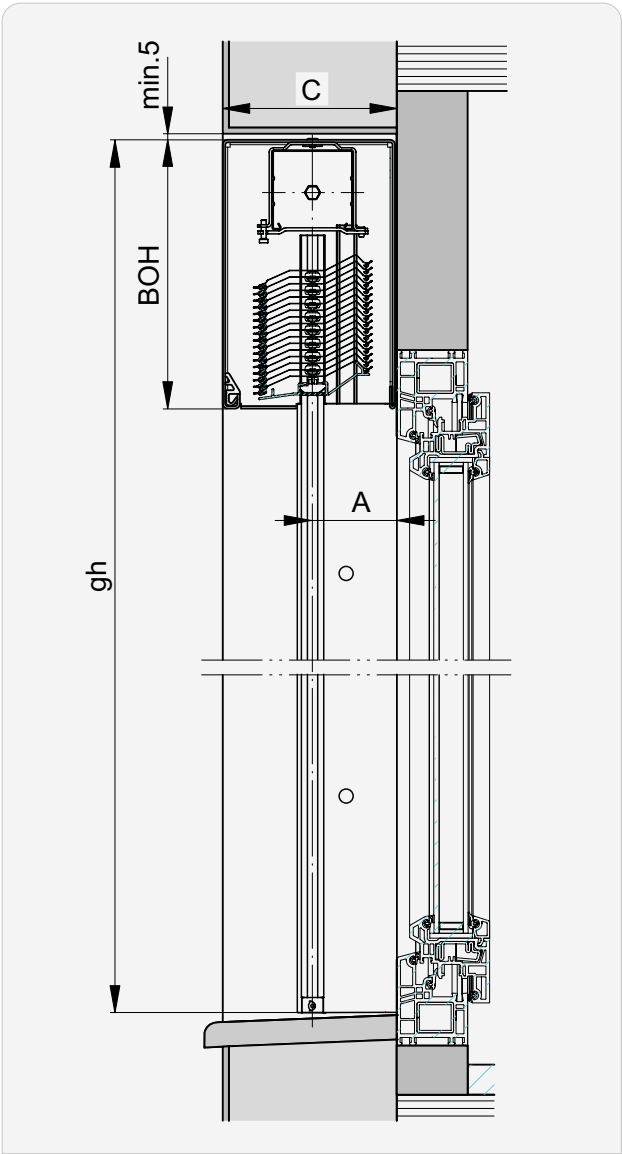
Installation system with box

Horizontal section: Lamisol® III 70 System Box



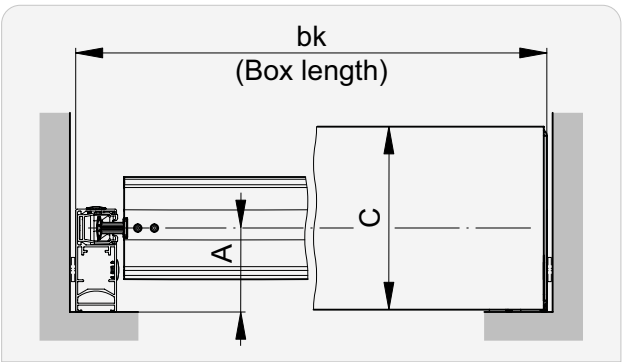
Box with slat package covered

Vertical section: Lamisol® III 90 System Box

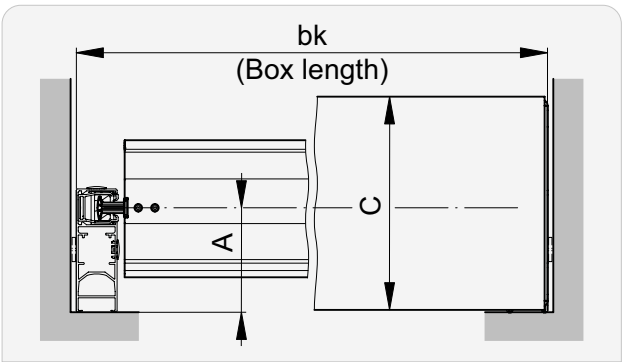


Box with slat package covered

Vertical section: Lamisol® III 70 System Box



Horizontal section: Lamisol® III 90 System Box



## Header dimensions | Heights of package

## Lamisol® III 70 System Profil

| hl →l       | P min. | hs  | hl →l       | P min. | hs  |
|-------------|--------|-----|-------------|--------|-----|
| <b>1750</b> | 230    | 235 | <b>3250</b> | 330    | 335 |
| <b>2000</b> | 245    | 250 | <b>3500</b> | 345    | 350 |
| <b>2250</b> | 260    | 265 | <b>3750</b> | 360    | 365 |
| <b>2500</b> | 280    | 285 | <b>4000</b> | 380    | 385 |
| <b>2750</b> | 295    | 300 | <b>4250</b> | 395    | 400 |
| <b>3000</b> | 310    | 315 | <b>4300</b> | 415    | 420 |

| tn min. | A    |
|---------|------|
| 130*    | 64.5 |

## Lamisol® III 90 System Profil

| hl →l       | P min. | hs  | hl →l       | P min. | hs  |
|-------------|--------|-----|-------------|--------|-----|
| <b>1750</b> | 220    | 225 | <b>3250</b> | 300    | 305 |
| <b>2000</b> | 230    | 235 | <b>3500</b> | 315    | 320 |
| <b>2250</b> | 240    | 250 | <b>3750</b> | 325    | 330 |
| <b>2500</b> | 255    | 260 | <b>4000</b> | 345    | 350 |
| <b>2750</b> | 270    | 275 | <b>4250</b> | 355    | 360 |
| <b>3000</b> | 285    | 290 | <b>4300</b> | 370    | 375 |

| tn min. | A    |
|---------|------|
| 130*    | 64.5 |

## Lamisol® III 70 System Box

| gh →l       | P   | BOH              | C   | A    |
|-------------|-----|------------------|-----|------|
| <b>1440</b> | 188 | 190              |     |      |
| <b>1920</b> | 218 | 220              |     |      |
| <b>2510</b> | 258 | 260              | 121 | 55.5 |
| <b>3200</b> | 298 | 300              |     |      |
| <b>4700</b> |     | 300 <sup>1</sup> |     |      |

## Lamisol® III 90 System Box

| gh →l       | P   | BOH              | C   | A  |
|-------------|-----|------------------|-----|----|
| <b>2120</b> | 218 | 220              |     |    |
| <b>2860</b> | 258 | 260              |     |    |
| <b>3650</b> | 298 | 300              | 141 | 69 |
| <b>4660</b> |     | 300 <sup>1</sup> |     |    |

<sup>1</sup> Slat package not covered (package projection)

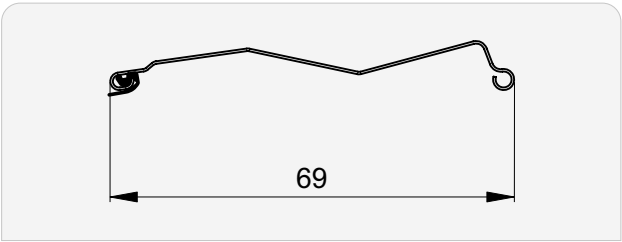
\* + possible addition for protruding weatherboard or doorknobs.



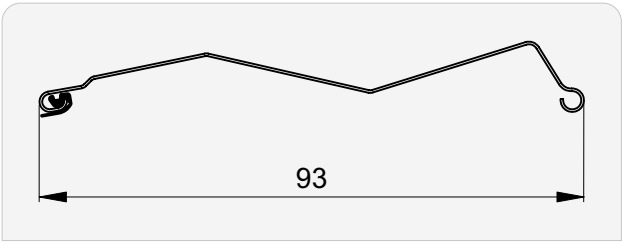
Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

Slat profiles

Lamisol® III 70 System

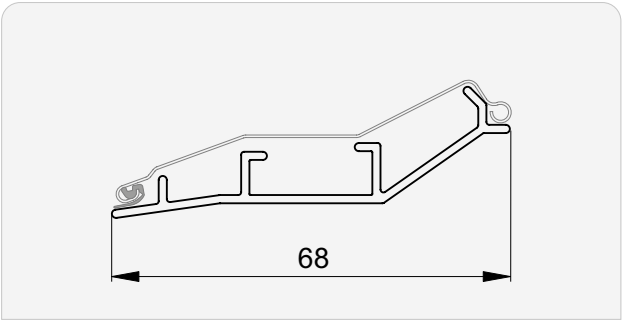


Lamisol® III 90 System

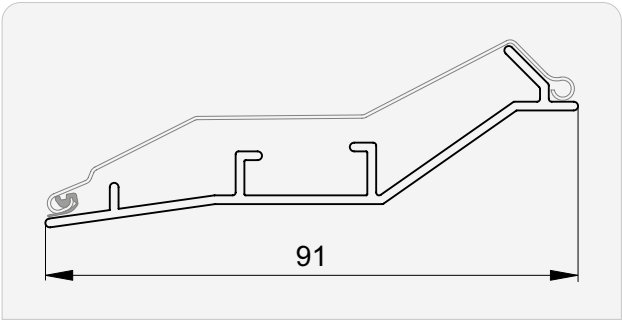


End rails

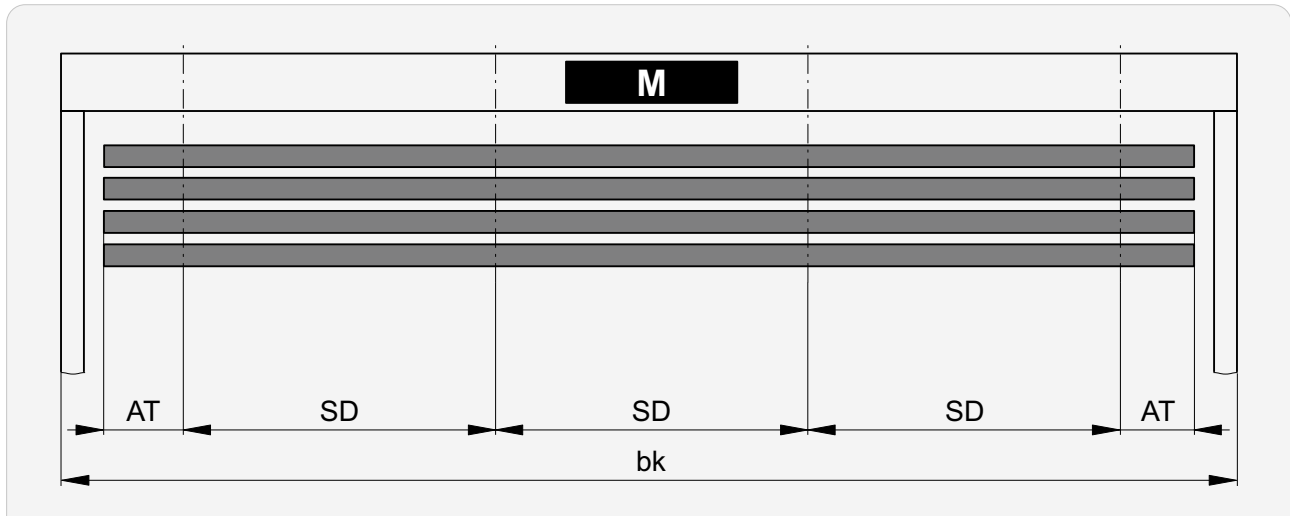
Lamisol® III 70 System



Lamisol® III 90 System



## Beginning distance | Slot spacing



| bk         | AT min. | SD min. | SD max. |
|------------|---------|---------|---------|
| ≤610       | 50      |         |         |
| 611...1250 | 100     | 350*    | 1000*   |
| >1250      | 200     |         |         |
| Special    | 250     |         |         |

\* Standard slot spacing machine fabrication

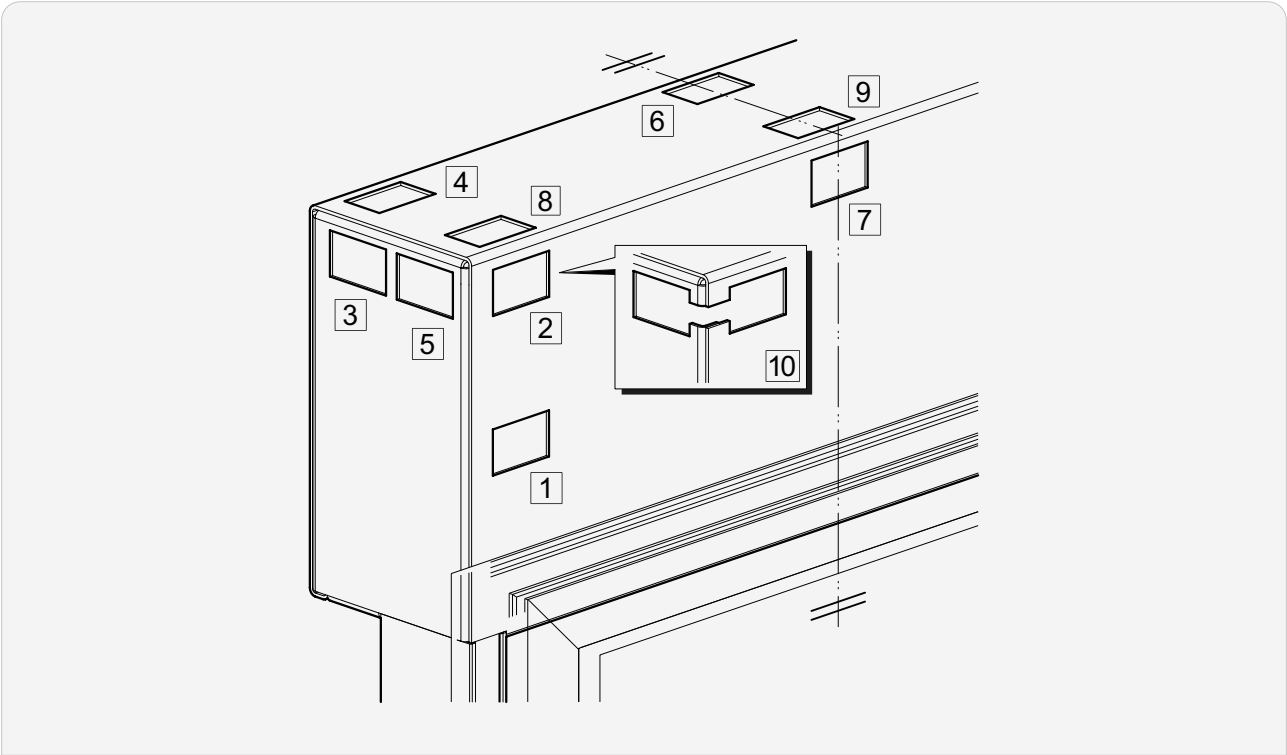
Deviations from the standard are possible when:

| Deviation                | Correction |
|--------------------------|------------|
| Support loading too high | AS         |
| Slot spacing < 350       | AT + AS    |
| With motor               | AT + AS    |

**AT** Beginning distance  
Distance from beginning of slot to centre of bearing

**SD** Slot spacing  
Distance from centre of bearing (slot) to centre of bearing (slot)

# Orientation of cable outlet



## Lamisol® III 70 System

| Position | Cable outlet |          |          |          |          |          |          |          |          |           |
|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|          | Type         |          |          |          |          |          |          |          |          |           |
|          | <b>1</b>     | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> |
| left     | 01L          | 02L*     | 03L      | 04L      | 05L      | –        | –        | 08L*     | –        | 10L       |
| centre   | –            | –        | –        | –        | –        | 06M      | 07M*     | –        | 09M*     | –         |
| right    | 01R          | 02R*     | 03R      | 04R      | 05R      | –        | –        | 08R*     | –        | 10R       |

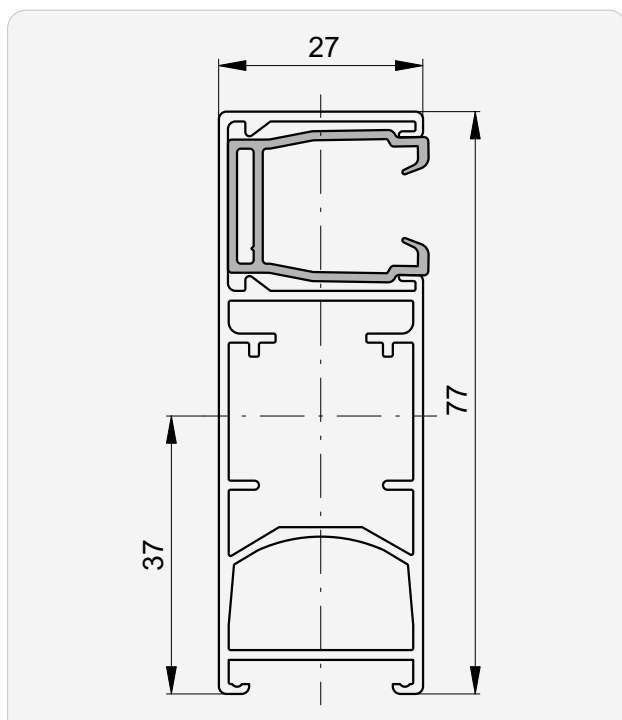
## Lamisol® III 90 System

| Position | Cable outlet |          |          |          |          |          |          |          |          |           |
|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|          | Type         |          |          |          |          |          |          |          |          |           |
|          | <b>1</b>     | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> |
| left     | 01L          | 02L*     | 03L      | 04L      | 05L      | –        | –        | 08L      | –        | 10L       |
| centre   | –            | –        | –        | –        | –        | 06M      | 07M*     | –        | 09M      | –         |
| right    | 01R          | 02R*     | 03R      | 04R      | 05R      | –        | –        | 08R      | –        | 10R       |

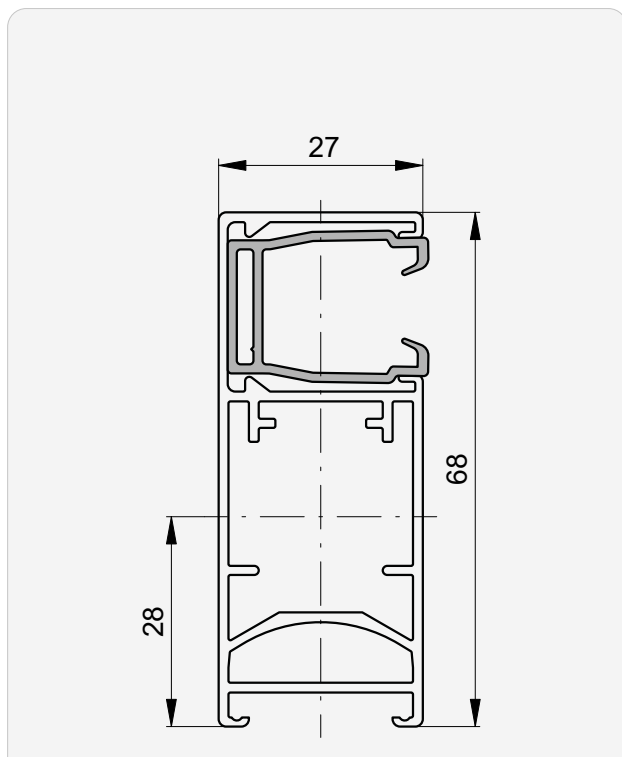
**! \*The plug cannot be passed through when assembled!**

## Guide rails

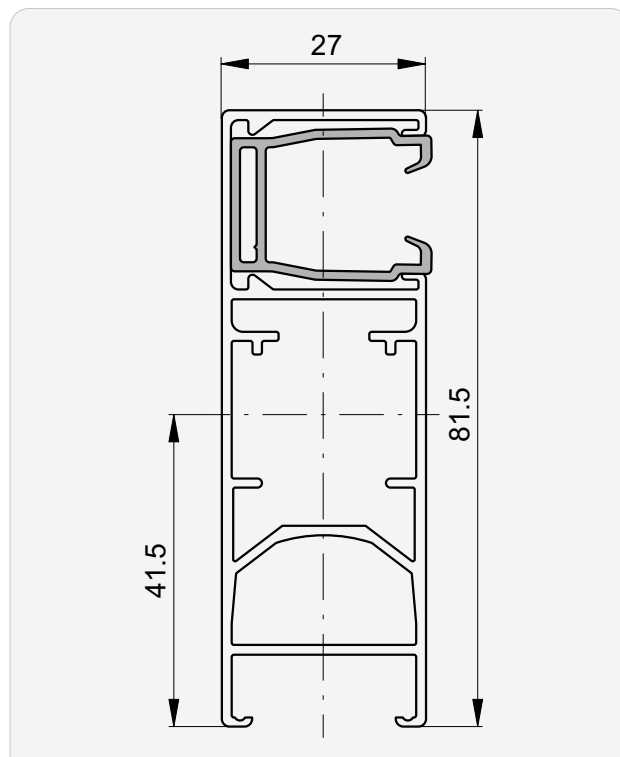
### Type P | Lamisol® III System Profil



### Type K | Lamisol® III 70 System Box



### Type B | Lamisol® III 90 System Box

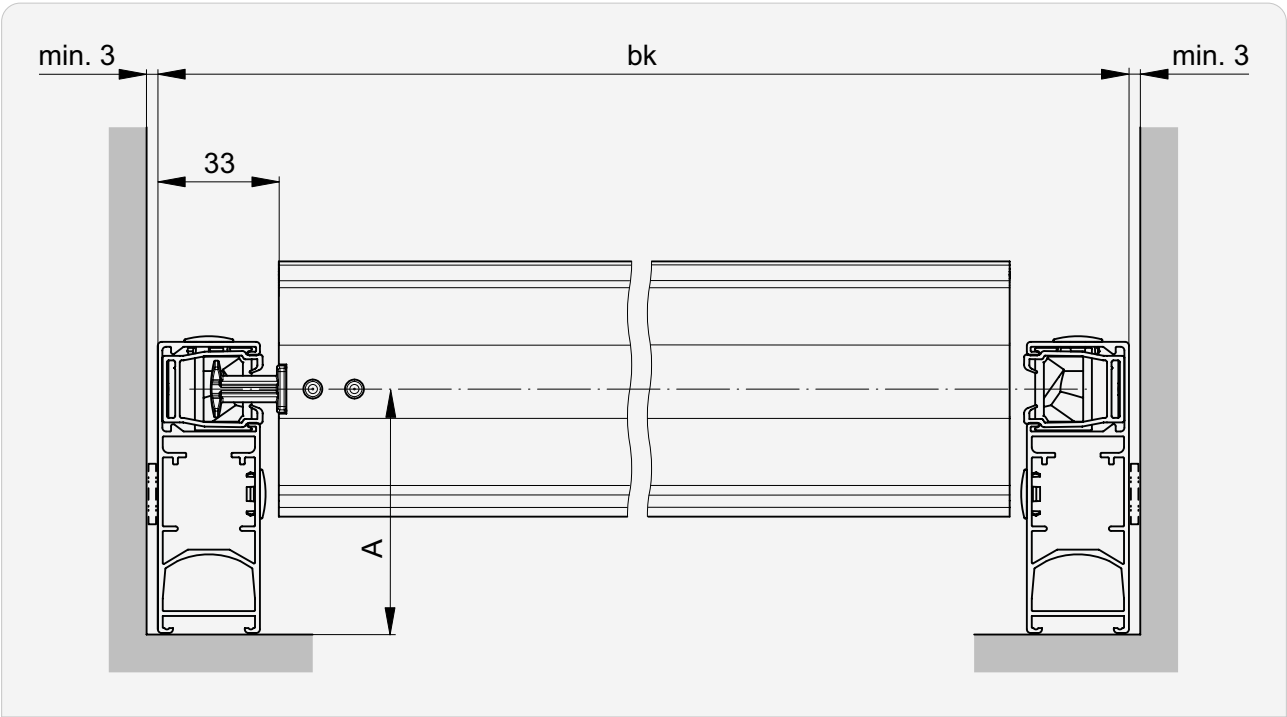


|                                   |           |
|-----------------------------------|-----------|
| ➡ Fastening points.....           | 141   145 |
| ➡ Guide extension and facet ..... | 139       |

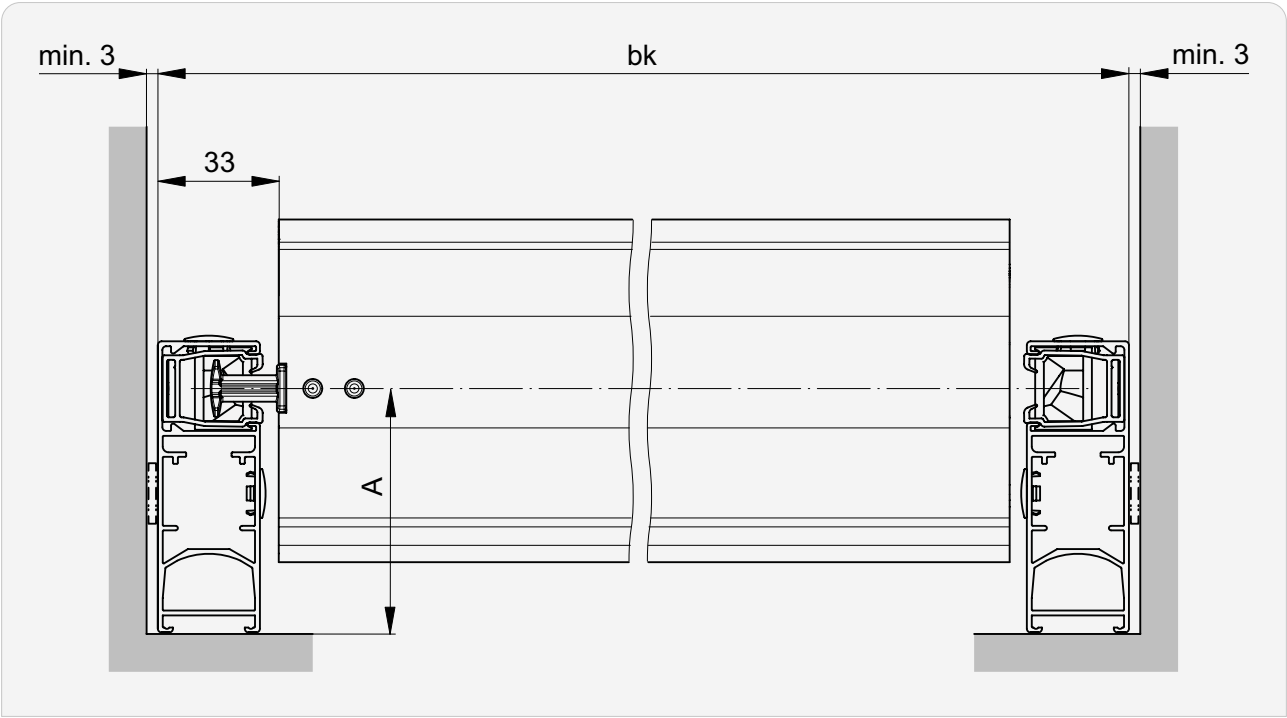
|                              |     |
|------------------------------|-----|
| ➡ Guide rail fastenings..... | 138 |
|------------------------------|-----|

Sections | Details

Horizontal section: Lamisol® III 70 System Profil



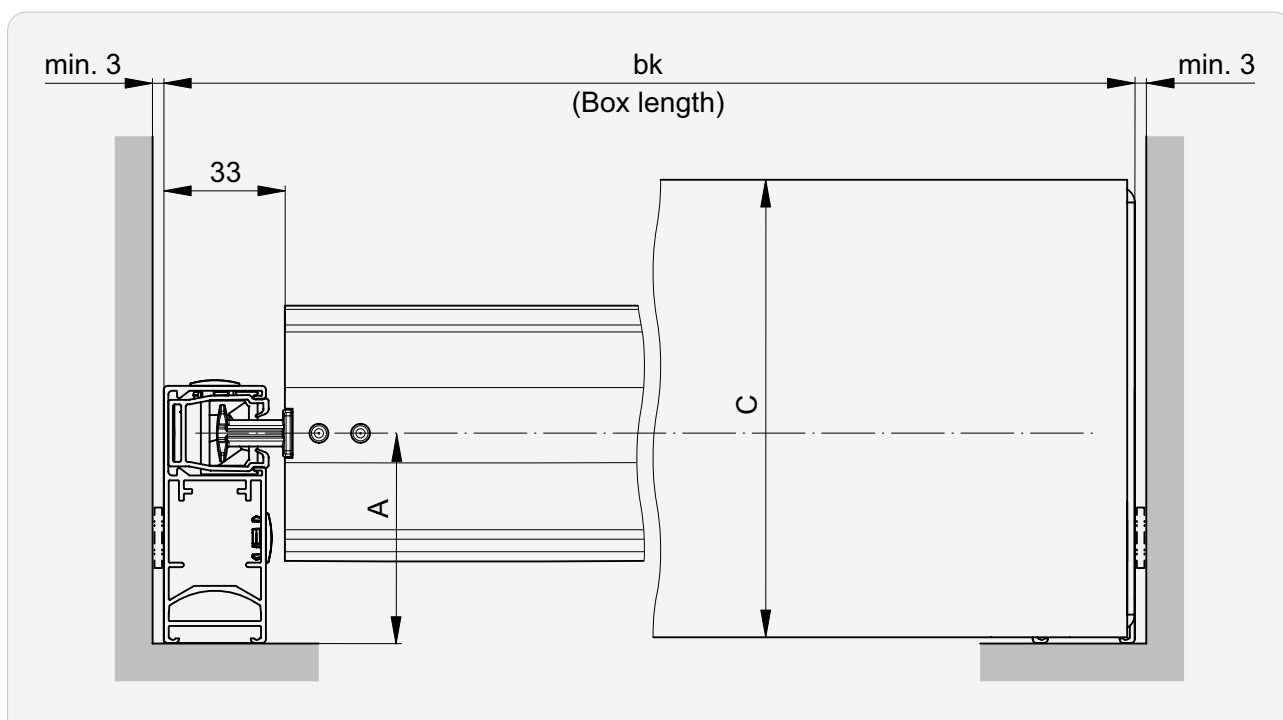
Horizontal section: Lamisol® III 90 System Profil



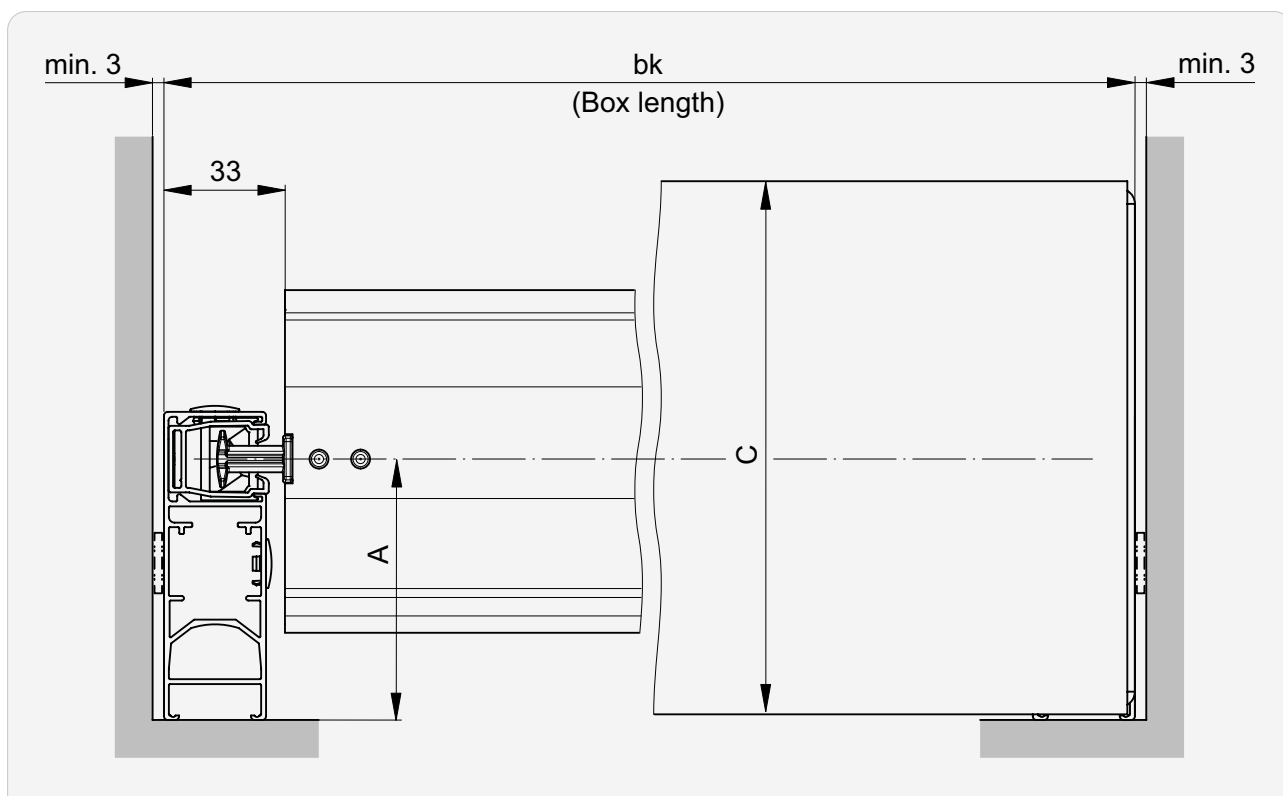
➡ Value for A .....125

## ► Sections | Details

### Horizontal section: Lamisol® III 70 System Box



### Horizontal section: Lamisol® III 90 System Box

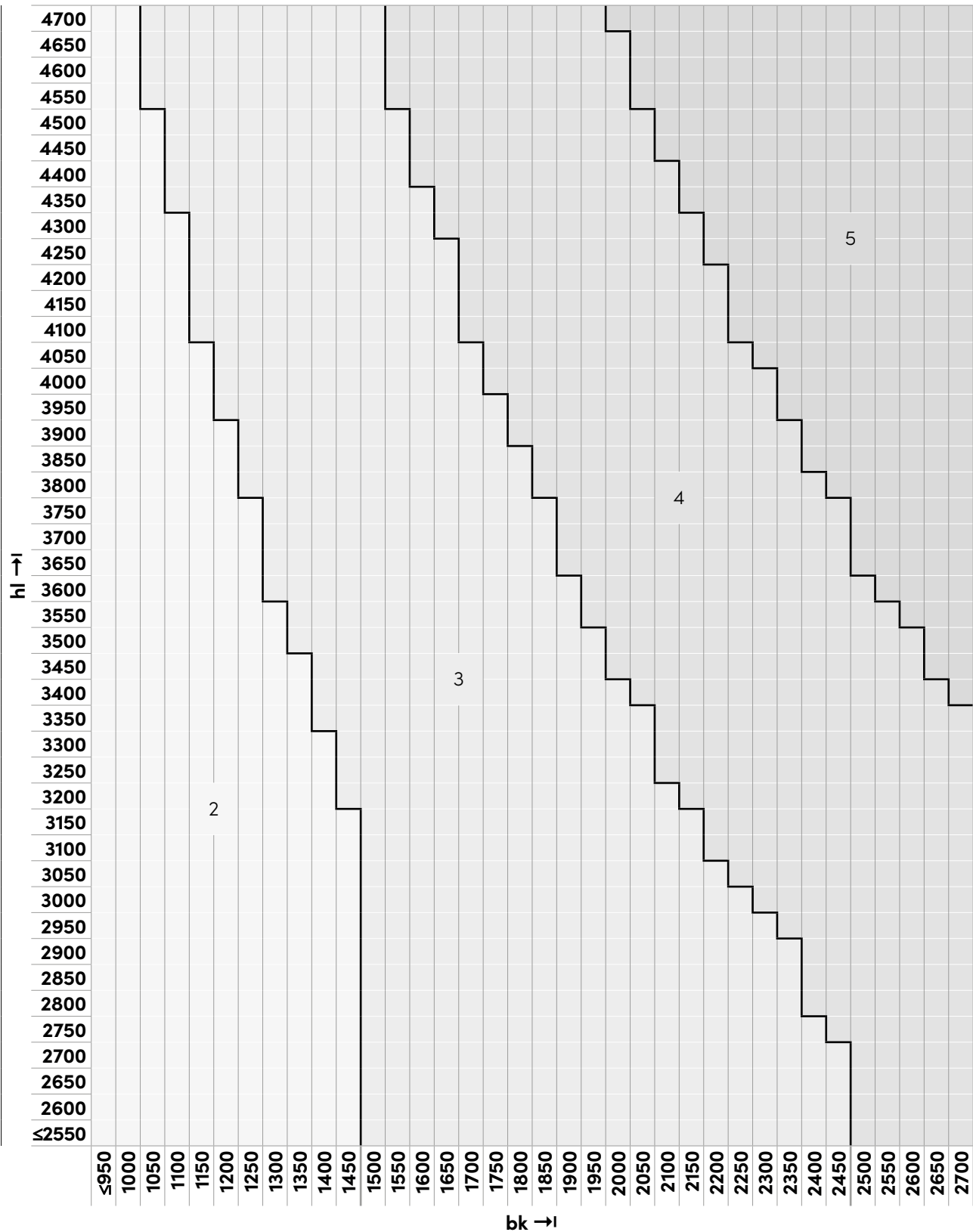


➡ Values for **A** and **C** .....125

Vertical connections | Standard motor position

Number of bearings

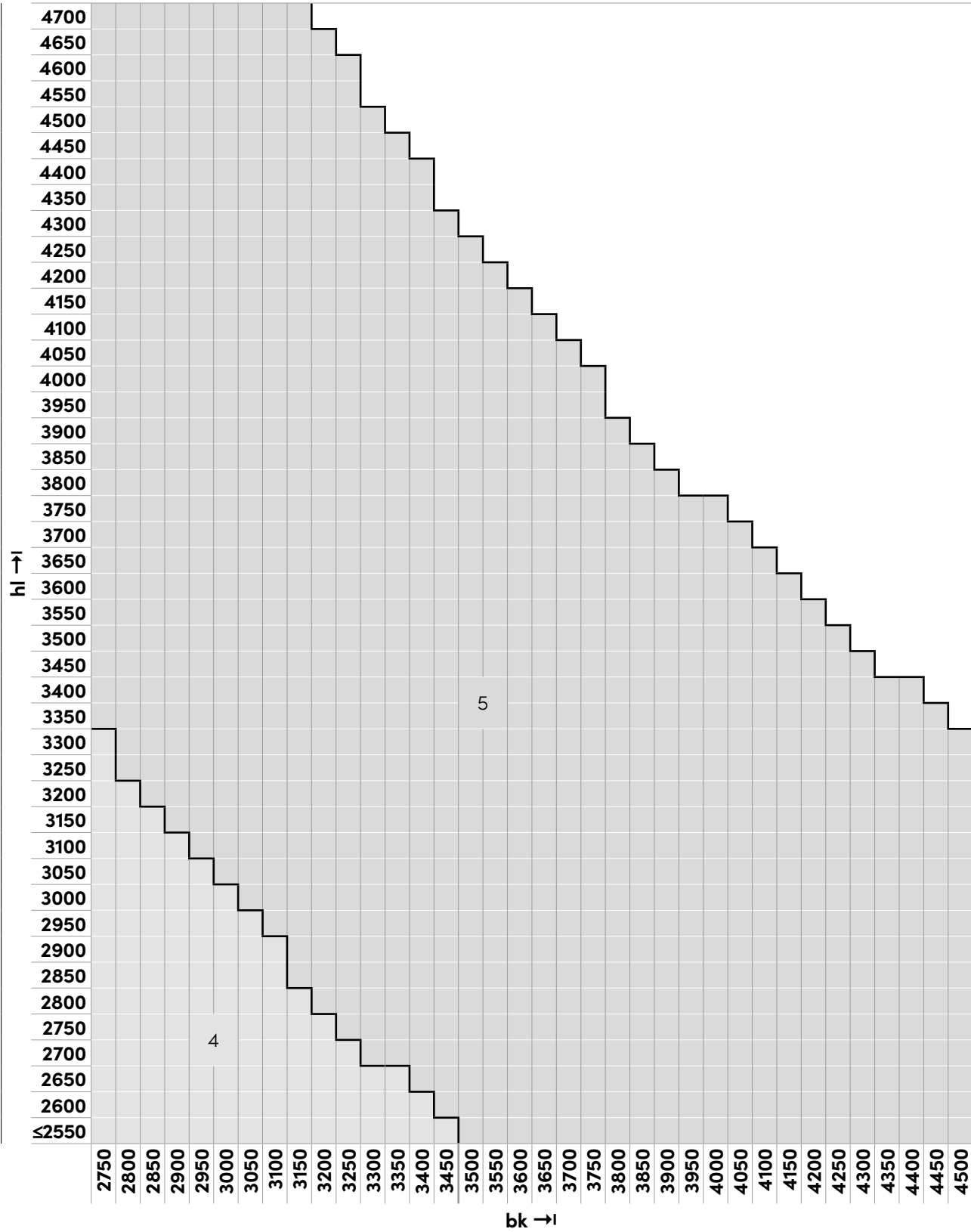
Lamisol® III 70 System



►► Vertical connections | Standard motor position

Number of bearings

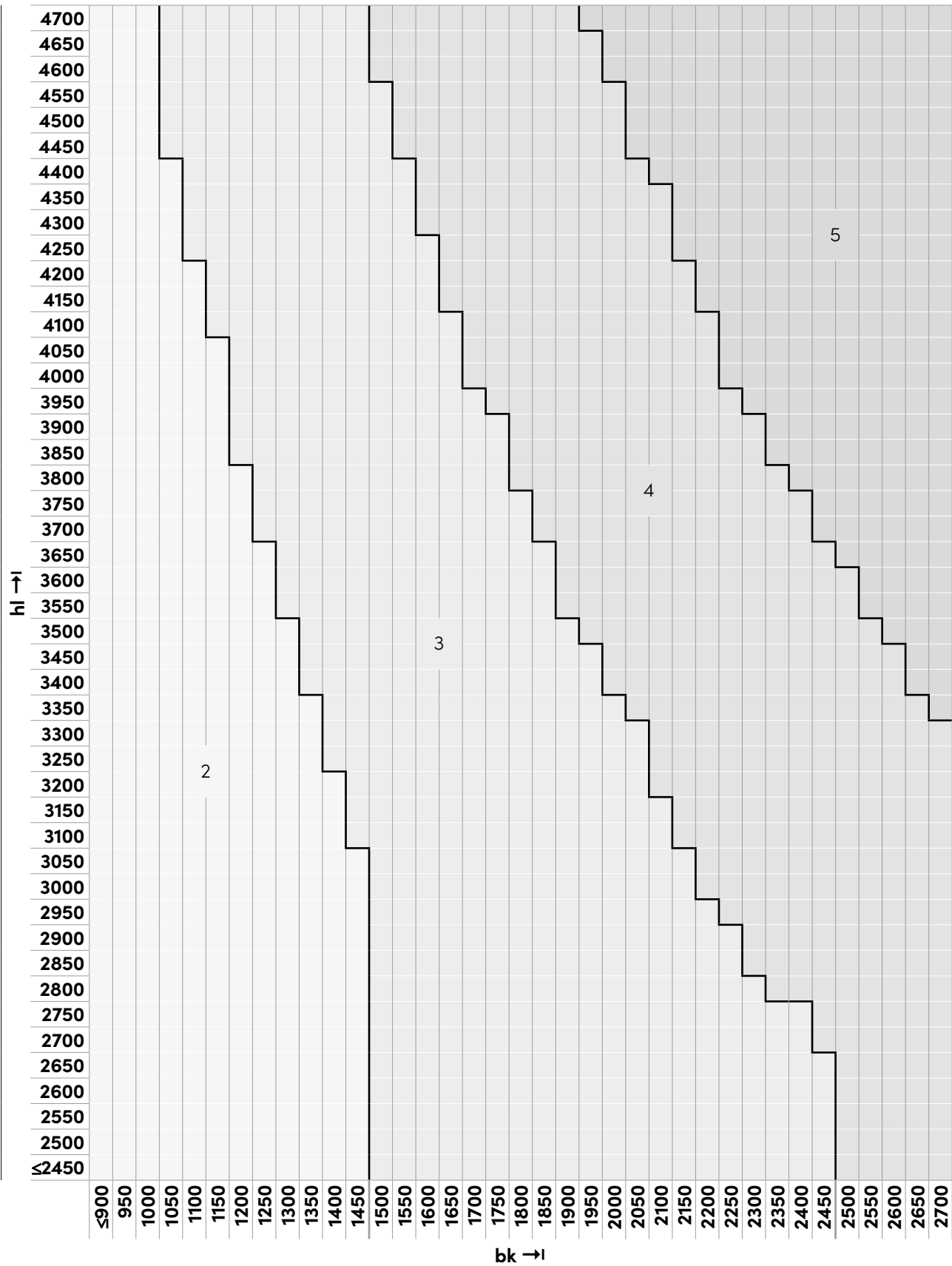
Lamisol® III 70 System



►► Vertical connections | Standard motor position

Number of bearings

Lamisol® III 90 System

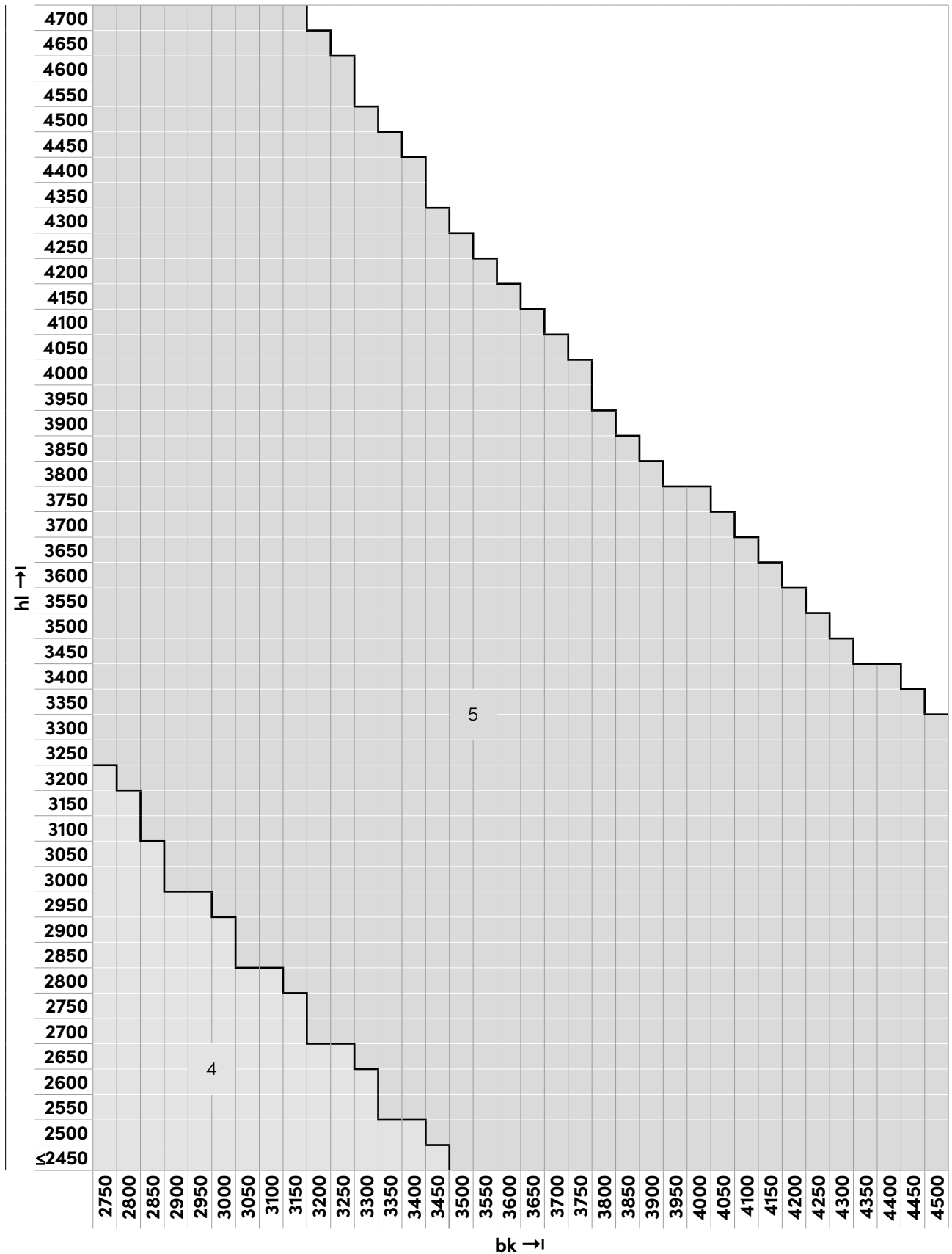


Standard motor position .....136

►► Vertical connections | Standard motor position

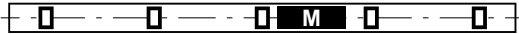
Number of bearings

Lamisol® III 90 System



►► Vertical connections | Standard motor position

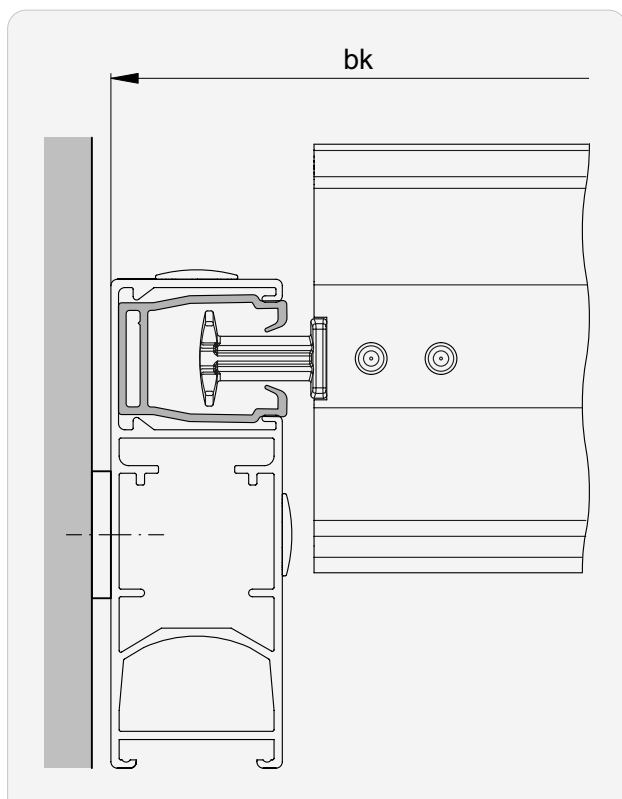
Standard motor position

| Number of bearings | Standard motor position                                                            |
|--------------------|------------------------------------------------------------------------------------|
| 2                  |   |
| 3                  |  |
| 4                  |  |
| 5                  |  |

-  Bearing
-  Standard motor position

## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 3 mm**

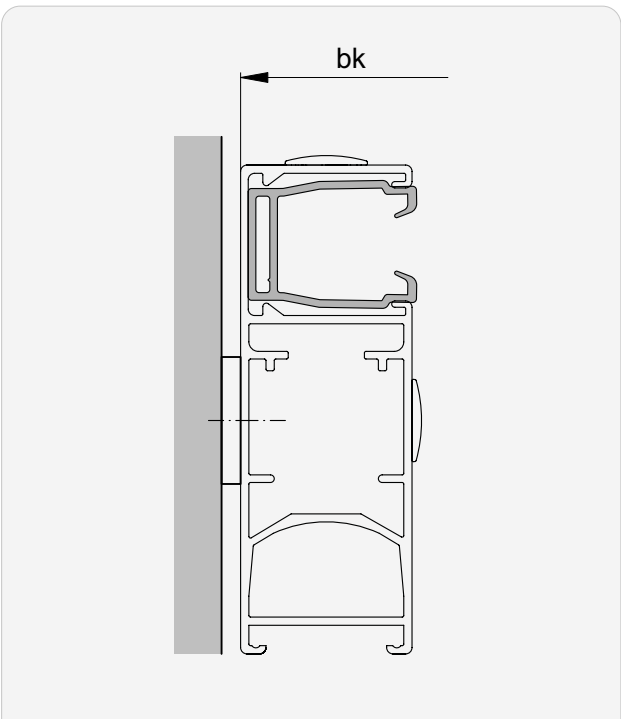
Guide rail fastenings (principle)

Overview

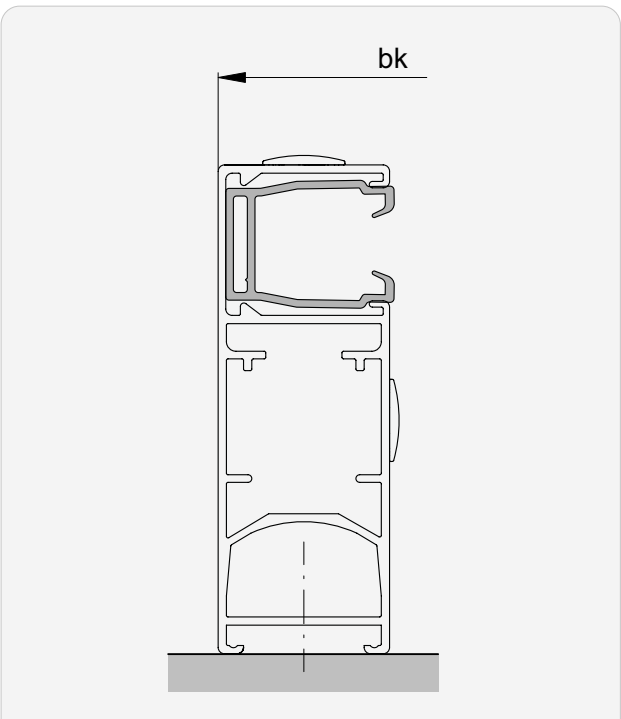
| Type |   |    |   |    |   |   |   |   |    |   |   |    |   |    |
|------|---|----|---|----|---|---|---|---|----|---|---|----|---|----|
| A    | B | Bd | C | Cd | E | F | G | H | Kv | M | T | Tv | V | Wv |
| ●    | - | -  | - | -  | - | - | ● | - | -  | - | - | -  | - | -  |

● applicable without restrictions

A Soffit installation



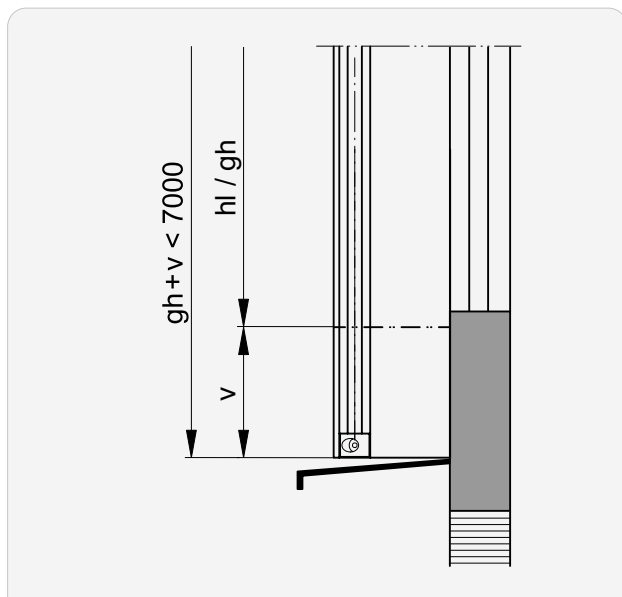
G Facade installation



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 3 mm**

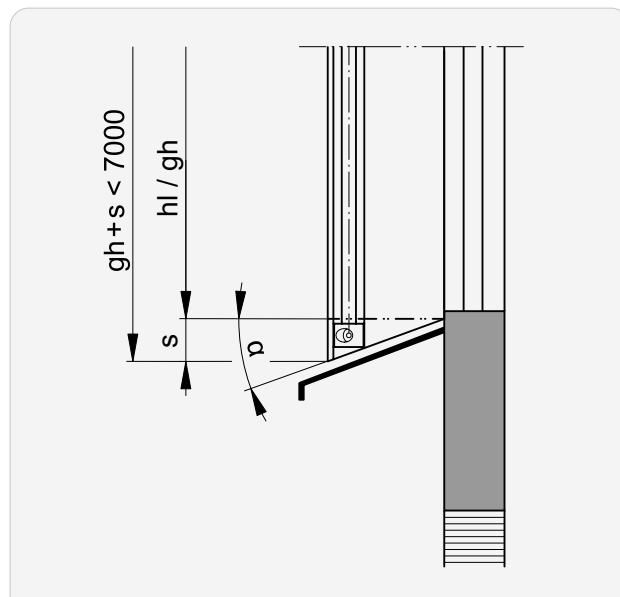
## Guide extension and facet

### Extension

**v**

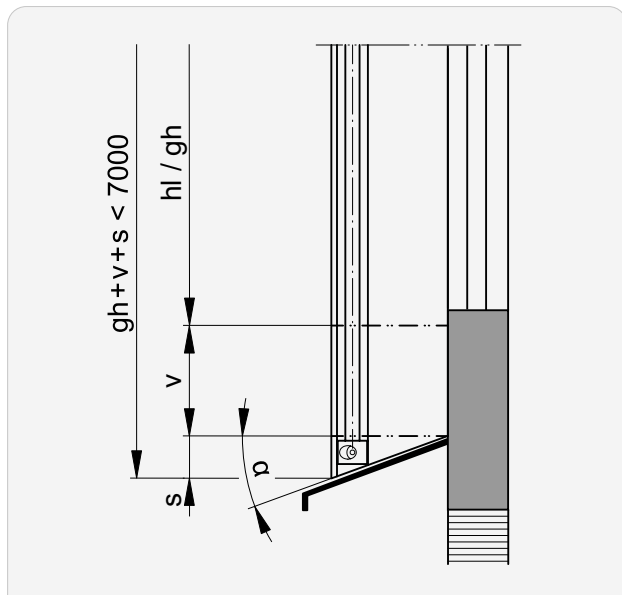
-20 ... 1000

### Facet

**α**

5 ... 50°

### Extension and facet

**v**

0 ... 1000

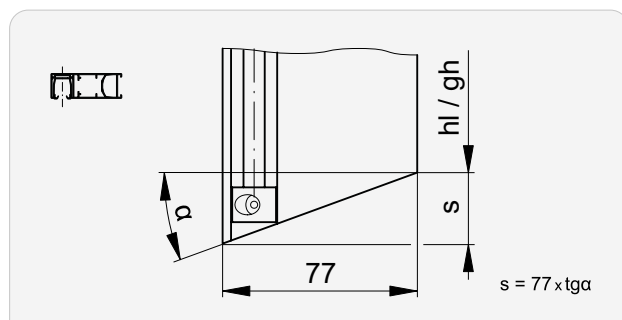
**α**

5 ... 50°

➔ Value for **s** ..... 140

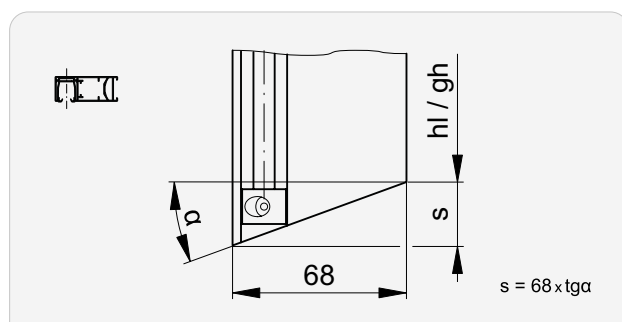
## Angling at the guides

### Type P | Lamisol® III System Profil



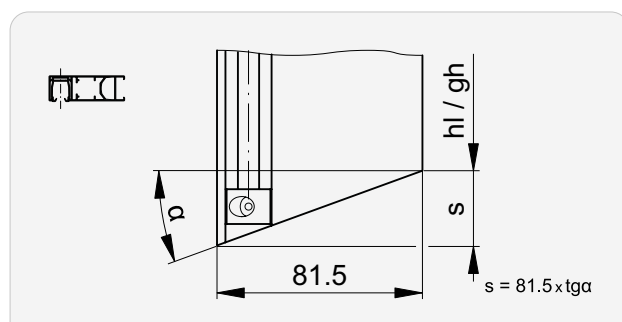
| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 7  | 15       | 21 | 25       | 36 | 35       | 54 | 45       | 77 |
| 6        | 8  | 16       | 22 | 26       | 38 | 36       | 56 | 46       | 80 |
| 7        | 9  | 17       | 24 | 27       | 39 | 37       | 58 | 47       | 83 |
| 8        | 11 | 18       | 25 | 28       | 41 | 38       | 60 | 48       | 86 |
| 9        | 12 | 19       | 27 | 29       | 43 | 39       | 62 | 49       | 89 |
| 10       | 14 | 20       | 28 | 30       | 44 | 40       | 65 | 50       | 92 |
| 11       | 15 | 21       | 30 | 31       | 46 | 41       | 67 |          |    |
| 12       | 16 | 22       | 31 | 32       | 48 | 42       | 69 |          |    |
| 13       | 18 | 23       | 33 | 33       | 50 | 43       | 72 |          |    |
| 14       | 19 | 24       | 34 | 34       | 52 | 44       | 74 |          |    |

### Type K | Lamisol® III 70 System Box



| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 6  | 15       | 18 | 25       | 32 | 35       | 48 | 45       | 68 |
| 6        | 7  | 16       | 19 | 26       | 33 | 36       | 49 | 46       | 70 |
| 7        | 8  | 17       | 21 | 27       | 35 | 37       | 51 | 47       | 73 |
| 8        | 10 | 18       | 22 | 28       | 36 | 38       | 53 | 48       | 76 |
| 9        | 11 | 19       | 23 | 29       | 38 | 39       | 55 | 49       | 78 |
| 10       | 12 | 20       | 25 | 30       | 39 | 40       | 57 | 50       | 81 |
| 11       | 13 | 21       | 26 | 31       | 41 | 41       | 59 |          |    |
| 12       | 14 | 22       | 27 | 32       | 42 | 42       | 61 |          |    |
| 13       | 16 | 23       | 29 | 33       | 44 | 43       | 63 |          |    |
| 14       | 17 | 24       | 30 | 34       | 46 | 44       | 66 |          |    |

### Type B | Lamisol® III 90 System Box

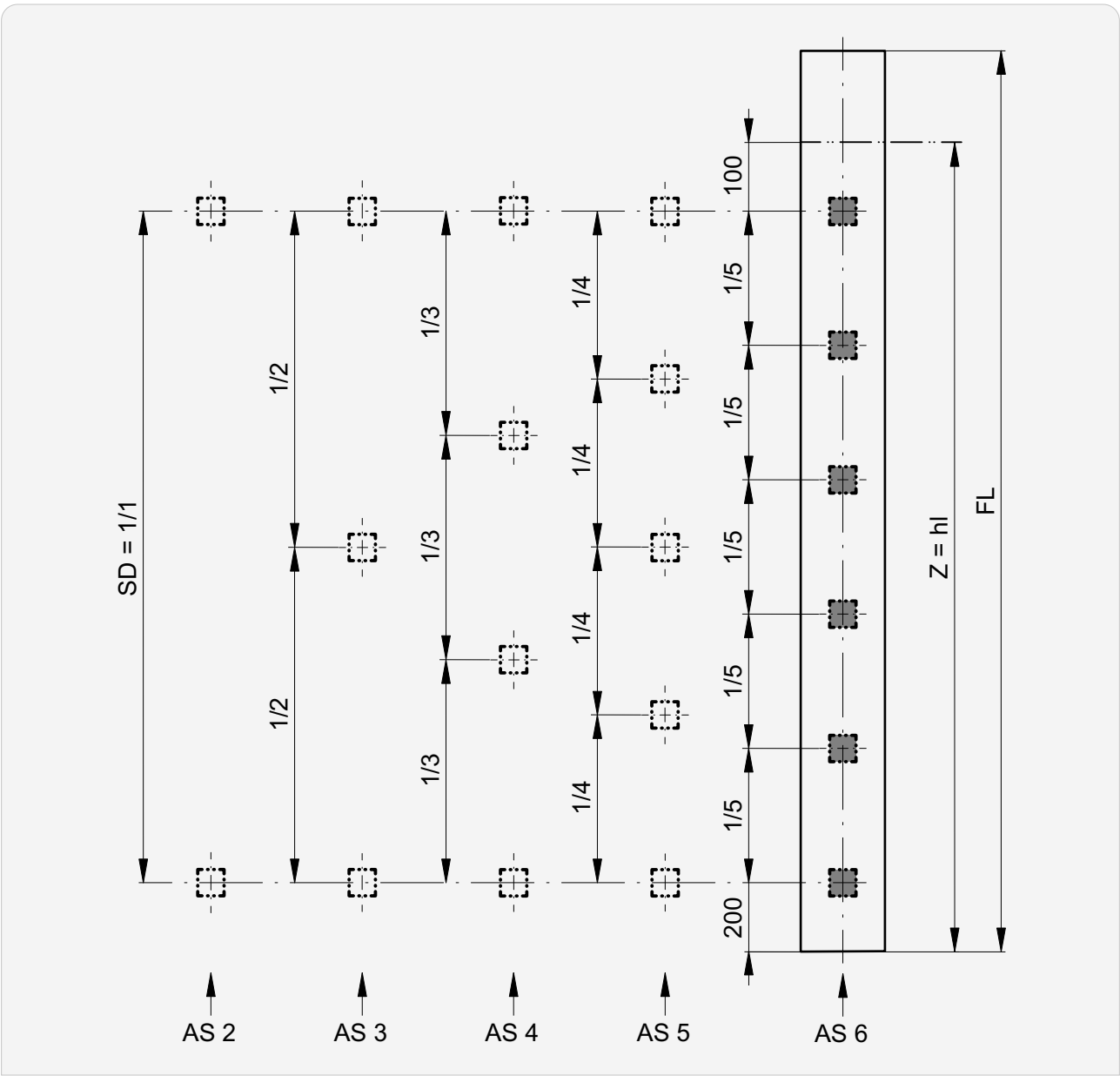


| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 7  | 15       | 22 | 25       | 38 | 35       | 57 | 45       | 82 |
| 6        | 9  | 16       | 23 | 26       | 40 | 36       | 59 | 46       | 84 |
| 7        | 10 | 17       | 25 | 27       | 42 | 37       | 61 | 47       | 87 |
| 8        | 11 | 18       | 26 | 28       | 43 | 38       | 64 | 48       | 91 |
| 9        | 13 | 19       | 28 | 29       | 45 | 39       | 66 | 49       | 94 |
| 10       | 14 | 20       | 30 | 30       | 47 | 40       | 68 | 50       | 97 |
| 11       | 16 | 21       | 31 | 31       | 49 | 41       | 71 |          |    |
| 12       | 17 | 22       | 33 | 32       | 51 | 42       | 73 |          |    |
| 13       | 19 | 23       | 35 | 33       | 53 | 43       | 76 |          |    |
| 14       | 20 | 24       | 36 | 34       | 55 | 44       | 79 |          |    |

Fastening points Lamisol® III System Profil

Without extension

| Z            | AS |
|--------------|----|
| ≤1500        | 2  |
| 1501... 2700 | 3  |
| 2701... 3900 | 4  |
| 3901... 5100 | 5  |
| >5100        | 6  |



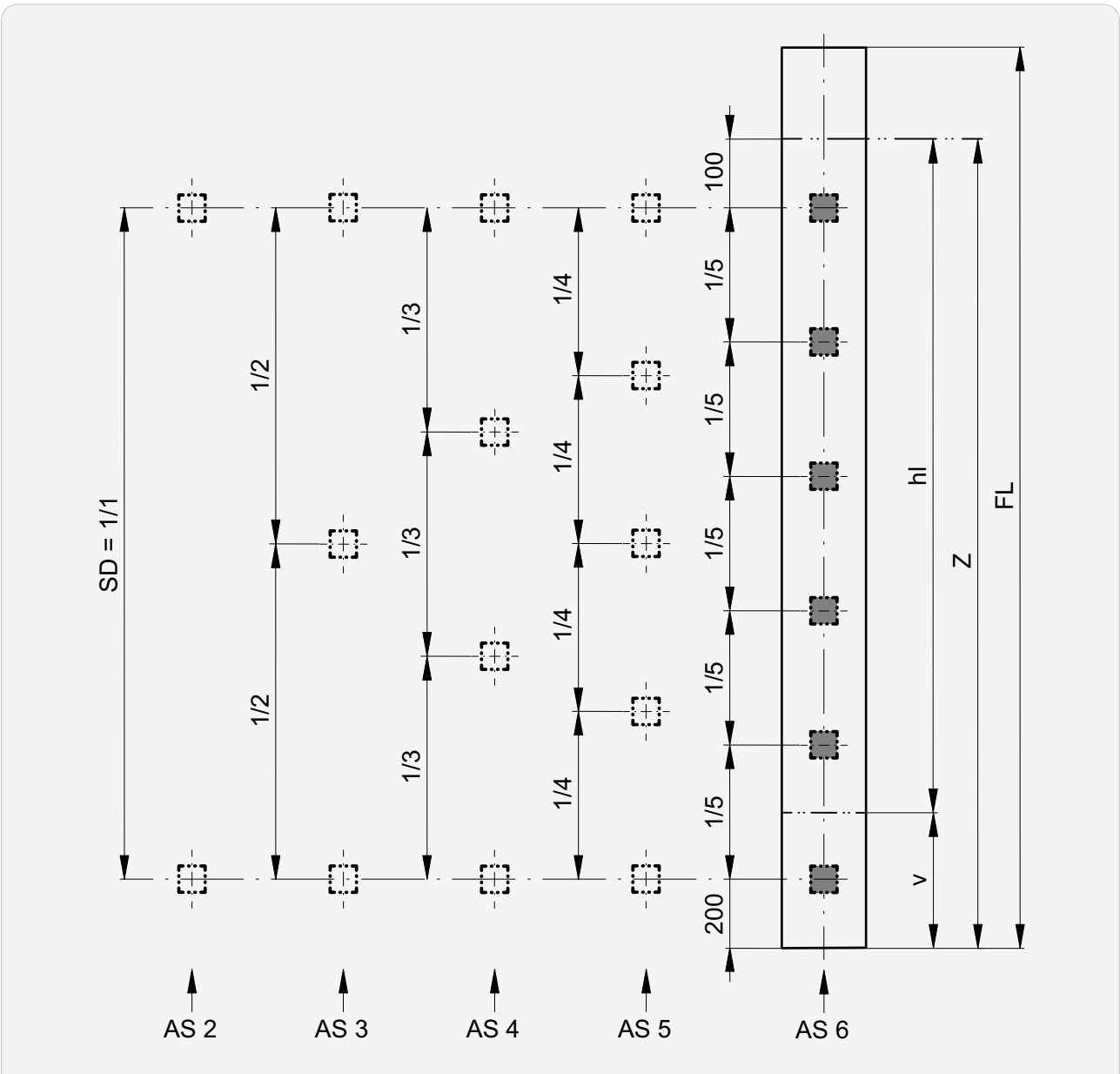
AS Number of slits

SD Slot spacing: max. 1200

►► Fastening points Lamisol® III System Profil

With guide rail extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



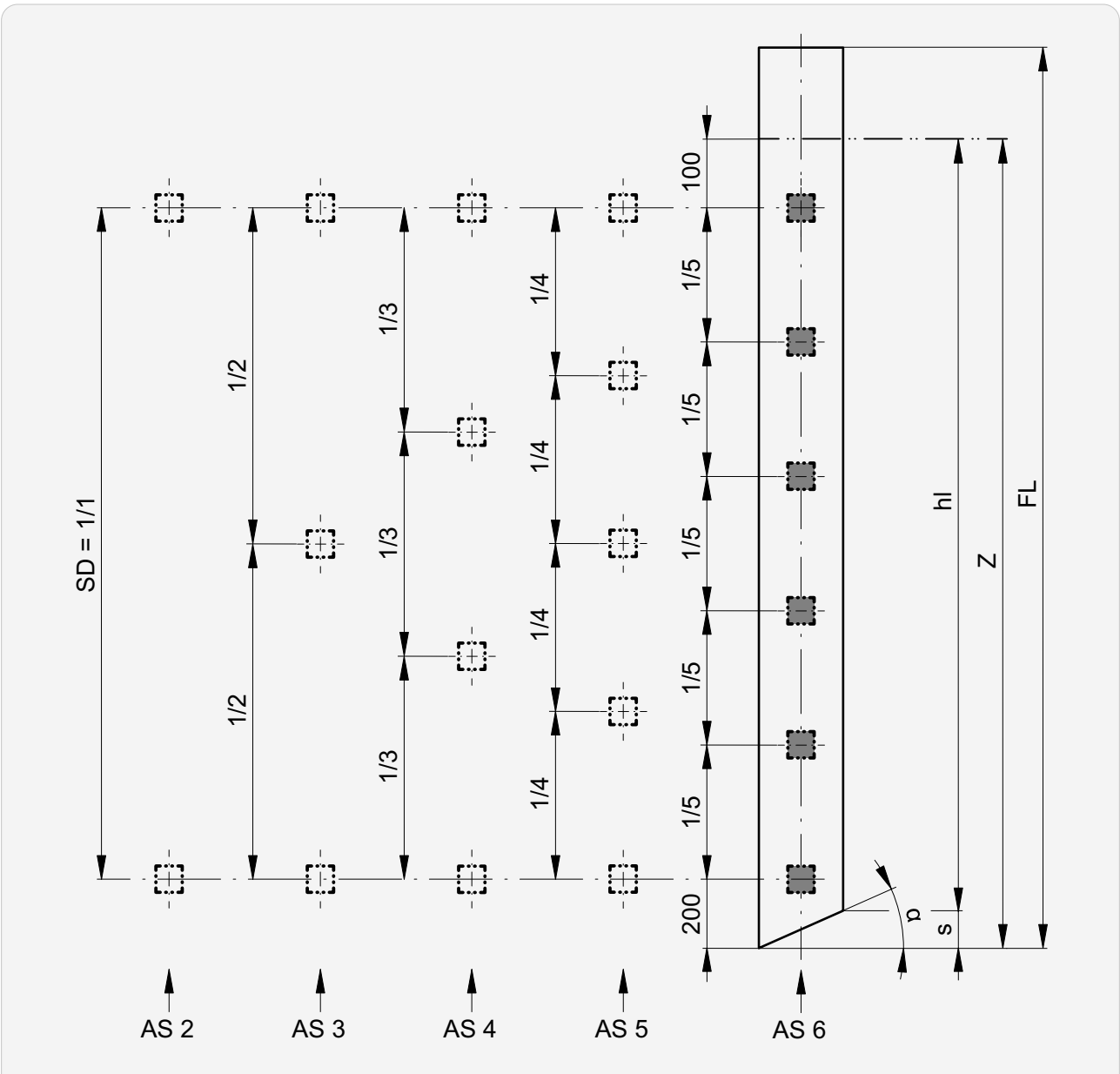
**AS** Number of slits  
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

►► Fastening points Lamisol® III System Profil

With facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

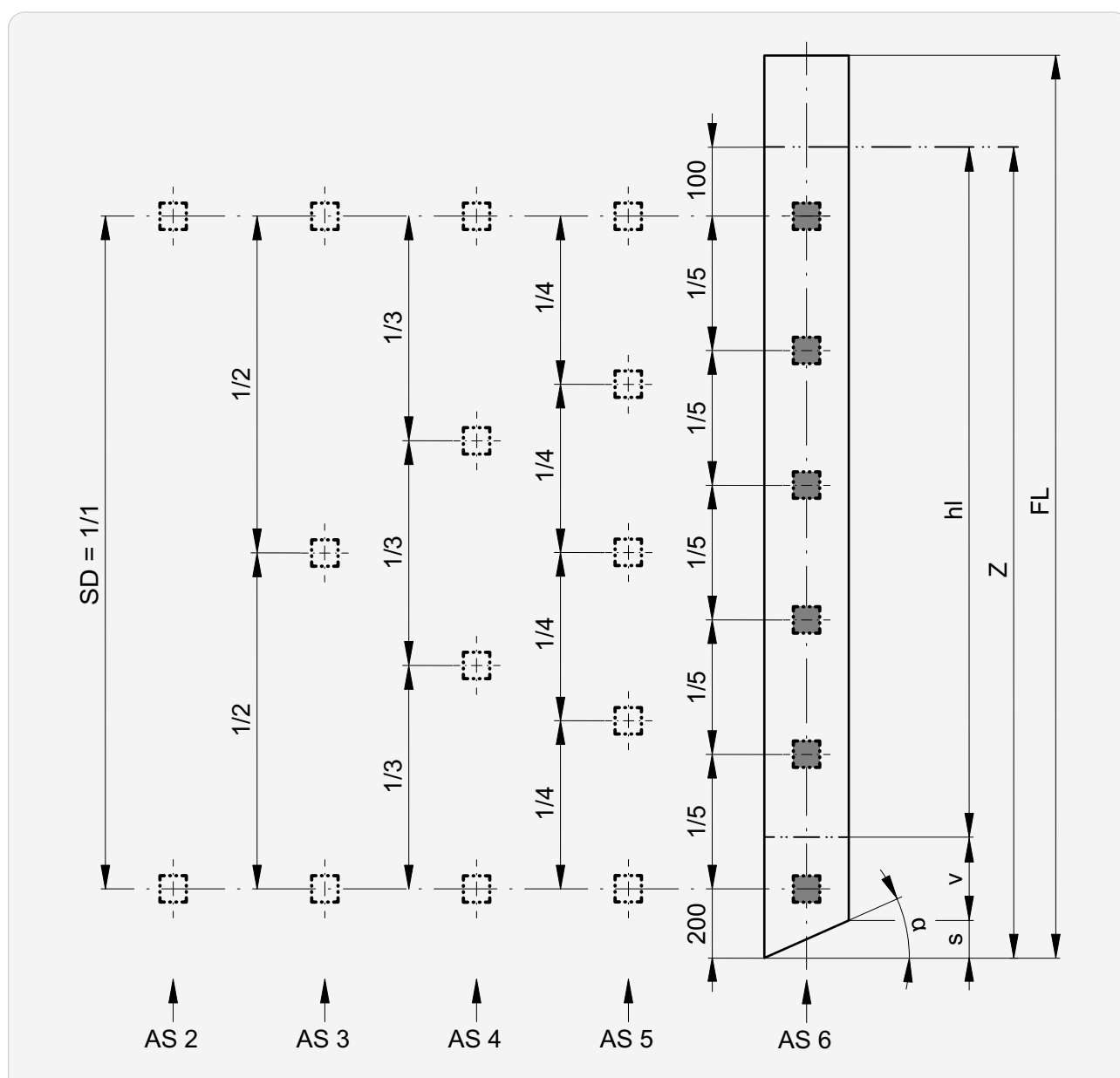
**SD** Slot spacing: max. 1200

**s** Faceting (guide rail width x tgα)

## ►► Fastening points Lamisol® III System Profil

## With guide rail extension and facet

| <b>Z</b>     | <b>AS</b> |
|--------------|-----------|
| ≤1500        | 2         |
| 1501... 2700 | 3         |
| 2701... 3900 | 4         |
| 3901... 5100 | 5         |
| > 5100       | 6         |



**AS** Number of slits

**s** Faceting (guide rail width x  $\tan \alpha$ )

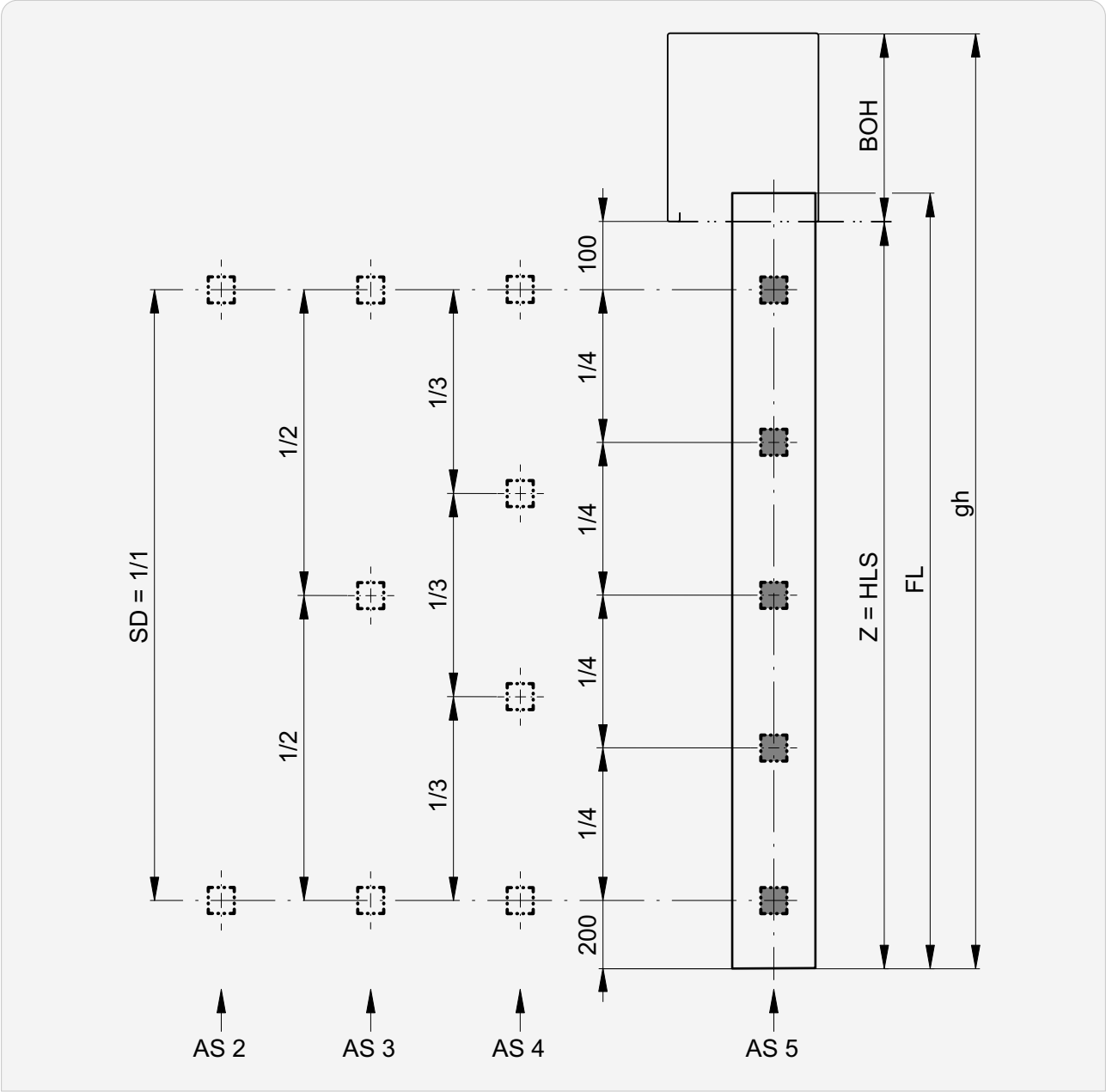
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

Fastening points Lamisol® III System Box

Without extension

| Z            | AS |
|--------------|----|
| ≤1450        | 2  |
| 1451... 2450 | 3  |
| 2451... 3450 | 4  |
| >3450        | 5  |



**AS** Number of slits

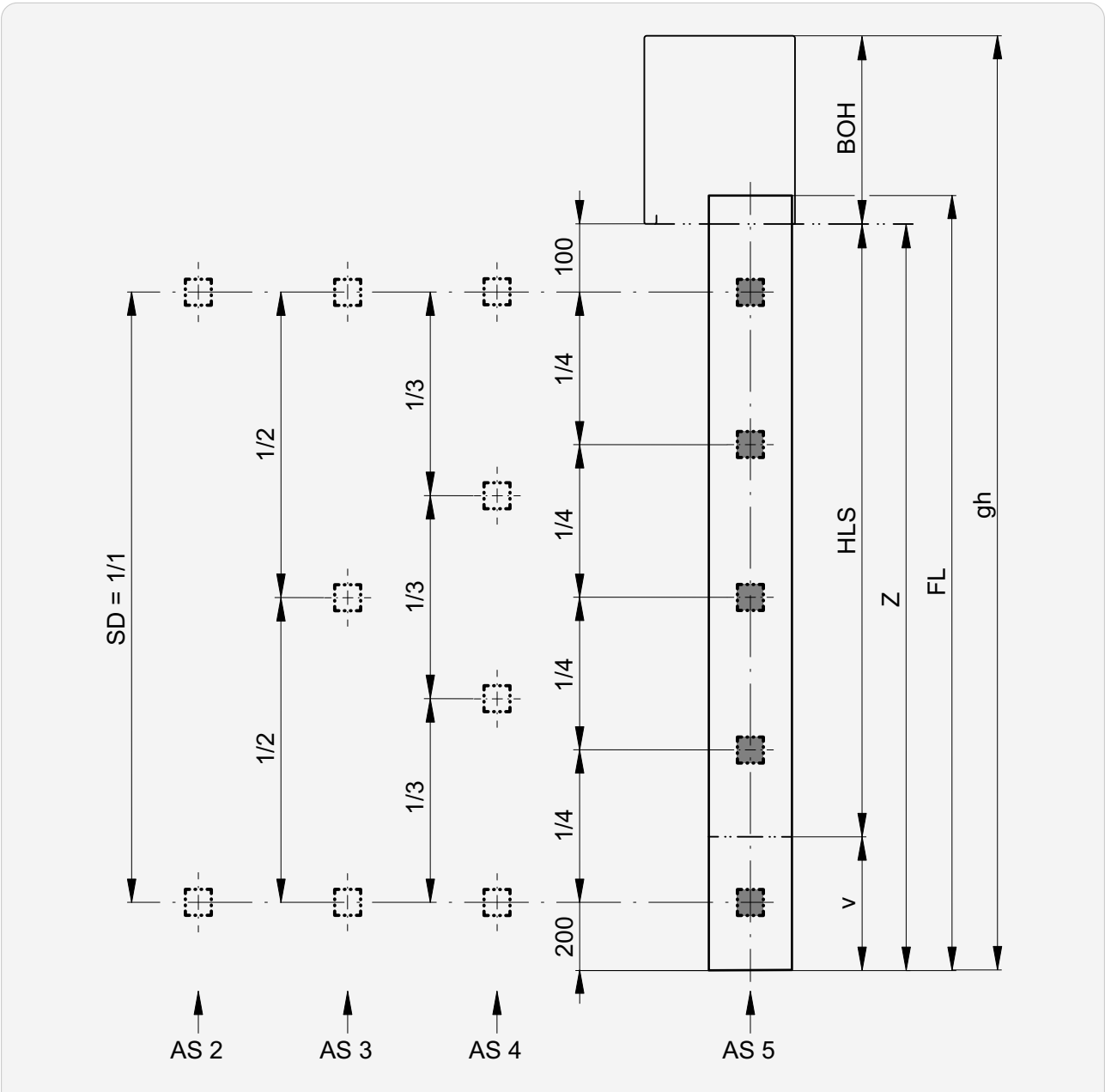
**BOH** box height

**SD** Slot spacing: max. 1200

►► Fastening points Lamisol® III System Box

With guide rail extension

| Z            | AS |
|--------------|----|
| ≤1450        | 2  |
| 1451... 2450 | 3  |
| 2451... 3450 | 4  |
| >3450        | 5  |



**AS** Number of slits

**BOH** box height

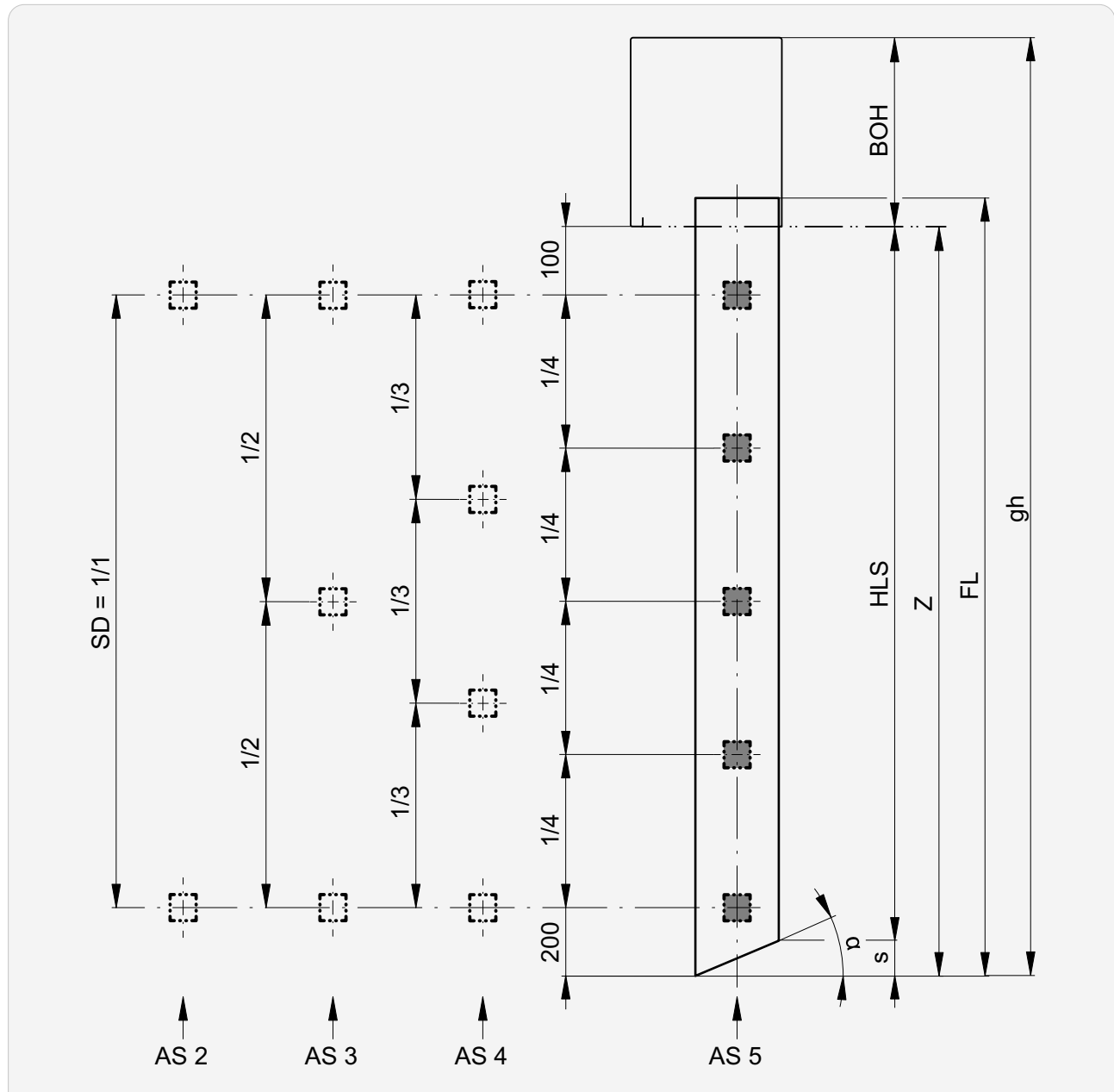
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

## ►► Fastening points Lamisol® III System Box

### With facet

| Z            | AS |
|--------------|----|
| ≤1450        | 2  |
| 1451... 2450 | 3  |
| 2451... 3450 | 4  |
| >3450        | 5  |



**AS** Number of slits

**BOH** box height

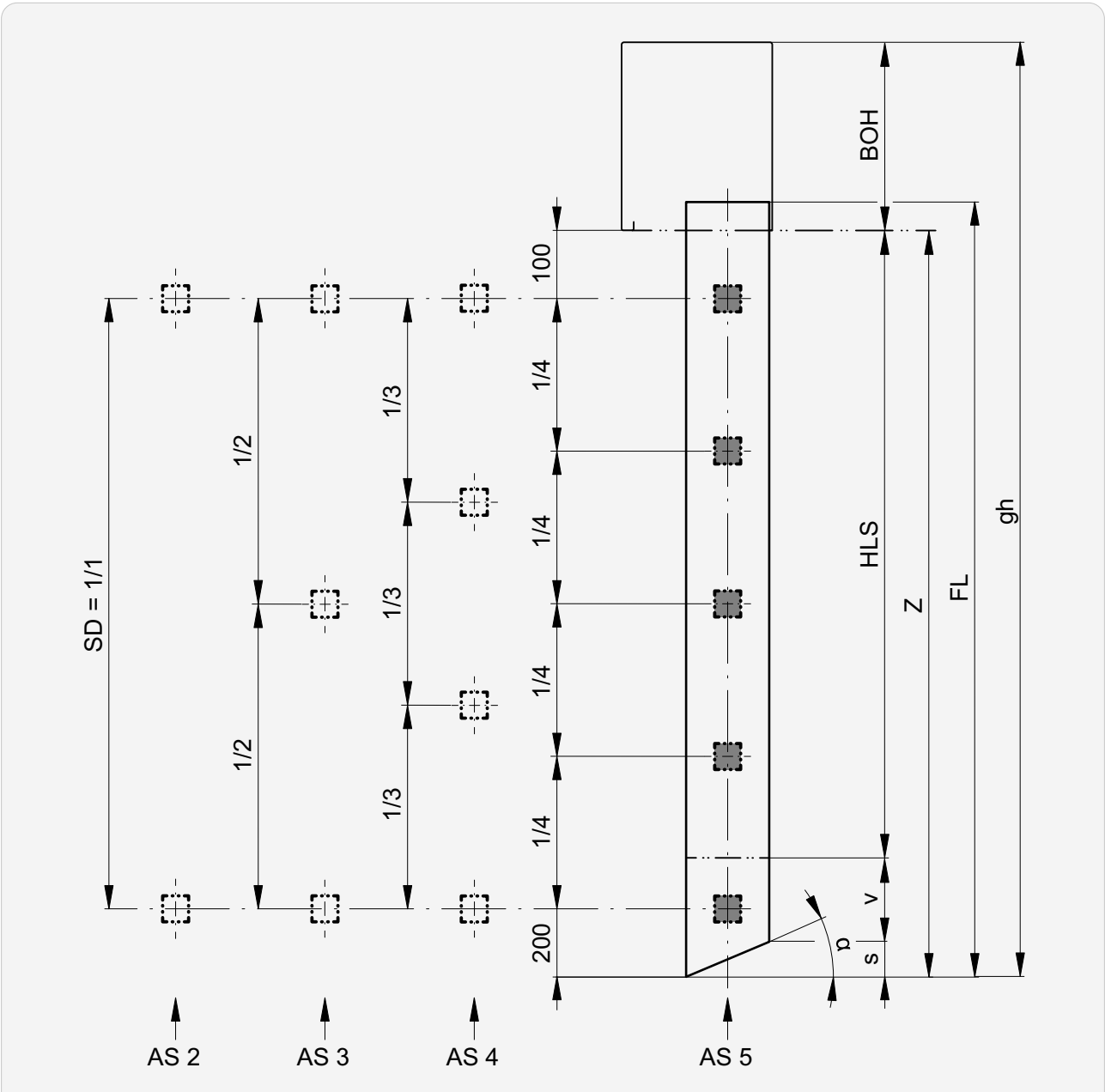
**s** Faceting (guide rail width x tgα)

**SD** Slot spacing: max. 1200

# ►► Fastening points Lamisol® III System Box

With guide rail extension and facet

| Z            | AS |
|--------------|----|
| ≤1450        | 2  |
| 1451... 2450 | 3  |
| 2451... 3450 | 4  |
| >3450        | 5  |



**AS** Number of slits

**BOH** box height

**s** Faceting (guide rail width x tgα)

**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

## Technical data of motors

### Performance characteristics

| Type          |       | Limit switch |           | M    | n        | P   | I    |
|---------------|-------|--------------|-----------|------|----------|-----|------|
|               |       | Type         | Number of | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |       |              |           |      |          |     |      |
| Elero         |       |              |           |      |          |     |      |
| ES...         | 06.01 | mechanical   | 2         | 6    | 26       | 110 | 0.50 |
|               | 09.01 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.01 |              |           | 20   |          | 190 | 1.05 |
| ES...         | 06.51 | mechanical   | 3         | 6    | 26       | 110 | 0.50 |
|               | 09.51 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.51 |              |           | 20   |          | 190 | 1.05 |
| Option        |       |              |           |      |          |     |      |
| Somfy         |       |              |           |      |          |     |      |
| SH...         | 06.01 | mechanical   | 2         | 6    | 24       | 95  | 0.40 |
|               | 10.01 |              |           | 10   |          | 110 | 0.65 |
|               | 18.01 |              |           | 18   |          | 155 | 1.00 |
| SW...         | 06.01 |              |           | 6    |          | 95  | 0.40 |
| SI...         | 10.01 | electronic   | 2         | 10   | 24       | 110 | 0.65 |
| SR...         | 18.01 |              |           | 18   |          | 155 | 1.00 |
| Elero Comfort |       |              |           |      |          |     |      |
| ECM...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| ECB...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| Geiger AIR    |       |              |           |      |          |     |      |
| GA...         | 06.01 | electronic   | 2         | 6    | 26       | 93  | 0.40 |
|               | 06.10 |              |           | 10   |          | 135 | 0.60 |
|               | 06.20 |              |           | 20   |          | 190 | 0.85 |

**I** Current consumption

**M** Torque

**n** Rotational speed

**P** Power consumption



# Lamisol® III Vento

|                                                |     |
|------------------------------------------------|-----|
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## Limit dimensions

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>1,2</sup> max.<br>(bk) | Height min.<br>(hl) | Height max.<br>(hl) | Surface max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|-----------------------------------|---------------------|---------------------|-----------------------------------|
| Motor drive | 695 700 <sup>3</sup> | 3000                              | 400                 | 3000                | 9                                 |

### Connected systems

| Operation   | Width <sup>1</sup> max.<br>(bk) | Blinds max. | Blinds per<br>system | Surface max.<br>[m <sup>2</sup> ] |
|-------------|---------------------------------|-------------|----------------------|-----------------------------------|
| Motor drive | 9000                            | 3           | 2                    | 16                                |
|             |                                 |             | 3                    | 20                                |

<sup>1</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

<sup>2</sup> **bk > 2500**: mount housing with an additional box support.

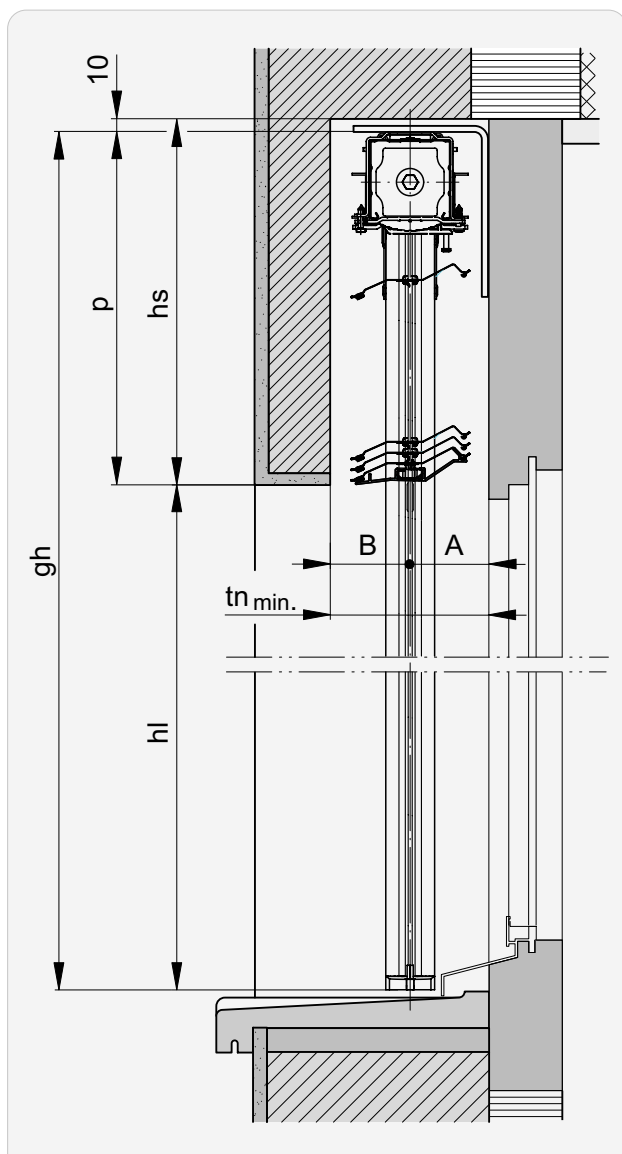
<sup>3</sup> Radio motor Geiger AIR



Soffit installation or suspended installation: max 100

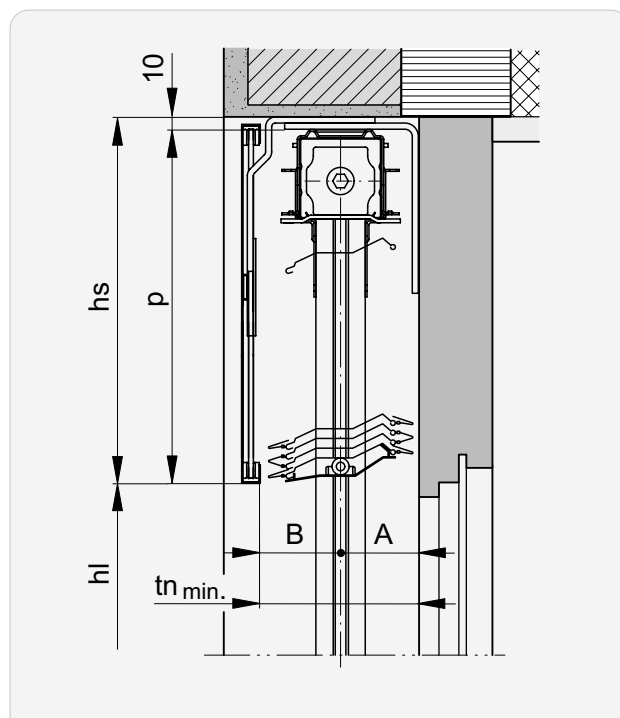
## Built-in system

### Vertical section

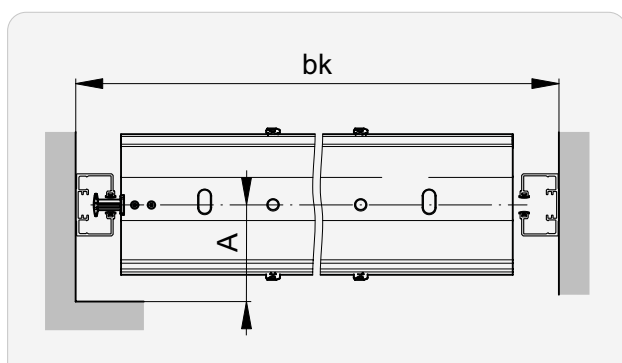


## Built-in system with cover

### Vertical section



### Horizontal section



## Header dimensions | Heights of package

| hl →l       | P min. | hs <sup>1</sup> | hl →l       | P min. | hs <sup>1</sup> |
|-------------|--------|-----------------|-------------|--------|-----------------|
| <b>1800</b> | 215    | 225             | <b>2450</b> | 250    | 260             |
| <b>1850</b> | 220    | 230             | <b>2500</b> | 250    | 260             |
| <b>1900</b> | 220    | 230             | <b>2550</b> | 250    | 260             |
| <b>1950</b> | 220    | 230             | <b>2600</b> | 255    | 265             |
| <b>2000</b> | 225    | 235             | <b>2650</b> | 260    | 270             |
| <b>2050</b> | 225    | 235             | <b>2700</b> | 265    | 275             |
| <b>2100</b> | 230    | 240             | <b>2750</b> | 265    | 275             |
| <b>2150</b> | 230    | 240             | <b>2800</b> | 270    | 280             |
| <b>2200</b> | 235    | 245             | <b>2850</b> | 270    | 280             |
| <b>2250</b> | 240    | 250             | <b>2900</b> | 275    | 285             |
| <b>2300</b> | 240    | 250             | <b>2950</b> | 280    | 290             |
| <b>2350</b> | 245    | 255             | <b>3000</b> | 280    | 290             |
| <b>2400</b> | 250    | 260             |             |        |                 |

| tn min. | A  | B  |
|---------|----|----|
| 130*    | 65 | 65 |

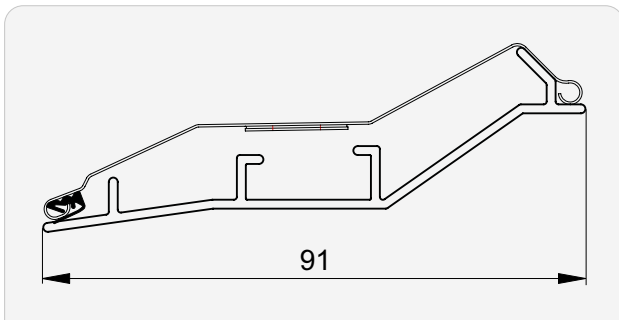
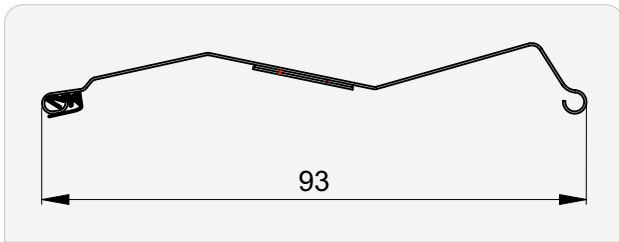
<sup>1</sup> Lamisol® III Vento Reflect: **hs + 5**.

\* + possible addition for protruding weatherboard or doorknobs.

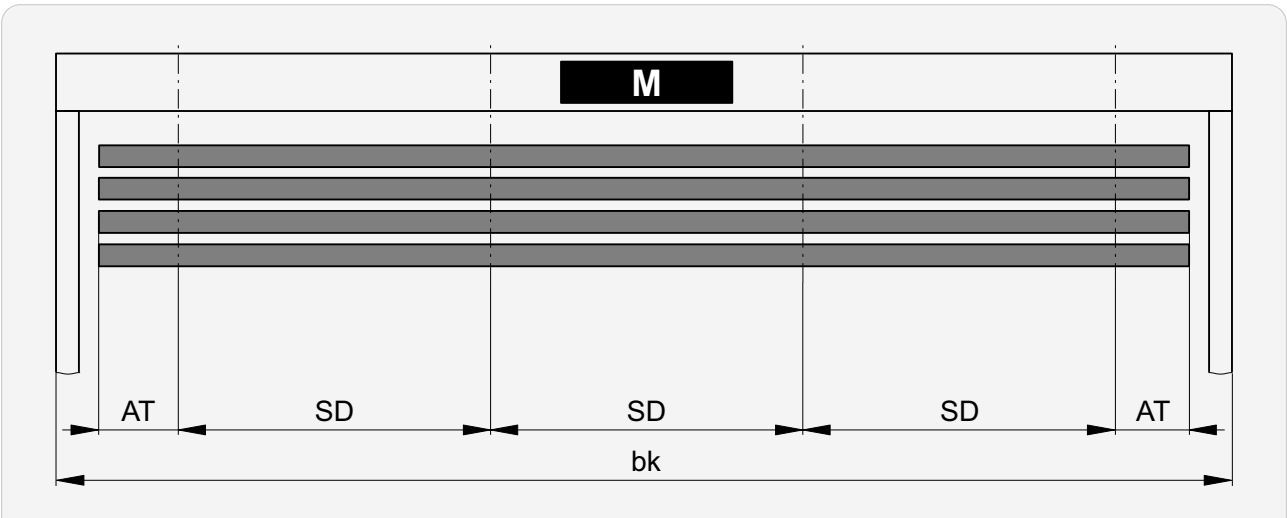


Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

## Shot profile



**Beginning distance | Slot spacing**



| bk    | AT min. | SD min. | SD max. |
|-------|---------|---------|---------|
| ≤1250 | 100     | 350*    | 1000*   |
| >1250 | 200     |         |         |

\* Standard slot spacing machine fabrication

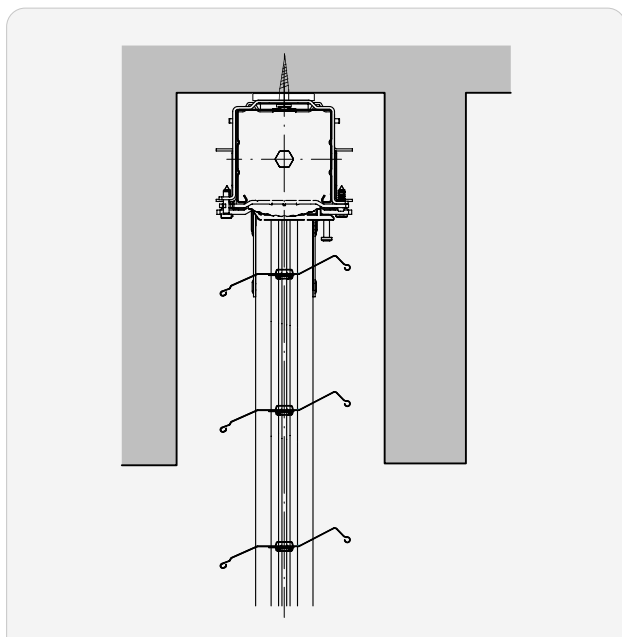
Deviations from the standard are possible when:

| Deviation                | Correction |
|--------------------------|------------|
| Support loading too high | AS         |
| Slot spacing < 350       | AT + AS    |
| With motor               | AT + AS    |

## Housing fastening

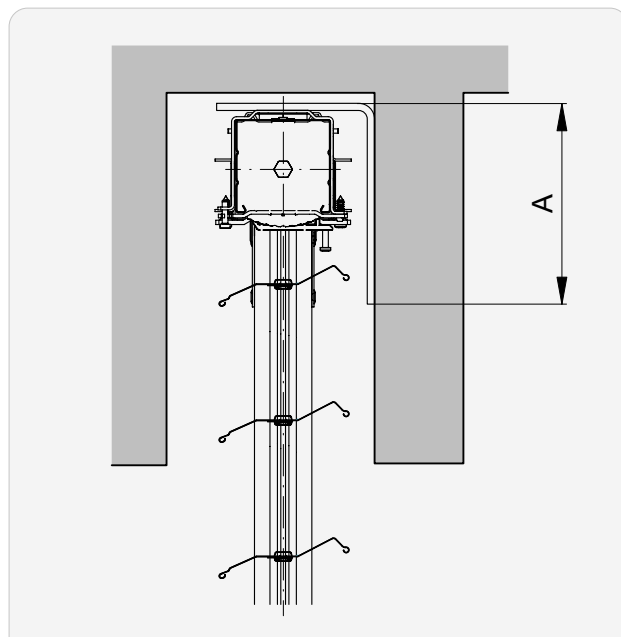
At top

NO

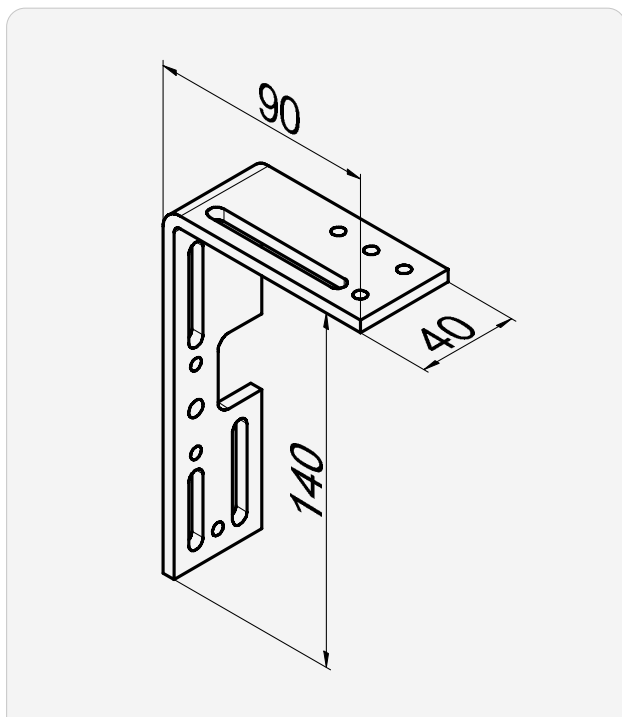


Box support

KT

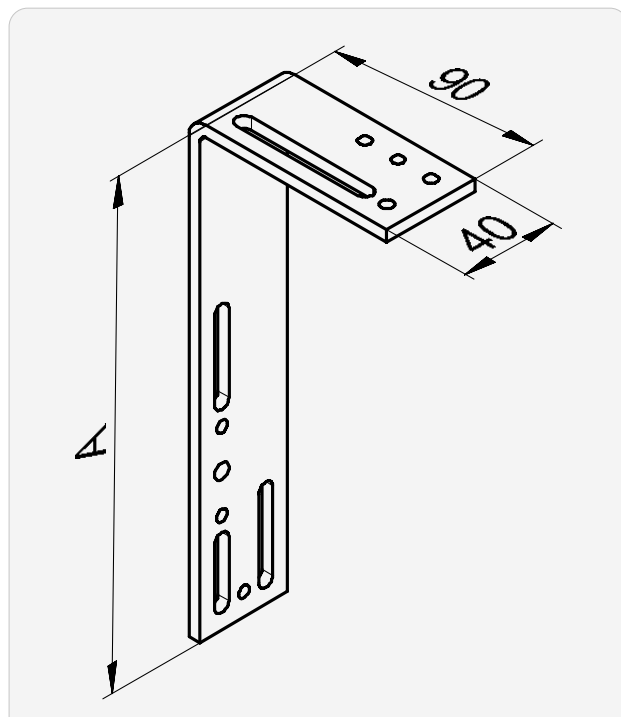


Box support for type KT, for small headers\*



A  
140

Box support for type KT



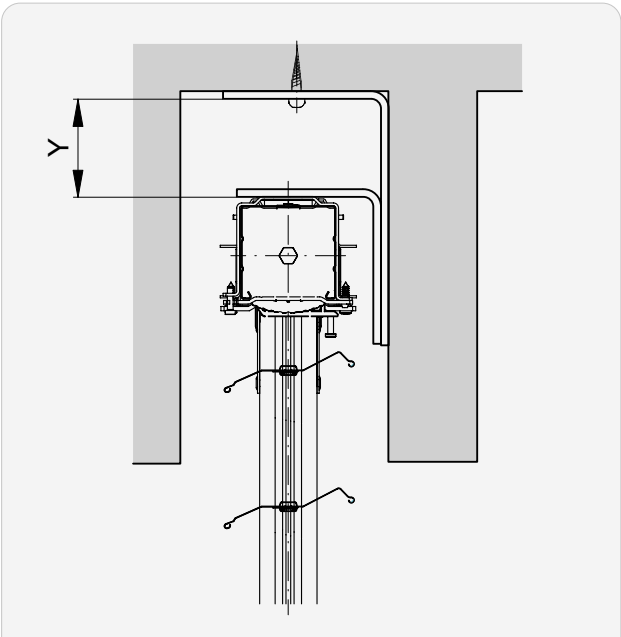
A  
200  
260

\* Header 100

►► Housing fastening

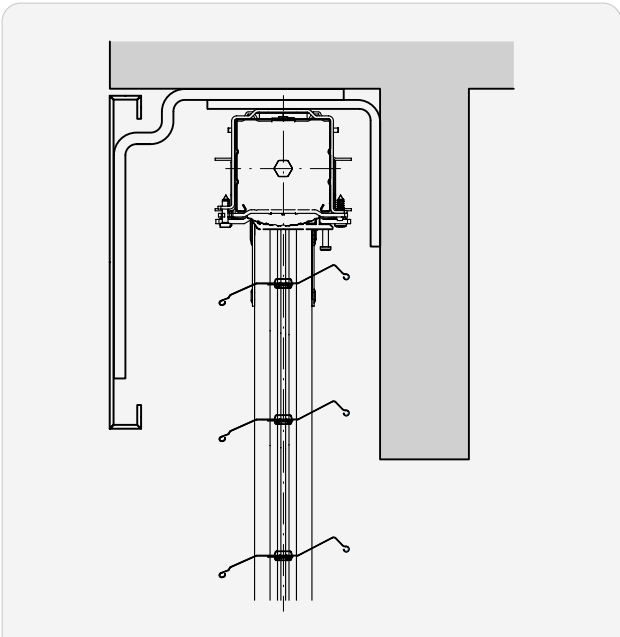
Double box support

DR

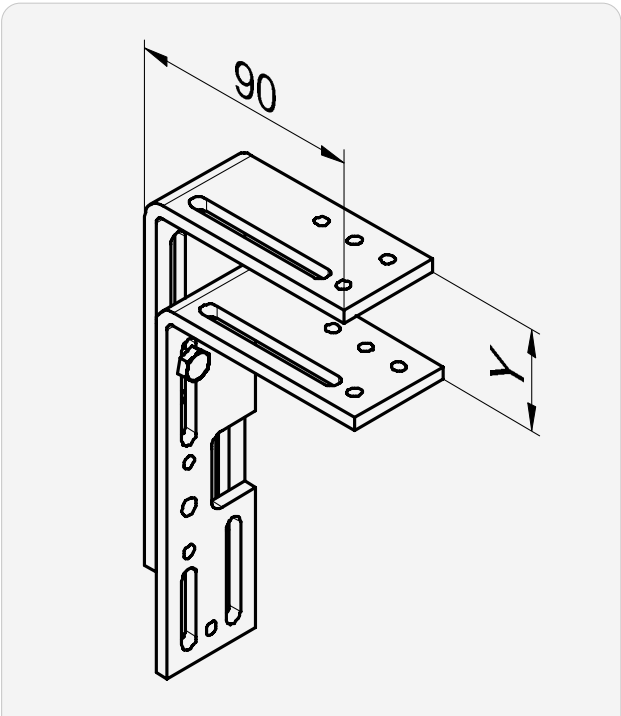


Gallery clip

GB



Double box support for type DR



Y

10 ... 75

75 ... 135

135 ... 200

Gallery clip for type GB

**i** See additional documentation:  
**Short manual "Covers"**



[Covers](#)



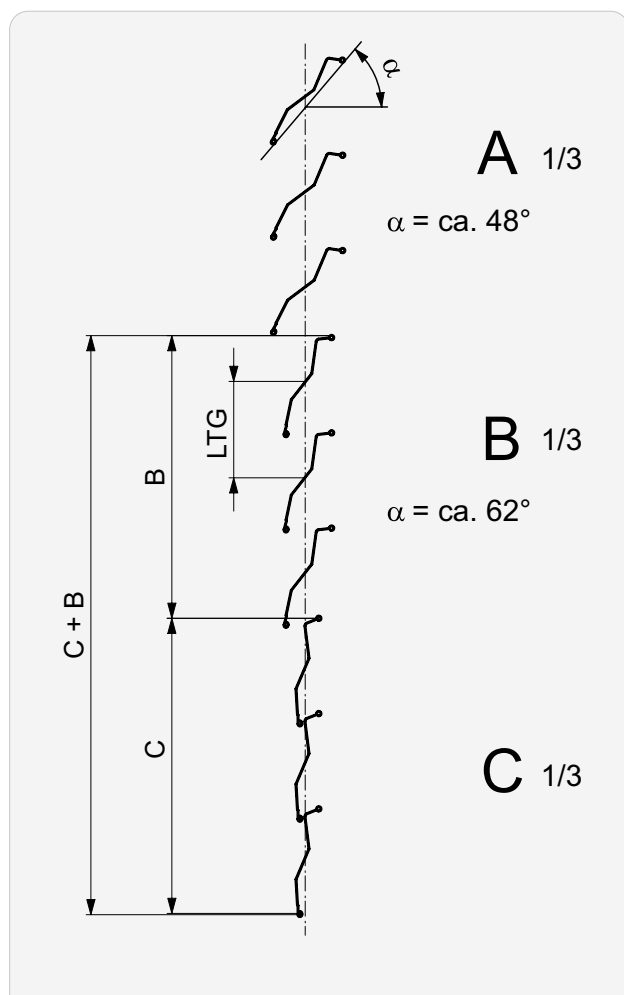
**Number of box supports****Additional fastenings**

| <b>bk</b>   | <b>Quantity</b> |
|-------------|-----------------|
| ≤2500       | 0               |
| 2501...3000 | 1               |

## Options

### Lamisol® III Vento Reflect

**i** For glare protection at bottom and use of daylight at top.

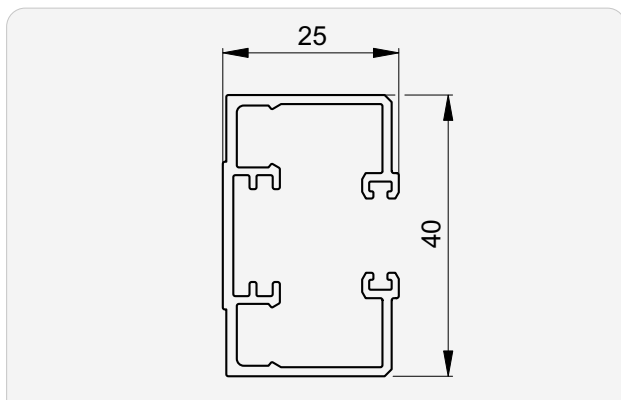


**i** For technical reasons, the Reflect zone (**C + B**) must be two slat spacing units larger than the Reflect zone **C**.

- A** Use of daylight
- B** Ability to see outside
- C** Glare protection
- LTG** Slat spacing

## Guide rail

### Type F | Fix guide

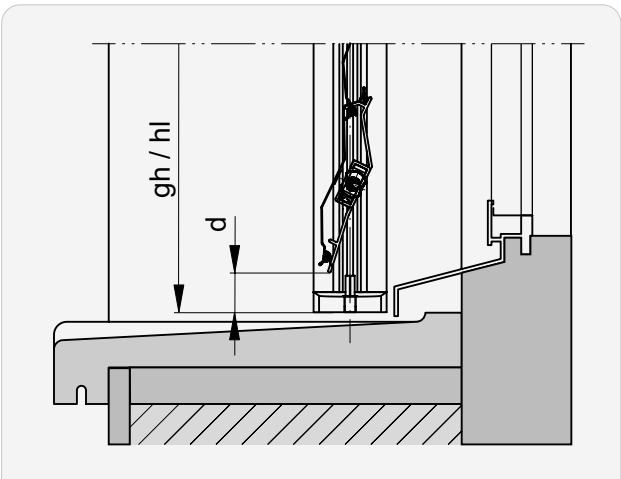
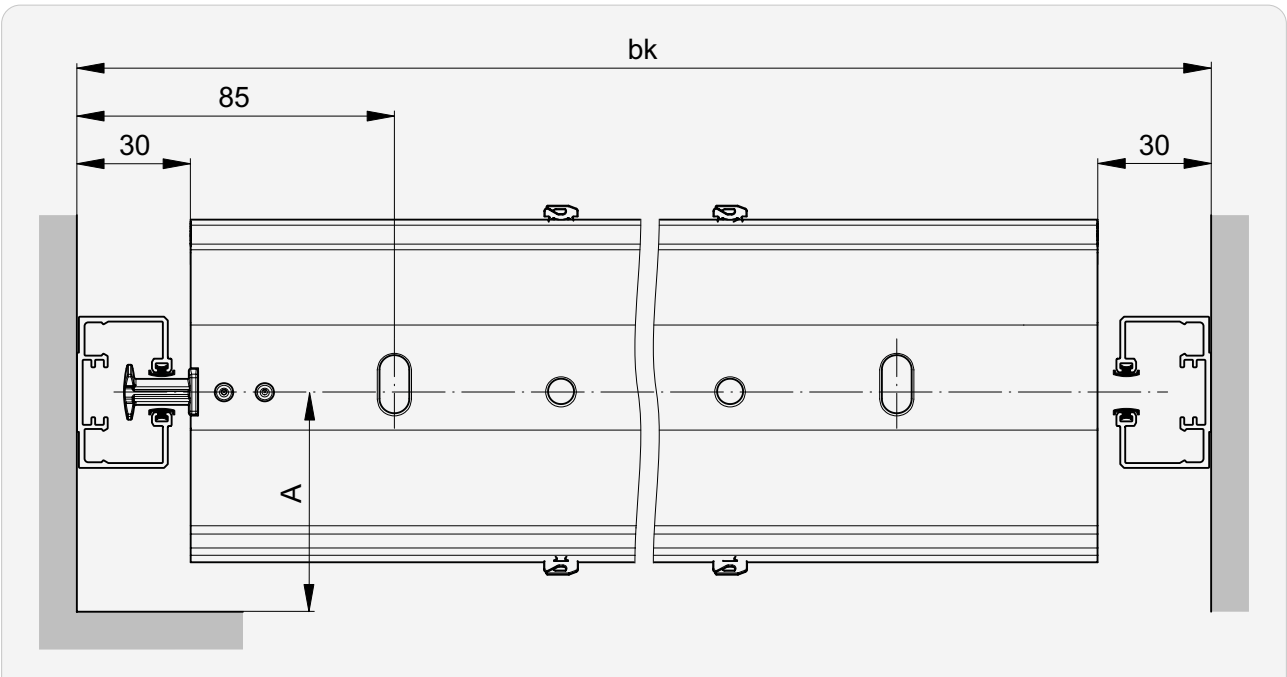


|                                           |            |
|-------------------------------------------|------------|
| ➔ Distance between guides <b>FD</b> ..... | <b>174</b> |
| ➔ Fastening points.....                   | <b>172</b> |
| ➔ Guide extension and facet .....         | <b>170</b> |

|                              |            |
|------------------------------|------------|
| ➔ Guide rail fastenings..... | <b>167</b> |
| ➔ Installation window .....  | <b>171</b> |
| ➔ Integrated guides.....     | <b>166</b> |

Sections | Details

Horizontal section



**d (d - dimension)**

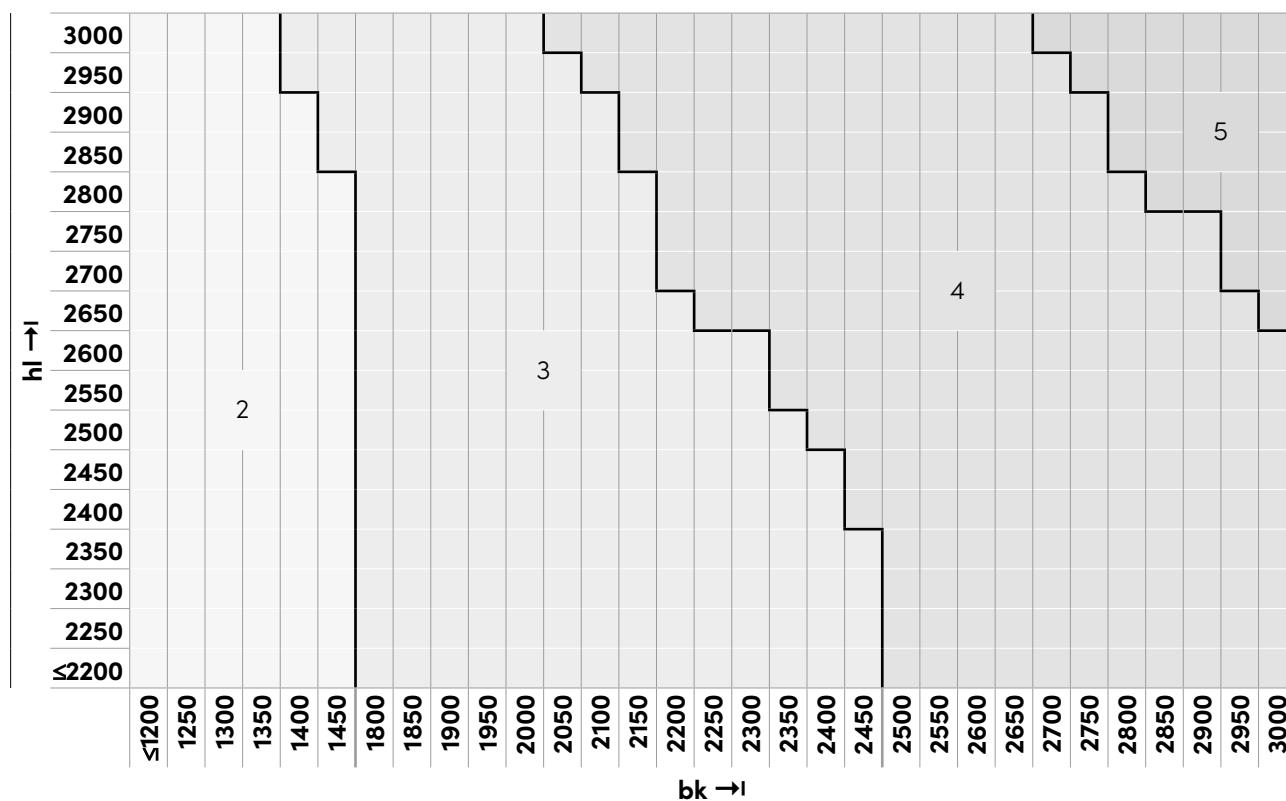
15 +5/-3 (Lamisol® III Vento Reflect: 25 +5/-3)

**i** **d - dimension** may vary with different blind dimensions.

➡ Value for **A**..... 154

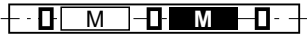
## Vertical connections | Standard motor position

Number of bearings



►► Vertical connections | Standard motor position

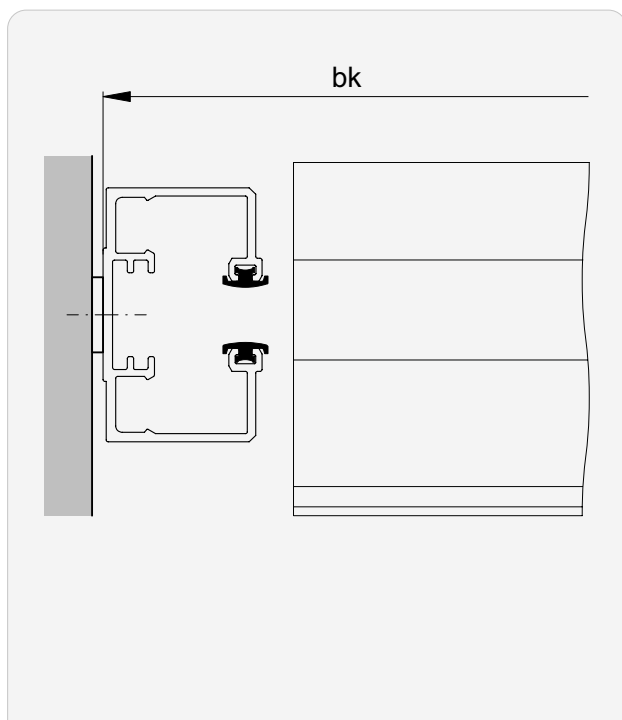
Standard motor position

| Number of bearings | Standard motor position                                                            |
|--------------------|------------------------------------------------------------------------------------|
| 2                  |   |
| 3                  |  |
| 4                  |  |
| 5                  |  |

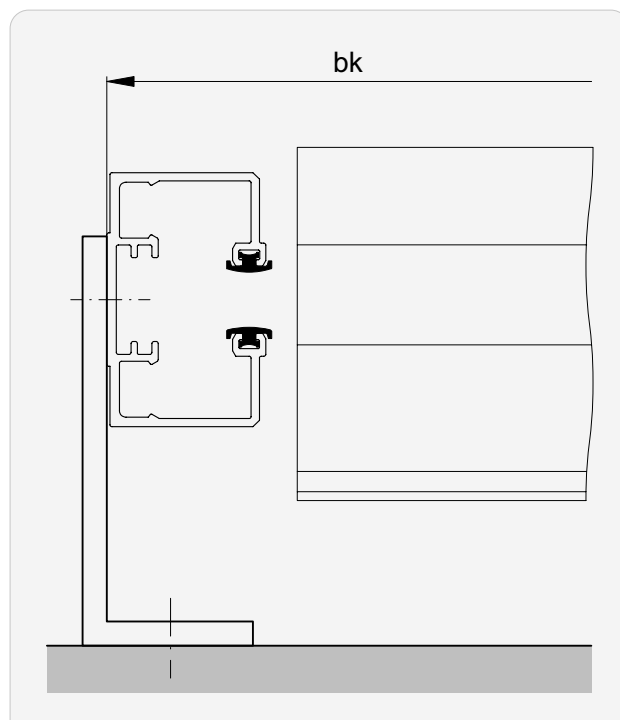
-  Bearing
-  Standard motor position
-  Possible motor position (on request)

## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



### Guides suspended

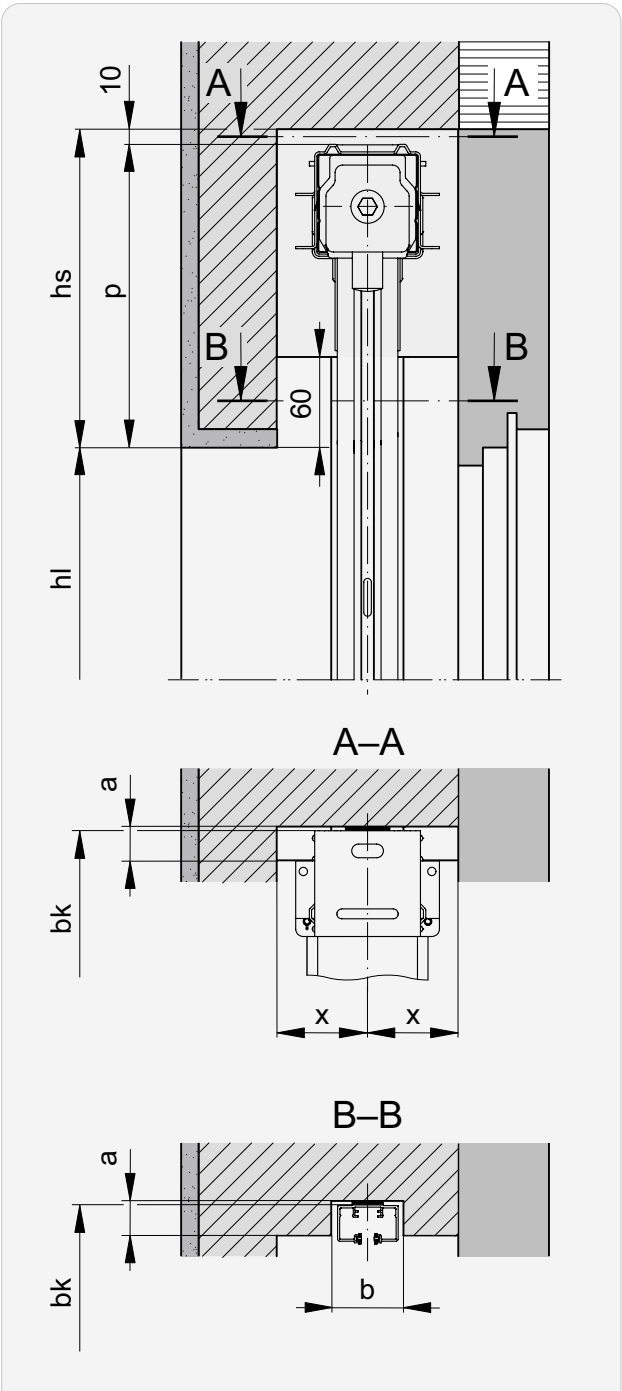


**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

►► Guide rail installation (principle)

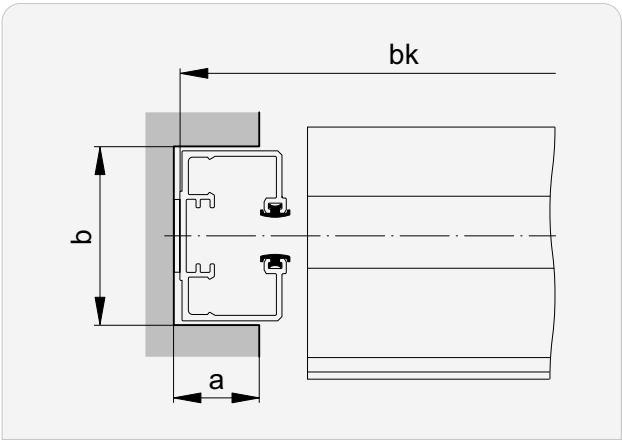
Guides recessed

Type F\*



\*Type F | Without guide cut-out:

Only possible if curtain can be retracted from below.



**a**

$\leq 20$

**b**

$\geq 42$

Product | Version

Lamisol® III 90 Vento

x min.

65

## Guide rail fastenings (principle)

### Overview

| Type |   |                |   |                |   |   |   |   |    |   |   |    |                |    |
|------|---|----------------|---|----------------|---|---|---|---|----|---|---|----|----------------|----|
| A    | B | Bd             | C | Cd             | E | F | G | H | Kv | M | T | Tv | V              | Wv |
| ●    | — | ○ <sup>1</sup> | — | ○ <sup>1</sup> | — | — | — | — | —  | — | — | —  | ○ <sup>2</sup> | —  |

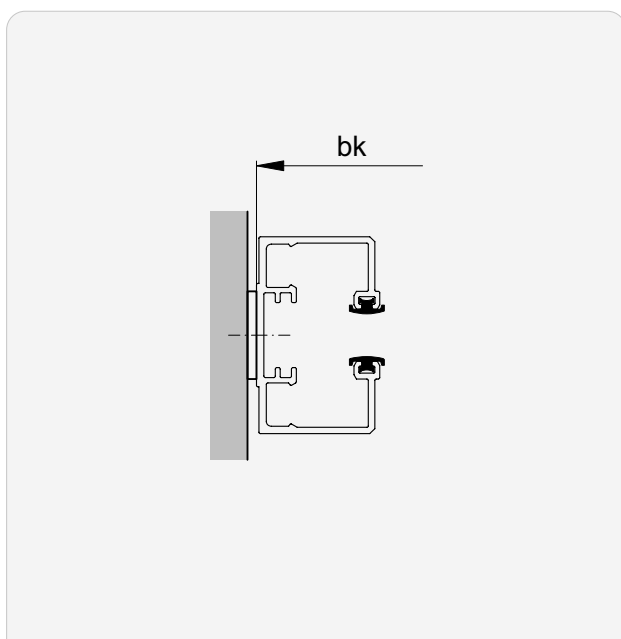
● applicable without restrictions

○ applicable with restrictions:

<sup>1</sup> A = max. 100

<sup>2</sup> only with continuous fastening bracket

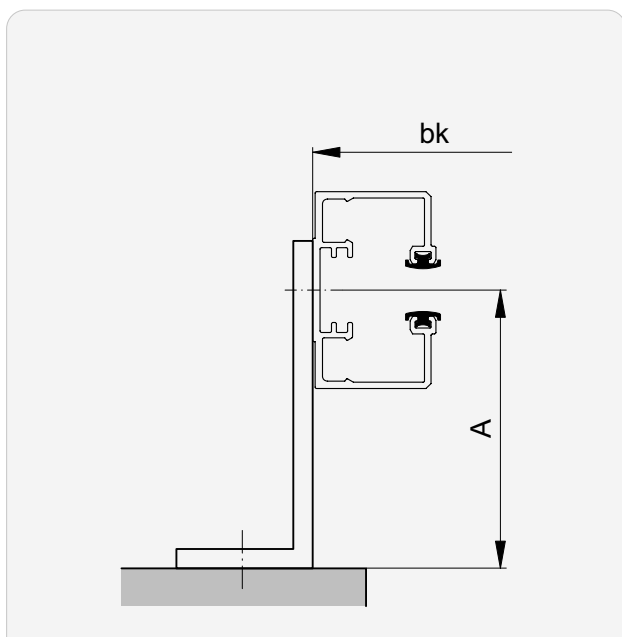
### A Soffit installation



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

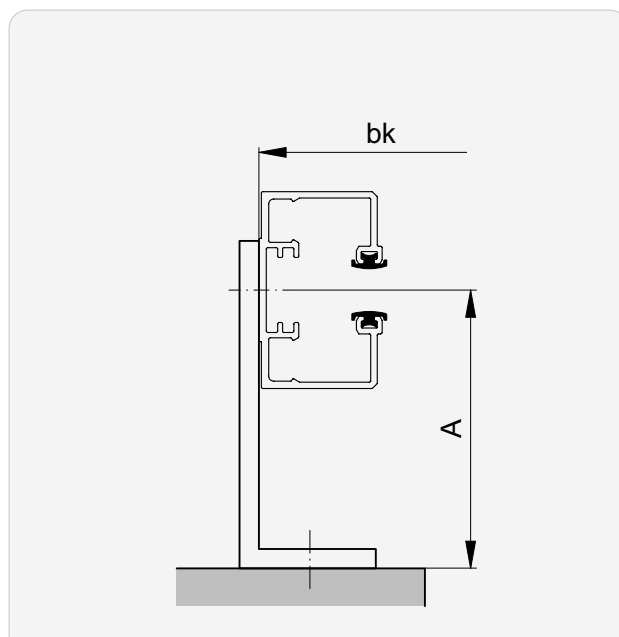
## ►► Guide rail fastenings (principle)

### **Bd** Installation with continuous fastening bracket



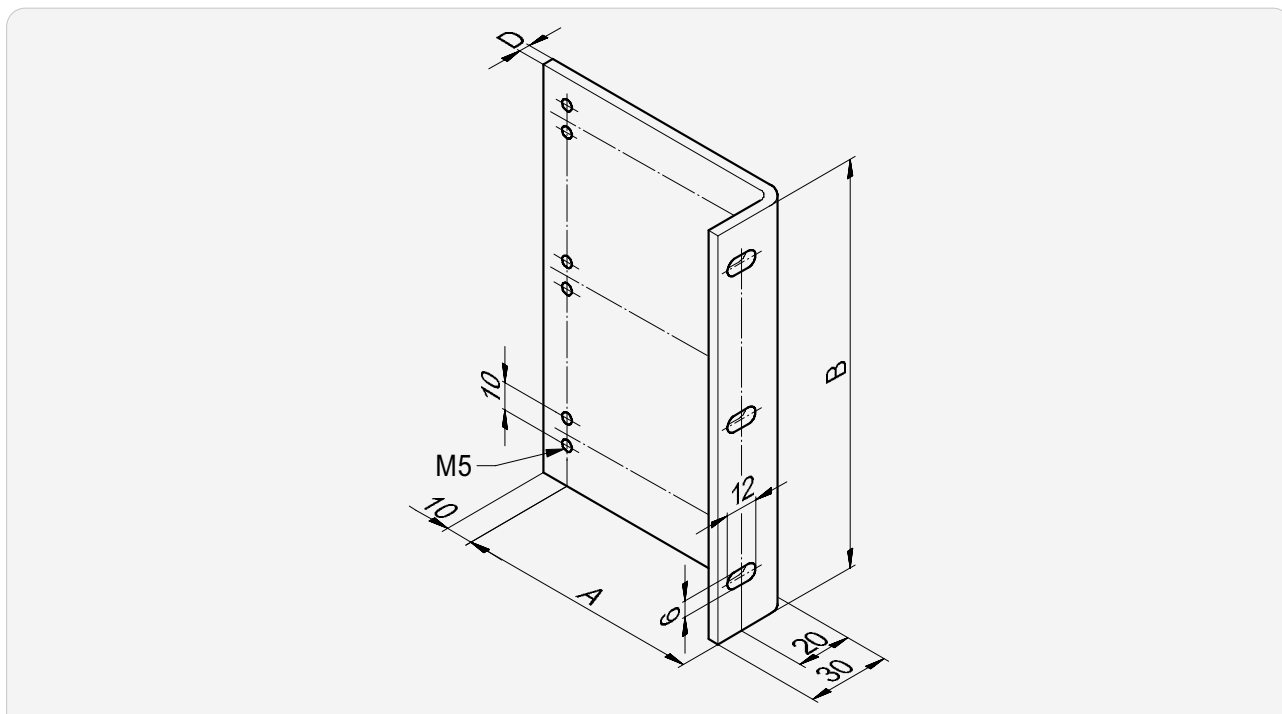
Bracket outwards

### **Cd** Installation with continuous fastening bracket



Bracket inwards

### Continuous fastening bracket for types Bd and Cd



**A\***

20...300

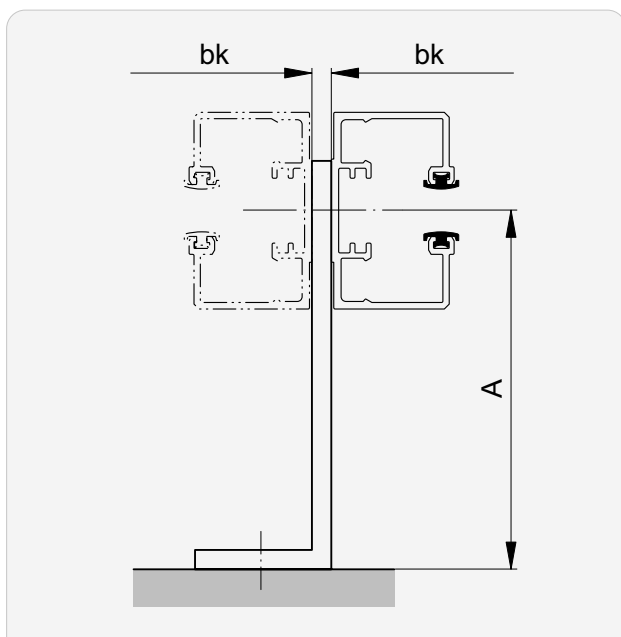
**D**

always 4

\* in 5 mm steps

## ►► Guide rail fastenings (principle)

### **V** Installation with one bracket

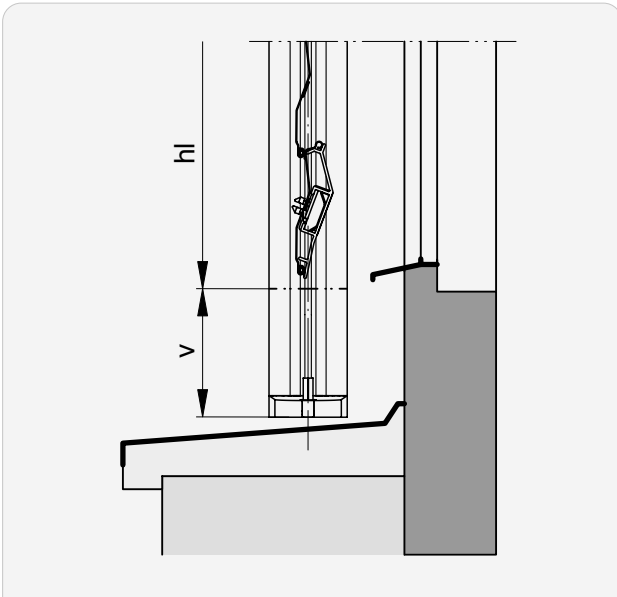


The blind on the right uses the fastening for the blind on the left.

## Guide extension

---

### Extension



---

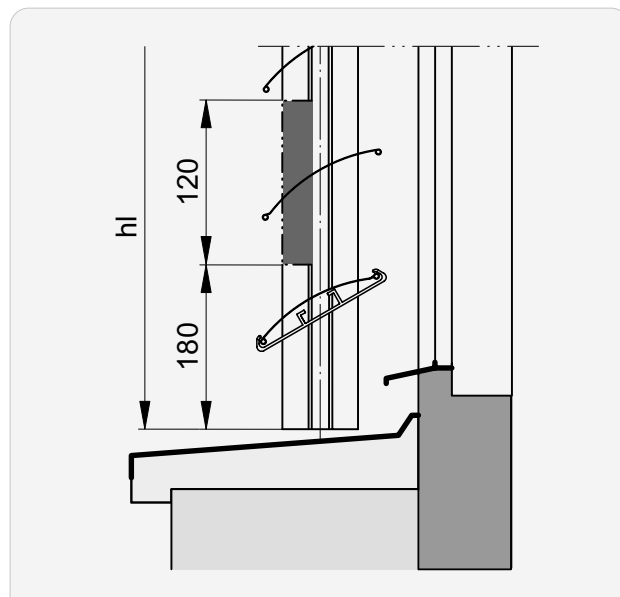
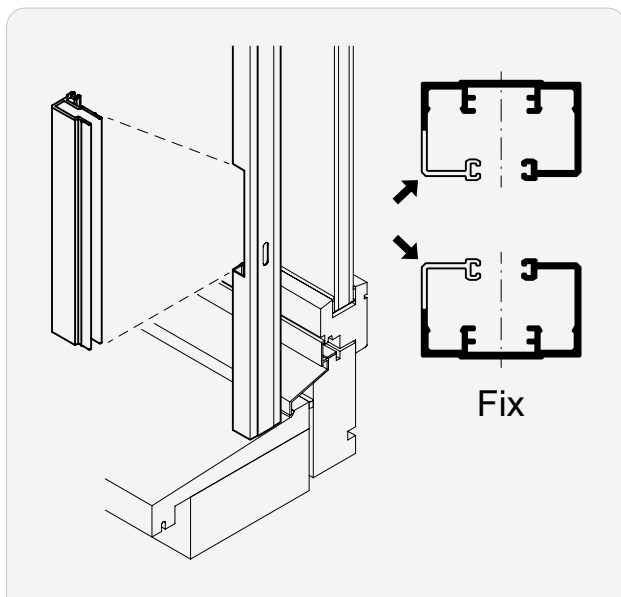
**v**

0...500

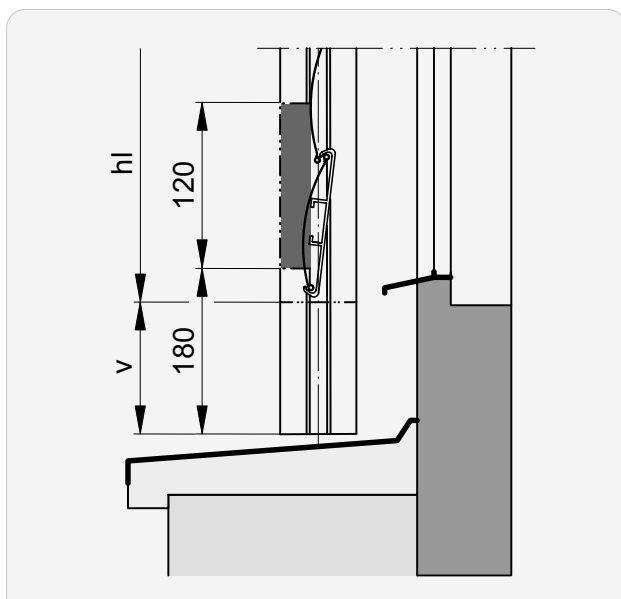
---

## Installation window

### Without extension



### With extension

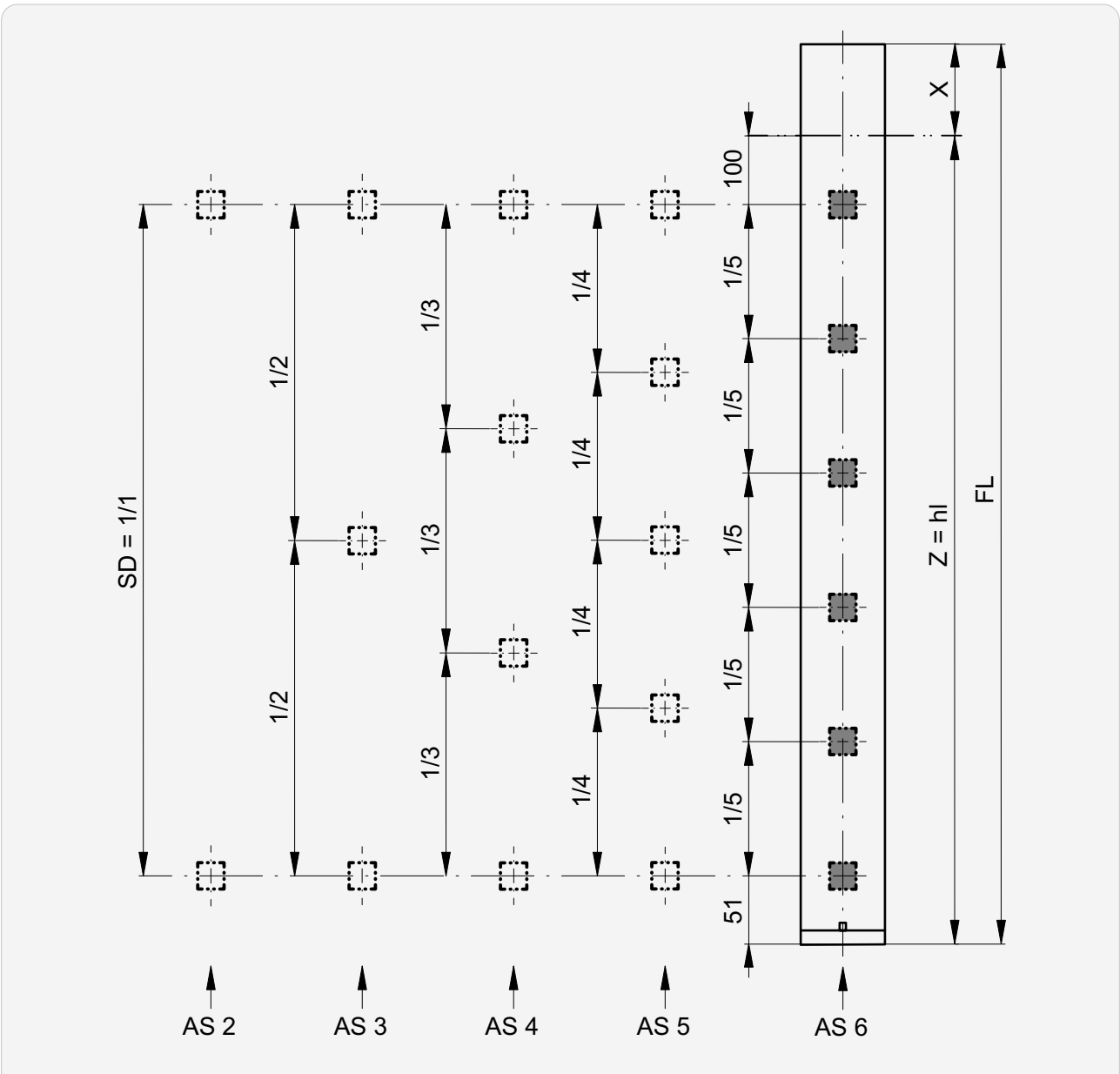


▼ Guide rail extension: max. 1000

## Fastening points

### Without extension

| Z            | AS |
|--------------|----|
| ≤740         | 2  |
| 741 ... 1340 | 3  |
| 1341...1940  | 4  |
| 1941... 2540 | 5  |
| > 2540       | 6  |



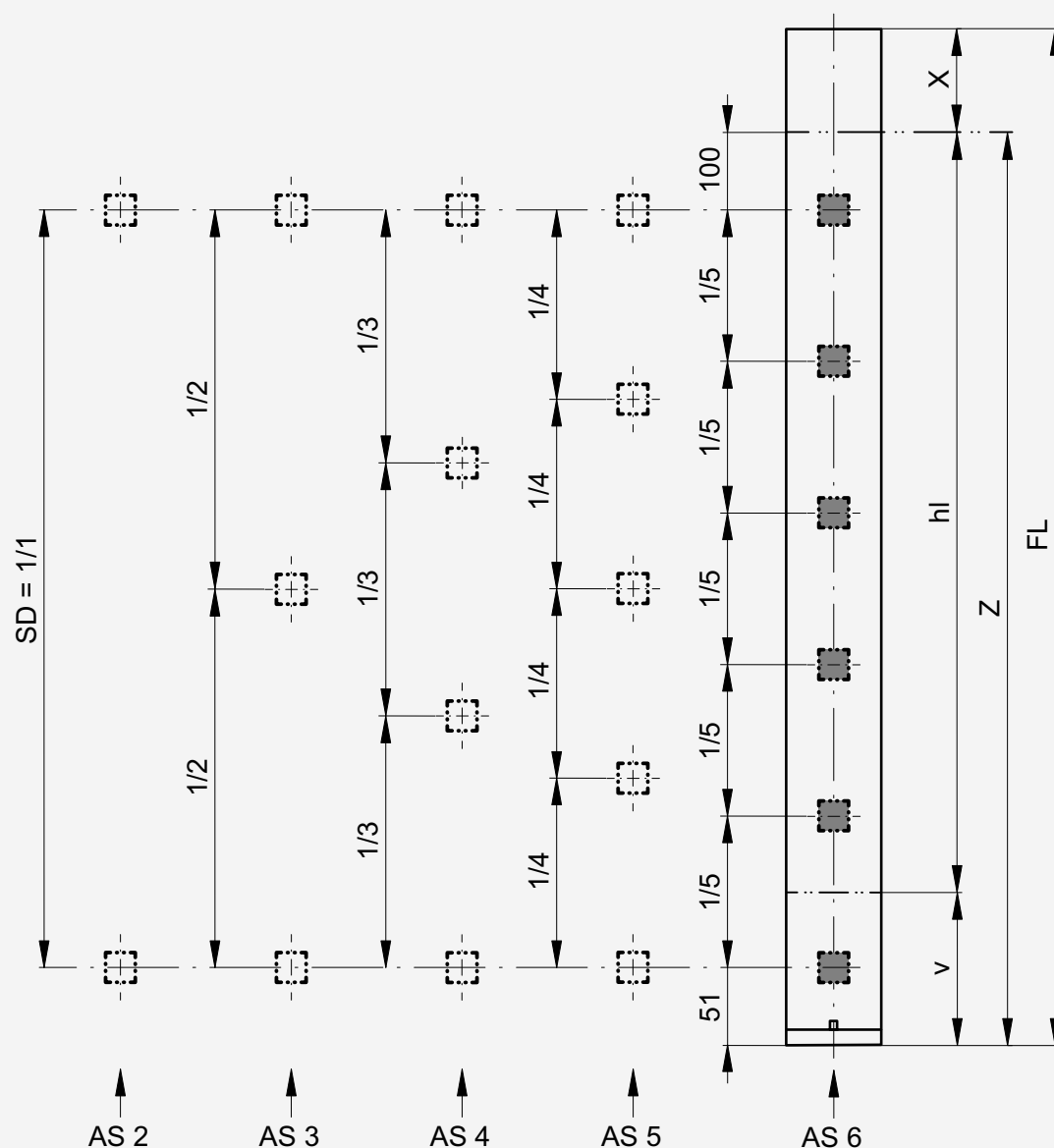
**AS** Number of slits

**SD** Slot spacing: max. 600

## ►► Fastening points

### With guide rail extension

| <b>Z</b>     | <b>AS</b> |
|--------------|-----------|
| ≤740         | 2         |
| 741 ... 1340 | 3         |
| 1341...1940  | 4         |
| 1941... 2540 | 5         |
| > 2540       | 6         |



**AS** Number of slits

**v** Guide rail extension: max. 500

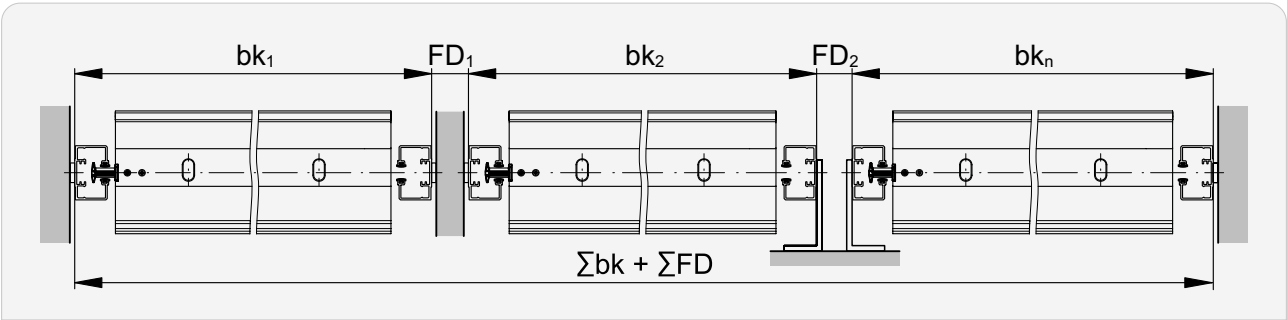
**SD** Slot spacing: max. 600

|                              |     |
|------------------------------|-----|
| ► Guide extension.....       | 170 |
| ► Guide rail fastenings..... | 167 |

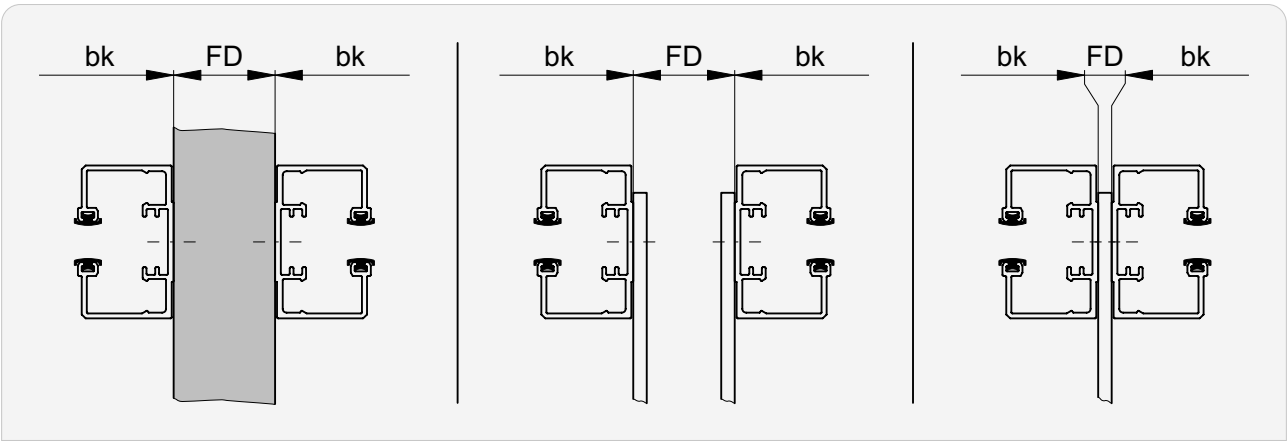
|                             |     |
|-----------------------------|-----|
| ► Installation window ..... | 171 |
|-----------------------------|-----|

Connected systems

System width



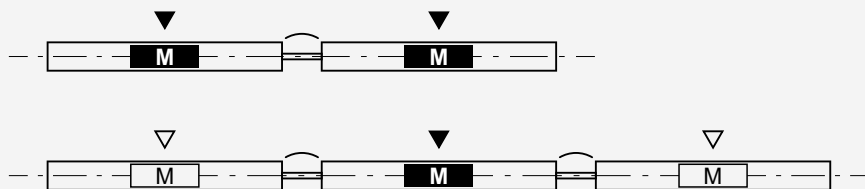
Distance between guides FD



| FD min. | FD max. |
|---------|---------|
| 5       | 1000    |

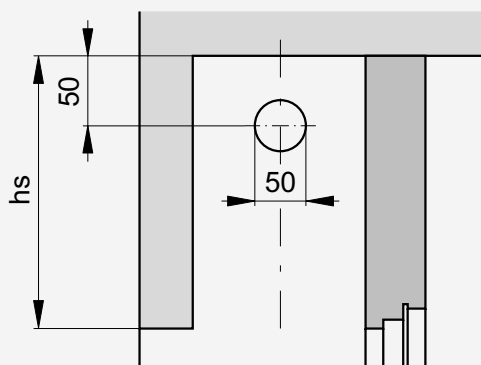
## ►► Connected systems

### Drive position connected blinds



▼ Standard drive position

▽ Possible drive position



## Technical data of motors

### Performance characteristics

| Type          |       | Limit switch |           | M    | n        | P   | I    |
|---------------|-------|--------------|-----------|------|----------|-----|------|
|               |       | Type         | Number of | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |       |              |           |      |          |     |      |
| Elero         |       |              |           |      |          |     |      |
| ES...         | 06.01 | mechanical   | 2         | 6    | 26       | 110 | 0.50 |
|               | 09.01 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.01 |              |           | 20   |          | 190 | 1.05 |
| ES...         | 06.51 | mechanical   | 3         | 6    | 26       | 110 | 0.50 |
|               | 09.51 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.51 |              |           | 20   |          | 190 | 1.05 |
| Option        |       |              |           |      |          |     |      |
| Somfy         |       |              |           |      |          |     |      |
| SH...         | 06.01 | mechanical   | 2         | 6    | 24       | 95  | 0.40 |
|               | 10.01 |              |           | 10   |          | 110 | 0.65 |
|               | 18.01 |              |           | 18   |          | 155 | 1.00 |
| SW...         | 06.01 |              |           | 6    |          | 95  | 0.40 |
| SI...         | 10.01 | electronic   | 2         | 10   | 24       | 110 | 0.65 |
| SR...         | 18.01 |              |           | 18   |          | 155 | 1.00 |
| Elero Comfort |       |              |           |      |          |     |      |
| ECM...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| ECB...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| Geiger AIR    |       |              |           |      |          |     |      |
| GA...         | 06.01 | electronic   | 2         | 6    | 26       | 93  | 0.40 |
|               | 06.10 |              |           | 10   |          | 135 | 0.60 |
|               | 06.20 |              |           | 20   |          | 190 | 0.85 |

**I** Current consumption

**M** Torque

**n** Rotational speed

**P** Power consumption





# Aluflex®

|                                        |     |
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## Rail guide

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## Cable guide

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## Limit dimensions Aluflex®

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>2</sup> max.<br>(bk)     | Height min.<br>(hl) | Height max.<br>(hl)    | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|-------------------------------------|---------------------|------------------------|------------------------------------------------|
| Crank drive |                      |                                     |                     |                        |                                                |
| Motor drive | 550*                 | 4500 <sup>6</sup> 5000 <sup>7</sup> | 550                 | 4500 4000 <sup>5</sup> | 11                                             |
|             | 625 630 <sup>5</sup> |                                     |                     |                        | 20                                             |

### Connected systems

| Operation                | Width <sup>2</sup> max.<br>(bk) | Blinds max. | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|--------------------------|---------------------------------|-------------|------------------------------------------------|
| Crank drive <sup>1</sup> |                                 |             |                                                |
| Motor drive <sup>4</sup> |                                 |             |                                                |
|                          | 10 000                          | 4           | 11                                             |
|                          |                                 |             | 24                                             |

<sup>1</sup> A max. of 2 blinds may be connected on each side of the gearbox.

\* with MBMA— on request

## Limit dimensions Aluflex® Box

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>2</sup> max.<br>(bk)     | Height min.<br>(gh) | Height max.<br>(gh)    | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|-------------------------------------|---------------------|------------------------|------------------------------------------------|
| Motor drive | 625 630 <sup>5</sup> | 4500 <sup>6</sup> 5000 <sup>7</sup> | 735                 | 4760 4000 <sup>5</sup> | 11                                             |

### Connected systems

| Operation                | Width <sup>2</sup> max.<br>(bk) | Blinds max. | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|--------------------------|---------------------------------|-------------|------------------------------------------------|
| Motor drive <sup>4</sup> |                                 |             |                                                |
|                          | 10 000                          | 4           | 24                                             |

<sup>2</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

<sup>3</sup> If crank drive is in slat area: maximum surface area and crank position available on request.

<sup>4</sup> For 3 or 4 blinds, the motor should be positioned in the center..

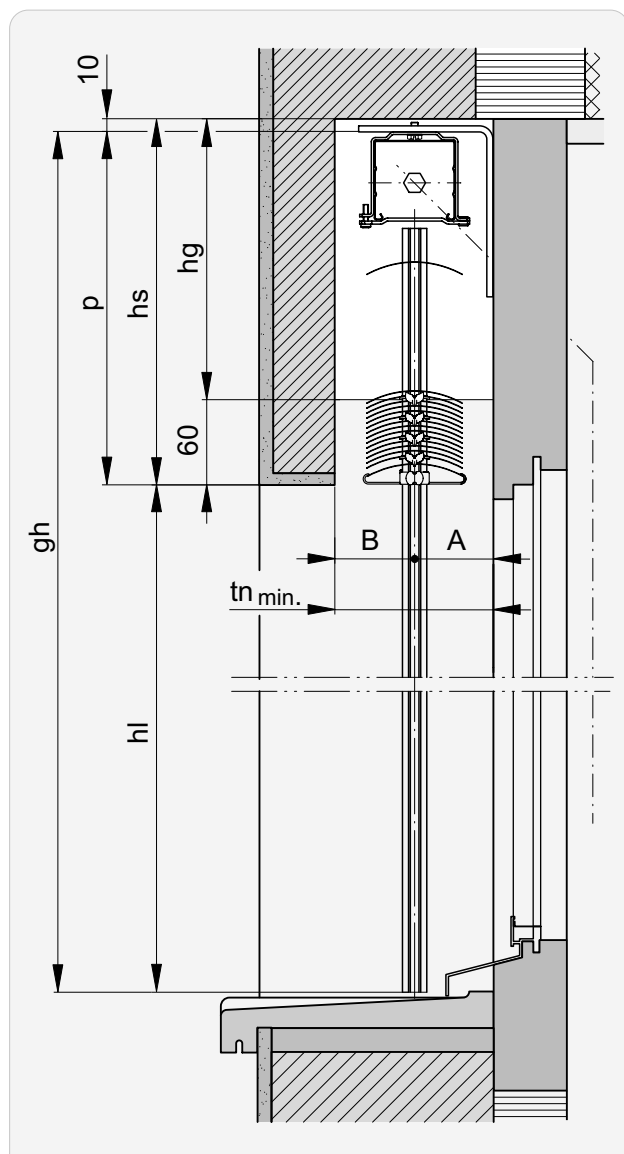
<sup>5</sup> Radio motor Geiger AIR

<sup>6</sup> Aluflex® guide rails

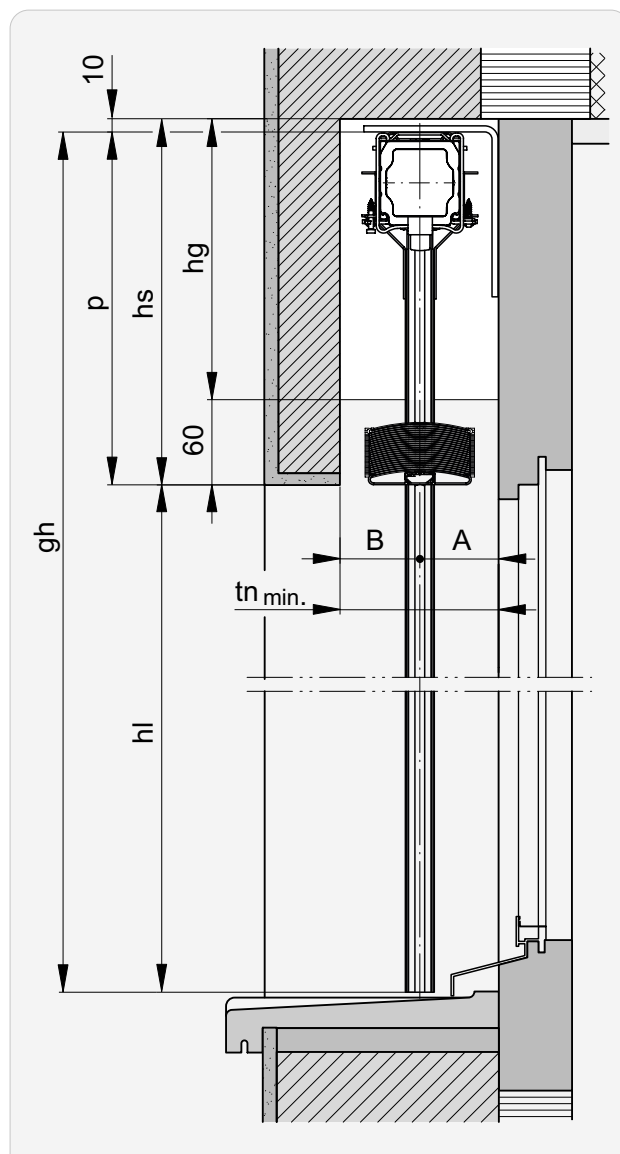
<sup>7</sup> Aluflex® cable guide

## Built-in system

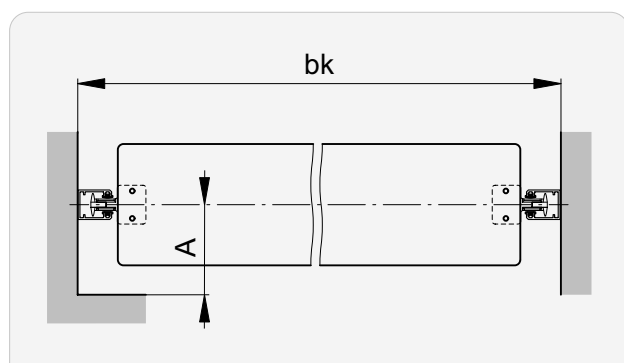
Vertical section: Guide rail conventional



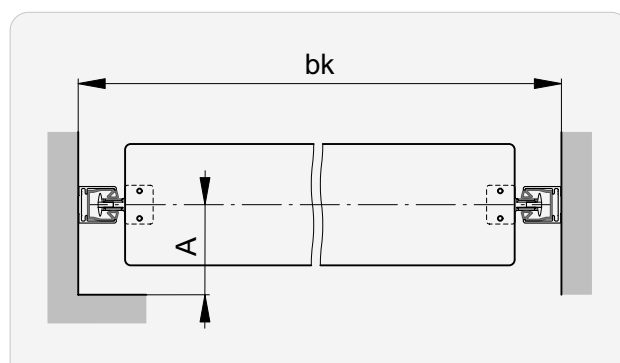
Vertical section: Guide rail Fix-L



Horizontal section: Guide rail conventional

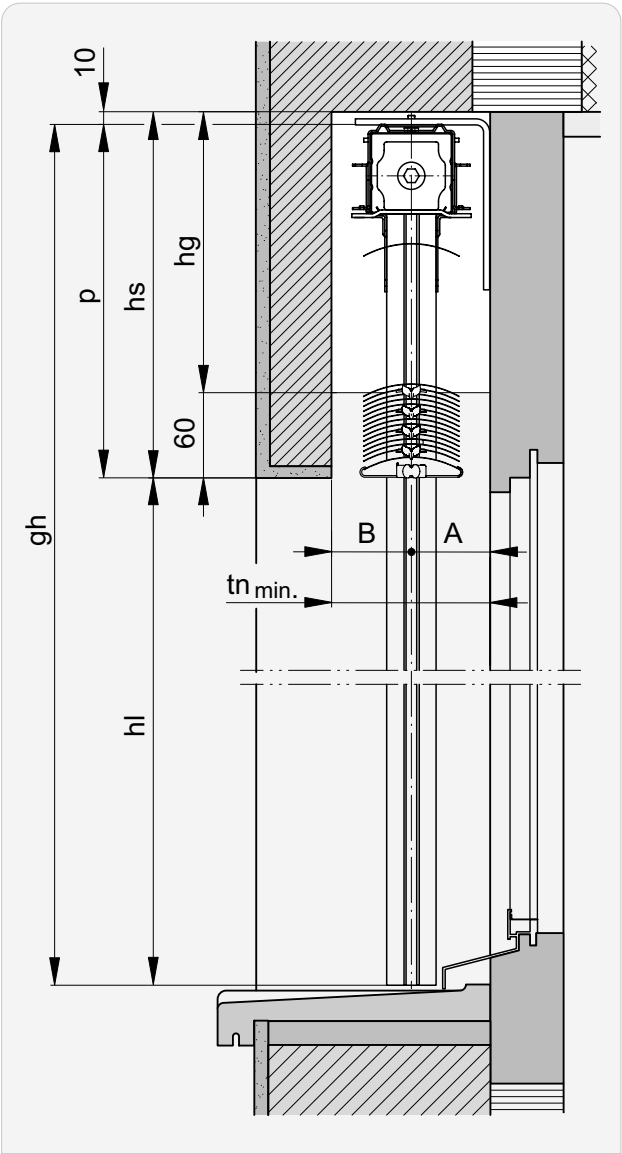


Horizontal section: Guide rail Fix-L

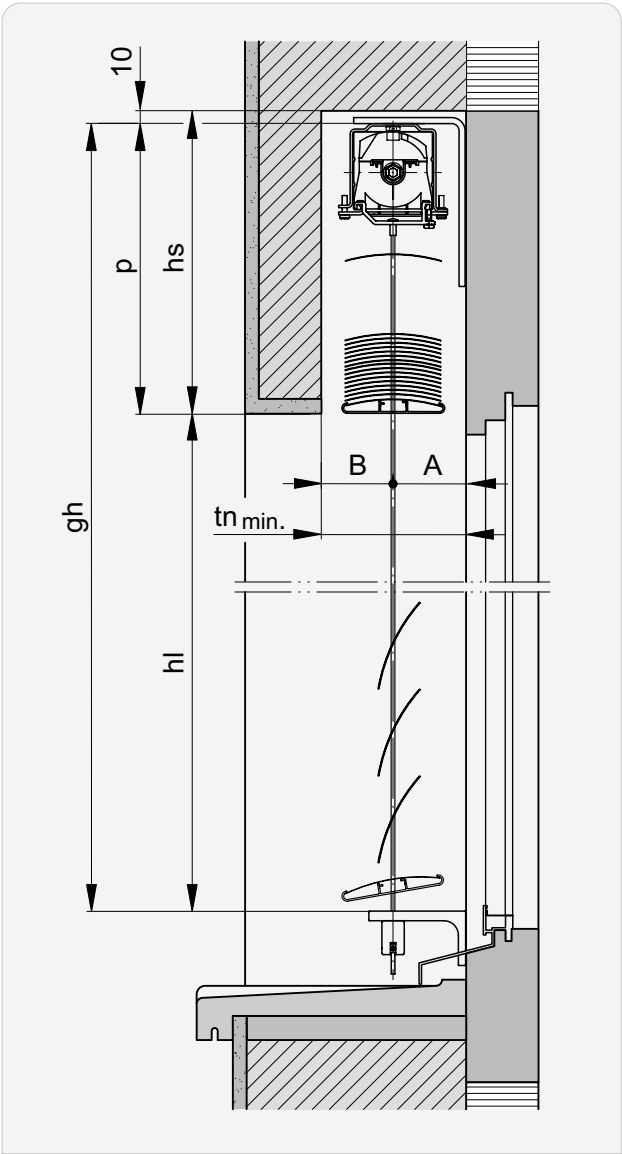


►► Built-in system

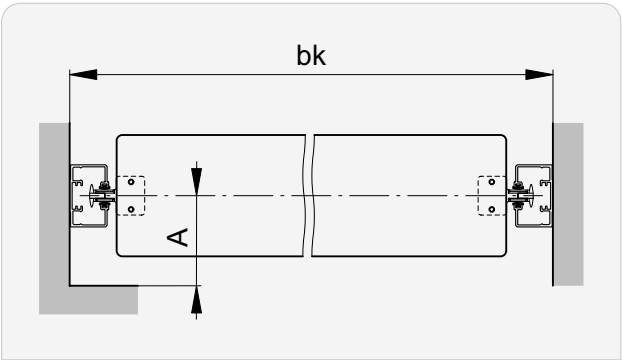
Vertical section: Guide rail Fix



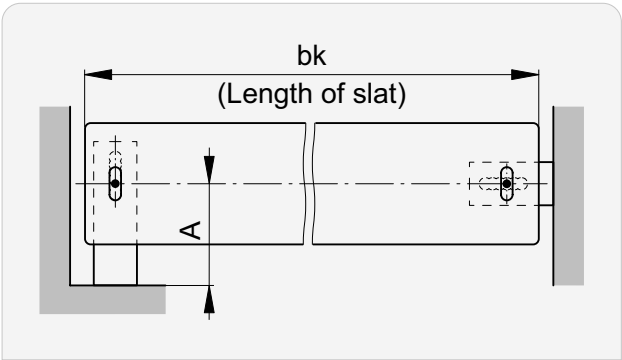
Vertical section: Cable guide



Horizontal section: Guide rail Fix

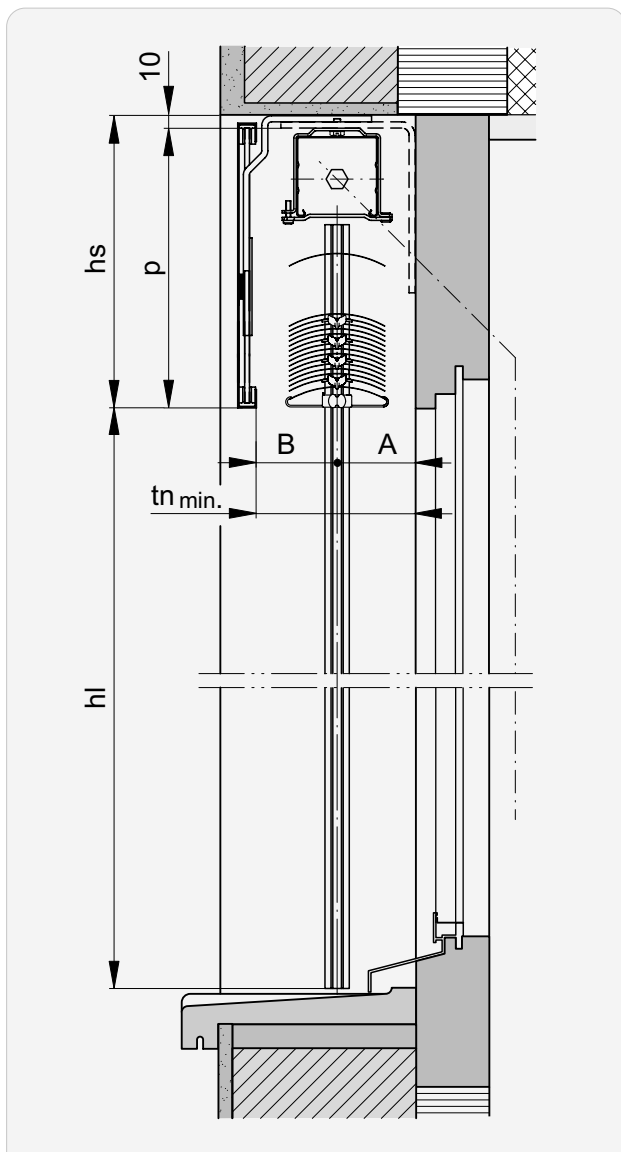


Horizontal section: Cable guide

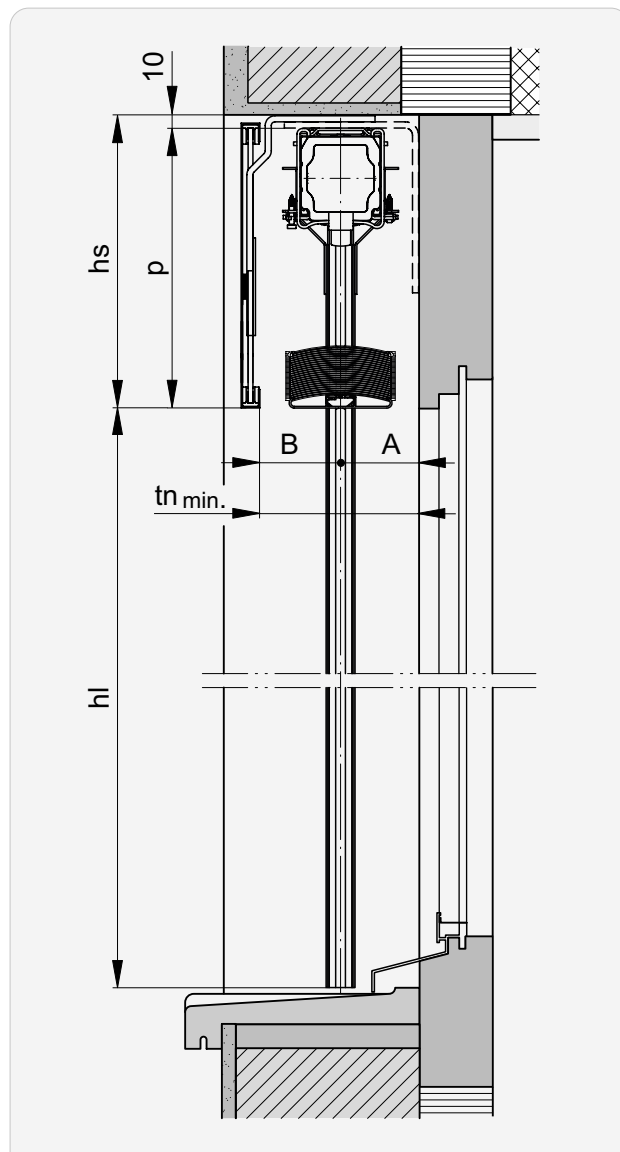


## Built-in system with cover

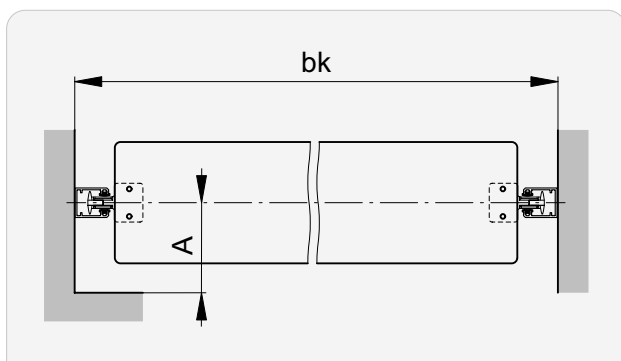
Vertical section: Guide rail conventional



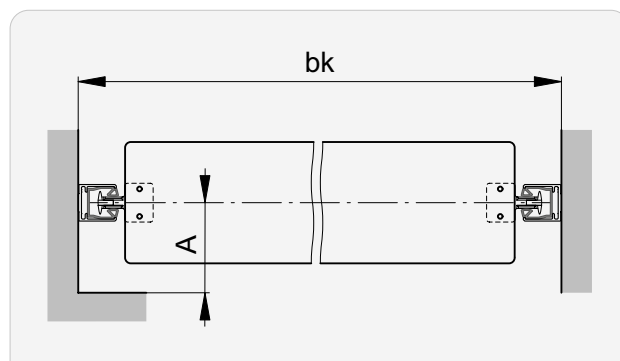
Vertical section: Guide rail Fix-L



Horizontal section: Guide rail conventional

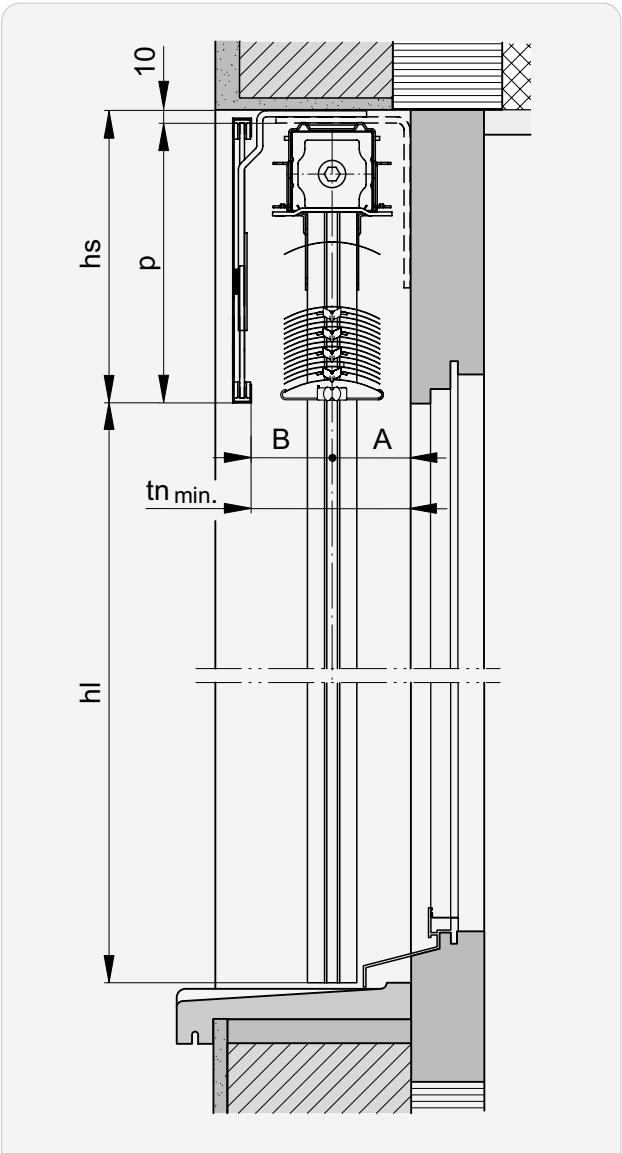


Horizontal section: Guide rail Fix-L

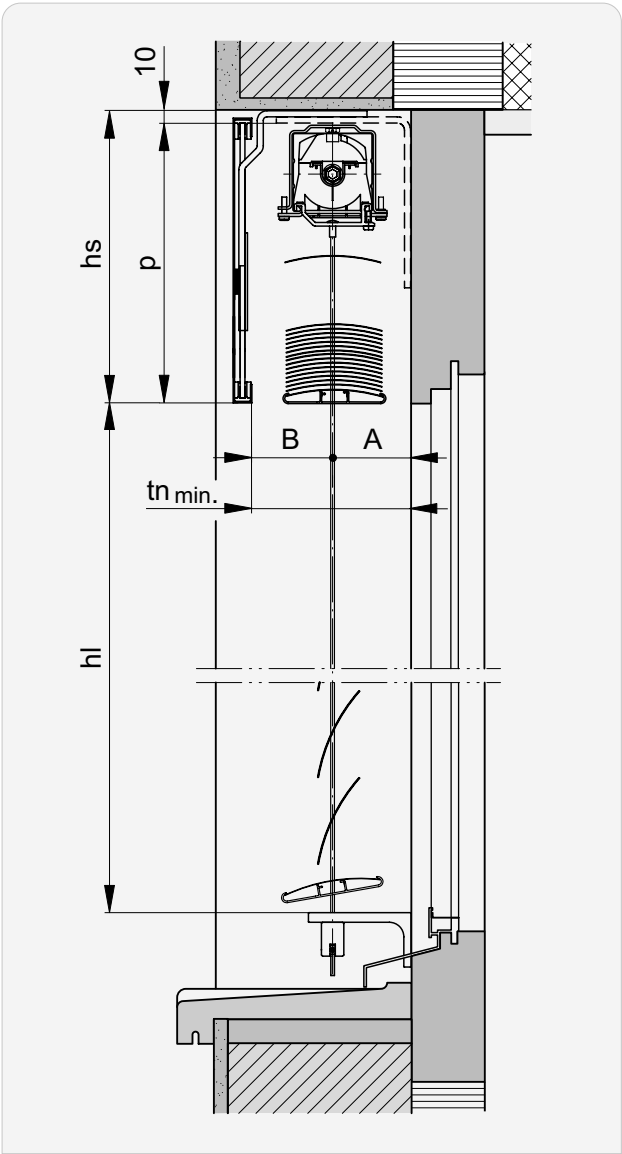


►► Built-in system with cover

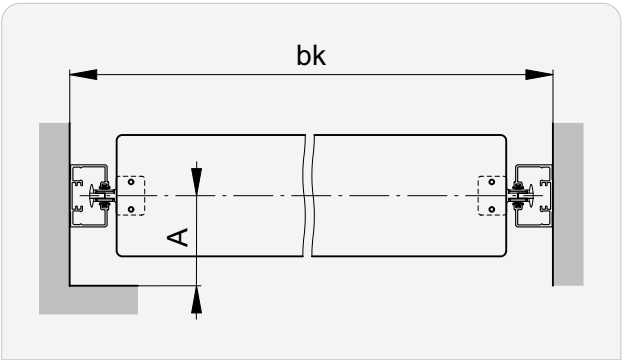
Vertical section: Guide rail Fix



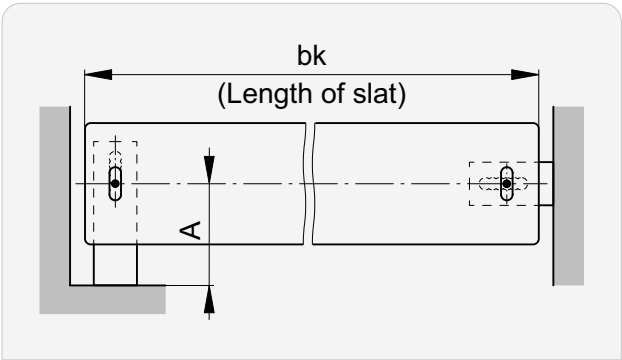
Vertical section: Cable guide



Horizontal section: Guide rail Fix

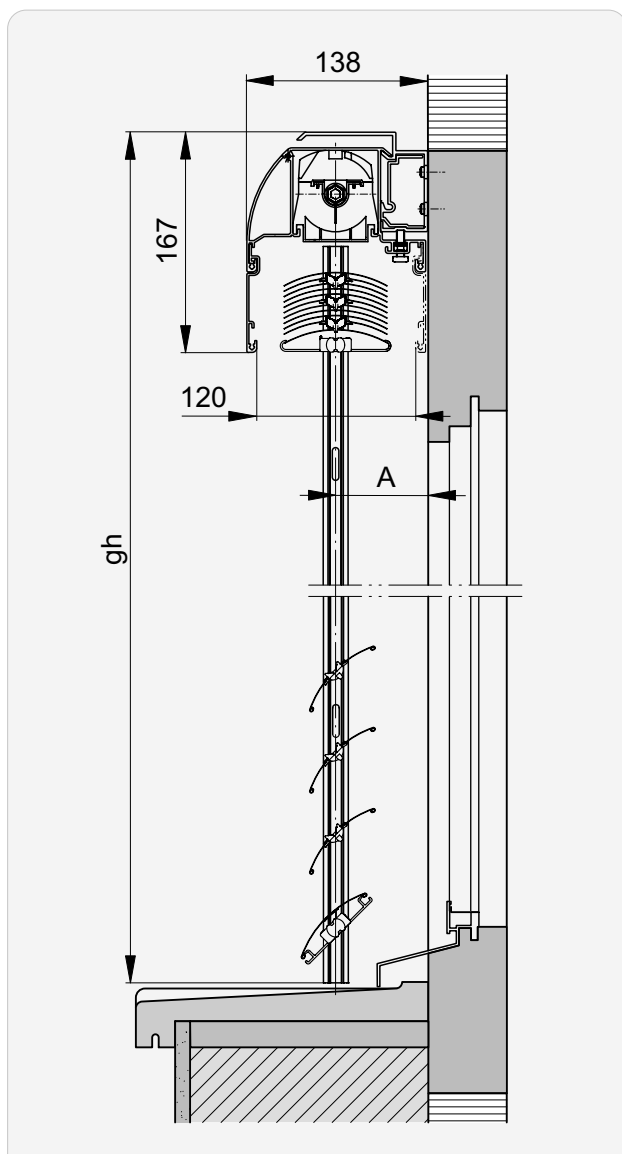


Horizontal section: Cable guide

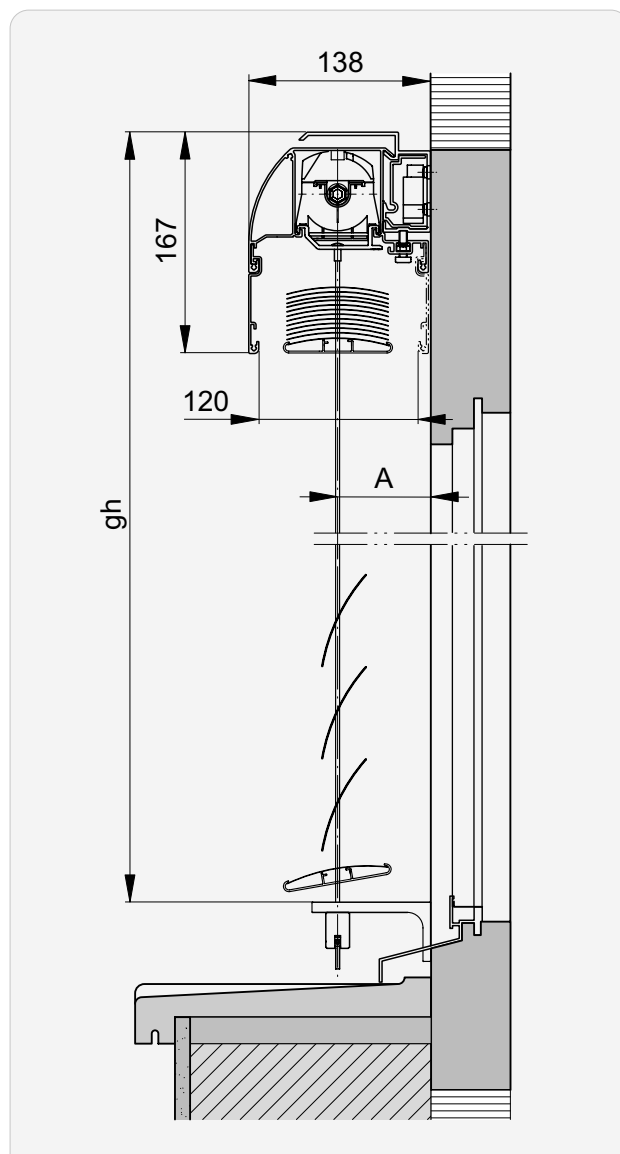


## Installation system with box

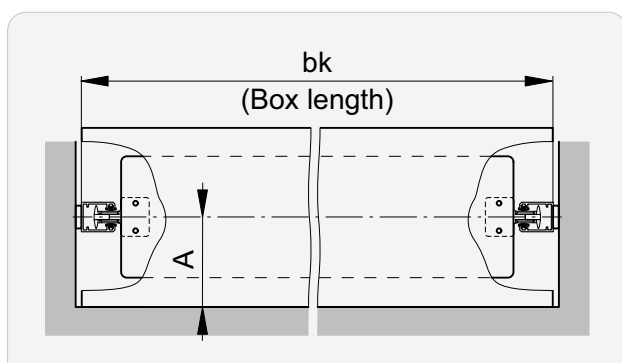
Vertical section: Guide rail conventional



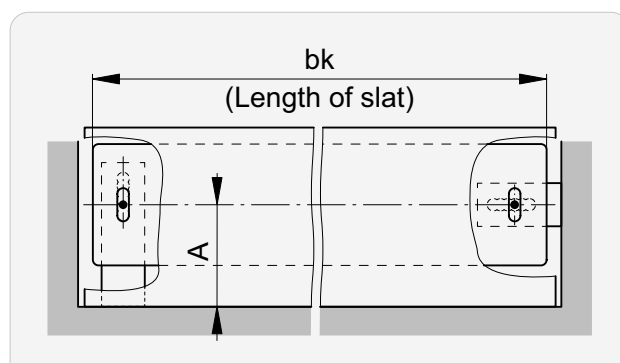
Vertical section: Cable guide



Horizontal section: Guide rail conventional

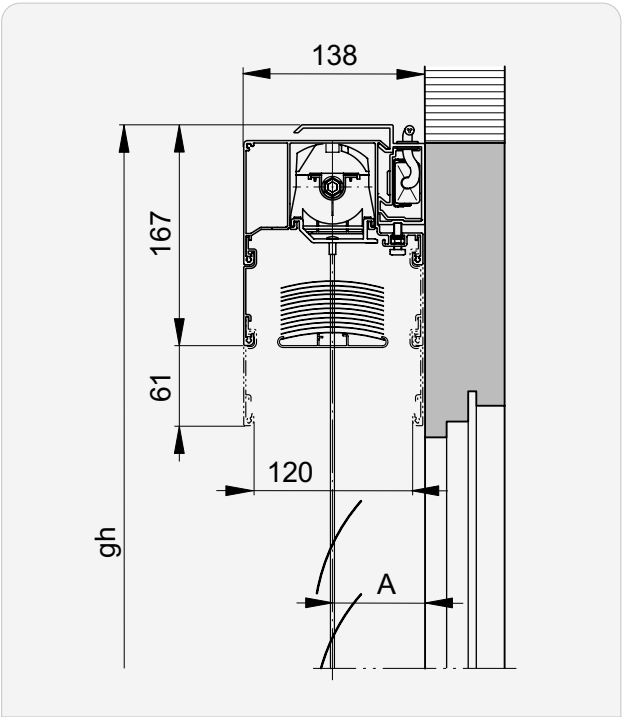


Horizontal section: Cable guide



►► Installation system with box

Vertical section: Box square



➡ Value for **A**.....187

Box extensions and package projection

Aluflex® Box 60

| Height<br>(gh) | Number of<br>extensions | Height<br>(gh) | Projection* | Height<br>(gh) | Projection* |
|----------------|-------------------------|----------------|-------------|----------------|-------------|
| 700 ... 1100   | 1                       | 2501... 2600   | 5           | 3501... 3600   | 55          |
| 1101 ... 2500  | 2                       | 2601... 2700   | 10          | 3601... 3700   | 60          |
|                |                         | 2701... 2800   | 15          | 3701... 3800   | 65          |
|                |                         | 2801... 2900   | 20          | 3801... 3900   | 70          |
|                |                         | 2901... 3000   | 25          | 3901... 4000   | 75          |
|                |                         | 3001... 3100   | 30          | 4001... 4100   | 80          |
|                |                         | 3101... 3200   | 35          | 4101... 4200   | 85          |
|                |                         | 3201... 3300   | 40          | 4201... 4300   | 90          |
|                |                         | 3301... 3400   | 45          | 4301... 4400   | 95          |
|                |                         | 3401... 3500   | 50          | 4401... 4500   | 100         |

Aluflex® Box 80

| Height<br>(gh) | Number of<br>extensions | Height<br>(gh) | Projection* | Height<br>(gh) | Projection* |
|----------------|-------------------------|----------------|-------------|----------------|-------------|
| 700 ... 1800   | 1                       | 4101... 4200   | 2           | 4301... 4400   | 8           |
| 1801 ... 4100  | 2                       | 4201... 2300   | 5           | 4401... 4500   | 11          |

\* Slat package not covered (package projection)

## Header dimensions | Heights of package

## Aluflex® 60

| hl → l | P min. | hs <sup>1</sup> | hl → l | P min. | hs <sup>1</sup> |
|--------|--------|-----------------|--------|--------|-----------------|
| 600    | 146    | 160             | 2600   | 234    | 255             |
| 700    | 150    | 165             | 2700   | 239    | 260             |
| 800    | 155    | 170             | 2800   | 243    | 260             |
| 900    | 159    | 175             | 2900   | 247    | 265             |
| 1000   | 164    | 180             | 3000   | 252    | 270             |
| 1100   | 168    | 185             | 3100   | 256    | 275             |
| 1200   | 173    | 190             | 3200   | 261    | 280             |
| 1300   | 177    | 190             | 3300   | 265    | 285             |
| 1400   | 181    | 195             | 3400   | 269    | 290             |
| 1500   | 186    | 200             | 3500   | 274    | 290             |
| 1600   | 190    | 205             | 3600   | 278    | 295             |
| 1700   | 195    | 210             | 3700   | 283    | 300             |
| 1800   | 199    | 215             | 3800   | 287    | 305             |
| 1900   | 203    | 220             | 3900   | 291    | 310             |
| 2000   | 208    | 225             | 4000   | 296    | 315             |
| 2100   | 212    | 230             | 4100   | 300    | 320             |
| 2200   | 217    | 235             | 4200   | 305    | 325             |
| 2300   | 221    | 240             | 4300   | 309    | 325             |
| 2400   | 225    | 245             | 4400   | 313    | 330             |
| 2500   | 230    | 250             | 4500   | 318    | 335             |

## Aluflex® 80

| hl → l | P min. | hs <sup>1</sup> | hl → l | P min. | hs <sup>1</sup> |
|--------|--------|-----------------|--------|--------|-----------------|
| 600    | 135    | 160             | 2600   | 190    | 205             |
| 700    | 138    | 160             | 2700   | 193    | 205             |
| 800    | 140    | 160             | 2800   | 196    | 210             |
| 900    | 143    | 160             | 2900   | 199    | 210             |
| 1000   | 146    | 160             | 3000   | 201    | 215             |
| 1100   | 149    | 160             | 3100   | 204    | 215             |
| 1200   | 151    | 165             | 3200   | 207    | 220             |
| 1300   | 154    | 165             | 3300   | 210    | 225             |
| 1400   | 157    | 170             | 3400   | 213    | 225             |
| 1500   | 160    | 175             | 3500   | 215    | 230             |
| 1600   | 163    | 175             | 3600   | 218    | 230             |
| 1700   | 165    | 180             | 3700   | 221    | 235             |
| 1800   | 168    | 180             | 3800   | 224    | 235             |
| 1900   | 171    | 185             | 3900   | 226    | 240             |
| 2000   | 174    | 185             | 4000   | 229    | 240             |
| 2100   | 176    | 190             | 4100   | 232    | 245             |
| 2200   | 179    | 190             | 4200   | 235    | 250             |
| 2300   | 182    | 195             | 4300   | 238    | 250             |
| 2400   | 185    | 200             | 4400   | 240    | 255             |
| 2500   | 188    | 200             | 4500   | 243    | 255             |

| Version                   | tn min. | A  | B  |
|---------------------------|---------|----|----|
| Built-in system           | 100*    | 50 | 50 |
| Installation system (Box) |         | 70 |    |

| Version                   | tn min. | A  | B  |
|---------------------------|---------|----|----|
| Built-in system           | 120*    | 60 | 60 |
| Installation system (Box) |         | 70 |    |

<sup>1</sup> If **surface area > 12 m<sup>2</sup>** or **bk > 4000**, the **end rail type 20 (reinforced)** is required. Then **hs = hs + 10**.  
 With gearbox in slot area: **hs + 20**.  
 For both box versions: **hs = hs + 7**.

\* + possible addition for protruding weatherboard or doorknobs.

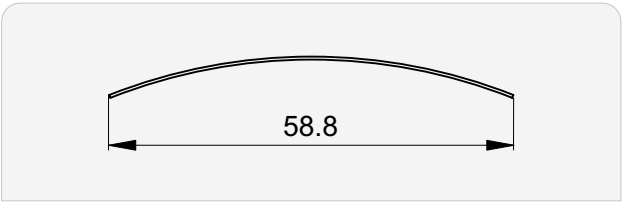
Valid for installation of Aluflex® conventional and Fix and also Aluflex® with tensioning cable guide.



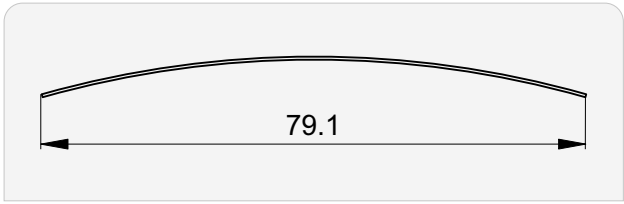
Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

Slat profiles

Aluflex® 60



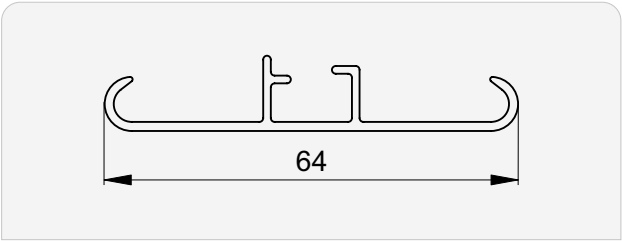
Aluflex® 80



End rails

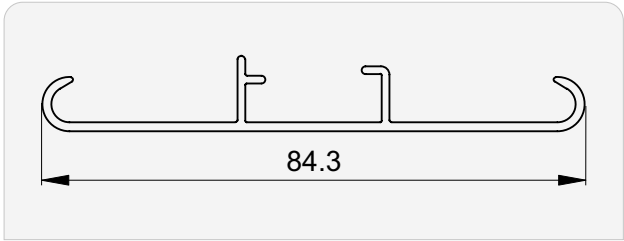
Aluflex® 60

Type 10

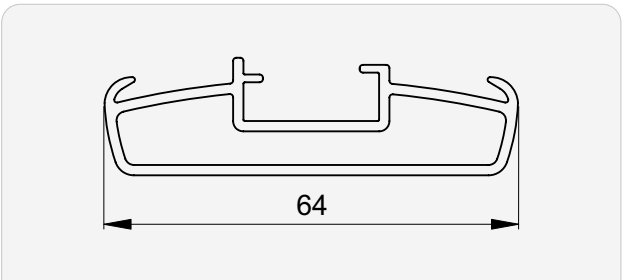


Aluflex® 80

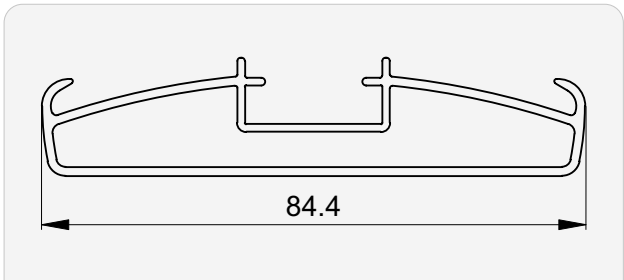
Type 10



Type 20 (reinforced)

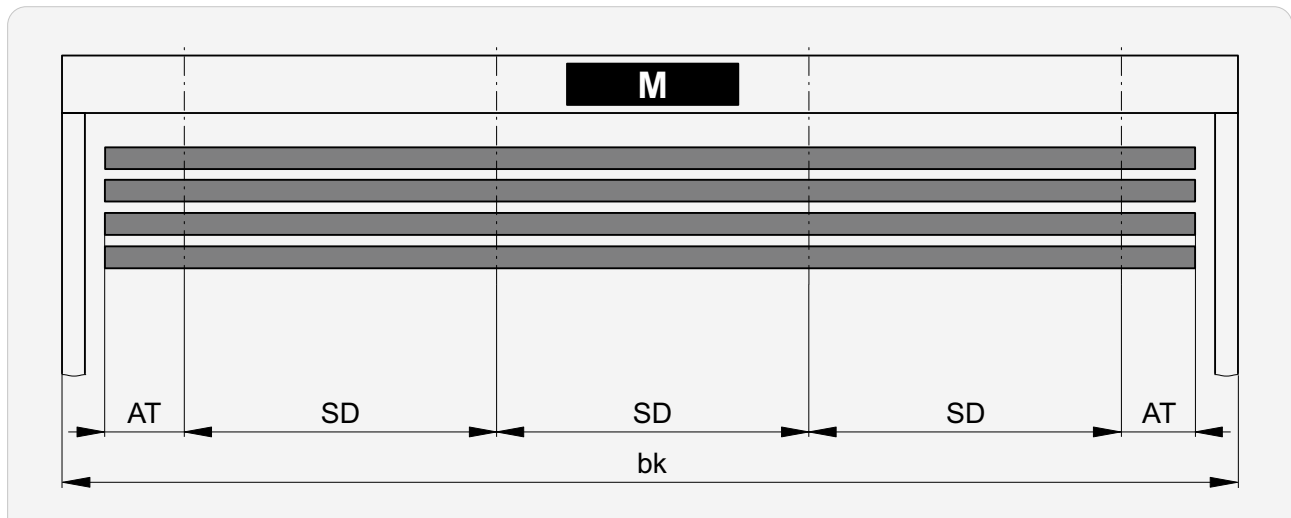


Type 20 (reinforced)



**i** If **surface area > 12 m²** or **bk > 4000**, the **end rail type 20 (reinforced)** is required.

## Beginning distance | Slot spacing



| bk         | AT min.       | SD min. | SD max. |
|------------|---------------|---------|---------|
| ≤610       | Conventional  | 50      |         |
|            | Fix           | 60      |         |
|            | Fix connected | 80      |         |
|            | Cable         | 67      |         |
| 611...1250 | Conventional  |         |         |
|            | Fix           | 100     | 250*    |
|            | Fix connected |         | 1000*   |
|            | Cable         | 117     |         |
| >1250      | Conventional  |         |         |
|            | Fix           | 200     |         |
|            | Fix connected |         |         |
|            | Cable         | 217     |         |

\* Standard slot spacing machine fabrication

Deviations from the standard are possible when:

| Deviation                | Correction |
|--------------------------|------------|
| MBMA+ < 40               | AT         |
| Support loading too high | AS         |
| Slot spacing < 250       | AT + AS    |
| With motor               | AT + AS    |

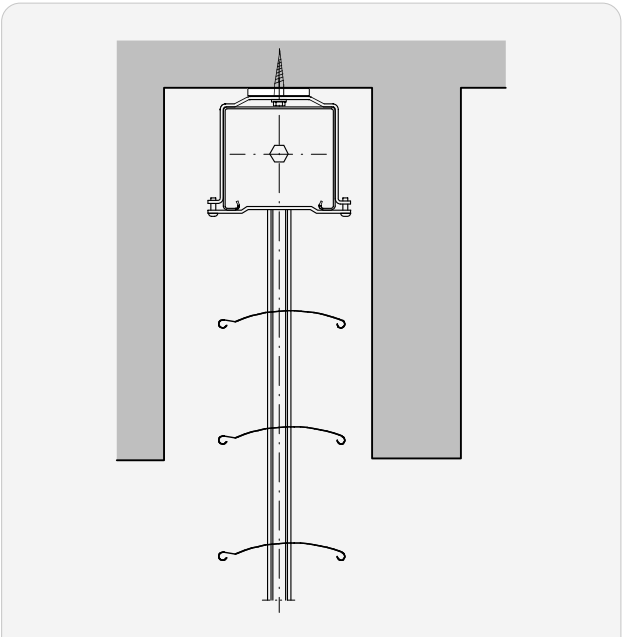
**AT** Beginning distance  
Distance from beginning of slot to centre of bearing

**SD** Slot spacing  
Distance from centre of bearing (slot) to centre of bearing (slot)

Housing fastening

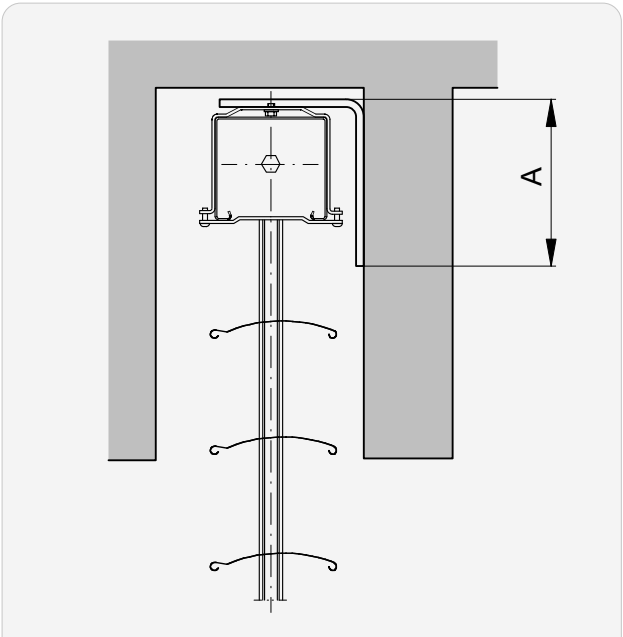
At top

NO

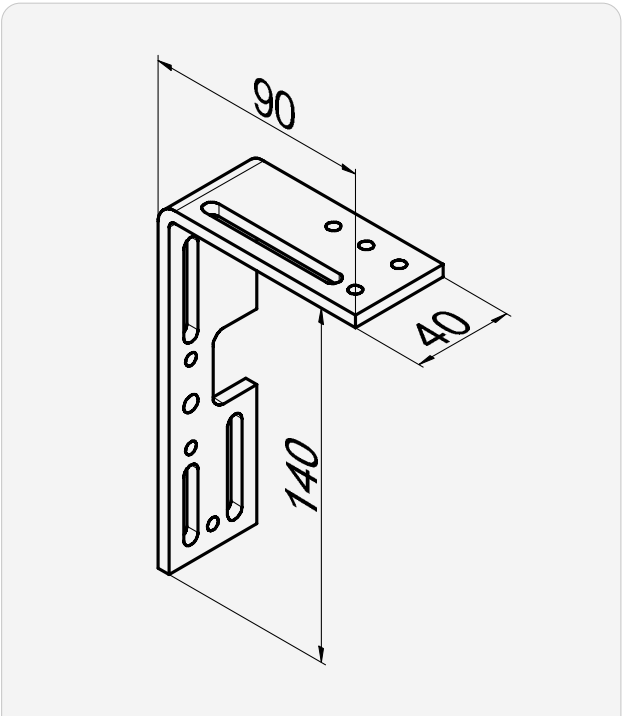


Box support

KT



Box support for type KT, for small headers\*

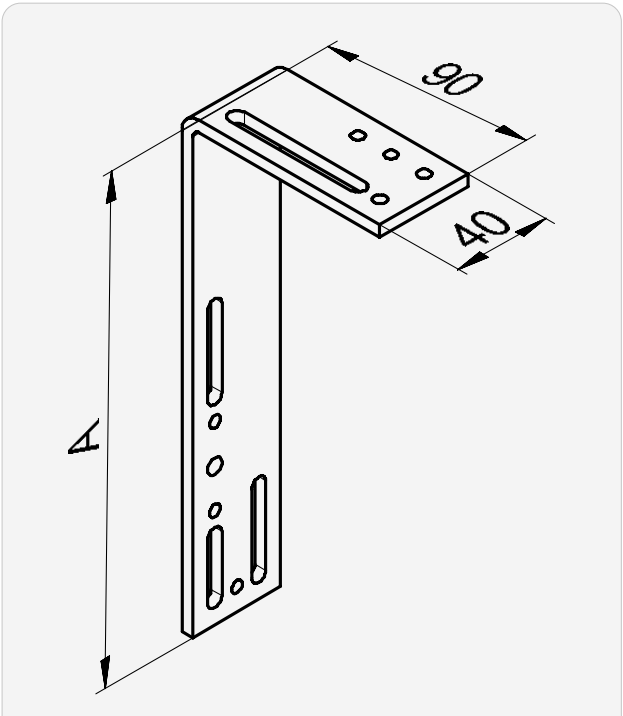


A

140

\* Header 100

Box support for type KT



A

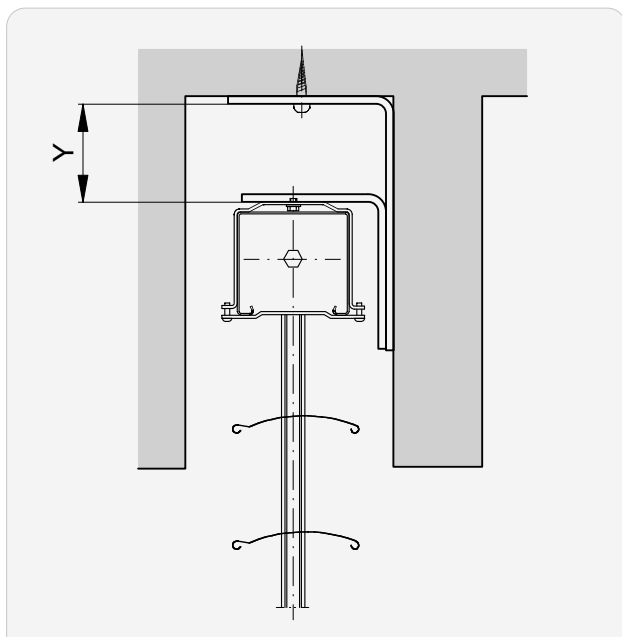
200

260

## ►► Housing fastening

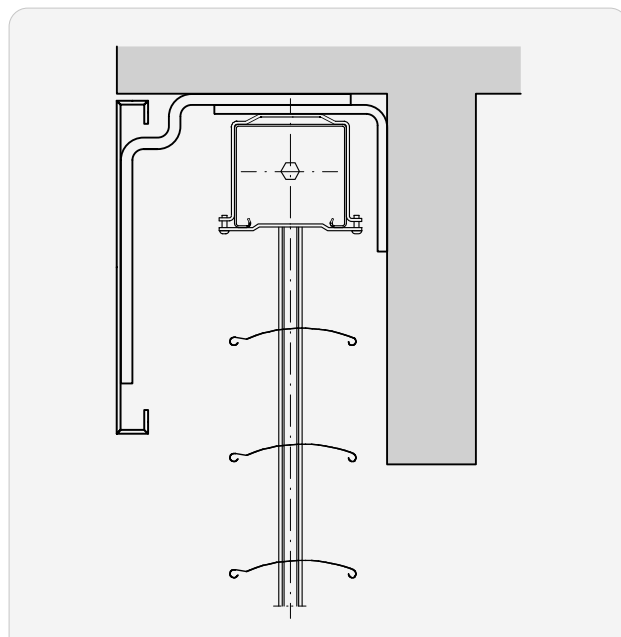
### Double box support

DR

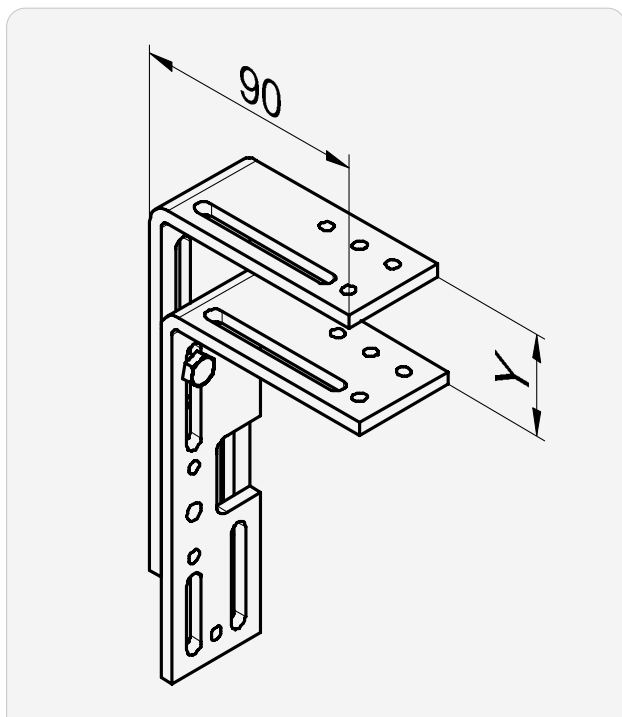


### Gallery clip

GB



### Double box support for type DR



### Gallery clip for type GB

**i** See additional documentation:  
**Short manual "Covers"**



[Covers](#)



Y

10 ... 75

75 ... 135

135 ... 200

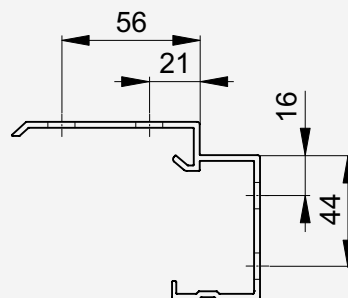
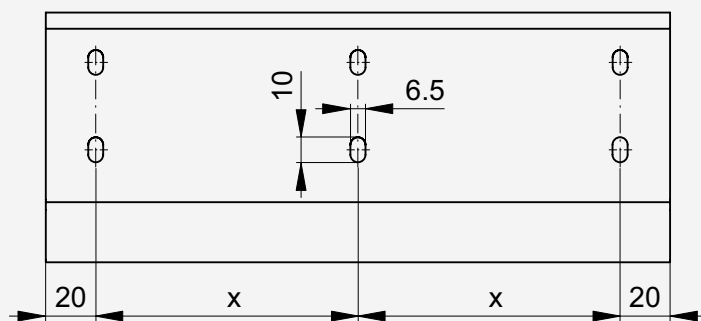
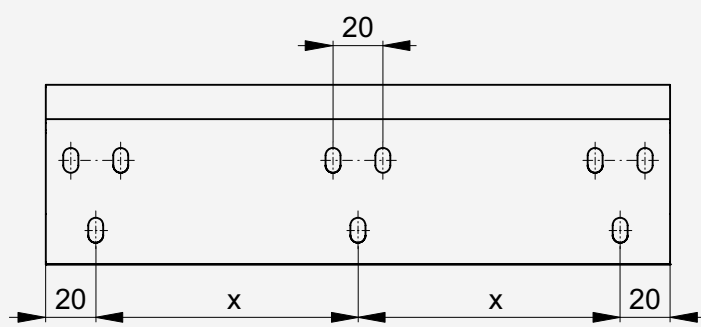
**Number of box supports****Conventional and cable guides**

| <b>bk</b>   | <b>Quantity</b> |
|-------------|-----------------|
| ≤2000       | 2               |
| 2001...3000 | 3               |
| 3001...4000 | 4               |
| >4000       | 5               |

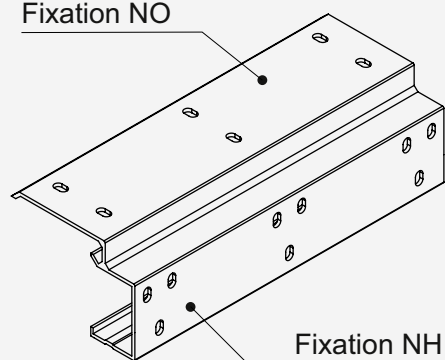
**Fix guides | Additional fastenings**

| <b>bk</b>   | <b>Quantity</b> |
|-------------|-----------------|
| ≤2500       | 0               |
| 2501...3500 | 1               |
| >3500       | 2               |

## Fixation for box base profile



Fixation NO



## Number of fixation points

| bk          | Number of fixation points |
|-------------|---------------------------|
| ≤2000       | 2                         |
| 2001...3000 | 3                         |
| 3001...4000 | 4                         |
| >4000       | 5                         |

## Technical data of motors

### Performance characteristics

| Type          |       | Limit switch |           | M    | n        | P   | I    |
|---------------|-------|--------------|-----------|------|----------|-----|------|
|               |       | Type         | Number of | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |       |              |           |      |          |     |      |
| Elero         |       |              |           |      |          |     |      |
| ES...         | 06.01 | mechanical   | 2         | 6    | 26       | 110 | 0.50 |
|               | 09.01 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.01 |              |           | 20   |          | 190 | 1.05 |
| ES...         | 06.51 | mechanical   | 3         | 6    | 26       | 110 | 0.50 |
|               | 09.51 |              |           | 9    |          | 170 | 0.75 |
| E0...         | 20.51 |              |           | 20   |          | 190 | 1.05 |
| Option        |       |              |           |      |          |     |      |
| Somfy         |       |              |           |      |          |     |      |
| SH...         | 06.01 | mechanical   | 2         | 6    | 24       | 95  | 0.40 |
|               | 10.01 |              |           | 10   |          | 110 | 0.65 |
|               | 18.01 |              |           | 18   |          | 155 | 1.00 |
| SW...         | 06.01 |              |           | 6    |          | 95  | 0.40 |
| SI...         | 10.01 | electronic   | 2         | 10   | 24       | 110 | 0.65 |
| SR...         | 18.01 |              |           | 18   |          | 155 | 1.00 |
| Elero Comfort |       |              |           |      |          |     |      |
| ECM...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| ECB...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| Geiger AIR    |       |              |           |      |          |     |      |
| GA...         | 06.01 | electronic   | 2         | 6    | 26       | 93  | 0.40 |
|               | 06.10 |              |           | 10   |          | 135 | 0.60 |
|               | 06.20 |              |           | 20   |          | 190 | 0.85 |

**I** Current consumption

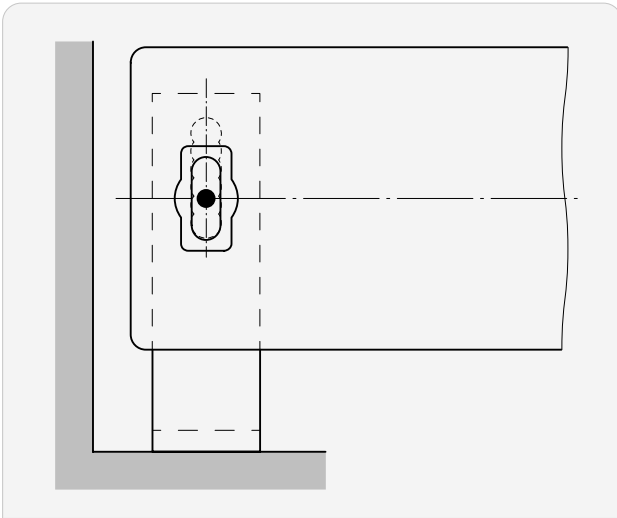
**M** Torque

**n** Rotational speed

**P** Power consumption

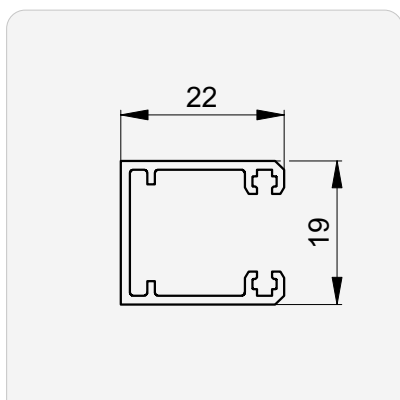
## Options

### Feedthroughs with eyelets

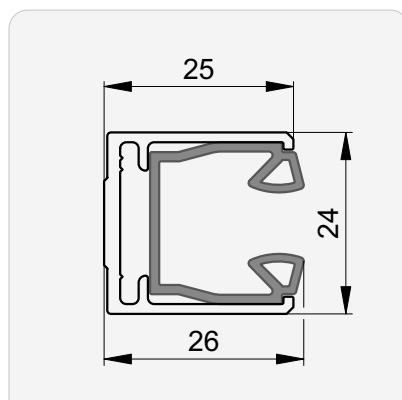


## Guide rails

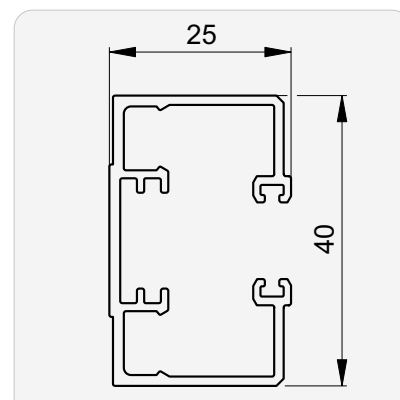
Type E | Single guide



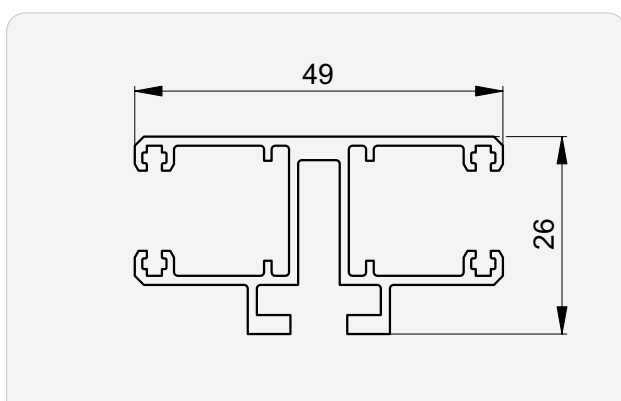
Type L | Fix guide



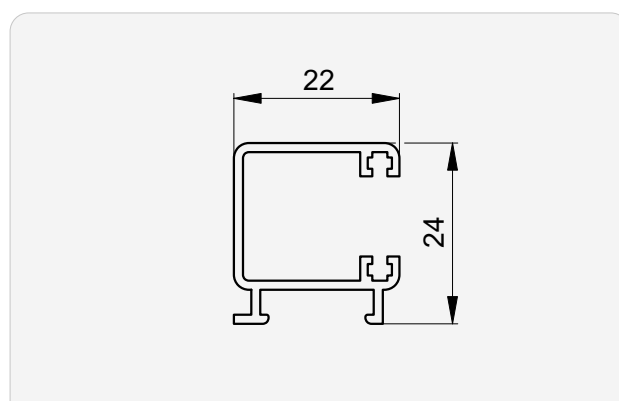
Type F | Fix guide



Type D | Double guide

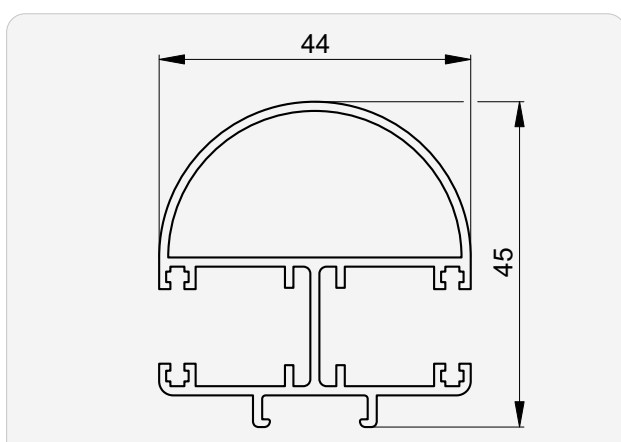


Type C | Single guide

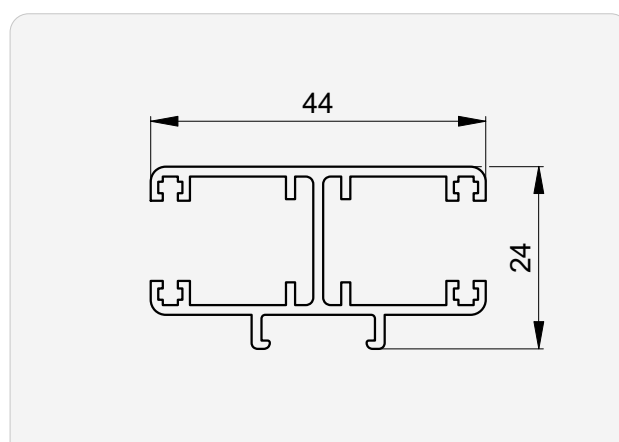


Special guide fastening required

Type R | Curved double guide



Type T | Double guide

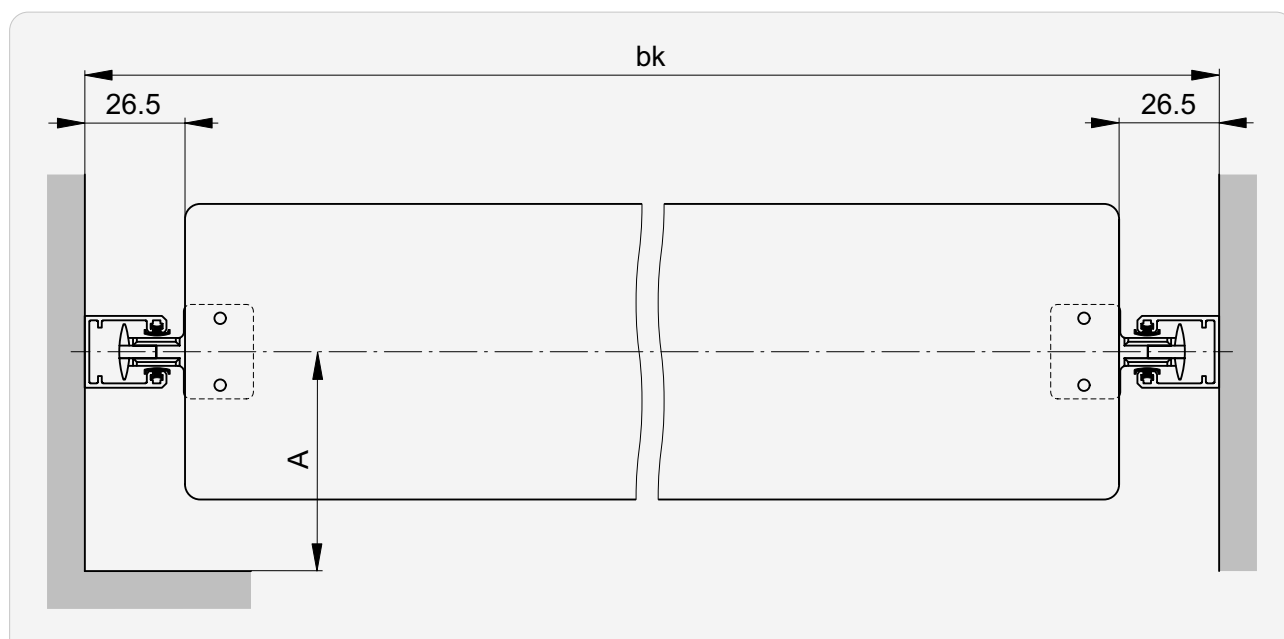


|                                           |            |
|-------------------------------------------|------------|
| ➔ Distance between guides <b>FD</b> ..... | <b>225</b> |
| ➔ Fastening points.....                   | <b>221</b> |
| ➔ Guide extension and facet .....         | <b>215</b> |
| ➔ Guide rail fastenings.....              | <b>207</b> |

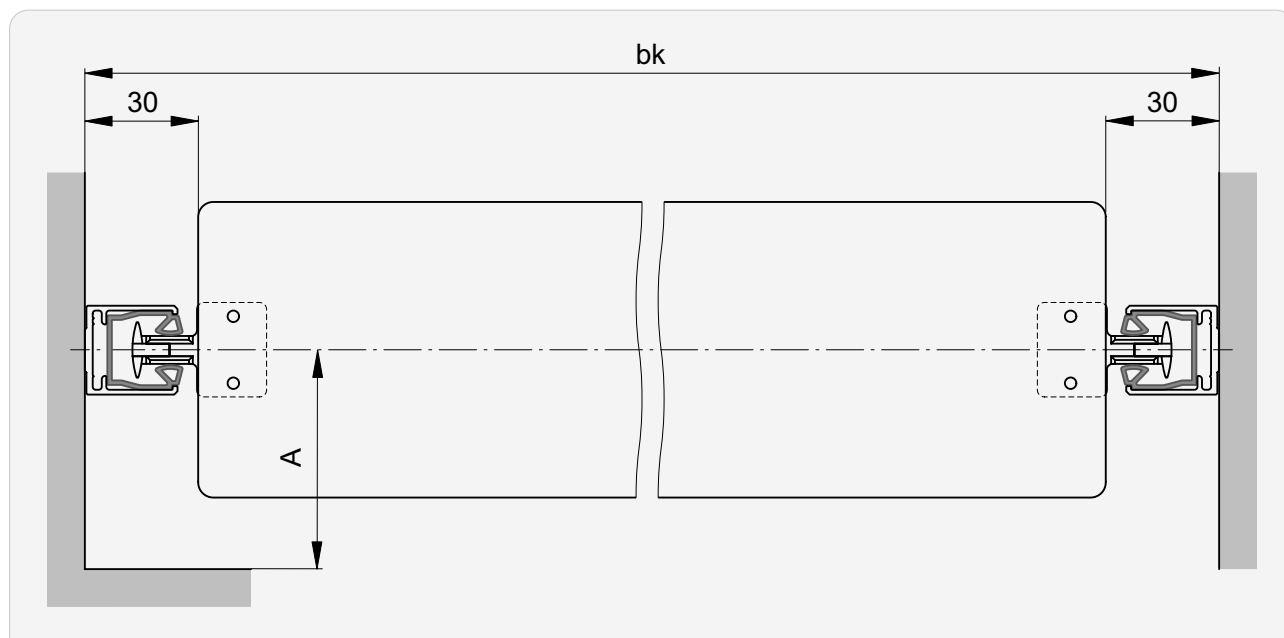
|                                                |            |
|------------------------------------------------|------------|
| ➔ Guide rail cut-outs in windowsill area ..... | <b>218</b> |
| ➔ Installation window .....                    | <b>220</b> |
| ➔ Integrated guides.....                       | <b>206</b> |

## Sections | Details

### Horizontal section: Guide rail conventional



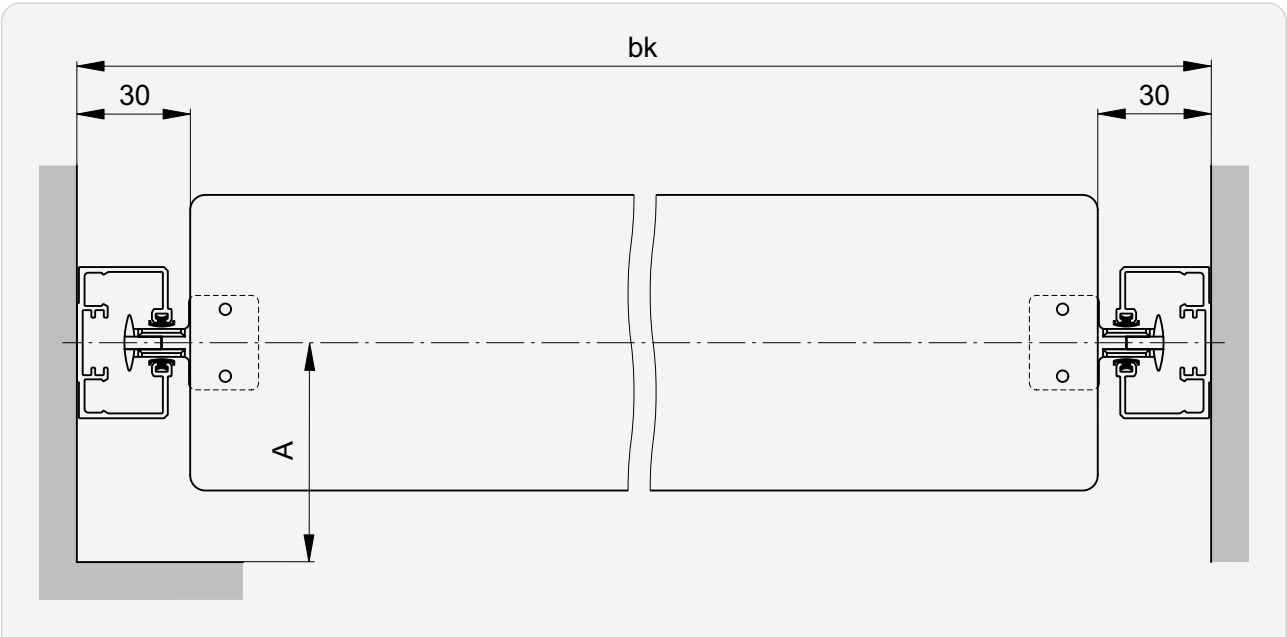
### Horizontal section: Guide rail Fix-L



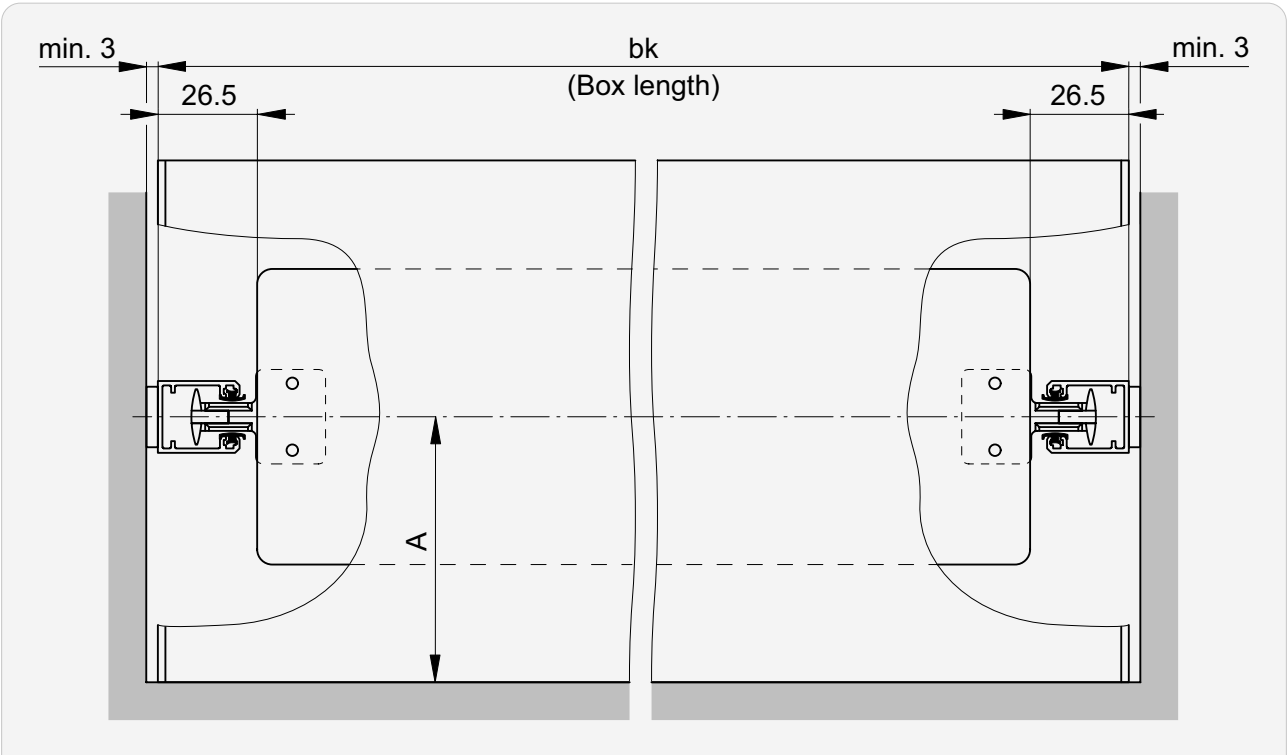
➡ Value for **A** ..... 187

►► Sections | Details

Horizontal section: Guide rail Fix



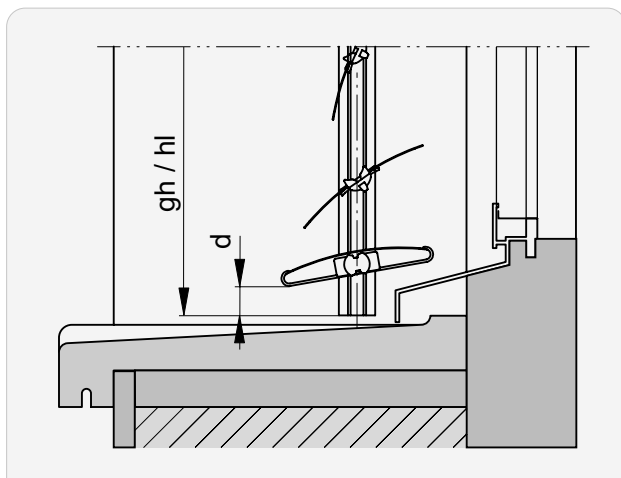
Horizontal section: Box



➡ Value for **A**.....187

## ►► Sections | Details

## Detail at bottom

**d (d - dimension)**

min. 10 +5/-3

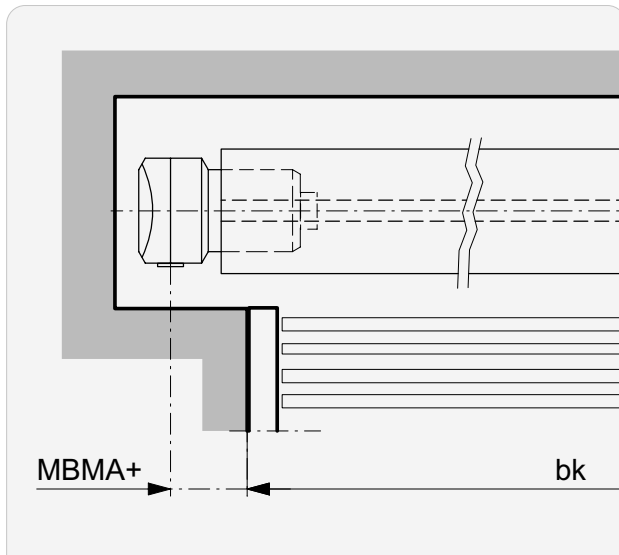


**d - dimension** may vary with different blind dimensions.

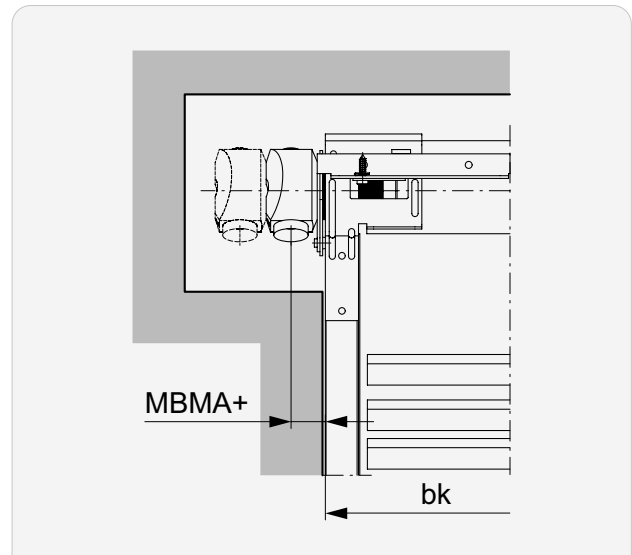
## Sections for crank drive (MBMA)

### outside bk

#### Conventional

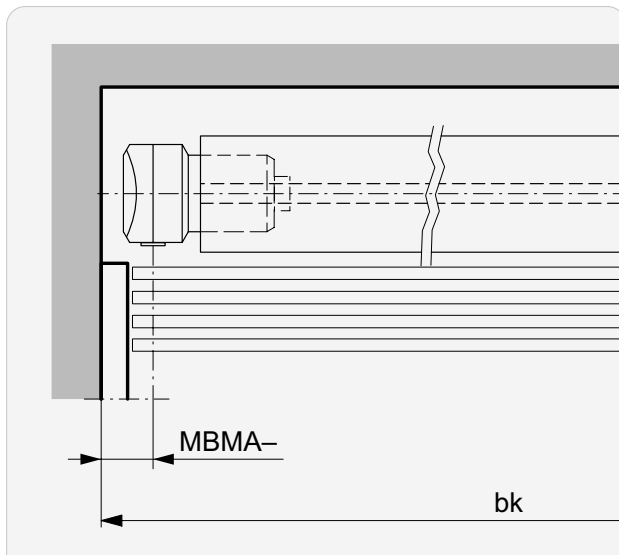


#### Self-supporting (Fix)

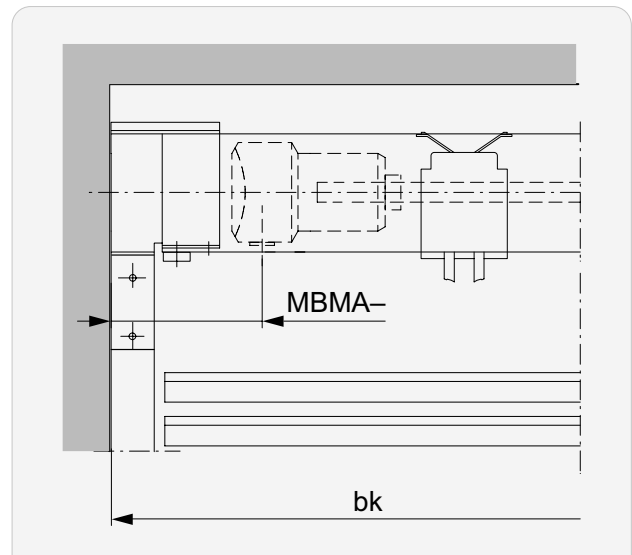


### within bk

#### Conventional



#### Self-supporting (Fix)



#### Version

Conventional

#### MBMA+

0 ... 999

#### MBMA-

0 ... (bk/2)\*

Self-supporting (Fix)

26 ... 125 (10 ... 25)<sup>1</sup>

90 ... (bk/2)

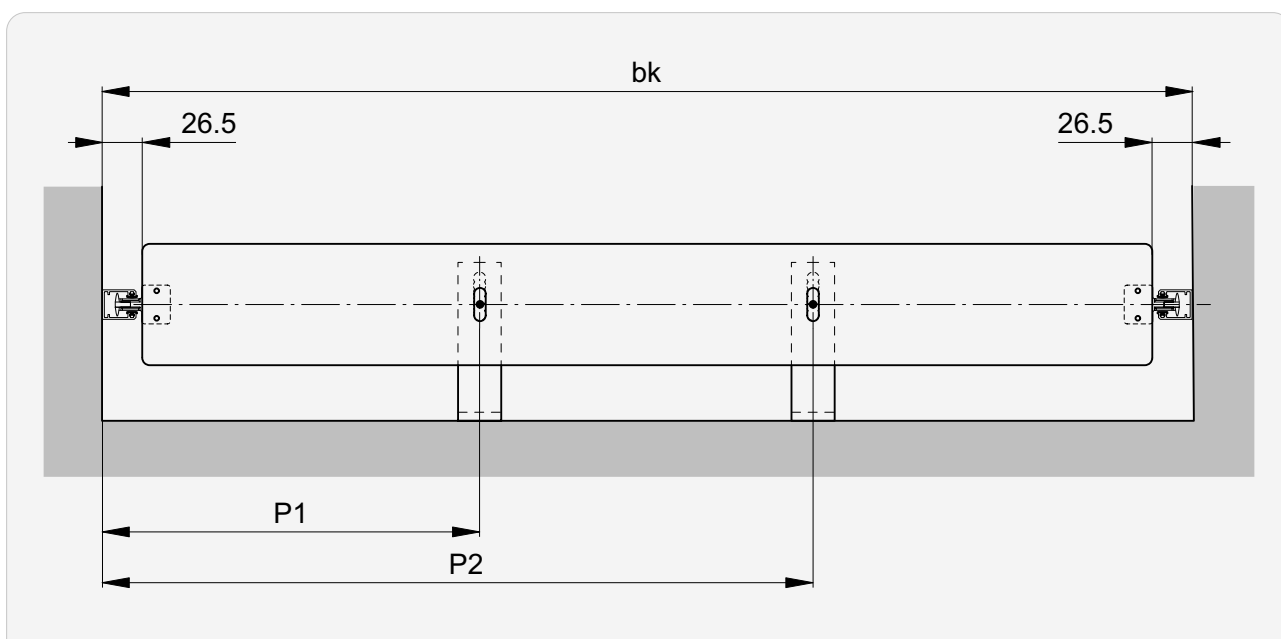
<sup>1</sup> for reverse mounted gearbox

\* ≤30: Gearbox niche required

## Additional cables

**i** **Additional cables must be fitted for a  $bk > 2500$**  and in locations which are exposed to high wind.  
The dimensions **P1** and **P2** are **measured from the left from  $bk$**  and **must be noted on the dimensions sheet**.  
P2 does not apply for the first additional cable.

If the additional cables **are installed in the windowsill**, you must plan for **an excess guide rail length of min. 60 mm**.  
The **end rail** is then **70 mm above the windowsill**.



**P1** Position of first cable or cable on the left

**P2** Position of cable on the right

## Number of additional cables

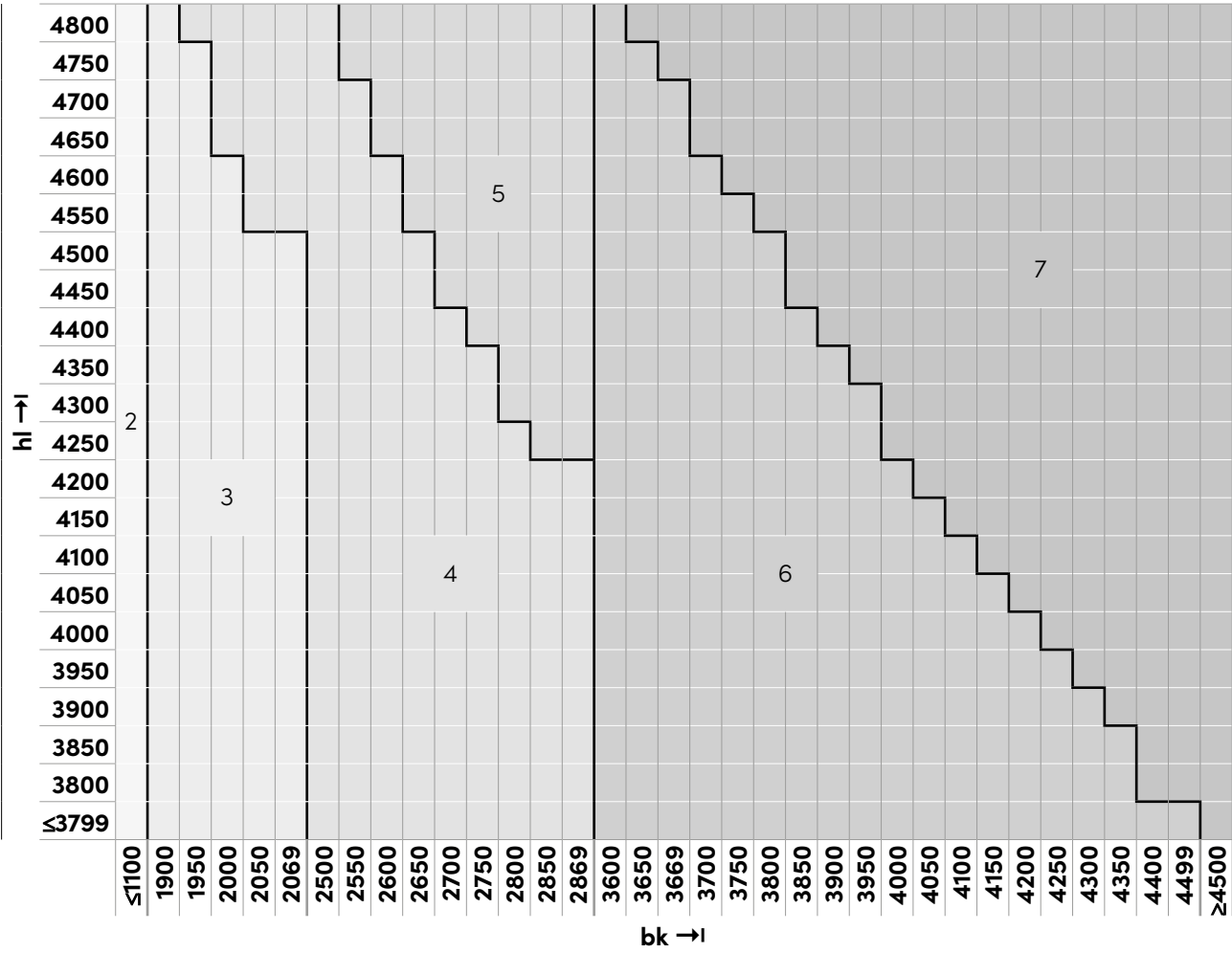
**i** **If no information is provided for  $P1$  or  $P2$ , they are positioned according to the following table.**

| Width max.<br>( $bk$ ) | Number of additional<br>cables | $P1$     | $P2$      |
|------------------------|--------------------------------|----------|-----------|
| $\leq 2500$            | 0                              | –        | –         |
| 2501... 3800           | 1                              | $(bk/2)$ | –         |
| $> 3800$               | 2                              | $(bk/3)$ | $2(bk/3)$ |

Vertical connections | Standard motor position

Number of bearings

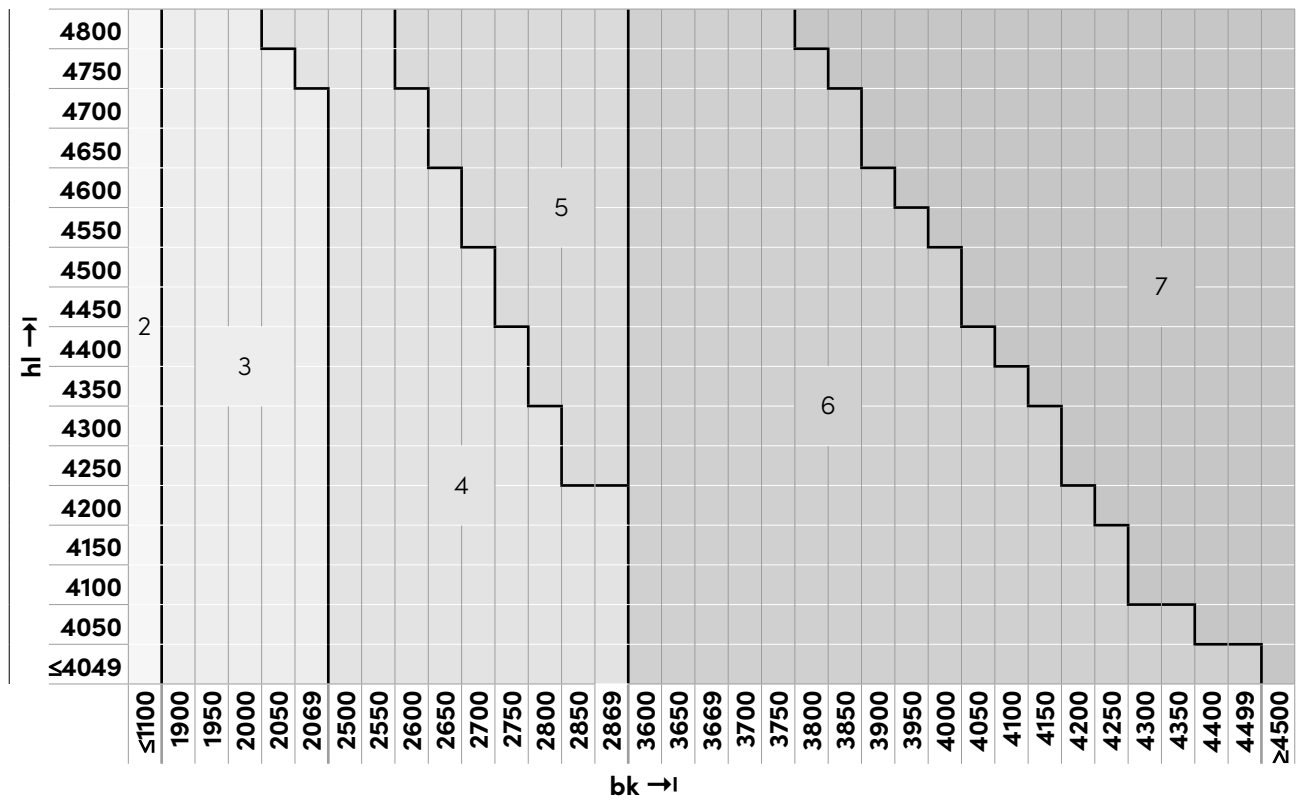
Aluflex® 60



# ▶▶ Vertical connections | Standard motor position

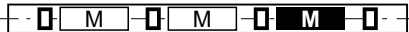
Number of bearings

Aluflex® 80



►► Vertical connections | Standard motor position

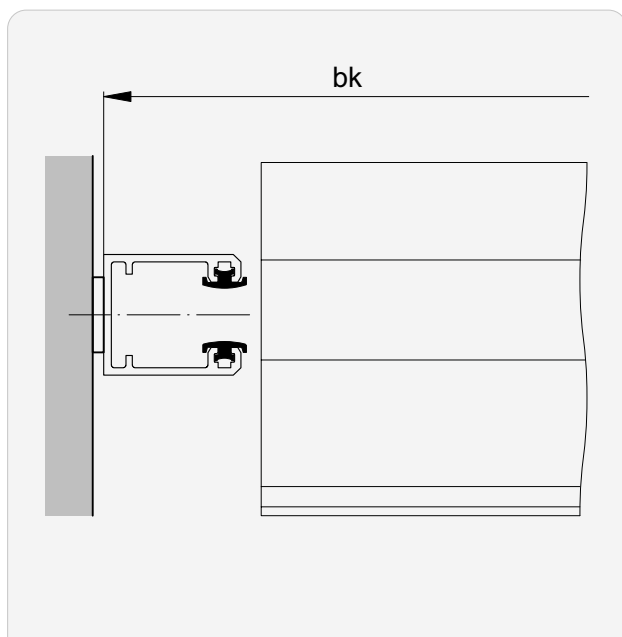
Standard motor position

| Number of bearings | Standard motor position                                                              |
|--------------------|--------------------------------------------------------------------------------------|
| 2                  |     |
| 3                  |    |
| 4                  |    |
| 5                  |    |
| 6                  |    |
| 7                  |  |

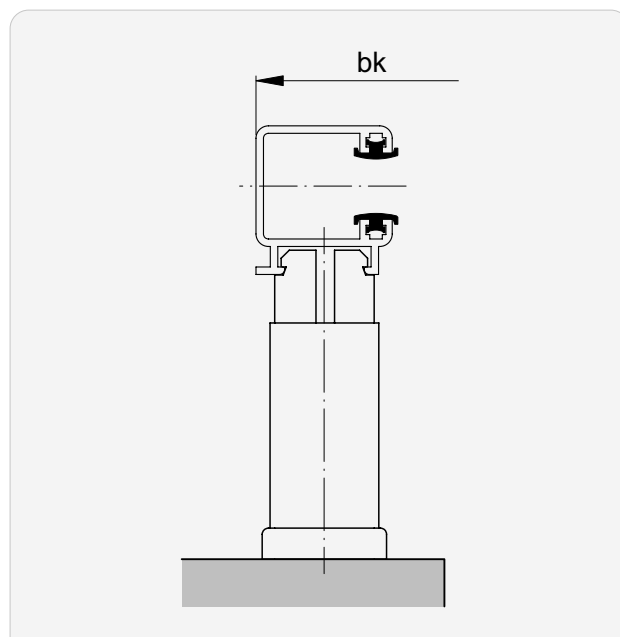
-  Bearing
-  Standard motor position
-  Possible motor position (on request)

## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



### Guides suspended



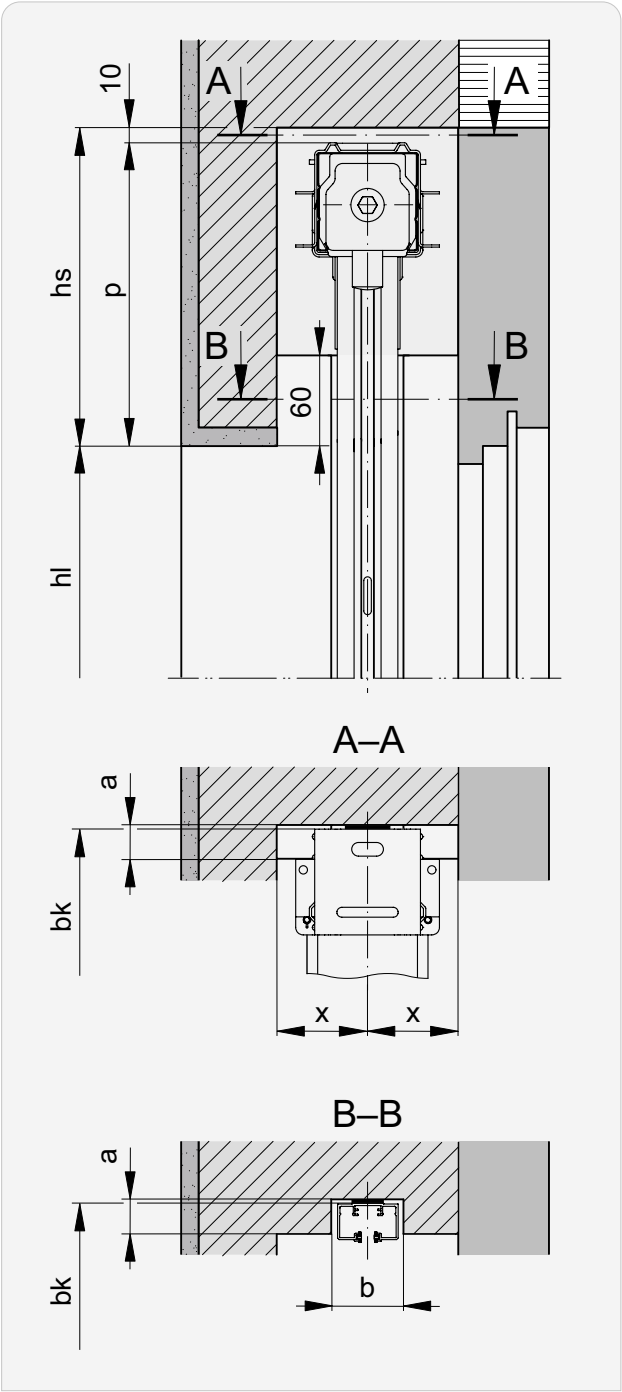
**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

►► Guide rail installation (principle)

Guides recessed

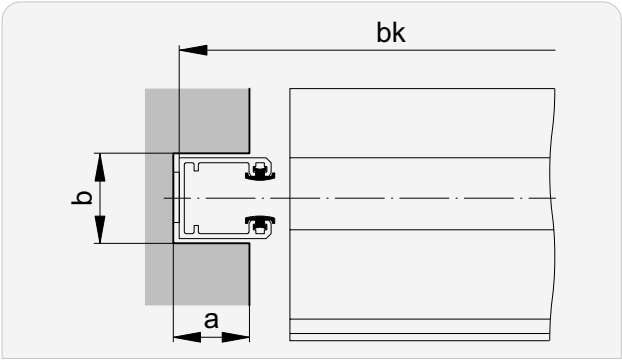
**i** \*Type F | Without guide cut-out:  
Only possible if curtain can be retracted from below.

Type E | F\* | L

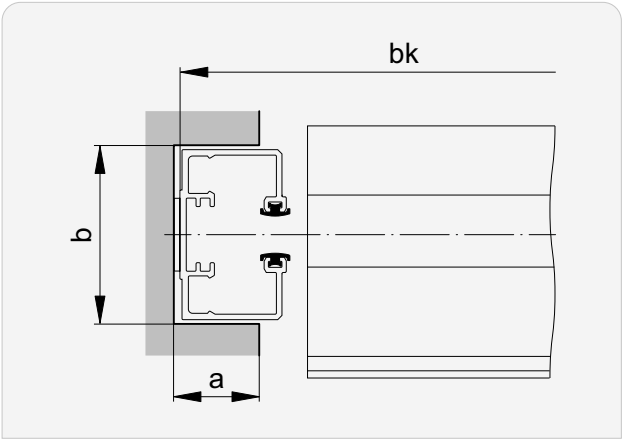


| Product   Version | x min. |
|-------------------|--------|
| Aluflex® 60 Fix   | 50     |
| Aluflex® 80 Fix   | 60     |

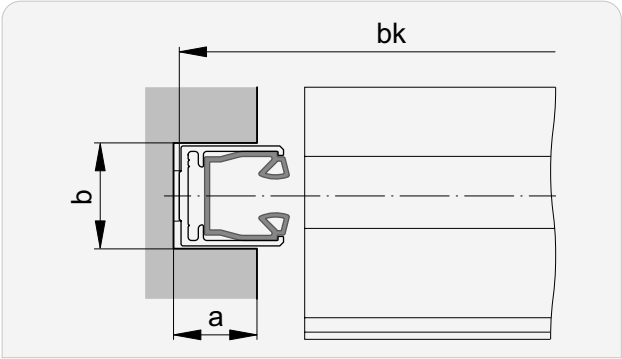
Type E



Type F\*



Type L



| Type | a   | b   |
|------|-----|-----|
| E    | ≤18 | ≥21 |
| F*   | ≤20 | ≥42 |
| L    | ≤24 | ≥25 |

## Guide rail fastenings (principle)

### Overview

| Type |   |    |   |    |   |   |   |                |                |                |   |    |   |    |
|------|---|----|---|----|---|---|---|----------------|----------------|----------------|---|----|---|----|
| A    | B | Bd | C | Cd | E | F | G | H              | Kv             | M              | T | Tv | V | Wv |
| ●    | ● | ●  | ● | ●  | ● | ● | — | ○ <sup>1</sup> | ○ <sup>2</sup> | ○ <sup>3</sup> | ● | ●  | ● | ●  |

● applicable without restrictions

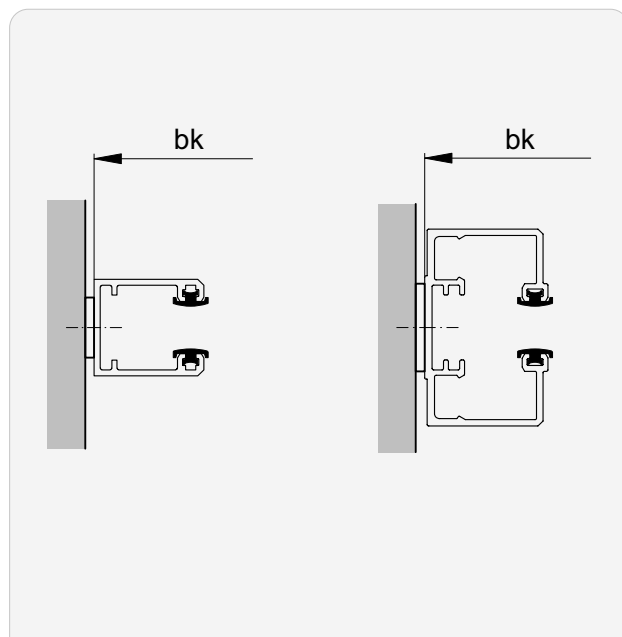
○ applicable with restrictions:

<sup>1</sup> only with guide **type D**

<sup>2</sup> only with guide **type C | T | R**

<sup>3</sup> only with guide **type E**

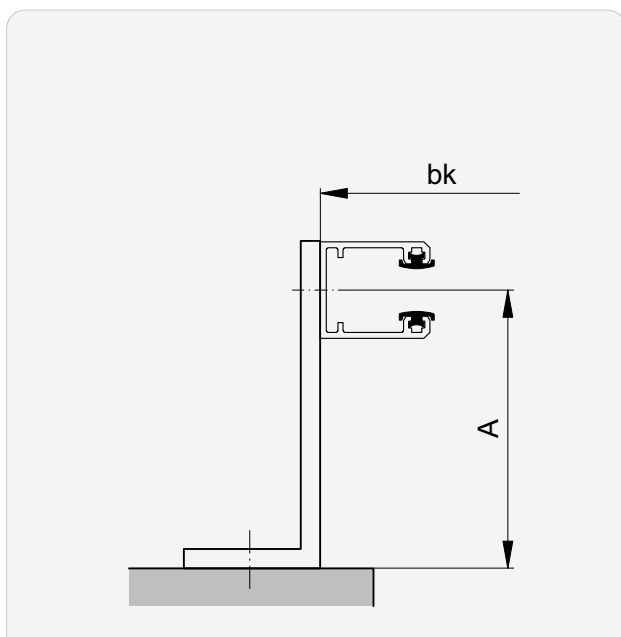
### A Soffit installation



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

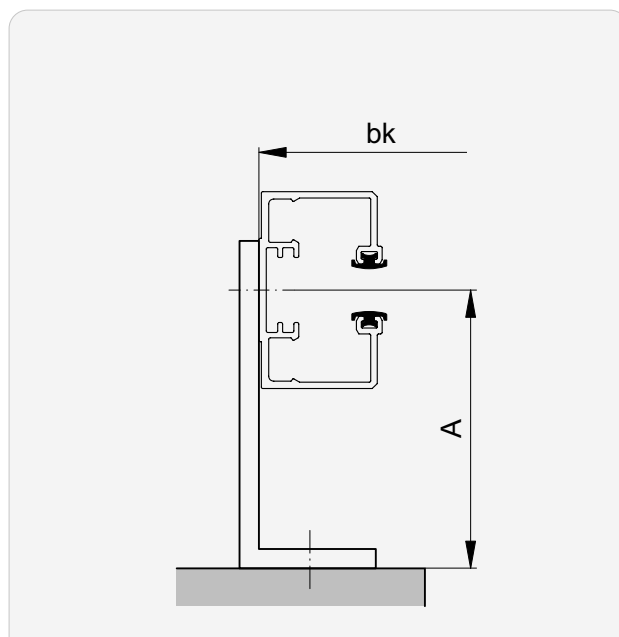
## ►► Guide rail fastenings (principle)

### B Installation with fastening bracket



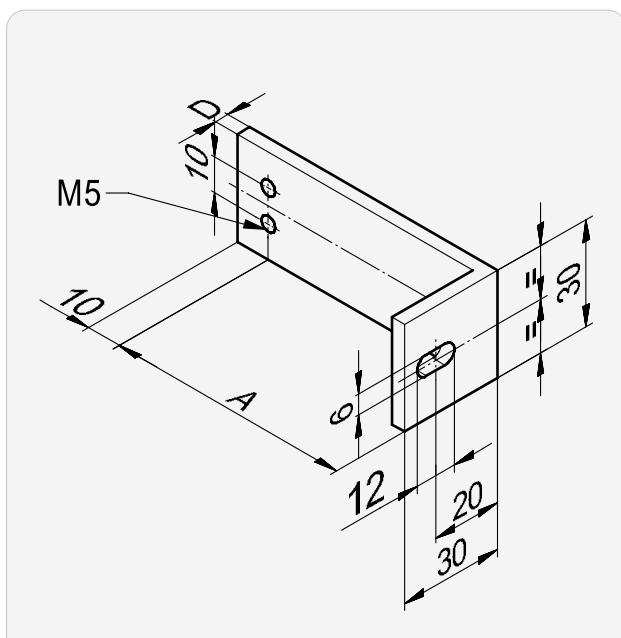
Bracket outwards

### C Installation with fastening bracket



Bracket inwards

#### Fastening bracket for types B and C

**A\***

20 ... 115

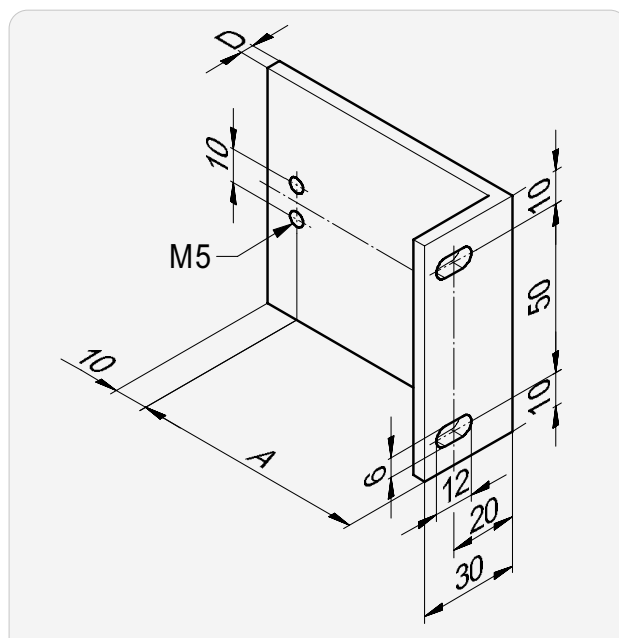
**D**

4

**i** For suspended guide rails always with **brackets 70 mm**.

\* in 5 mm steps

#### Fastening bracket 70 mm for types B and C

**A\***

20 ... 115

120 ... 215

**D**

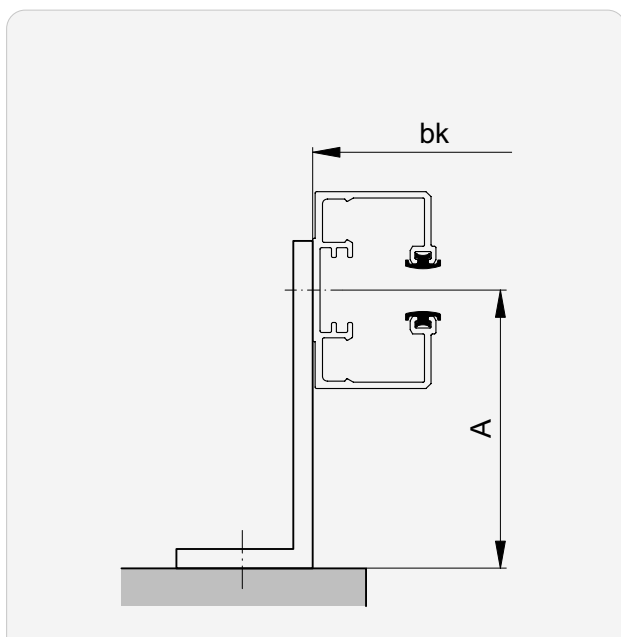
4

5

**i** If the **projection is  $\geq 120$** , all products are fastened with a **70 mm bracket**.

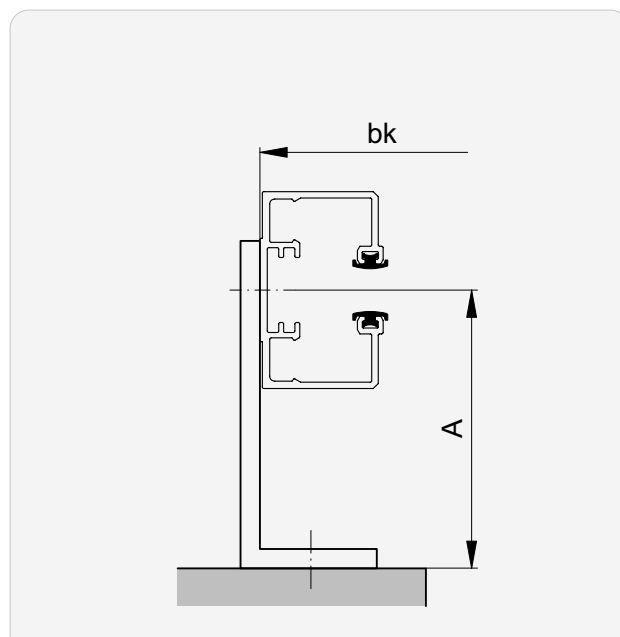
## ►► Guide rail fastenings (principle)

### **Bd** Installation with continuous fastening bracket



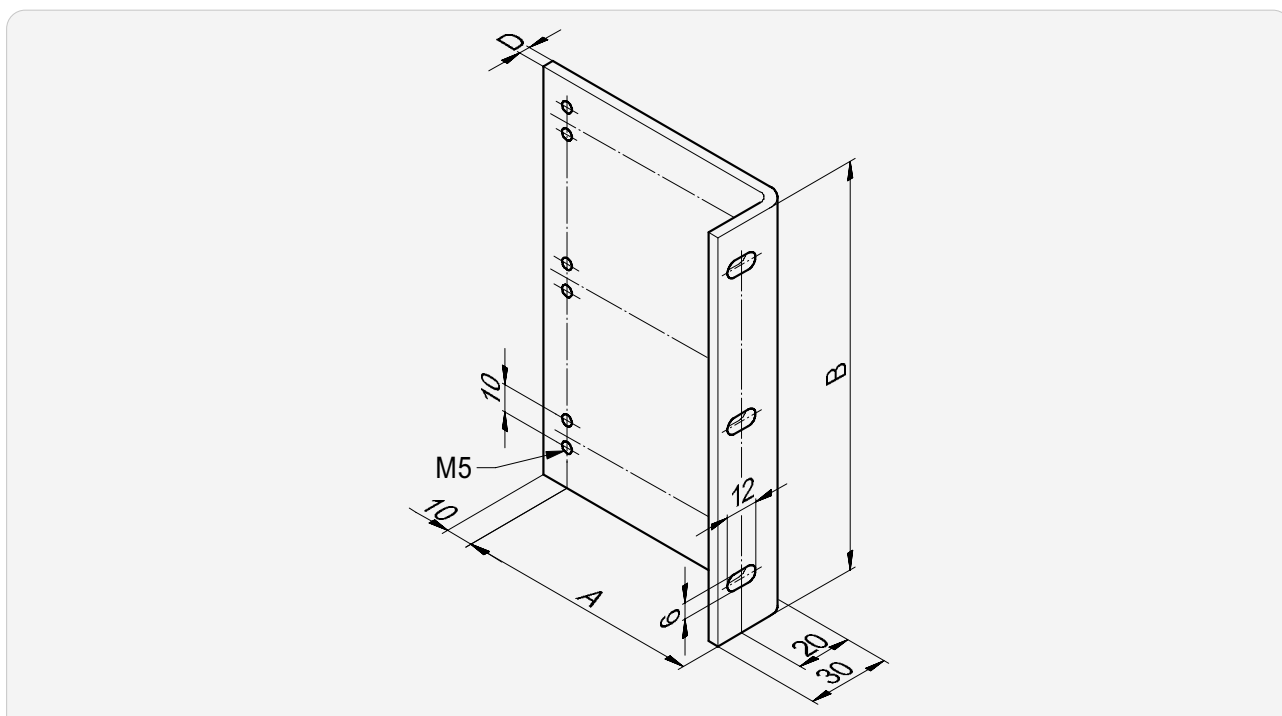
Bracket outwards

### **Cd** Installation with continuous fastening bracket



Bracket inwards

### Continuous fastening bracket for types Bd and Cd


**A\***

20...300

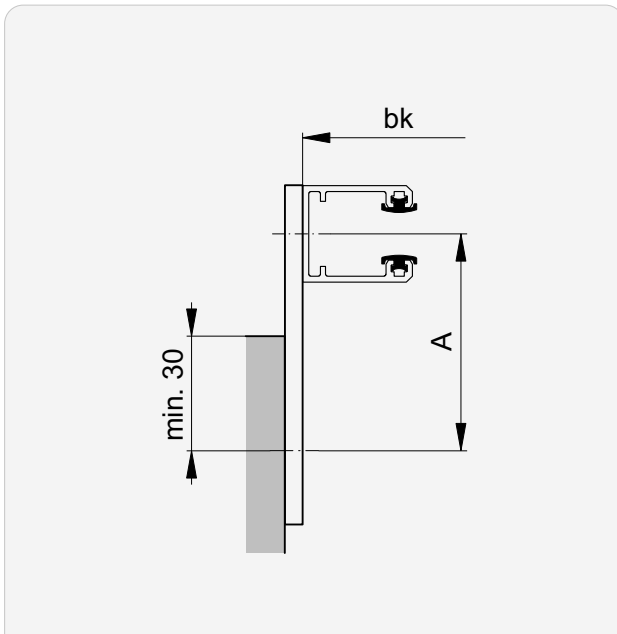
**D**

always 4

\* in 5 mm steps

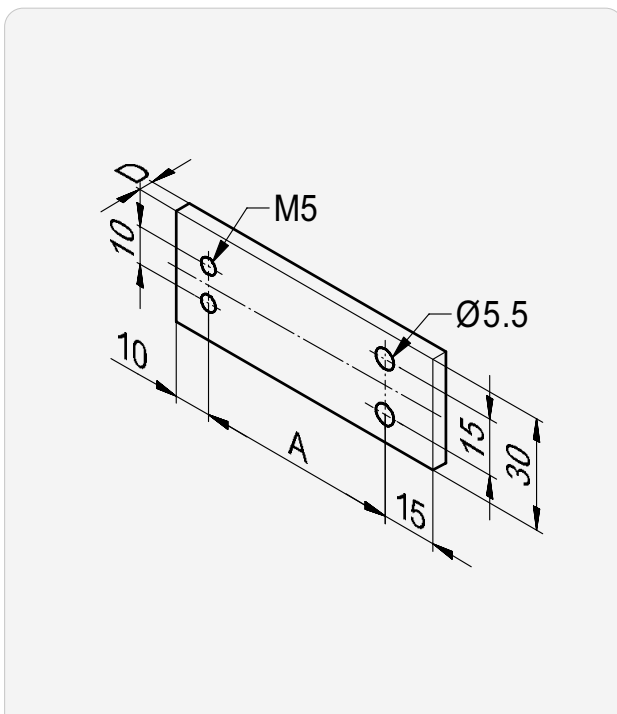
## ►► Guide rail fastenings (principle)

### **E | F** Installation with fastening lug



inwards / outwards

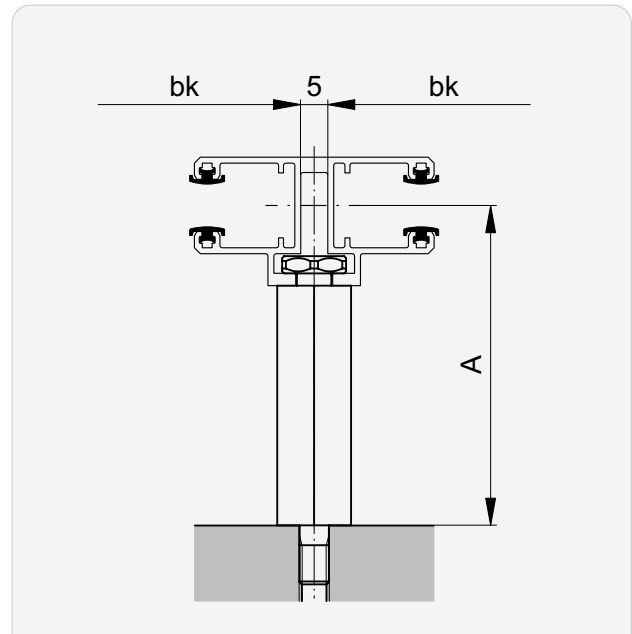
#### Fastening lug for type E | F



| A*          | D |
|-------------|---|
| 50 ... 115  | 4 |
| 120 ... 125 | 5 |

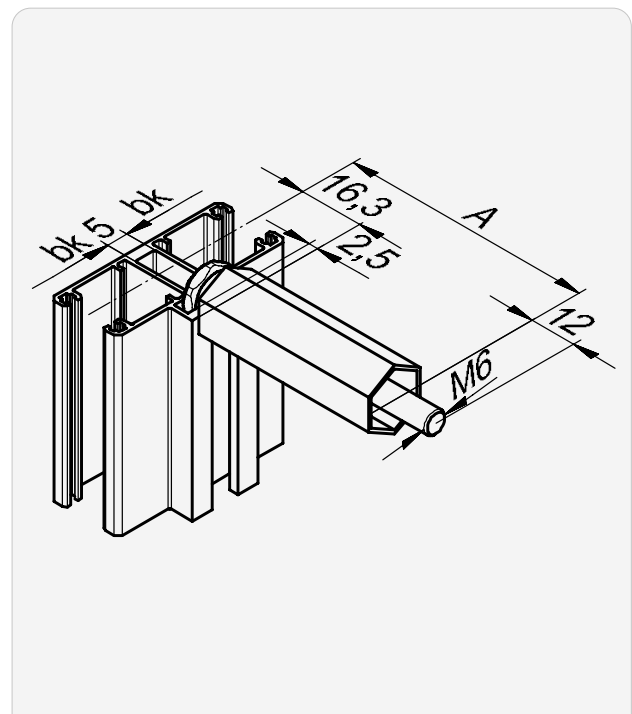
\* in 5 mm steps

### **H** Installation with spacer



Only with guide type D

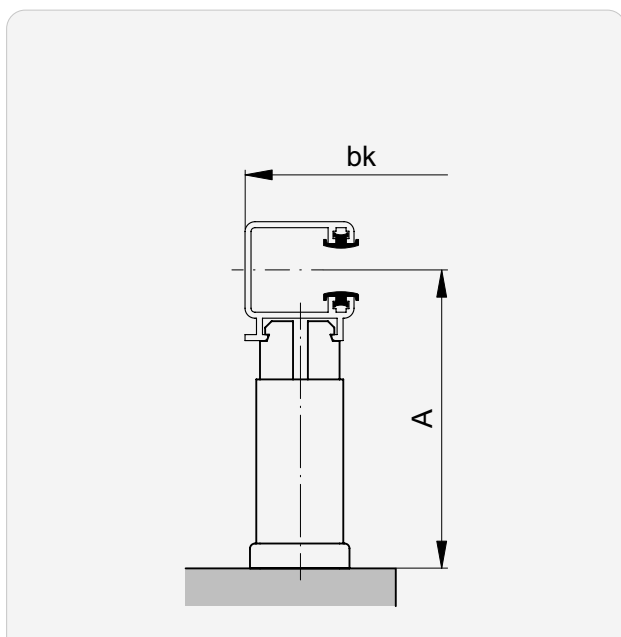
#### Spacer for type H



| A          |
|------------|
| 35 ... 115 |

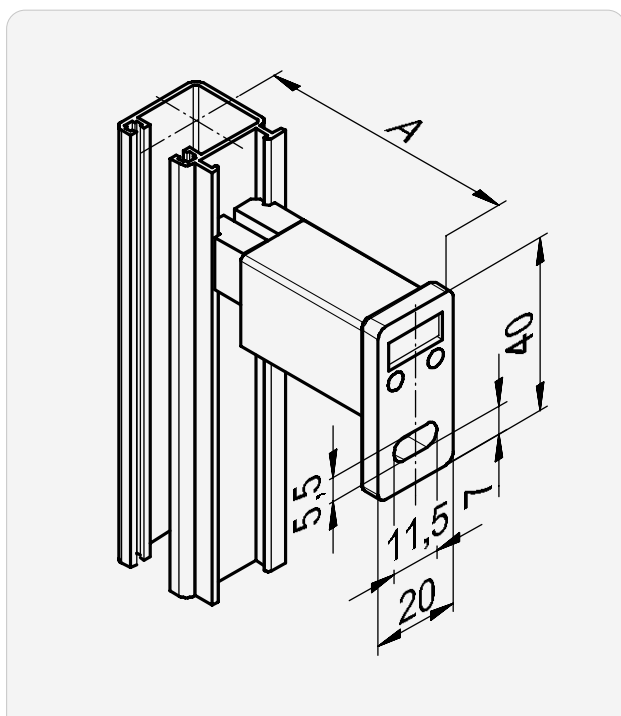
## ►► Guide rail fastenings (principle)

### **Kv** Installation with adjustable console



Only with guide type C|T|R

### Console for type Kv



#### **A**

60 ... 75

76 ... 90

91 ... 105

106 ... 120

#### **A**

121 ... 135

136 ... 150

151 ... 165

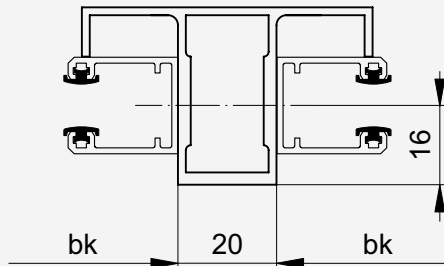
166 ... 180

181 ... 195

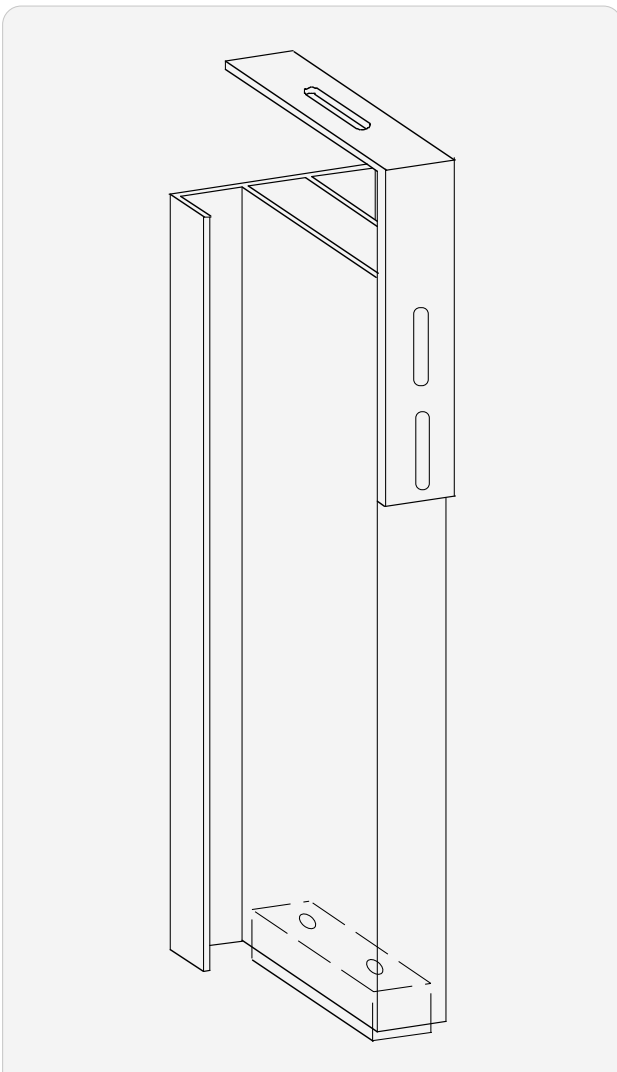
## ►► Guide rail fastenings (principle)

### M Installation with centre bracket

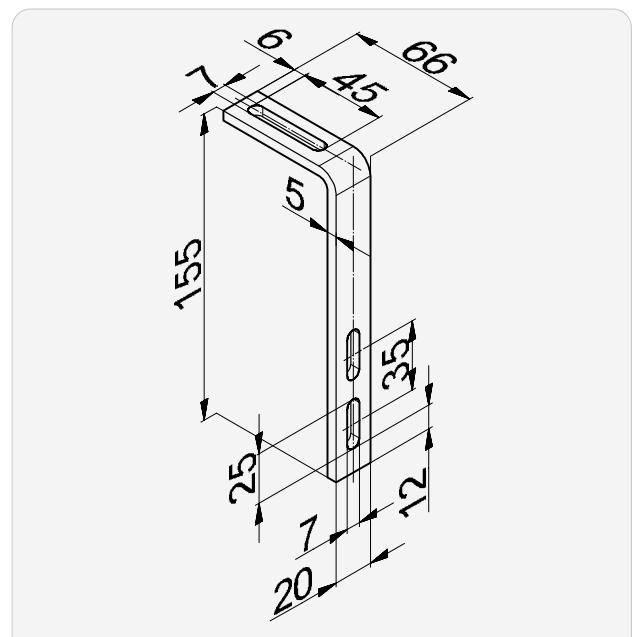
**i** Only with guide type E  
Length = Guide length



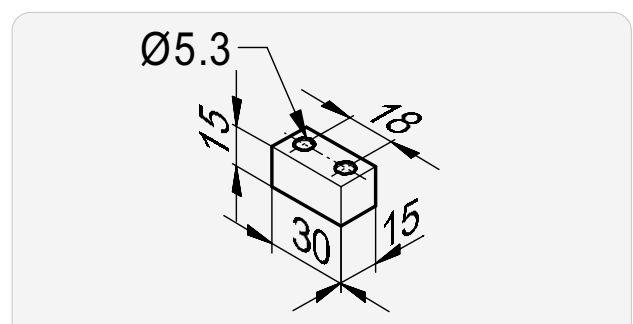
#### Principle



#### Fastening bracket above centre bracket

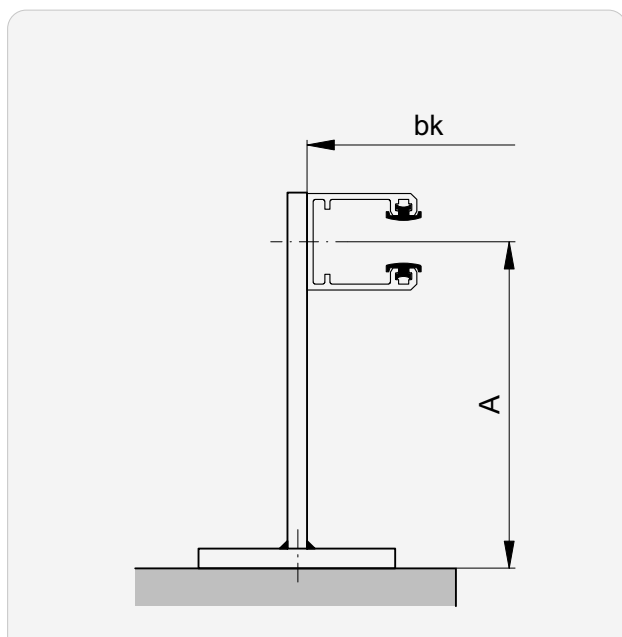


#### Fastening square below for centre bracket

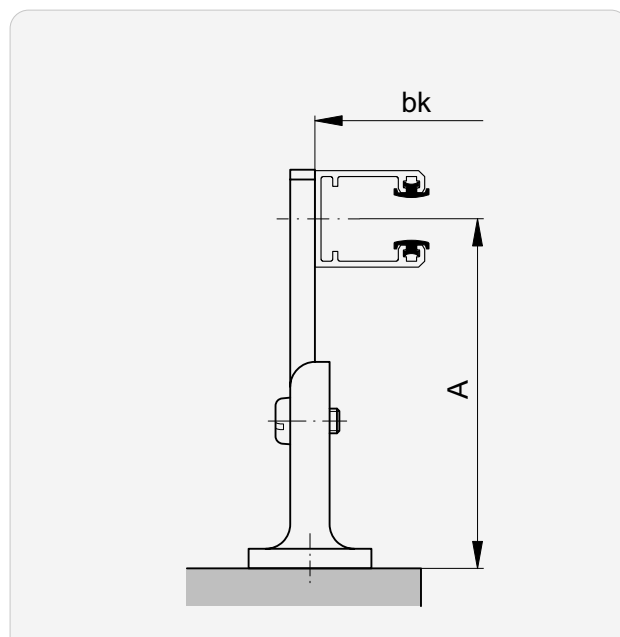


## ►► Guide rail fastenings (principle)

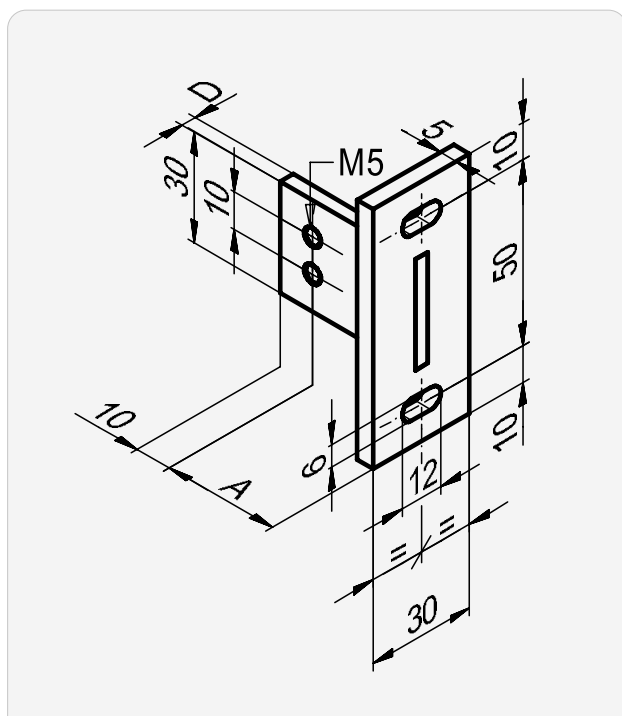
### T Installation with T-bracket



### Tv Installation with adjustable T-bracket



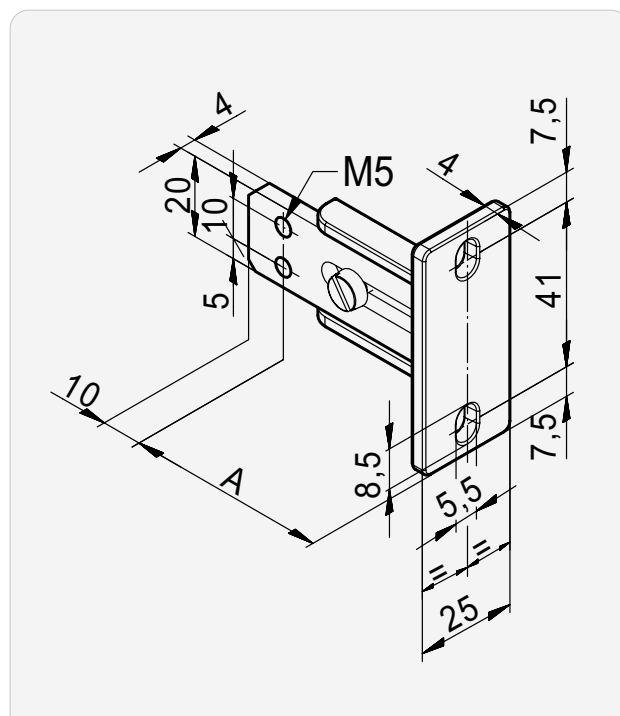
#### T-bracket for type T



| A*          | D |
|-------------|---|
| 20 ... 115  | 4 |
| 120 ... 215 | 5 |

\* in 5 mm steps

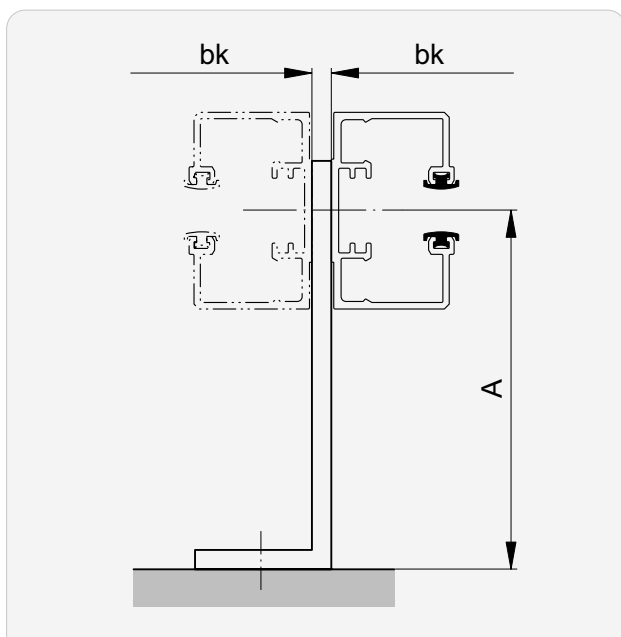
#### T-bracket adjustable for type Tv



| A           |
|-------------|
| 50 ... 68   |
| 69 ... 87   |
| 88 ... 106  |
| 107 ... 115 |

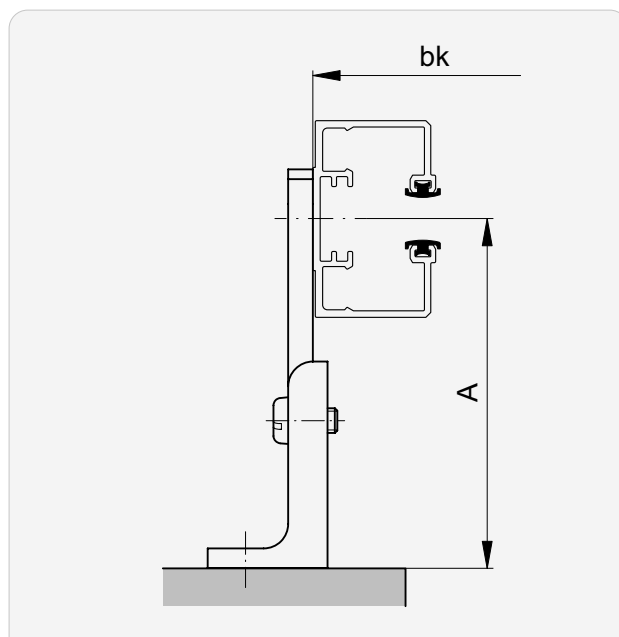
## ►► Guide rail fastenings (principle)

### V Installation with one bracket

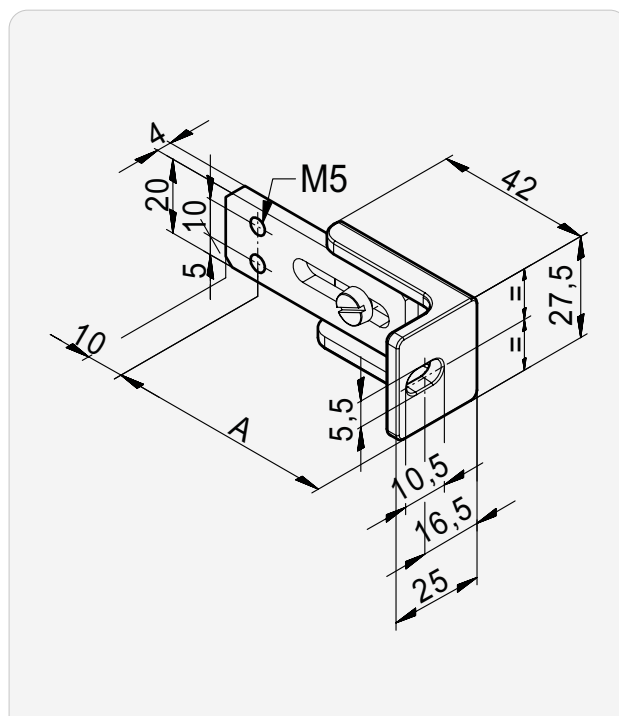


The blind on the right uses the fastening for the blind on the left.

### Wv Installation with adjustable bracket



### W-bracket adjustable for type Wv



#### A

50 ... 68

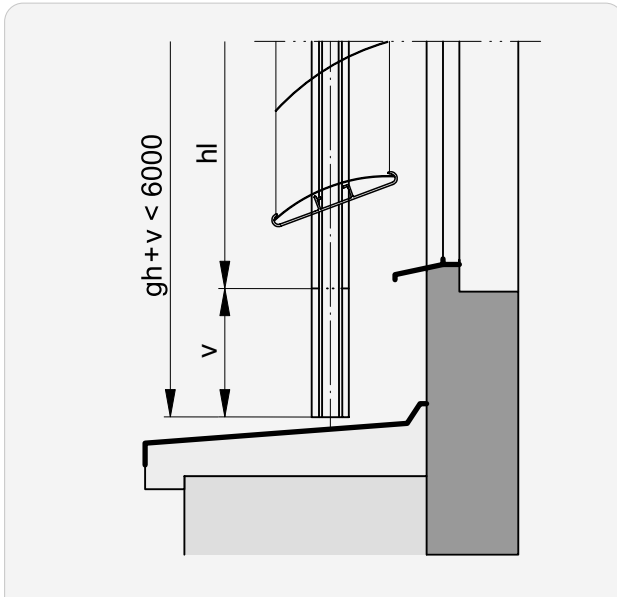
69 ... 87

88 ... 106

107 ... 115

## Guide extension and facet

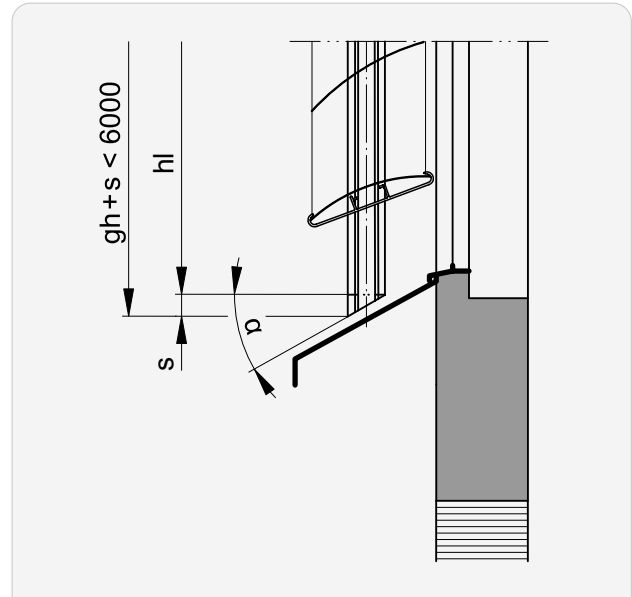
### Extension



**v**

-20 ... 3000

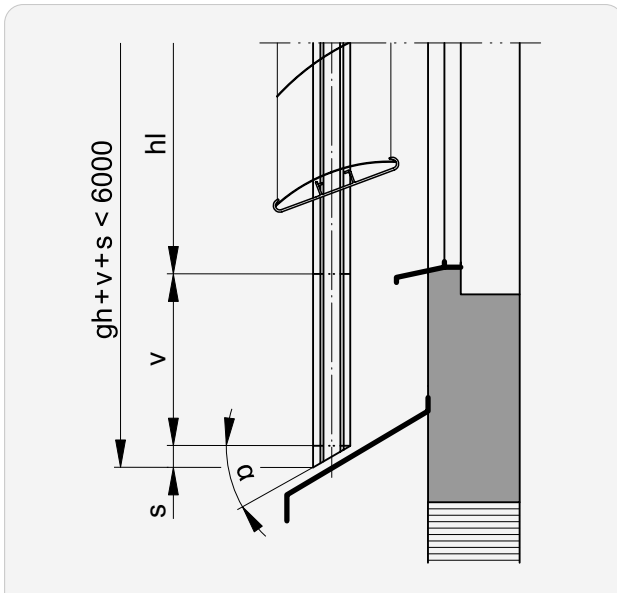
### Facet



**α**

5 ... 50°

### Extension and facet



**v**

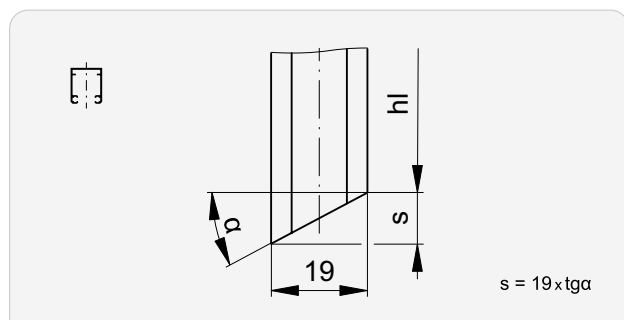
0 ... 3000

**α**

5 ... 50°

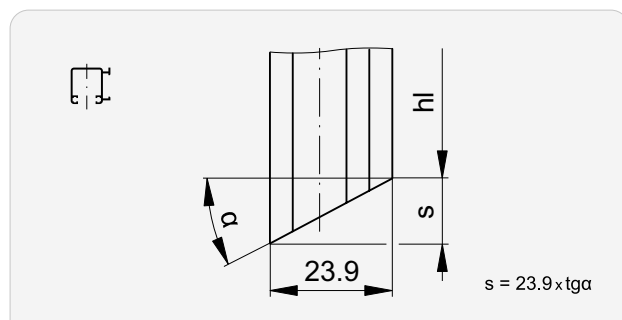
## Angling at the guides

### Type E | Single guide



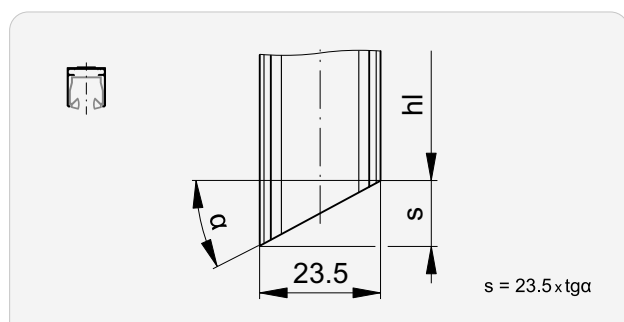
| $\alpha$ | s | $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|---|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 5 | 25       | 9  | 35       | 13 | 45       | 19 |
| 6        | 2 | 16       | 5 | 26       | 9  | 36       | 14 | 46       | 20 |
| 7        | 2 | 17       | 6 | 27       | 10 | 37       | 14 | 47       | 20 |
| 8        | 3 | 18       | 6 | 28       | 10 | 38       | 15 | 48       | 21 |
| 9        | 3 | 19       | 7 | 29       | 11 | 39       | 15 | 49       | 22 |
| 10       | 3 | 20       | 7 | 30       | 11 | 40       | 16 | 50       | 23 |
| 11       | 4 | 21       | 7 | 31       | 11 | 41       | 17 |          |    |
| 12       | 4 | 22       | 8 | 32       | 12 | 42       | 17 |          |    |
| 13       | 4 | 23       | 8 | 33       | 12 | 43       | 18 |          |    |
| 14       | 5 | 24       | 8 | 34       | 13 | 44       | 18 |          |    |

### Type C | Single guide



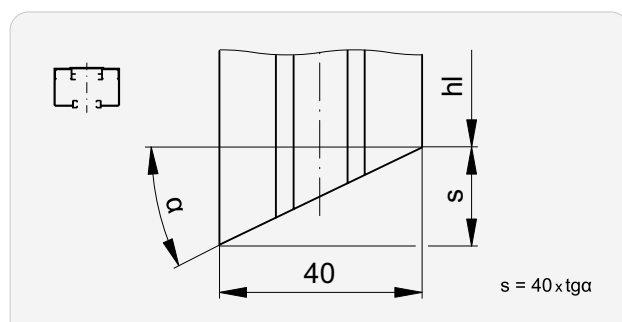
| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 17 | 45       | 24 |
| 6        | 3 | 16       | 7  | 26       | 12 | 36       | 17 | 46       | 25 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 26 |
| 8        | 3 | 18       | 8  | 28       | 13 | 38       | 19 | 48       | 27 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 19 | 49       | 27 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 28 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 21 |          |    |
| 12       | 5 | 22       | 10 | 32       | 15 | 42       | 22 |          |    |
| 13       | 6 | 23       | 10 | 33       | 16 | 43       | 22 |          |    |
| 14       | 6 | 24       | 11 | 34       | 16 | 44       | 23 |          |    |

### Type L | Fix guide



| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 16 | 45       | 24 |
| 6        | 2 | 16       | 7  | 26       | 11 | 36       | 17 | 46       | 24 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 25 |
| 8        | 3 | 18       | 8  | 28       | 12 | 38       | 18 | 48       | 26 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 19 | 49       | 27 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 28 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 20 |          |    |
| 12       | 5 | 22       | 9  | 32       | 15 | 42       | 21 |          |    |
| 13       | 5 | 23       | 10 | 33       | 15 | 43       | 22 |          |    |
| 14       | 6 | 24       | 10 | 34       | 16 | 44       | 23 |          |    |

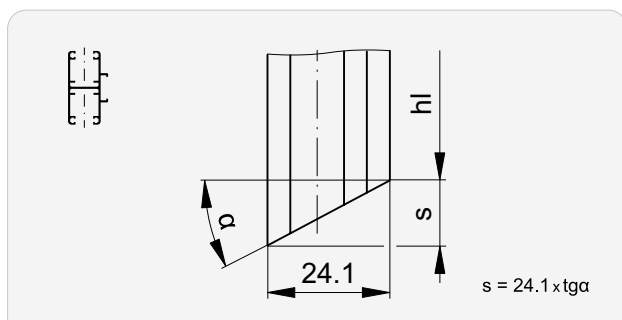
### Type F | Fix guide



| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 3  | 15       | 11 | 25       | 19 | 35       | 28 | 45       | 40 |
| 6        | 4  | 16       | 11 | 26       | 20 | 36       | 29 | 46       | 41 |
| 7        | 5  | 17       | 12 | 27       | 20 | 37       | 30 | 47       | 43 |
| 8        | 6  | 18       | 13 | 28       | 21 | 38       | 31 | 48       | 44 |
| 9        | 6  | 19       | 14 | 29       | 22 | 39       | 32 | 49       | 46 |
| 10       | 7  | 20       | 15 | 30       | 23 | 40       | 34 | 50       | 48 |
| 11       | 8  | 21       | 15 | 31       | 24 | 41       | 35 |          |    |
| 12       | 9  | 22       | 16 | 32       | 25 | 42       | 36 |          |    |
| 13       | 9  | 23       | 17 | 33       | 26 | 43       | 37 |          |    |
| 14       | 10 | 24       | 18 | 34       | 27 | 44       | 39 |          |    |

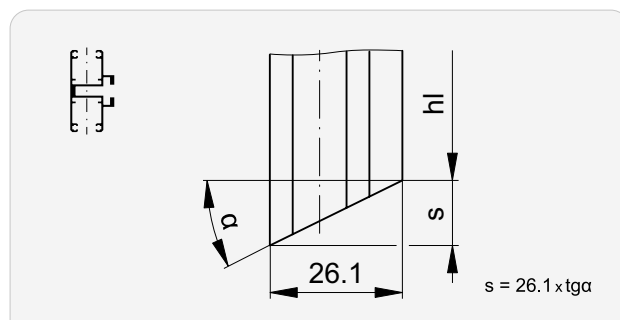
## ►► Angling at the guides

### Type T | Double guide



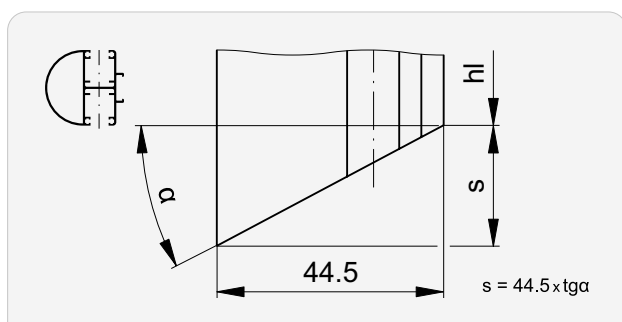
| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 17 | 45       | 24 |
| 6        | 3 | 16       | 7  | 26       | 12 | 36       | 18 | 46       | 25 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 26 |
| 8        | 3 | 18       | 8  | 28       | 13 | 38       | 19 | 48       | 27 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 20 | 49       | 28 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 29 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 21 |          |    |
| 12       | 5 | 22       | 10 | 32       | 15 | 42       | 22 |          |    |
| 13       | 6 | 23       | 10 | 33       | 16 | 43       | 22 |          |    |
| 14       | 6 | 24       | 11 | 34       | 16 | 44       | 23 |          |    |

### Type D | Double guide



| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 7  | 25       | 12 | 35       | 18 | 45       | 26 |
| 6        | 3 | 16       | 7  | 26       | 13 | 36       | 19 | 46       | 27 |
| 7        | 3 | 17       | 8  | 27       | 13 | 37       | 20 | 47       | 28 |
| 8        | 4 | 18       | 8  | 28       | 14 | 38       | 20 | 48       | 29 |
| 9        | 4 | 19       | 9  | 29       | 14 | 39       | 21 | 49       | 30 |
| 10       | 5 | 20       | 9  | 30       | 15 | 40       | 22 | 50       | 31 |
| 11       | 5 | 21       | 10 | 31       | 16 | 41       | 23 |          |    |
| 12       | 6 | 22       | 11 | 32       | 16 | 42       | 24 |          |    |
| 13       | 6 | 23       | 11 | 33       | 17 | 43       | 24 |          |    |
| 14       | 7 | 24       | 12 | 34       | 18 | 44       | 25 |          |    |

### Type R | Curved double guide



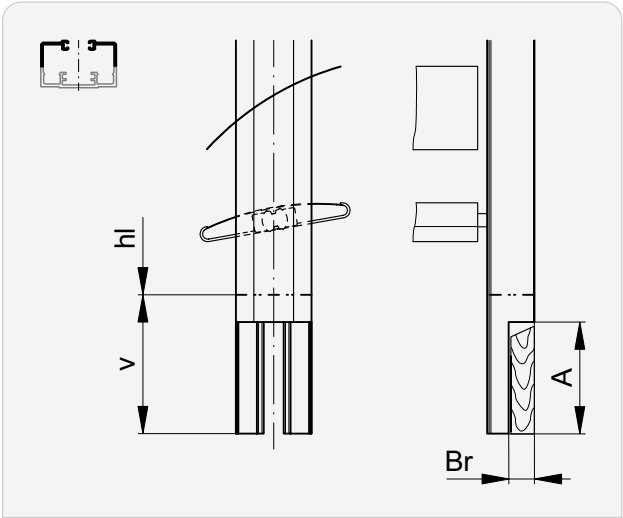
| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 4  | 15       | 12 | 25       | 21 | 35       | 31 | 45       | 45 |
| 6        | 5  | 16       | 13 | 26       | 22 | 36       | 32 | 46       | 46 |
| 7        | 5  | 17       | 14 | 27       | 23 | 37       | 34 | 47       | 48 |
| 8        | 6  | 18       | 14 | 28       | 24 | 38       | 35 | 48       | 50 |
| 9        | 7  | 19       | 15 | 29       | 25 | 39       | 36 | 49       | 51 |
| 10       | 8  | 20       | 16 | 30       | 26 | 40       | 37 | 50       | 53 |
| 11       | 9  | 21       | 17 | 31       | 27 | 41       | 39 |          |    |
| 12       | 9  | 22       | 18 | 32       | 28 | 42       | 40 |          |    |
| 13       | 10 | 23       | 19 | 33       | 29 | 43       | 42 |          |    |
| 14       | 11 | 24       | 20 | 34       | 30 | 44       | 43 |          |    |

Guide rail cut-outs in windowsill area

| Guide type |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|
| C          | D | E | F | L | R | T |
| —          | — | ● | ● | ● | — | — |

Rear cut-out | with extension

Extension |  $v \geq A$

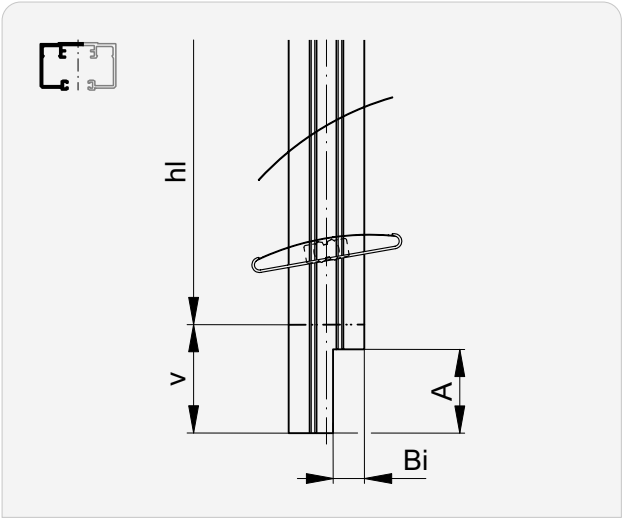


| A ( $\leq v$ ) | Guide type | Br       |          |         |
|----------------|------------|----------|----------|---------|
|                |            | E        | F        | L*      |
| 0 ... 25       |            | 2 ... 3  | 2 ... 4  | 2 ... 4 |
|                |            | 5 ... 12 | 9 ... 12 | 6       |

\* FL  $\geq$  630

Inner cut-out | without / with extension

Extension |  $v \geq A$

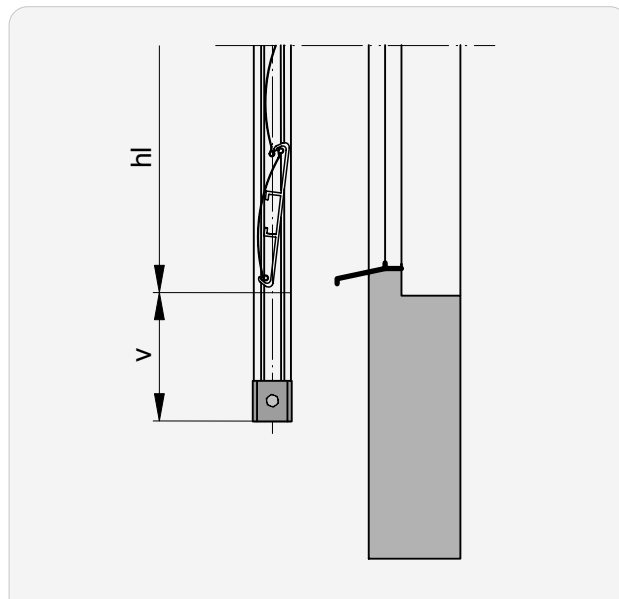
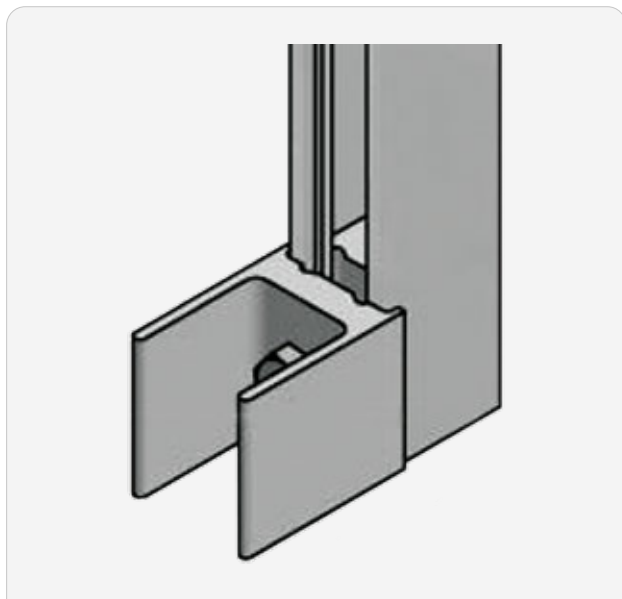


| A ( $\leq v$ ) | Guide type | Bi       |          |          |
|----------------|------------|----------|----------|----------|
|                |            | E        | F        | L*       |
| 0 ... 25       |            | 6 ... 12 | 3 ... 10 | 8 ... 12 |

\* FL  $\geq$  630

v Guide rail extension: 0 ... 3000

## Guide rail end for suspended guide rails



| Guide type |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|
| C          | D | E | F | L | R | T |
| ●          | ● | ● | ● | ● | ● | ● |

L\*

70

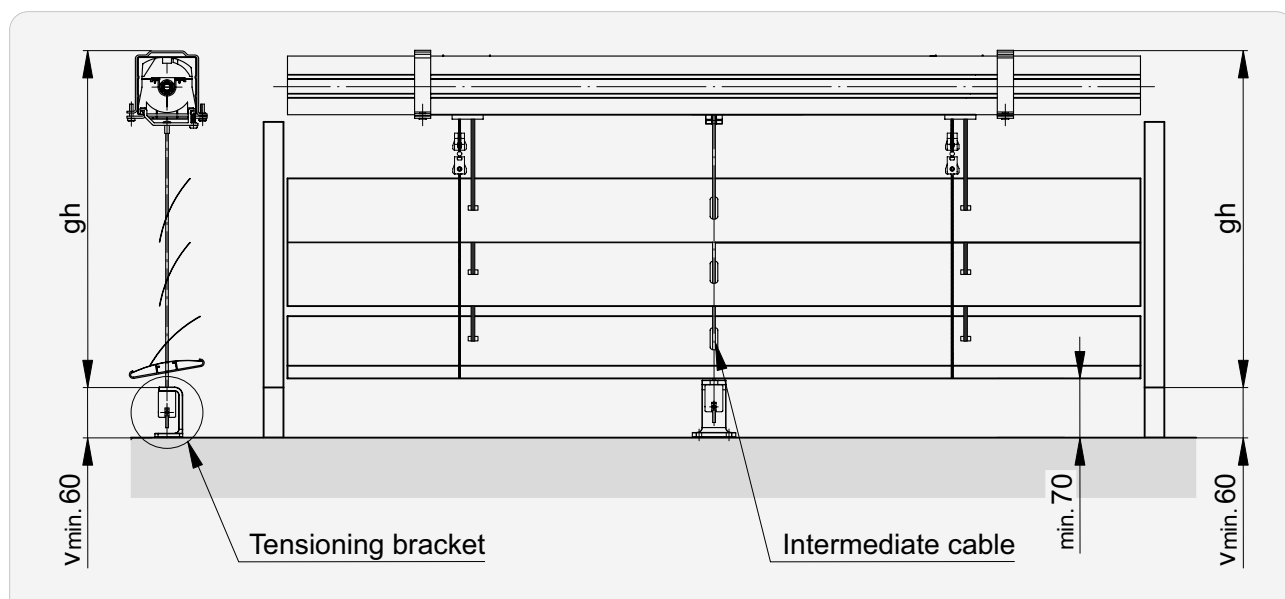
v

≥30

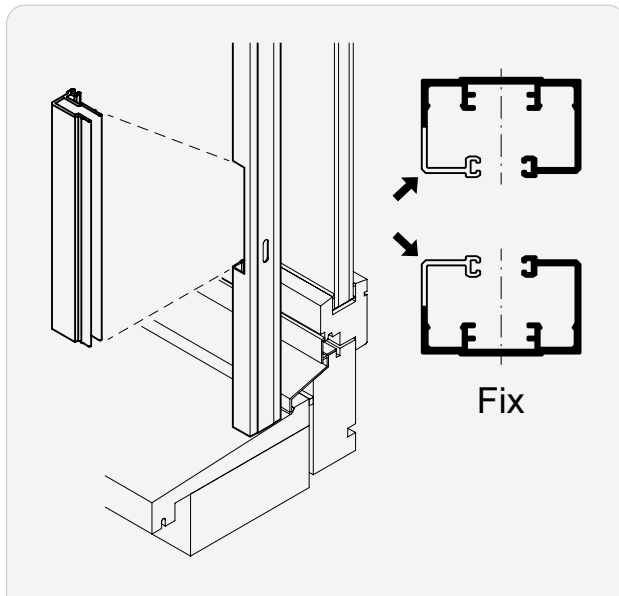
\* Guide fastening with local brackets.

## Guide extension for window sill installation

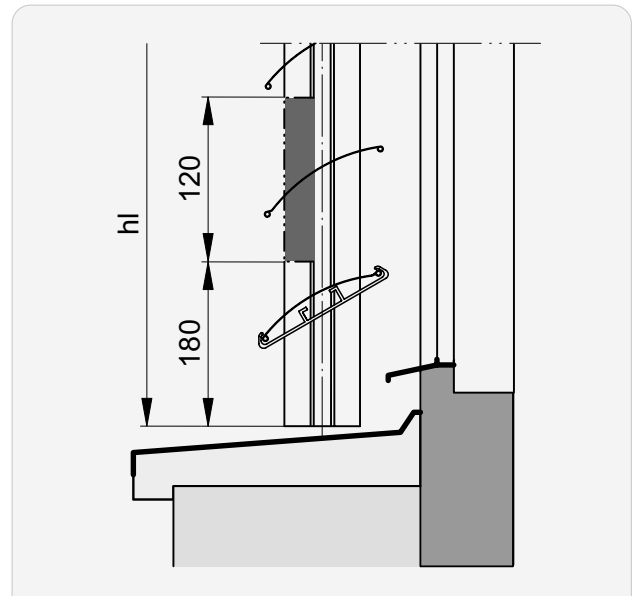
**i** For additional intermediate cables with “tensioning bracket down”, the guide rails must be extended 60 mm for window ledge mounting.



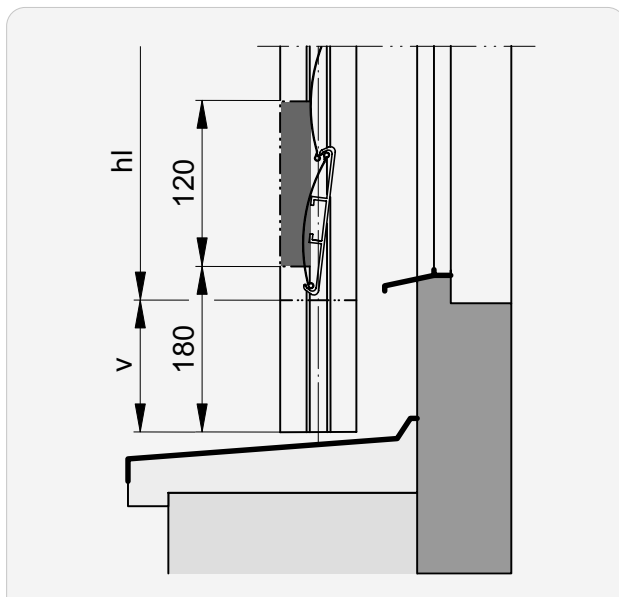
## Installation window



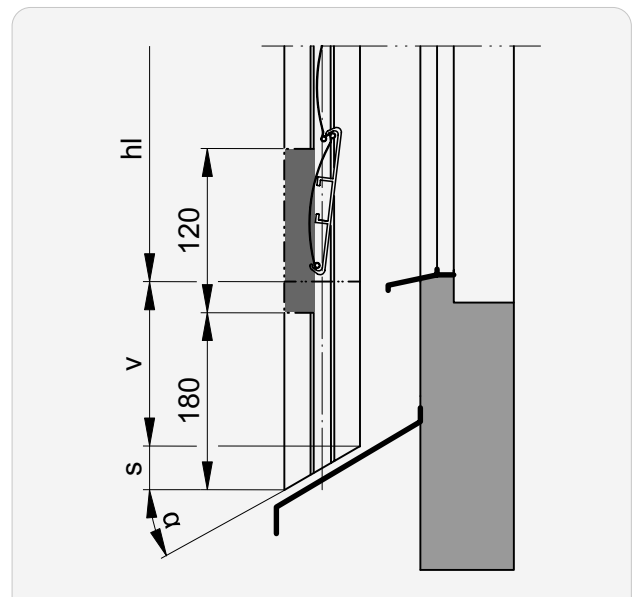
### Without extension



### With extension



### With extension and facet



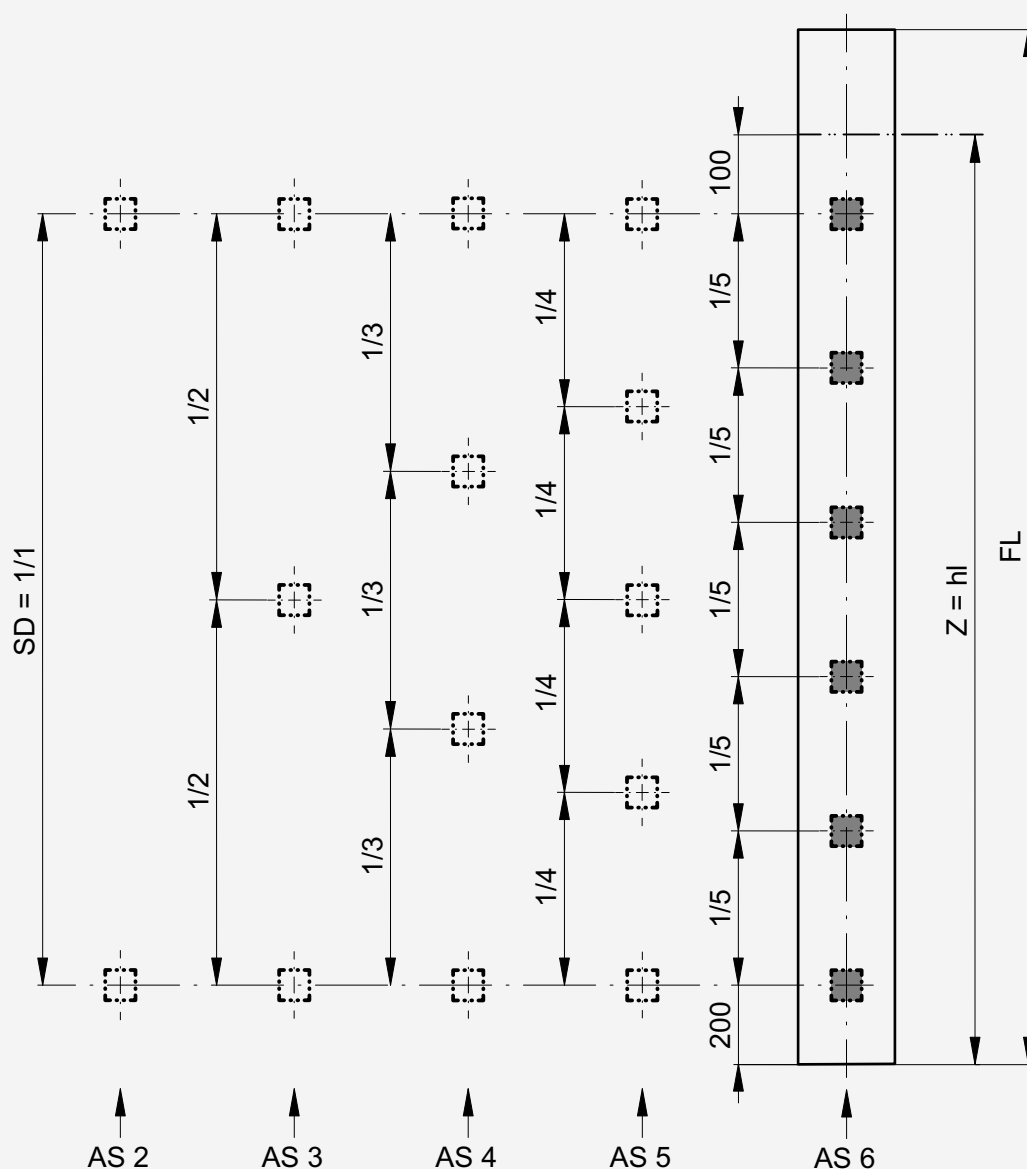
- s** Faceting (guide rail width x  $\tan \alpha$ )
- v** Guide rail extension: max. 3000

## Fastening points

Box

## Without extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



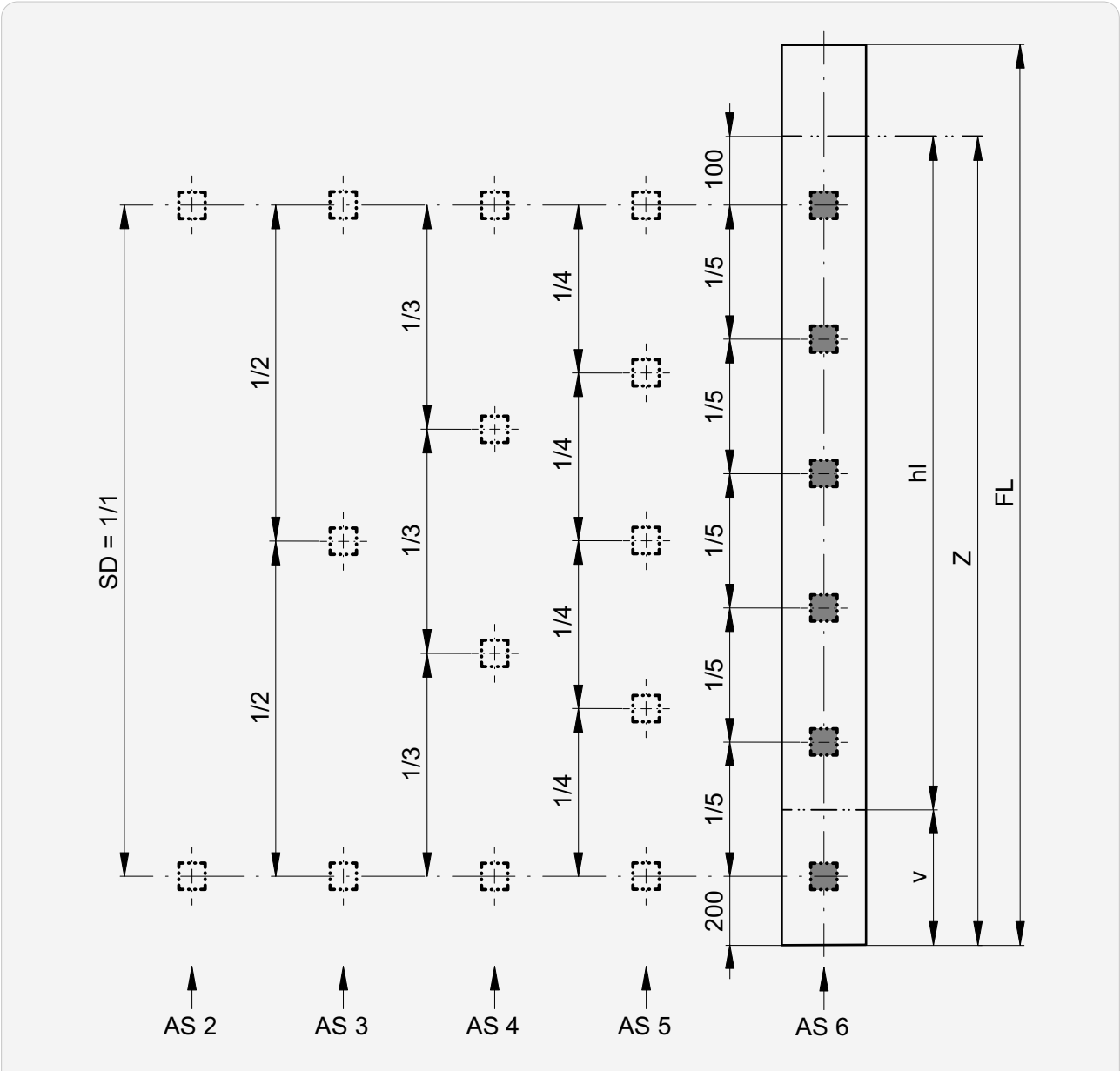
AS Number of slits

SD Slot spacing: max. 1200

►► Fastening points

With guide rail extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits  
**SD** Slot spacing: max. 1200

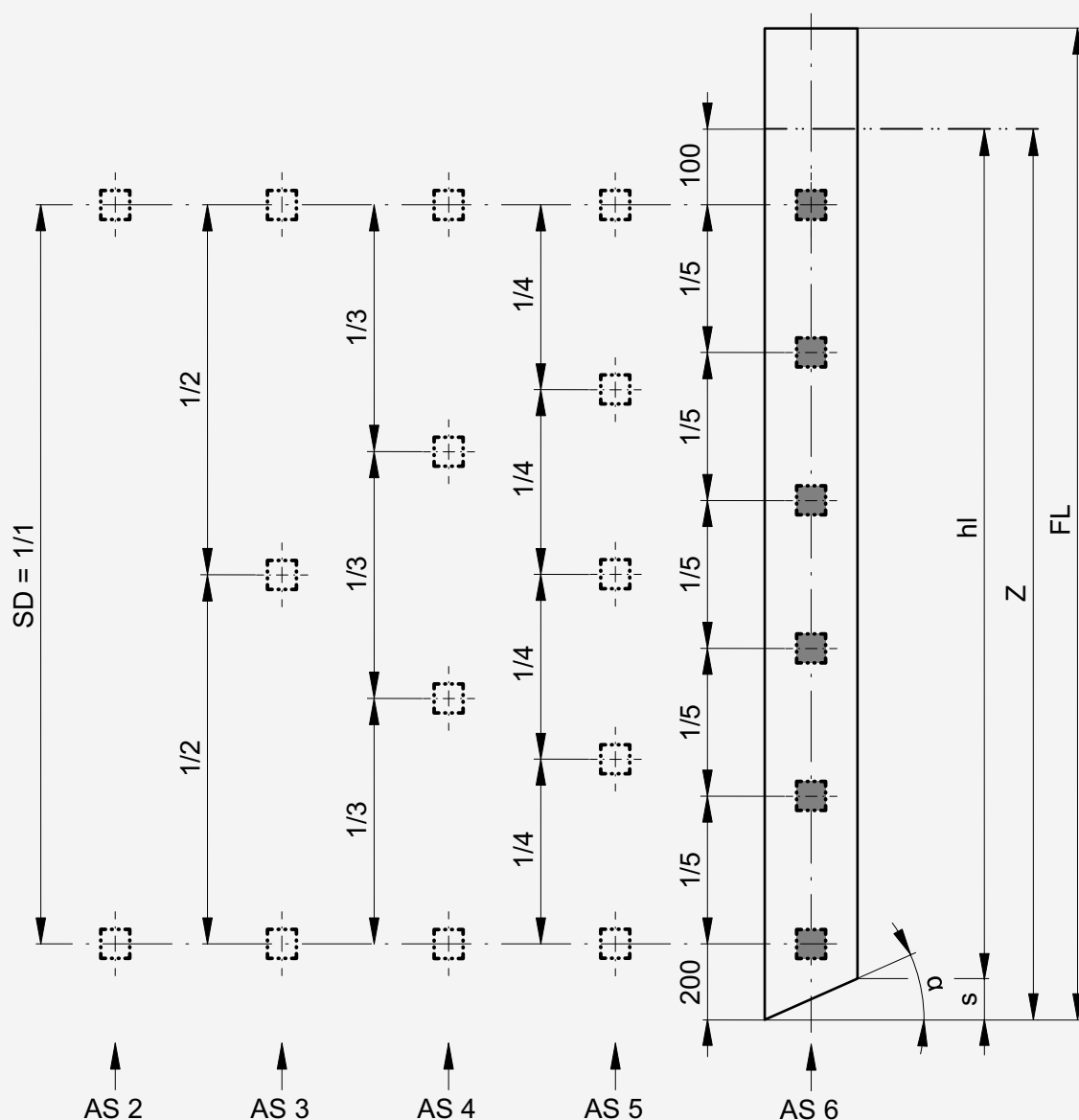
**v** Guide rail extension: max. 3000

|                                   |     |                             |     |
|-----------------------------------|-----|-----------------------------|-----|
| ► Guide extension and facet ..... | 215 | ► Installation window ..... | 220 |
| ► Guide rail fastenings.....      | 207 |                             |     |

## ►► Fastening points

### With facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**SD** Slot spacing: max. 1200

**s** Faceting (guide rail width x  $\tan \alpha$ )

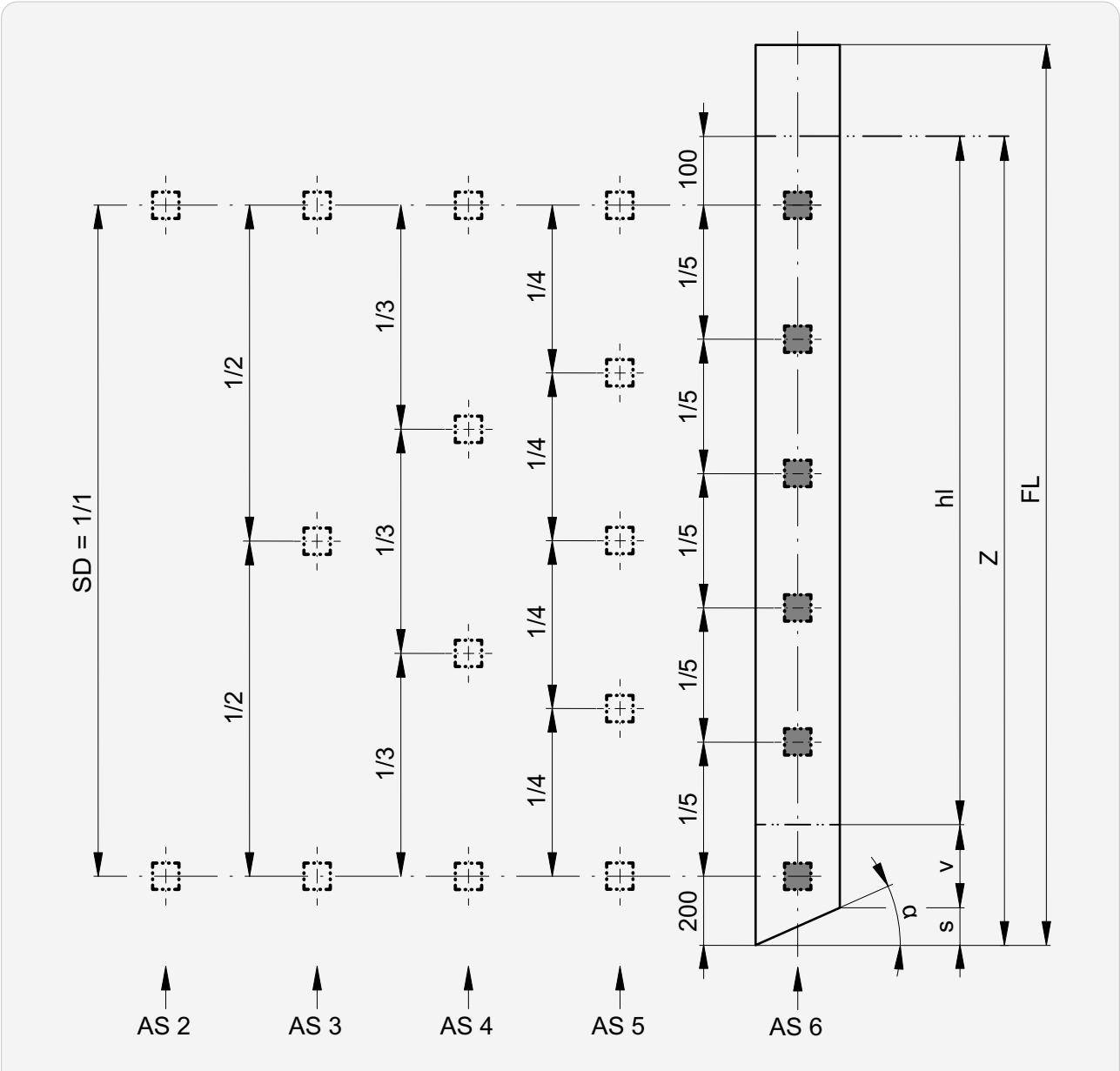
► Guide extension and facet .....215  
 ► Guide rail fastenings.....207

► Installation window .....220

►► Fastening points

With guide rail extension and facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**s** Faceting (guide rail width x tgα)

**SD** Slot spacing: max. 1200

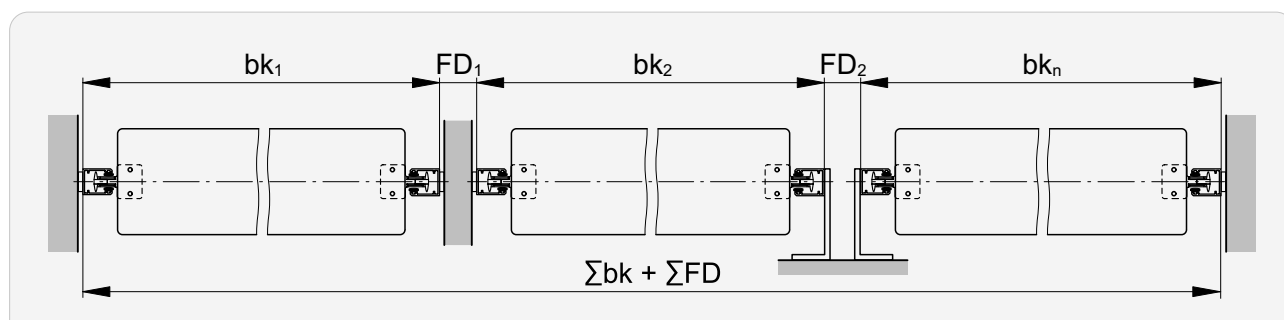
**v** Guide rail extension: max. 3000

|                                   |     |
|-----------------------------------|-----|
| ► Guide extension and facet ..... | 215 |
| ► Guide rail fastenings.....      | 207 |

|                             |     |
|-----------------------------|-----|
| ► Installation window ..... | 220 |
|-----------------------------|-----|

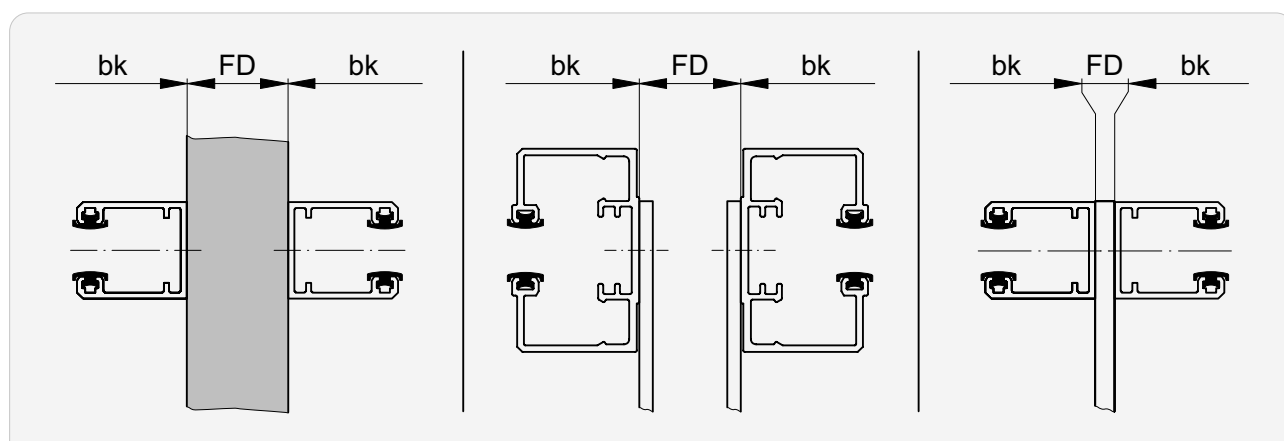
## Connected systems

### System width



### Distance between guides FD

#### Single guide | Fix guide

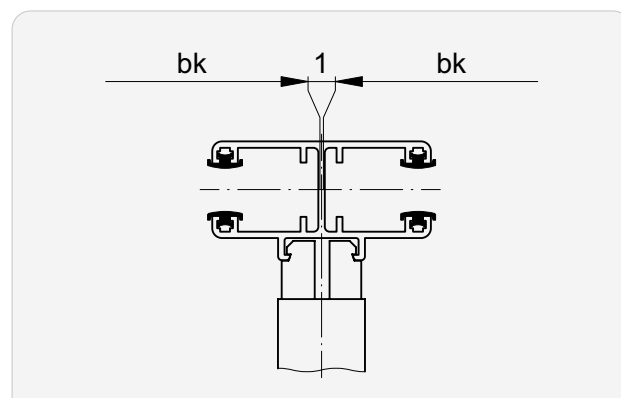
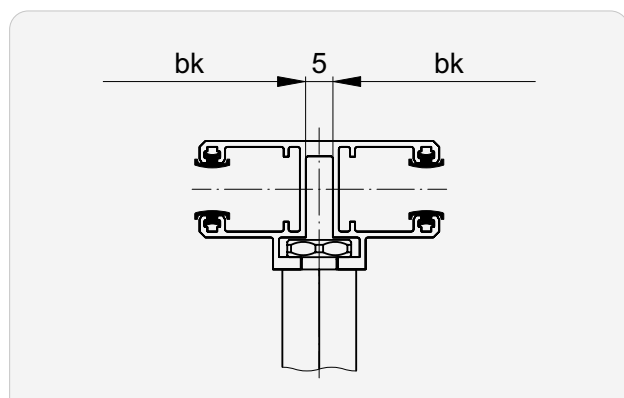

**FD min.**

5

**FD max.**

1000

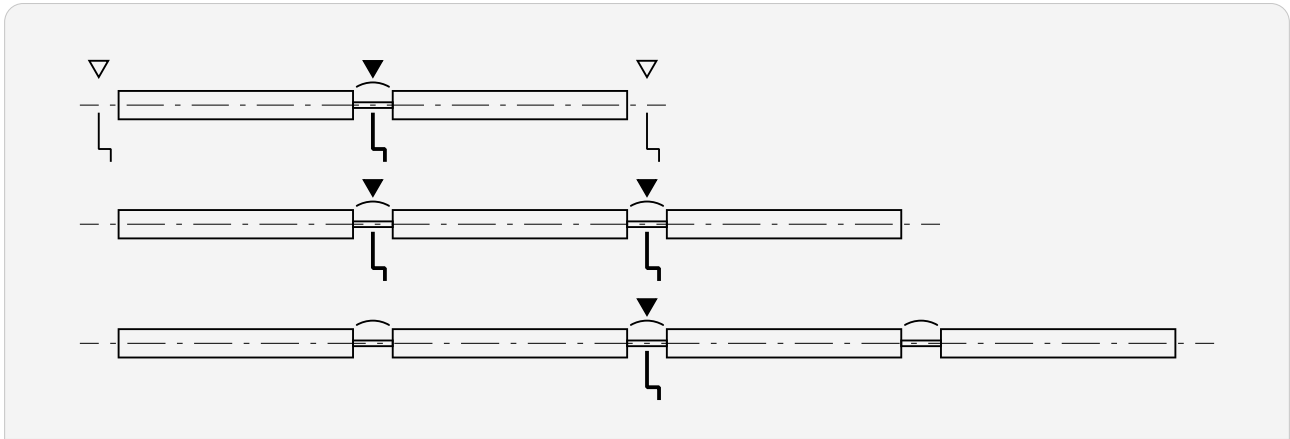
#### Double guide



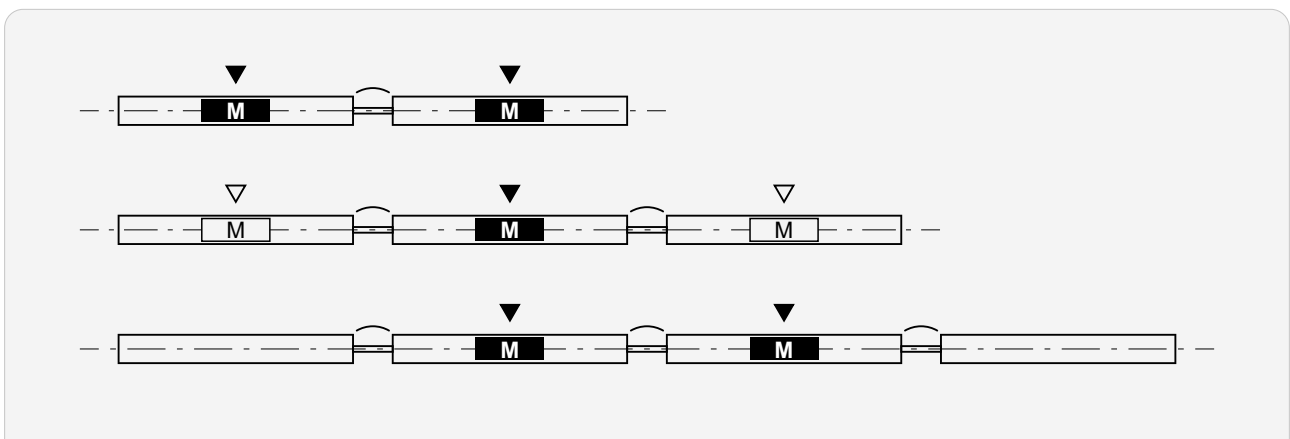
## ►► Connected systems

### Drive position

#### Gearbox



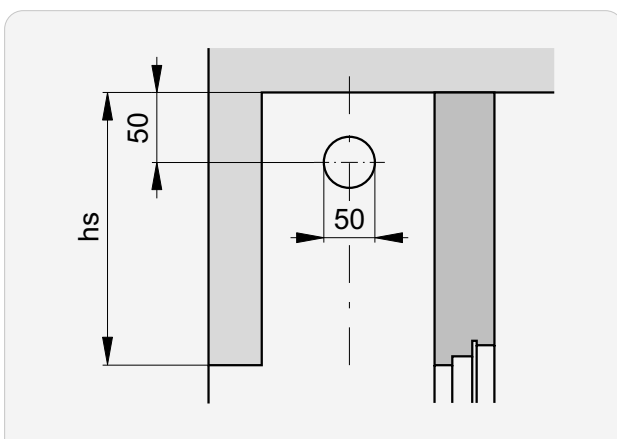
#### Motor



▼ Standard drive position

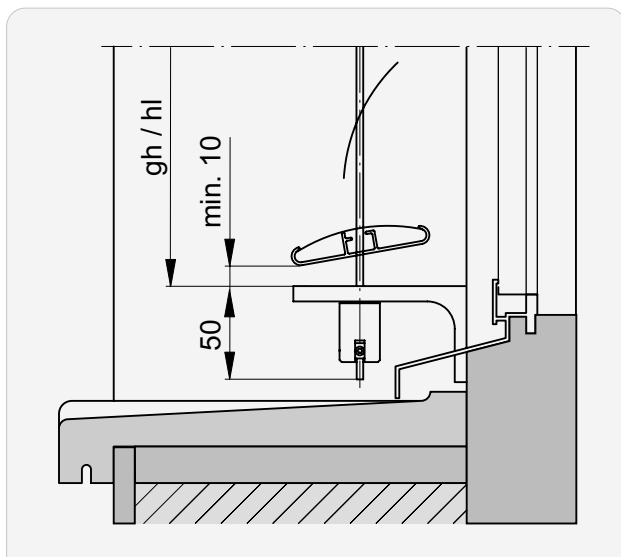
▽ Possible drive position

### Opening for connected blinds

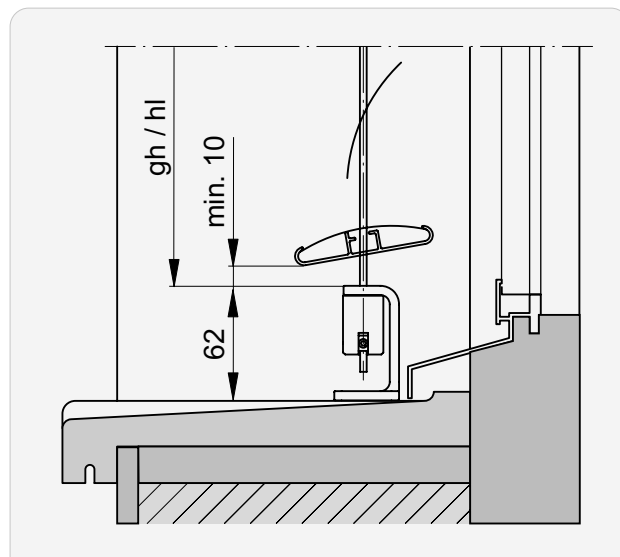


## Settings details

### Soffit-/facade mounting



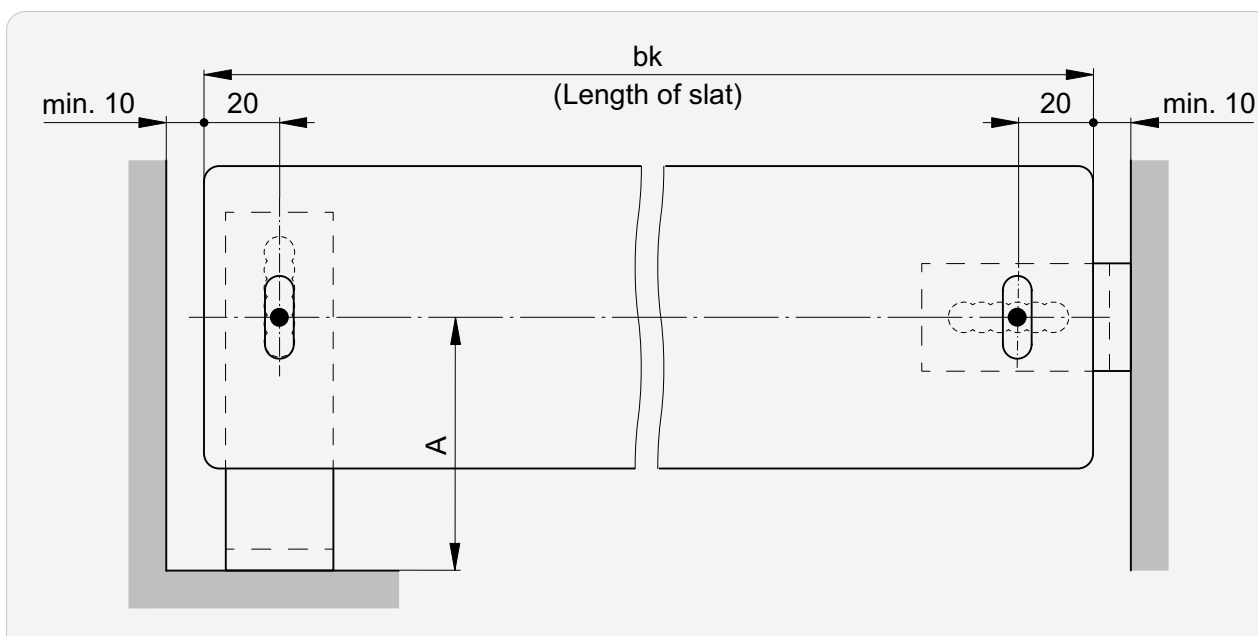
### Window ledge mounting



➡ Cable fastenings.....234

➡ Distance between guides **FD** .....236

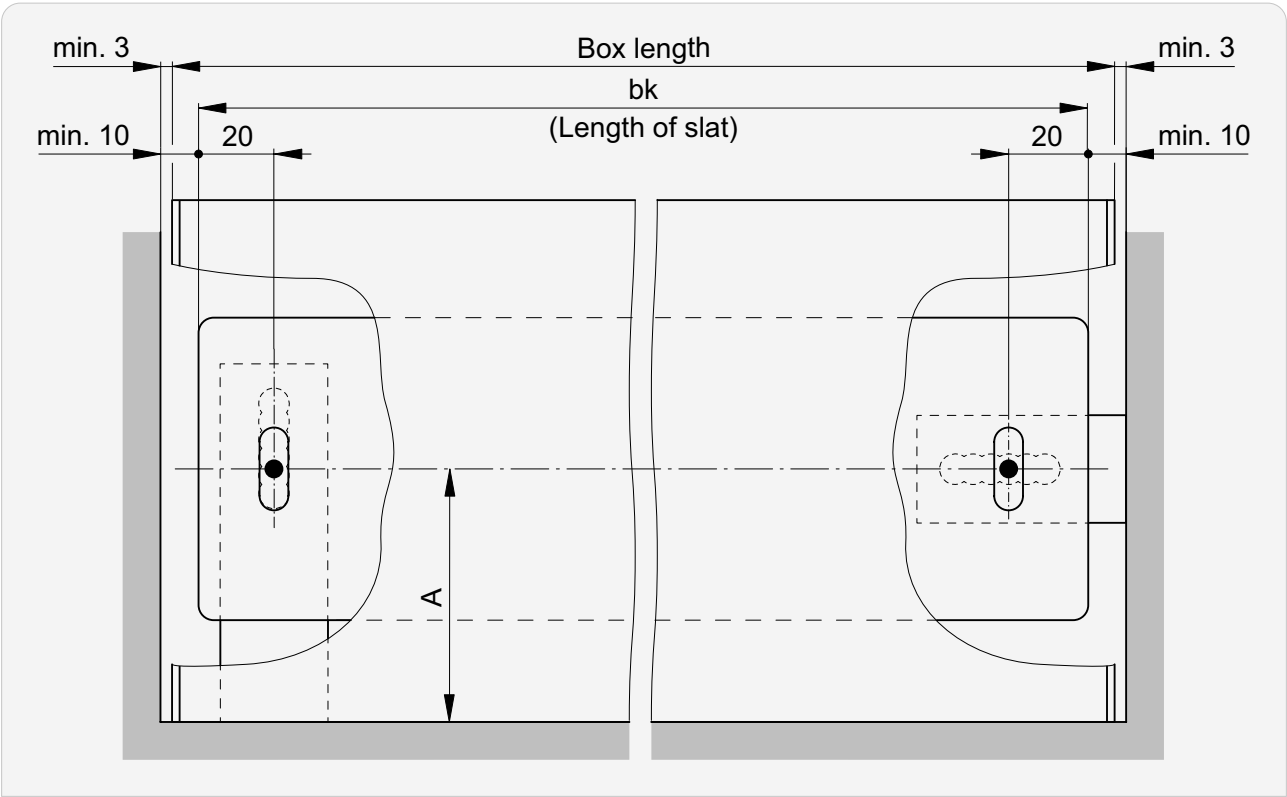
### Horizontal section



➡ Value for **A**.....187

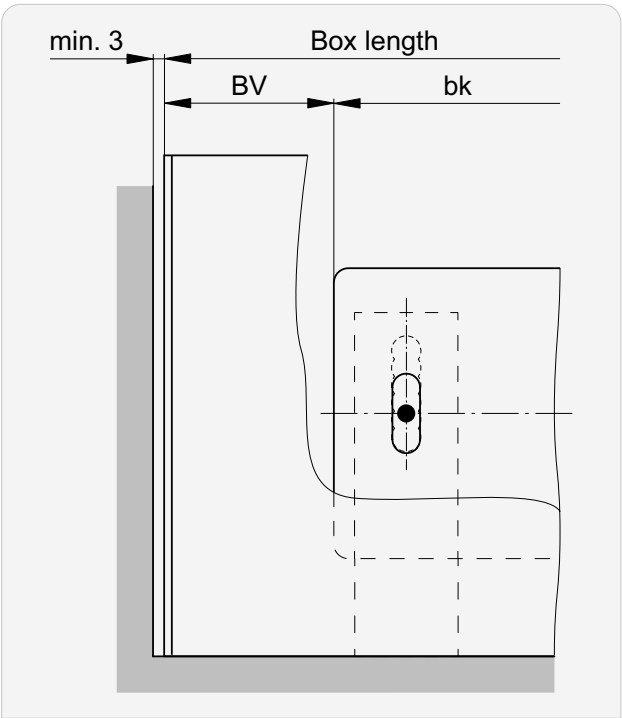
►► Sections | Details

Horizontal section: Box



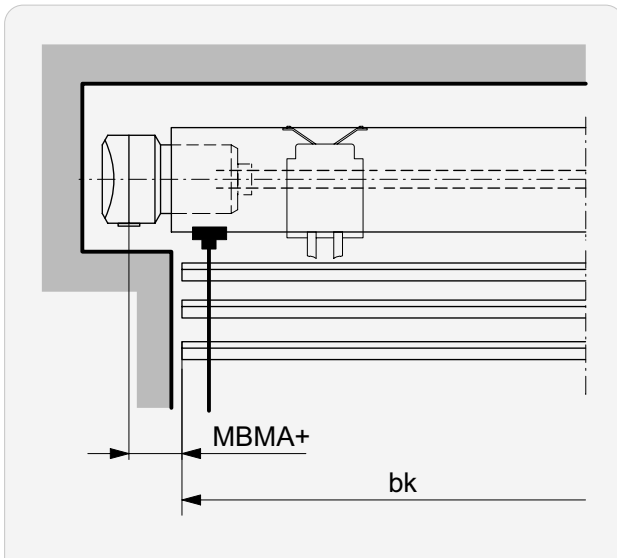
➡ Value for **A**.....187

Horizontal section: Box extension



## Sections for crank drive (MBMA)

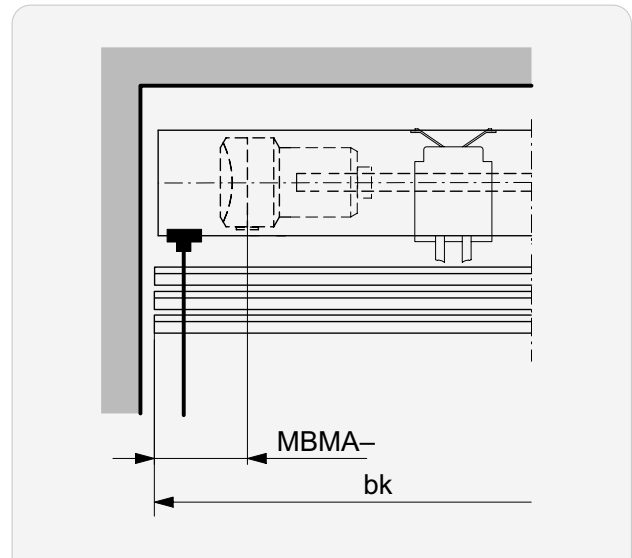
outside bk



### MBMA+<sup>1</sup>

20 ... 999

within bk



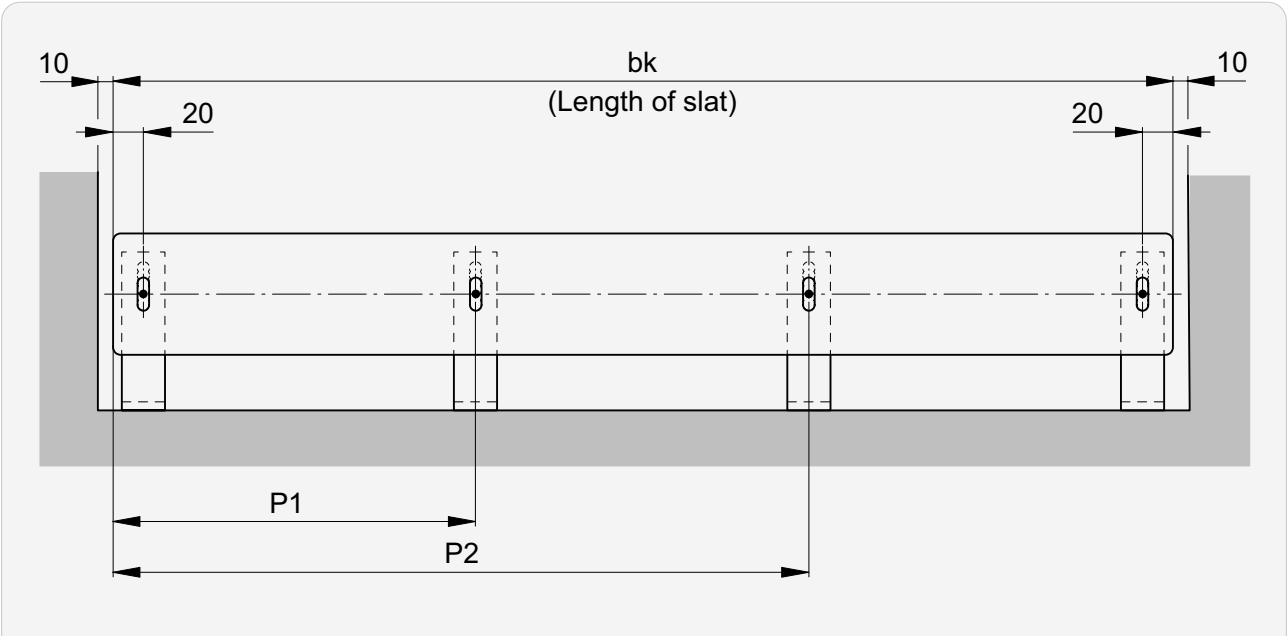
### MBMA-

80 ... (bk/2)

<sup>1</sup> For 20 ... 44, provide enough niche depth for the housing extension.

Additional cables

**i** Additional cables must be fitted for a  $bk > 3000$  and in locations which are exposed to high wind.  
The dimensions **P1** and **P2** are measured from the left from **bk** and must be noted on the dimensions sheet.  
P2 does not apply for the first additional cable.



**P1** Position of first cable or cable on the left  
**P2** Position of cable on the right

Number of additional cables

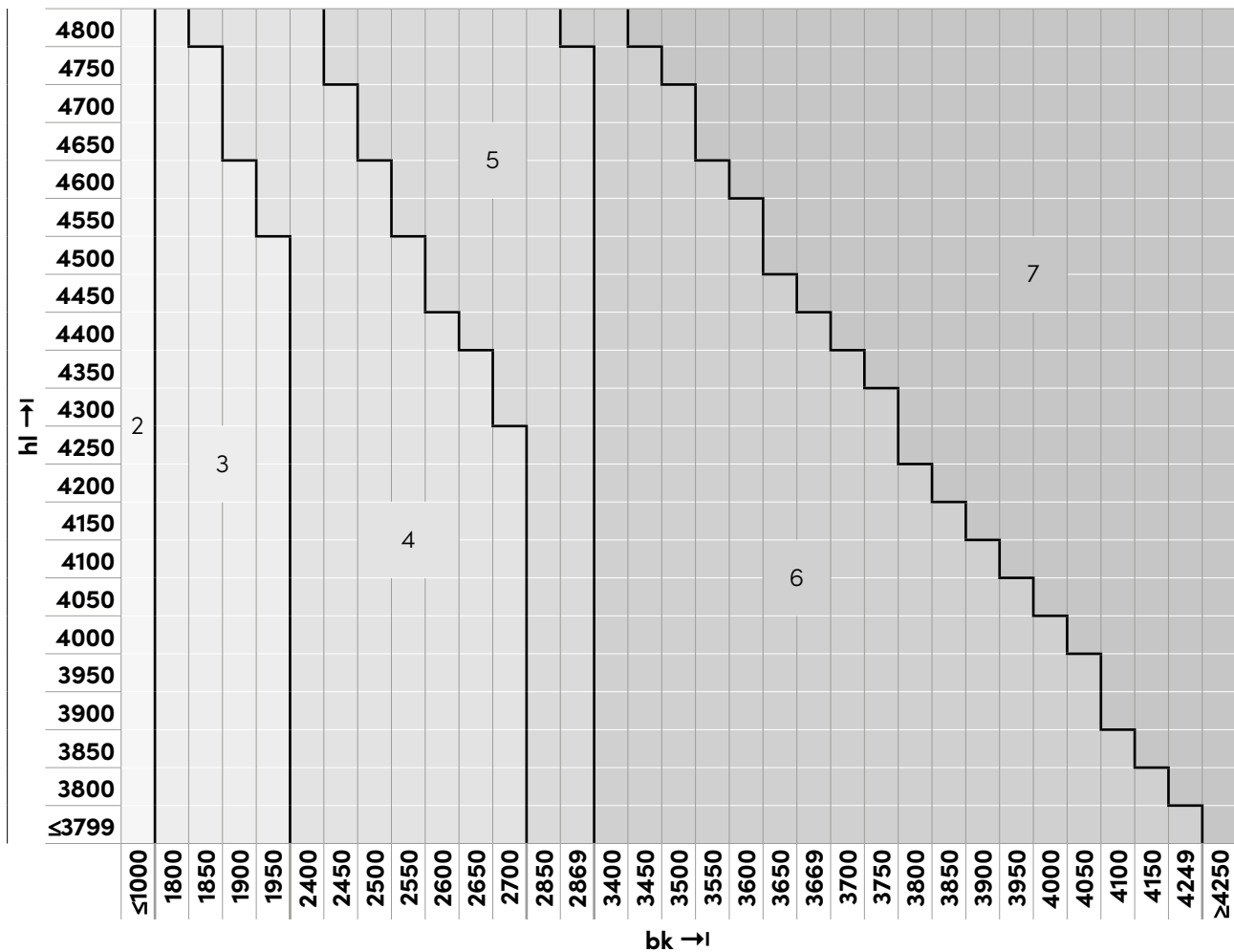
**i** If no information is provided for **P1** or **P2**, they are positioned according to the following table.

| Width max.<br>(bk) | Number of<br>additional cables | P1     | P2      |
|--------------------|--------------------------------|--------|---------|
| ≤3000              | 0                              | –      | –       |
| 3001...4400        | 1                              | (bk/2) | –       |
| >4400              | 2                              | (bk/3) | 2(bk/3) |

## Vertical connections | Standard motor position

Number of bearings

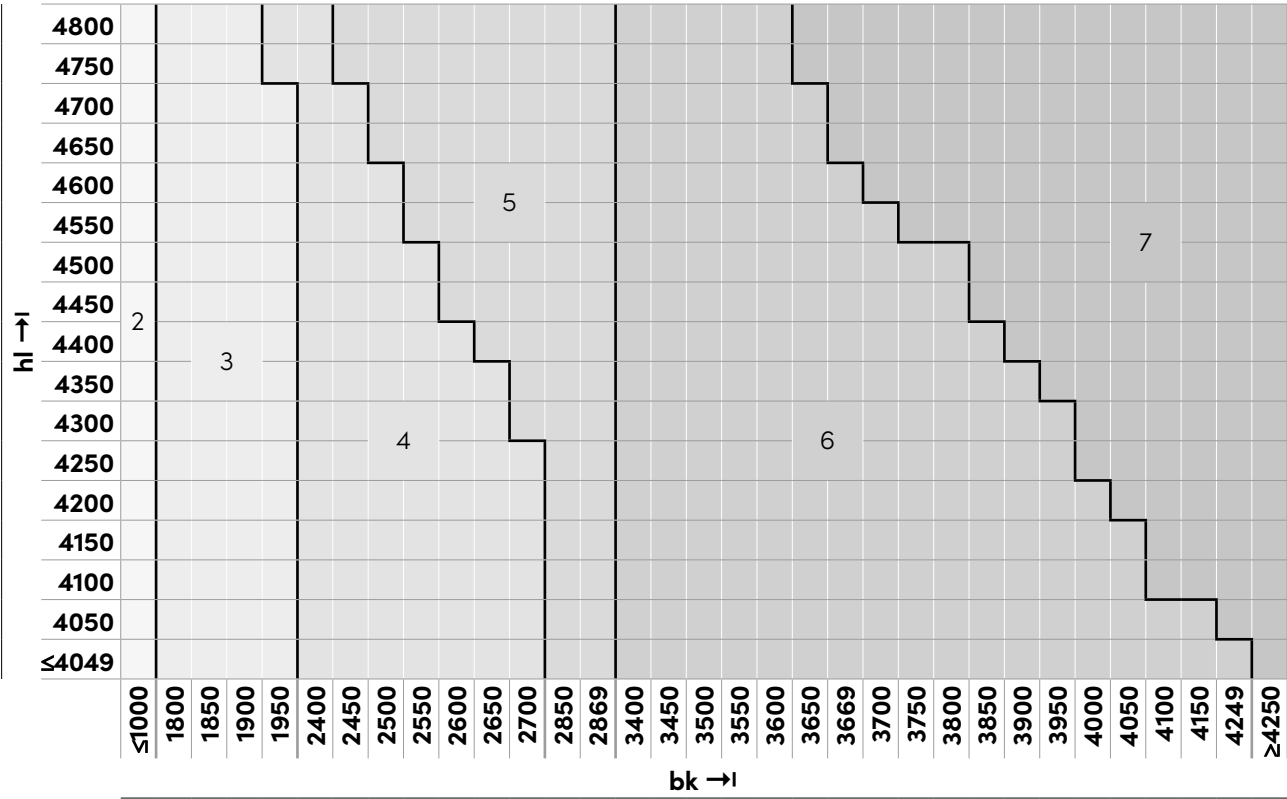
Aluflex® 60



►► Vertical connections | Standard motor position

Number of bearings

Aluflex® 80



## ►► Vertical connections | Standard motor position

### Standard motor position

#### Number of bearings

#### Standard motor position

2



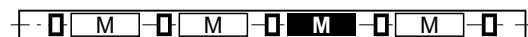
3



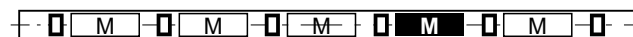
4



5



6



7



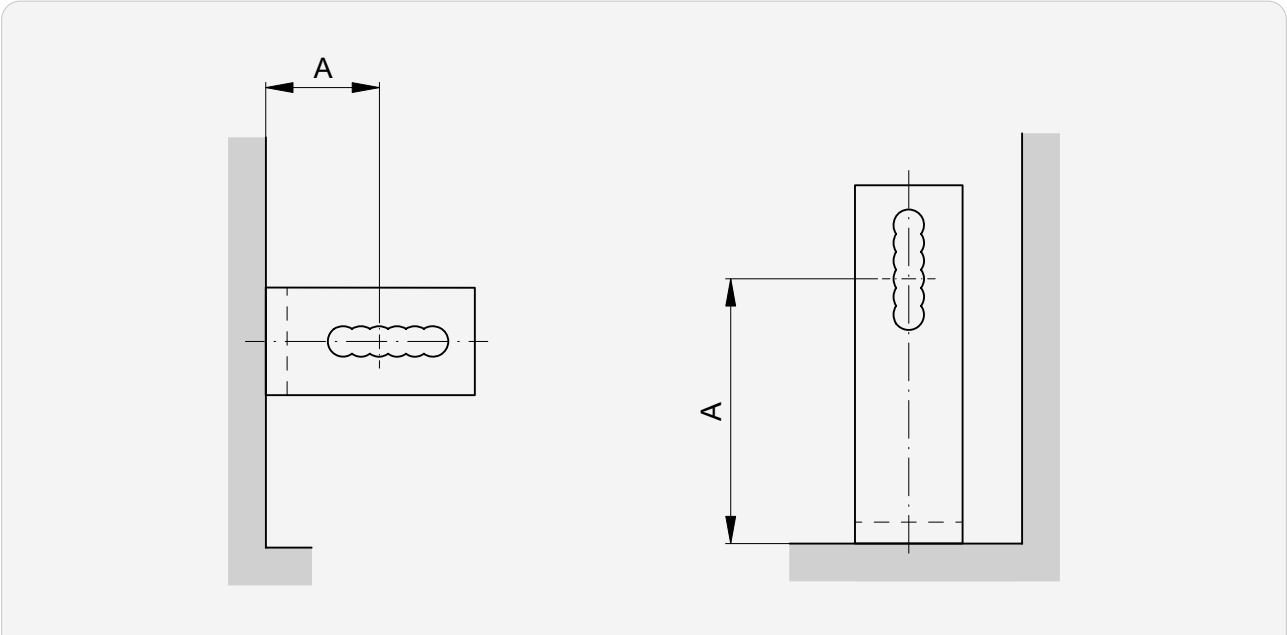
Bearing

Standard motor position

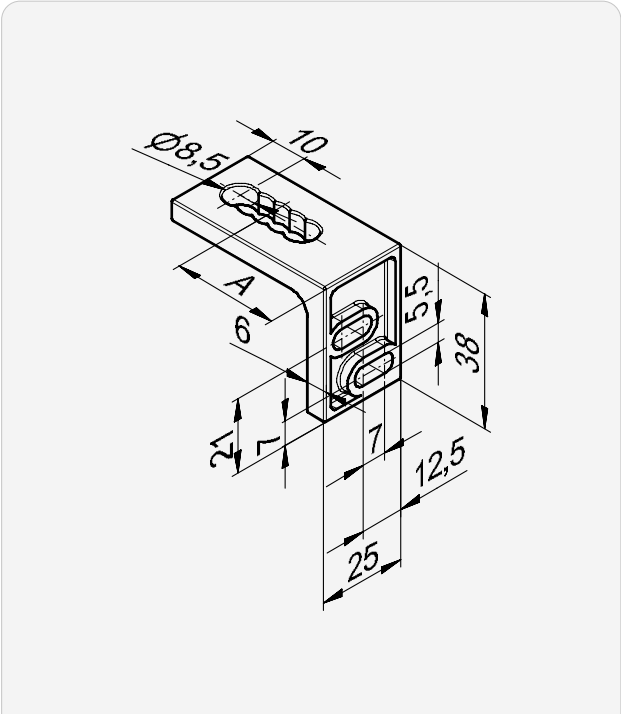
Possible motor position (on request)

Cable fastenings

**S** Soffit or facade installation

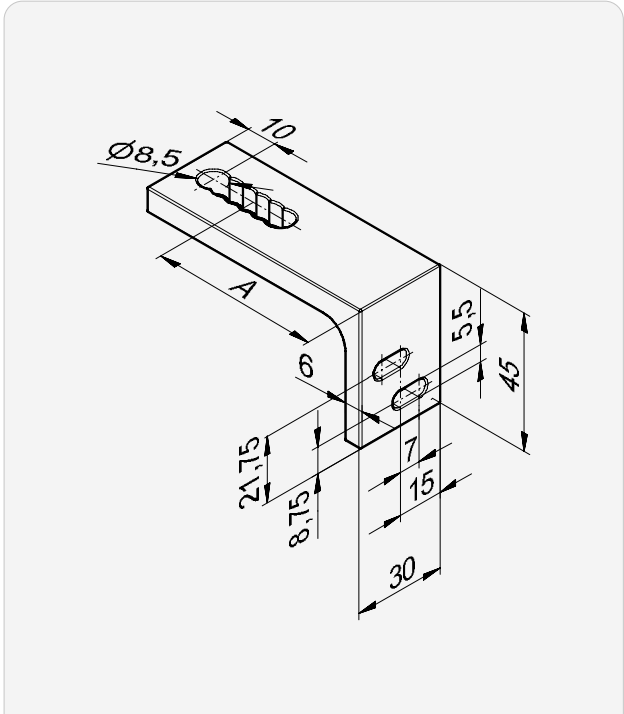


Tensioning bracket 20–40 for type S



**A**  
20 ... 40\*

Tensioning bracket 45–70 for type S

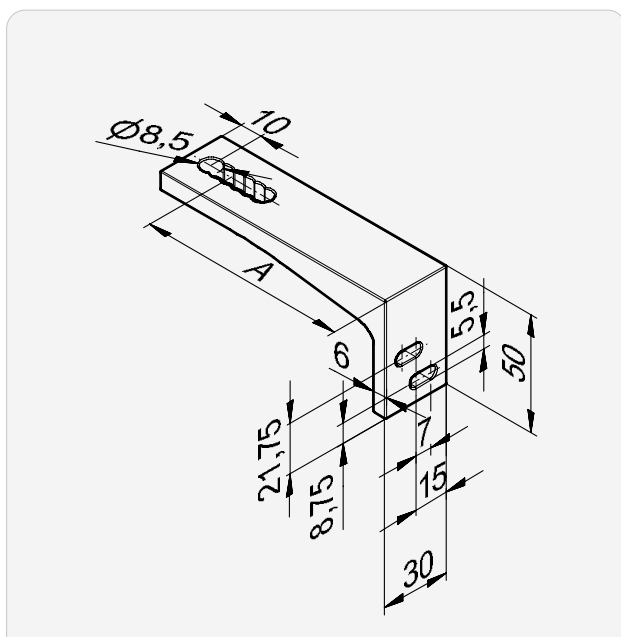


**A**  
45 ... 70\*

\* in 5 mm steps

## ►► Cable fastenings

Tensioning bracket 75–130 for type S

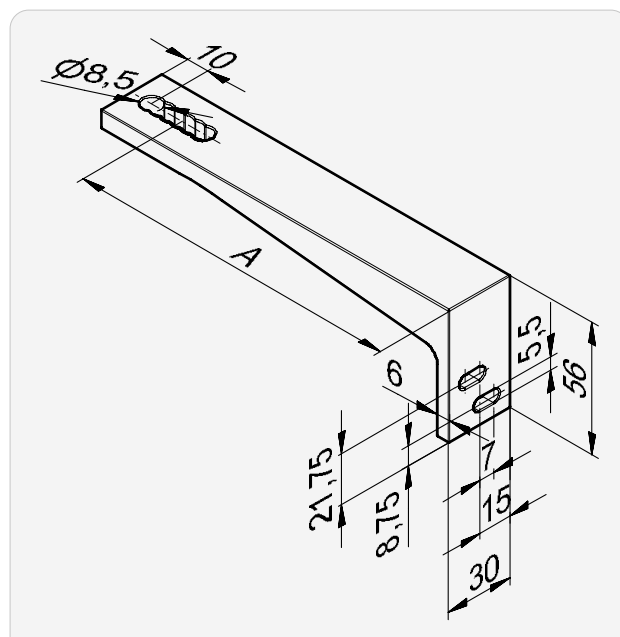


A

75 ... 100\*

105 ... 130\*

Tensioning bracket 135–190 for type S



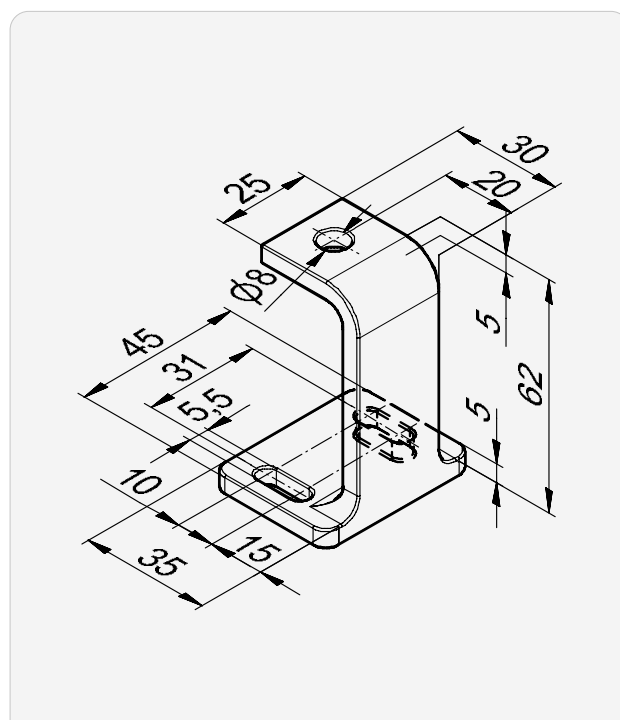
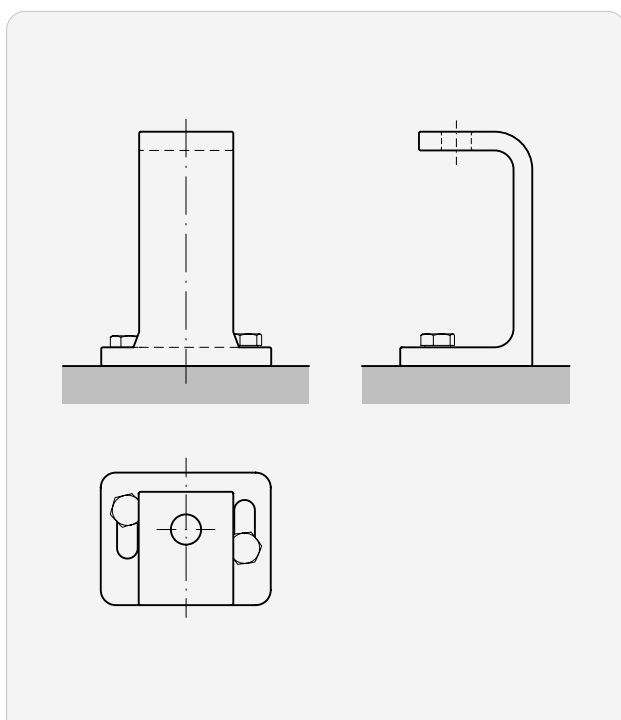
A

135 ... 160\*

165 ... 190\*

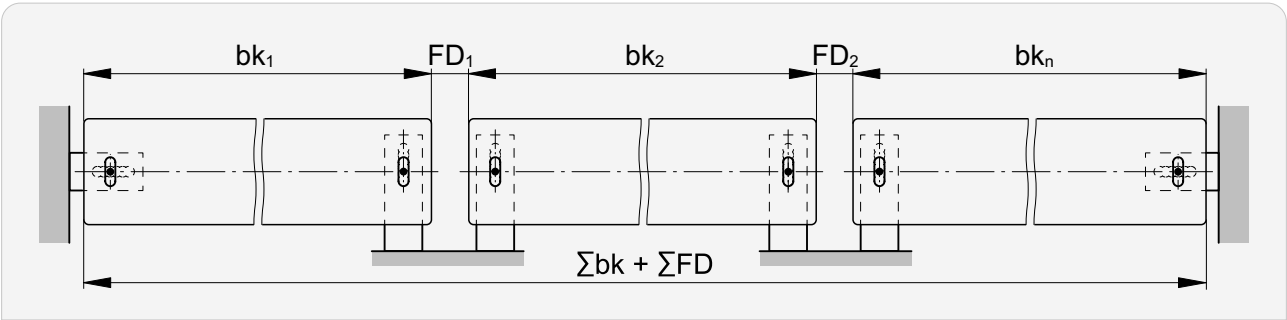
\* in 5 mm steps

## NU Windowsill installation

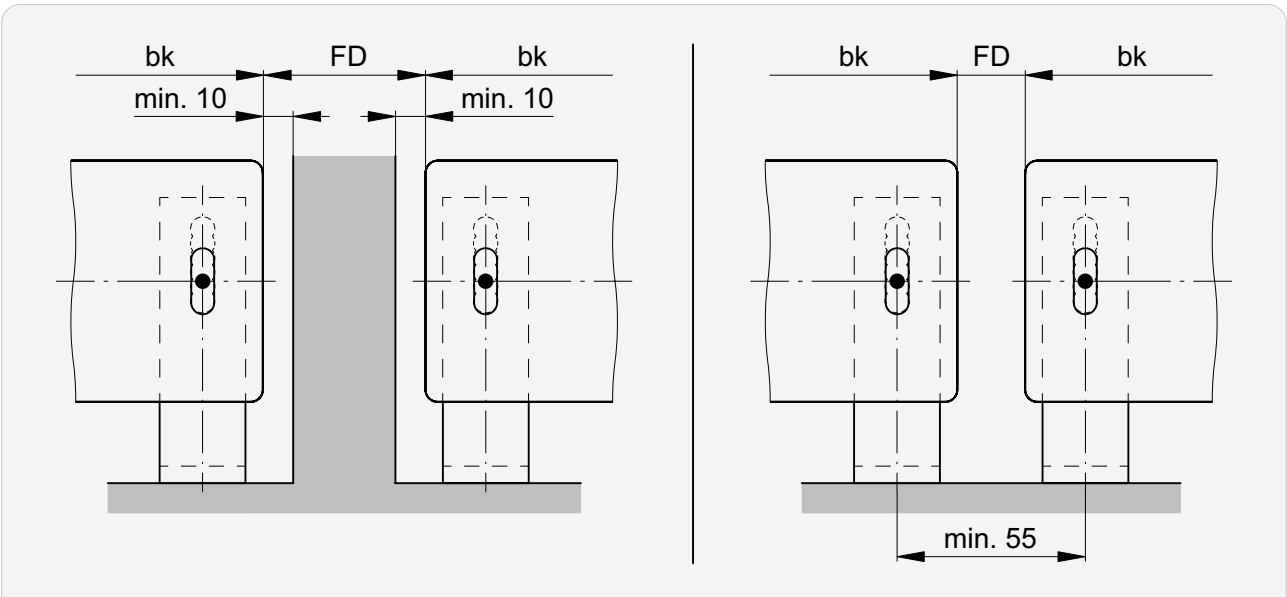


Connected systems

System width



Distance between guides FD

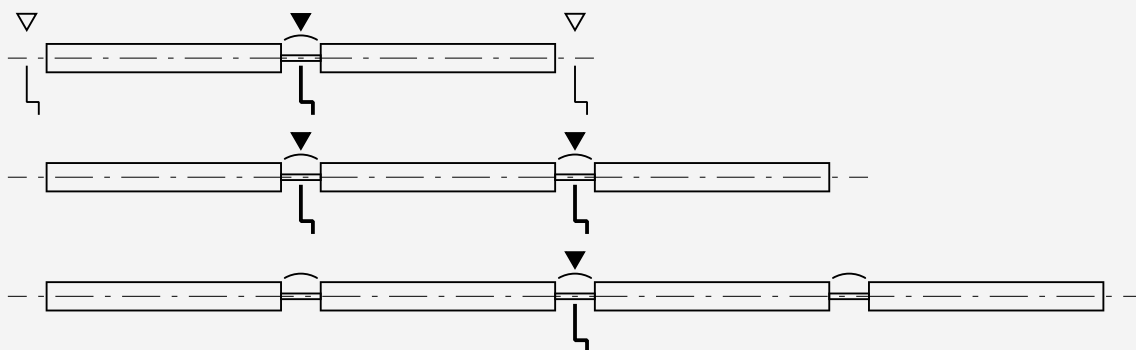


| FD min. | FD max. |
|---------|---------|
| 15      | 1000    |

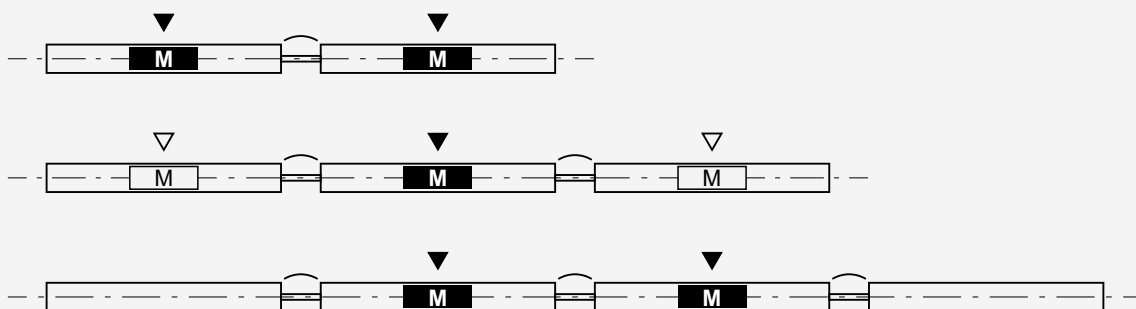
## ►► Connected systems

### Drive position

#### Gearbox



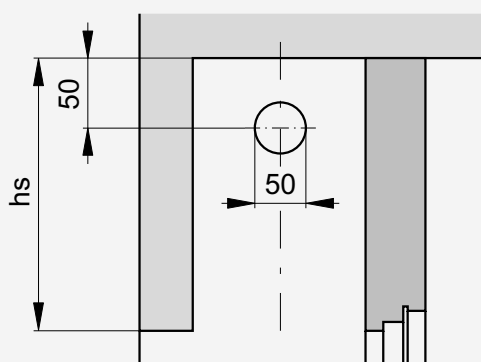
#### Motor



▼ Standard drive position

▽ Possible drive position

### Opening for connected blinds





# Solomatic® II

|                                        |     |
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## Cable guide

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## Limit dimensions Solomatic® II

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>2</sup> max.<br>(bk) | Height min.<br>(hl) | Height max.<br>(hl)    | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|---------------------------------|---------------------|------------------------|------------------------------------------------|
| Crank drive |                      |                                 |                     |                        |                                                |
| Motor drive | 500*                 | 4500                            | 440                 | 4500 4000 <sup>5</sup> | 11                                             |
|             | 600 630 <sup>5</sup> |                                 |                     |                        | 15                                             |

### Connected systems

| Operation                                                            | Width <sup>2</sup> max.<br>(bk) | Blinds max. | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|----------------------------------------------------------------------|---------------------------------|-------------|------------------------------------------------|
| Crank drive <sup>1</sup>                                             |                                 |             |                                                |
| Motor drive <sup>4</sup>                                             |                                 |             |                                                |
|                                                                      | 10000                           | 4           | 11                                             |
| The guide distance <b>FD</b> must be at least 15mm with cable guide. |                                 |             | 24                                             |

<sup>1</sup> A max. of 2 blinds may be connected on each side of the gearbox.

\* with MBMA— on request (depending on gear position)

## Limit dimensions Solomatic® II Box

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>2</sup> max.<br>(bk) | Height min.<br>(gh)               | Height max.<br>(gh)                                      | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|---------------------------------|-----------------------------------|----------------------------------------------------------|------------------------------------------------|
| Motor drive |                      |                                 |                                   |                                                          |                                                |
|             | 600 630 <sup>5</sup> | 4500                            | 605 <sup>6</sup> 735 <sup>7</sup> | 4845 <sup>6</sup> 4760 <sup>7</sup><br>4000 <sup>5</sup> | 11                                             |

### Connected systems

| Operation                | Width <sup>2</sup> max.<br>(bk) | Blinds max. | Surface <sup>3</sup> max.<br>[m <sup>2</sup> ] |
|--------------------------|---------------------------------|-------------|------------------------------------------------|
| Motor drive <sup>4</sup> |                                 |             |                                                |
|                          | 10000                           | 4           | 24                                             |

<sup>2</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

<sup>3</sup> If crank drive is in slat area: maximum surface area and crank position available on request.

<sup>4</sup> For 3 or 4 blinds, the motor should be positioned in the center.

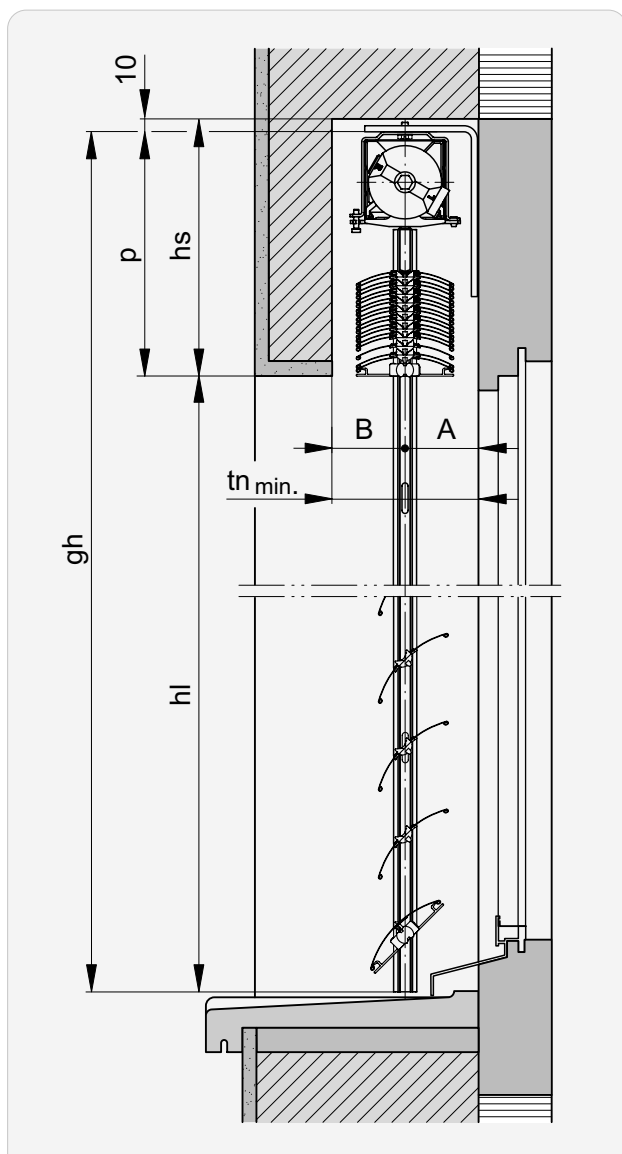
<sup>5</sup> Radio motor Geiger AIR

<sup>6</sup> Solomatic® II Box guide rail

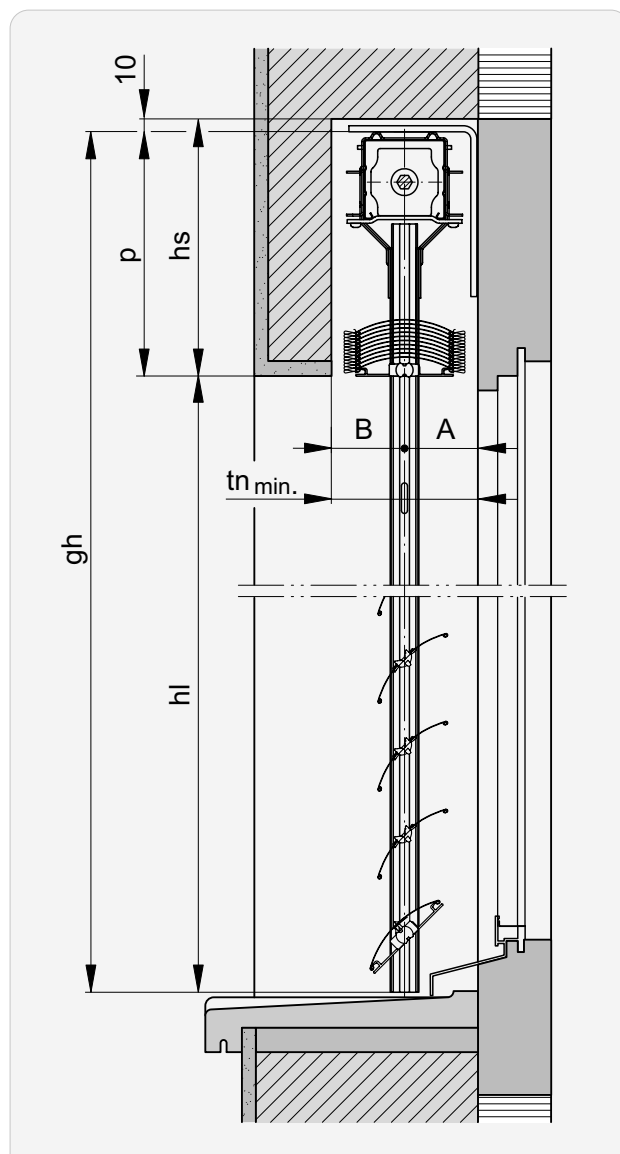
<sup>7</sup> Solomatic® II Box cable guide

## Built-in system

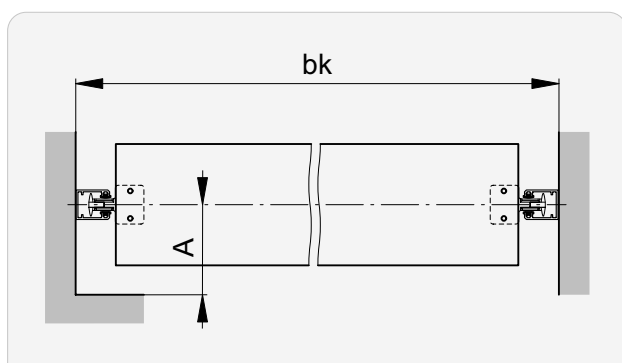
Vertical section: Guide rail conventional



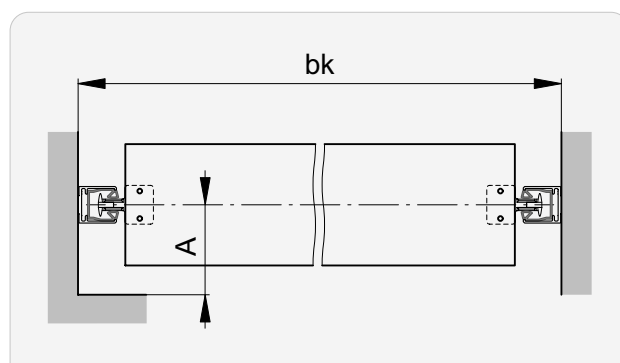
Vertical section: Guide rail Fix-L



Horizontal section: Guide rail conventional

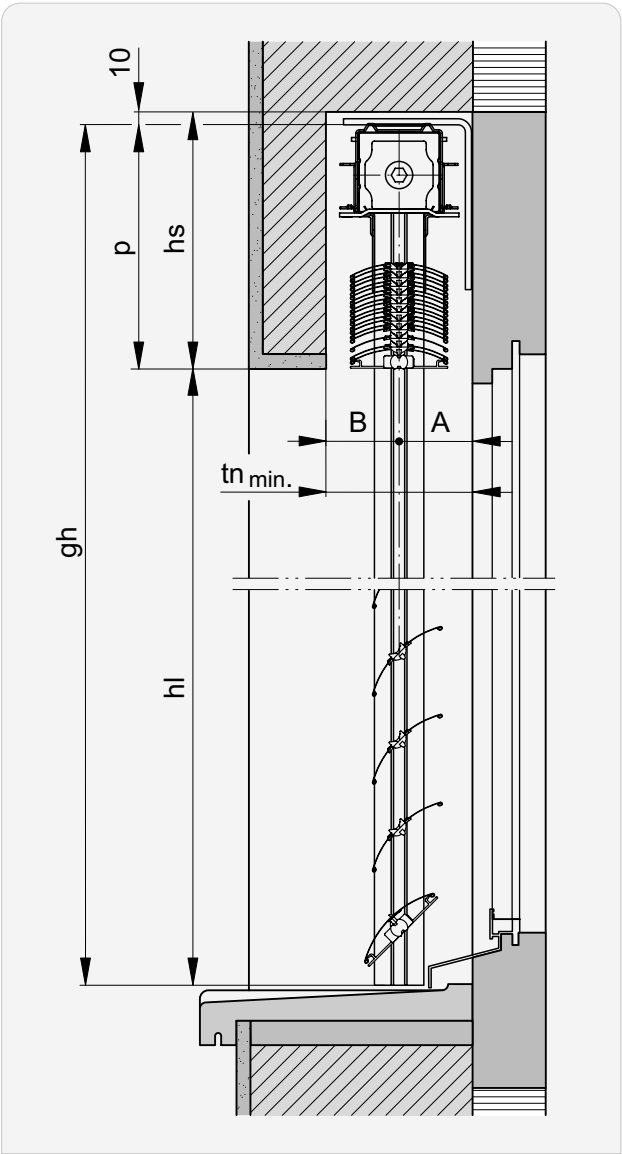


Horizontal section: Guide rail Fix-L

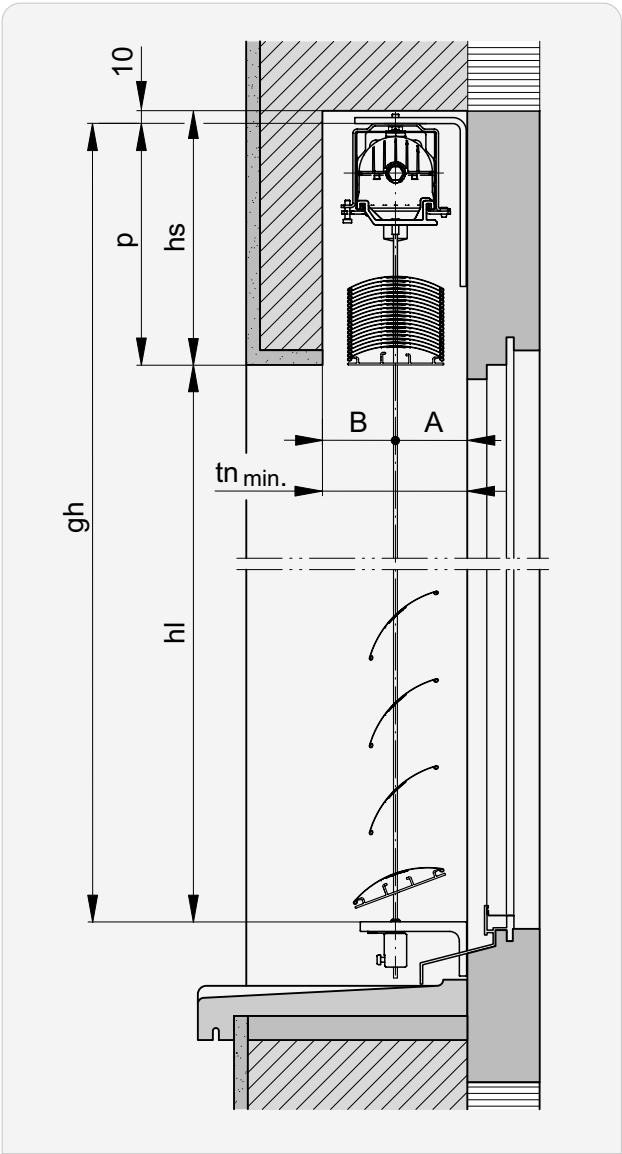


► Built-in system

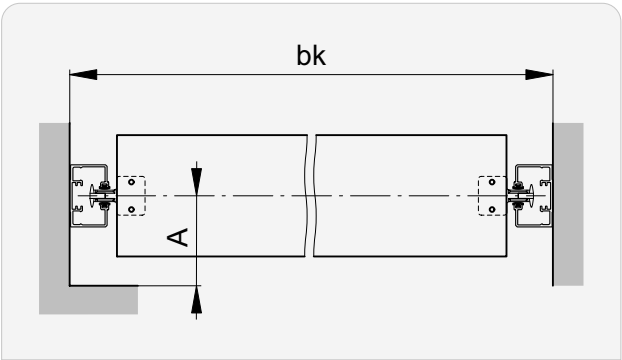
Vertical section: Guide rail Fix



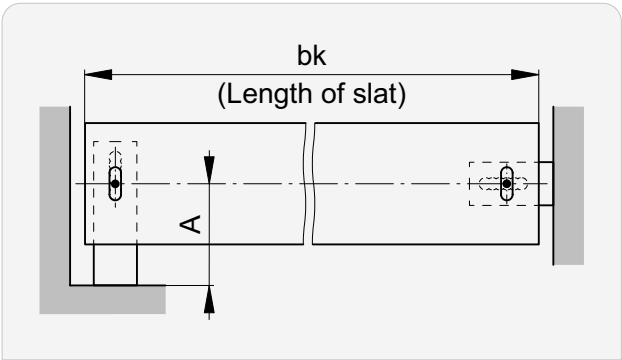
Vertical section: Cable guide



Horizontal section: Guide rail Fix

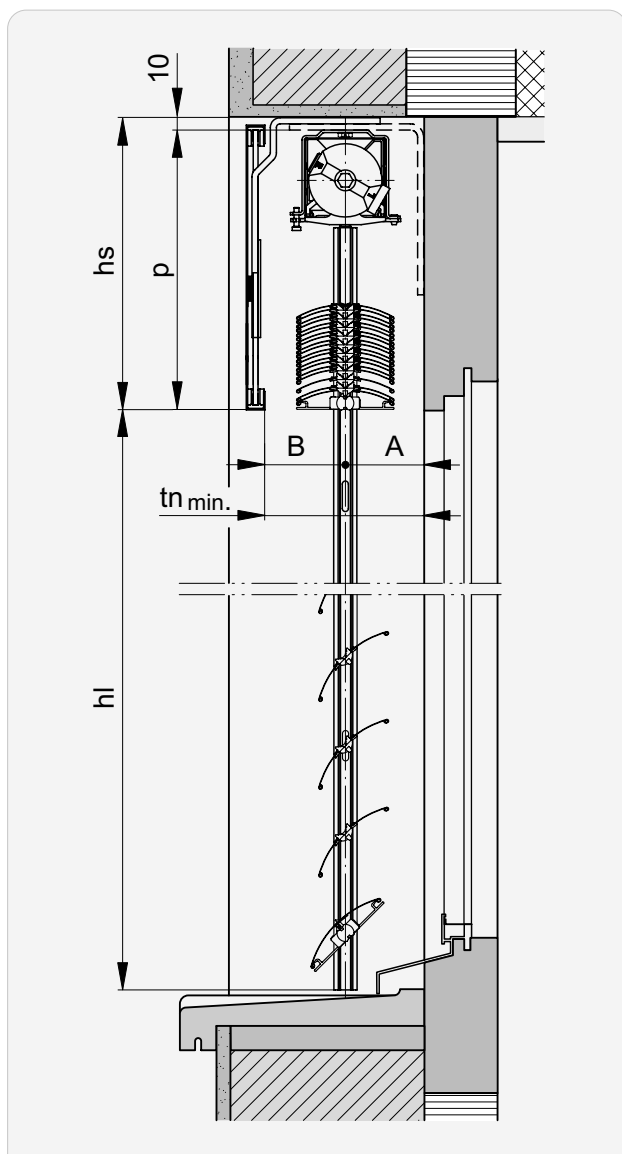


Horizontal section: Cable guide

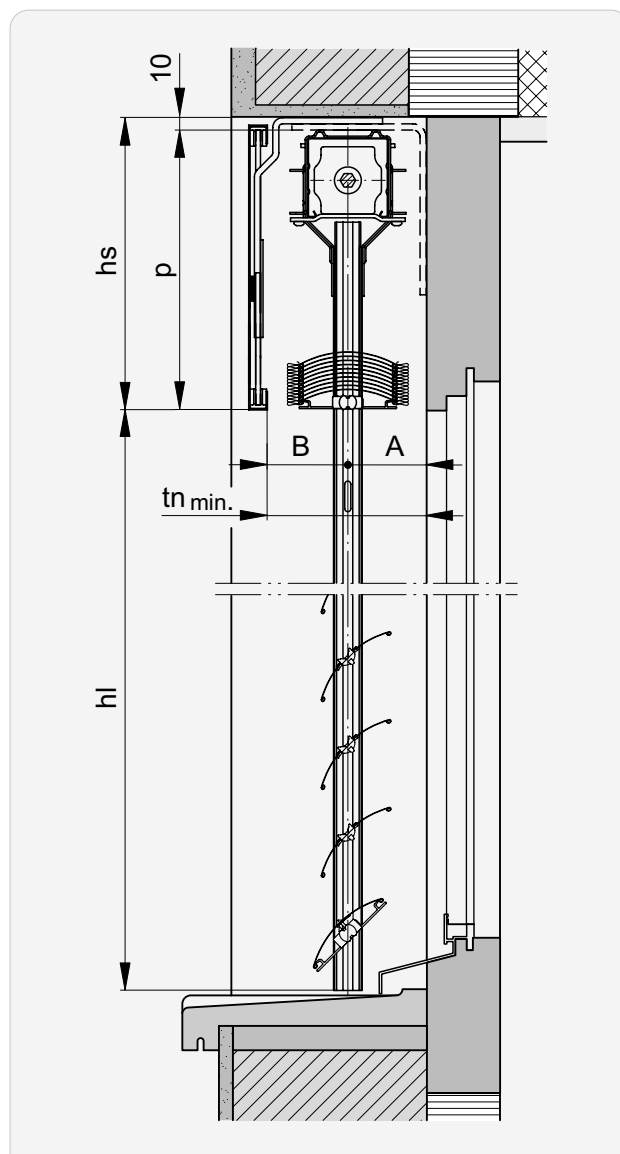


## Built-in system with cover

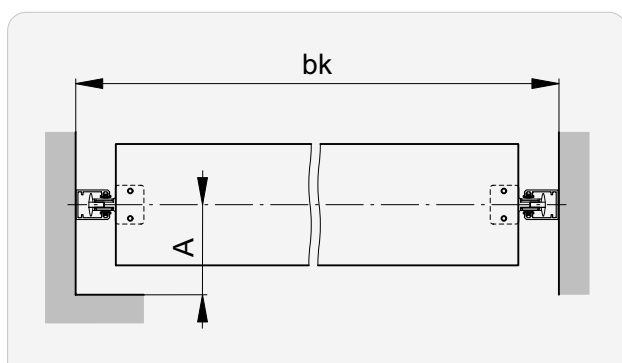
Vertical section: Guide rail conventional



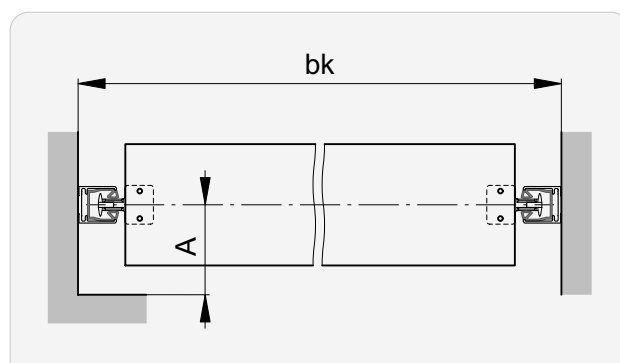
Vertical section: Guide rail Fix-L



Horizontal section: Guide rail conventional

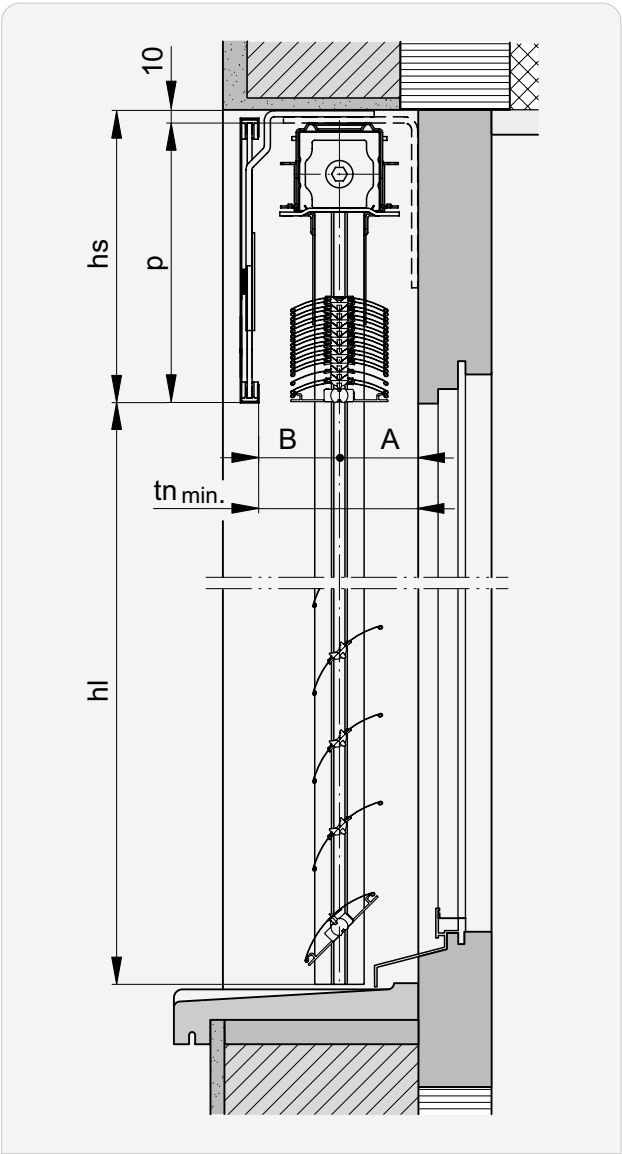


Horizontal section: Guide rail Fix-L

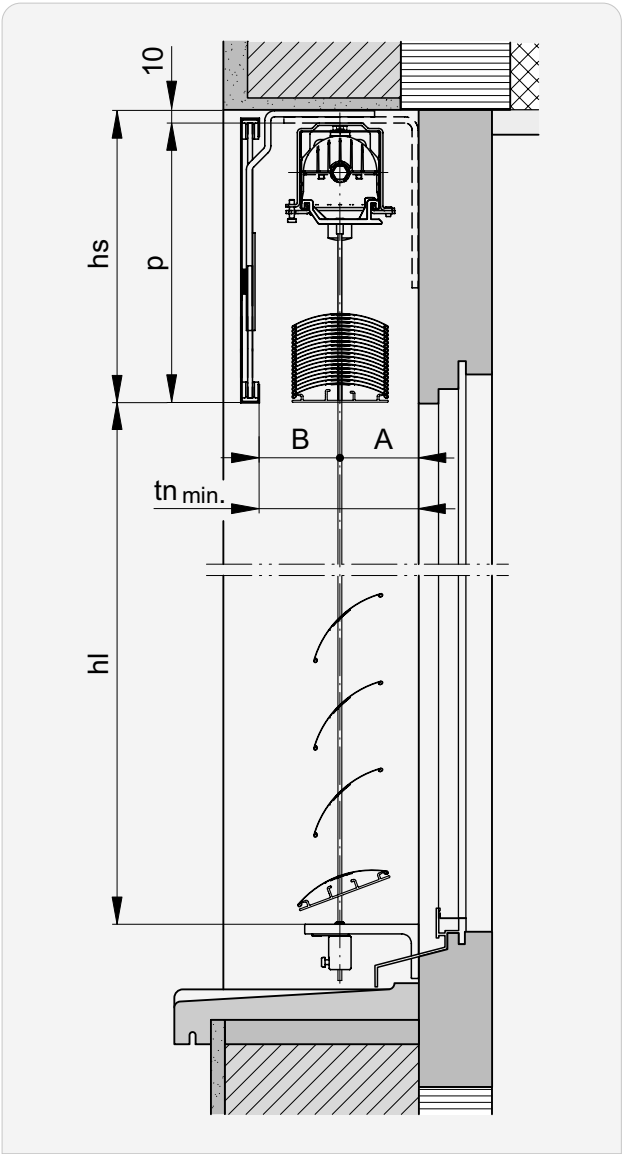


►► Built-in system with cover

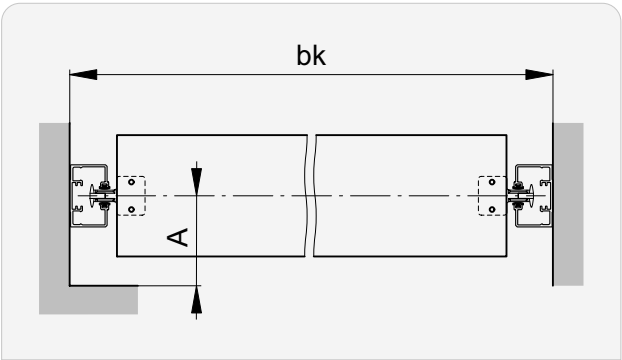
Vertical section: Guide rail Fix



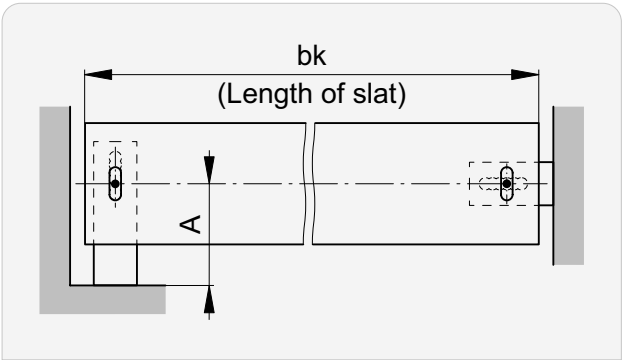
Vertical section: Cable guide



Horizontal section: Guide rail Fix

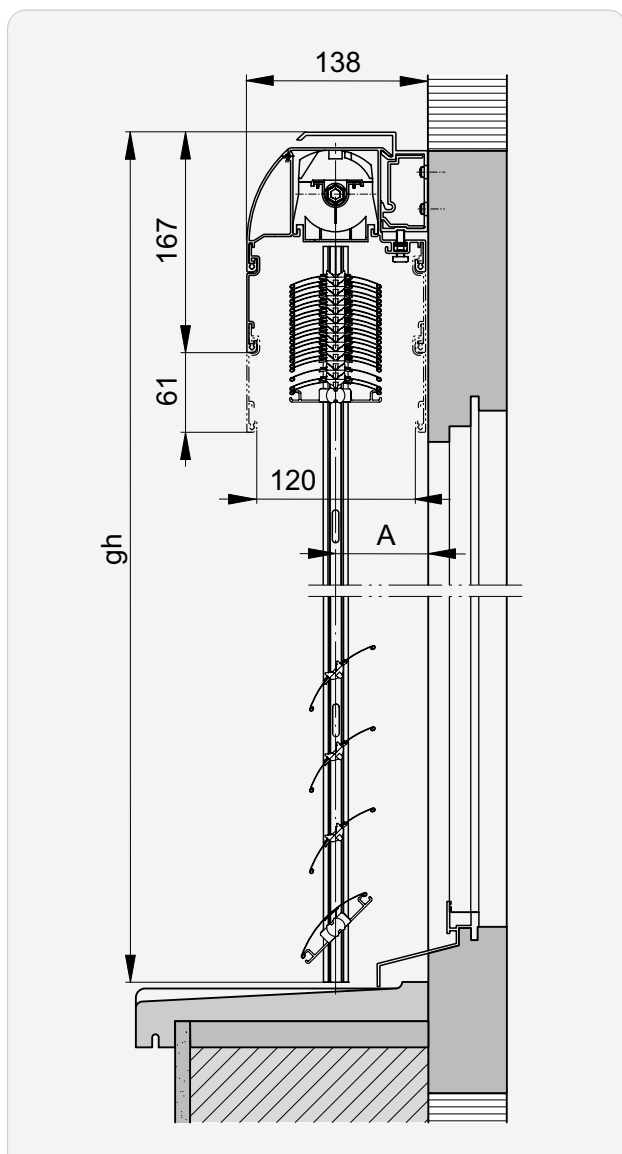


Horizontal section: Cable guide



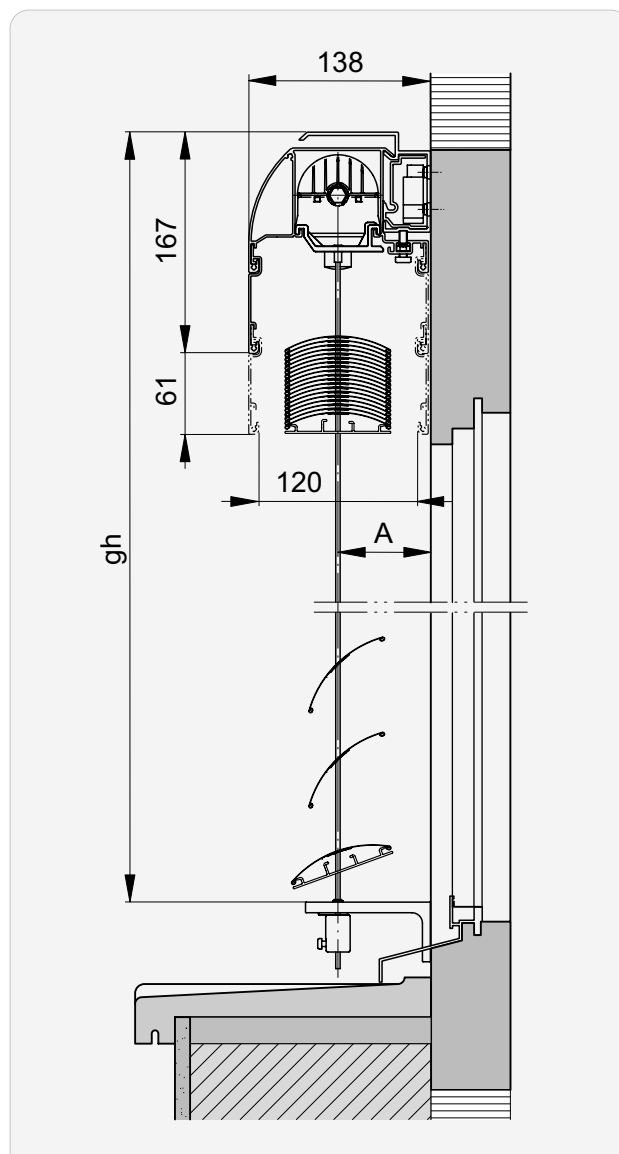
## Installation system with box

Vertical section: Guide rail conventional



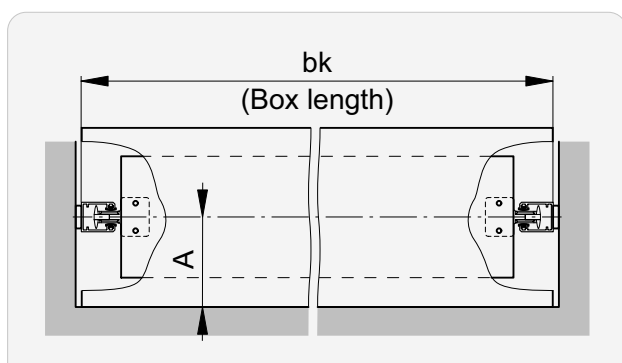
Box round | Slat package covered (standard)

Vertical section: Cable guide

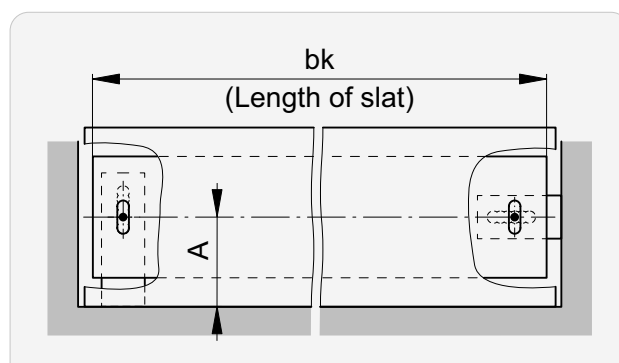


Box round | Slat package covered (standard)

Horizontal section: Guide rail conventional

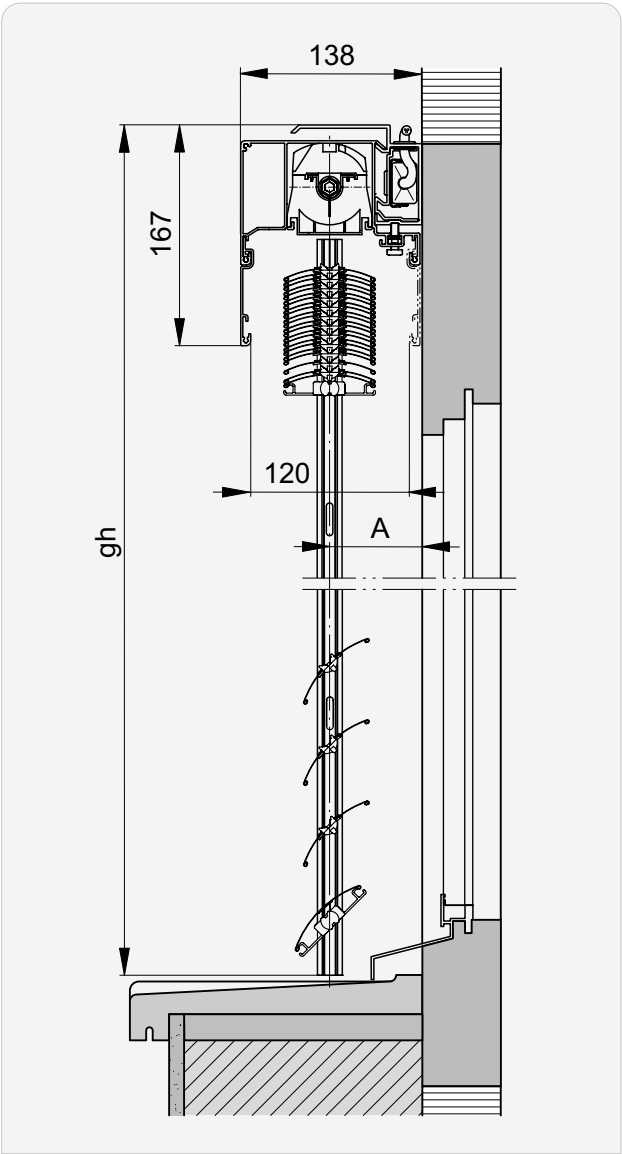


Horizontal section: Cable guide



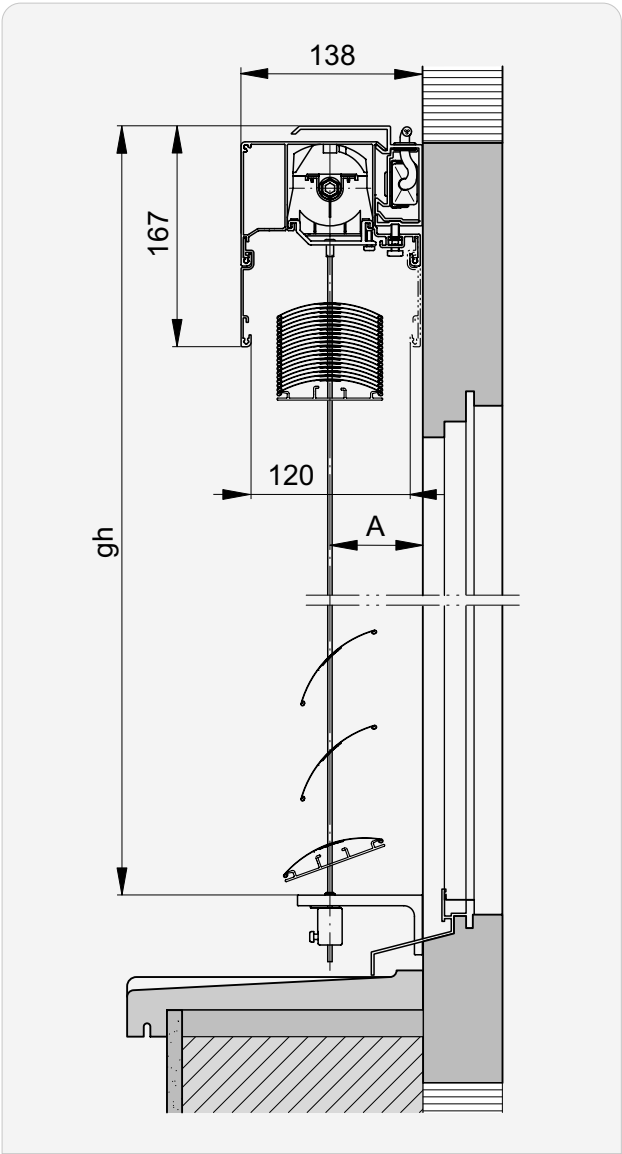
►► Installation system with box

Vertical section: Guide rail conventional



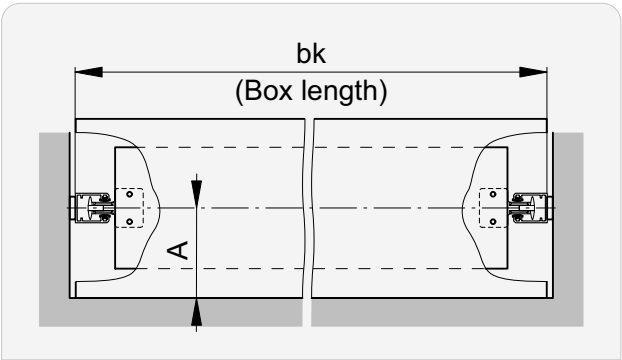
Box square | Slat package visible

Vertical section: Cable guide

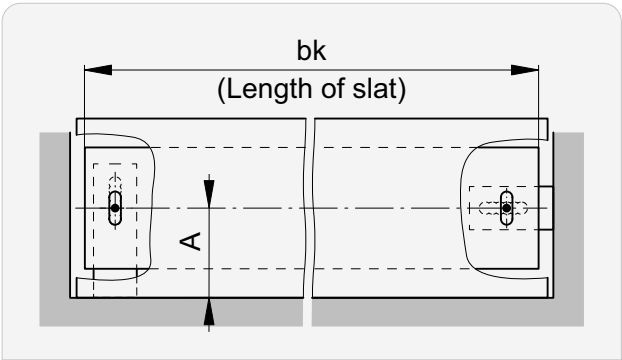


Box square | Slat package visible

Horizontal section: Guide rail conventional



Horizontal section: Cable guide



## Header dimensions | Heights of package

## Solomatic® II 70

| hl →l | P min. | hs <sup>1</sup> | hl →l | P min. | hs <sup>1</sup> | hl →l | P min. | hs <sup>1</sup> | hl →l | P min. | hs <sup>1</sup> |
|-------|--------|-----------------|-------|--------|-----------------|-------|--------|-----------------|-------|--------|-----------------|
| 1000  | 170    | 180             | 1900  | 230    | 240             | 2800  | 285    | 295             | 3700  | 345    | 355             |
| 1050  | 185    | 195             | 1950  | 230    | 240             | 2850  | 285    | 295             | 3750  | 345    | 355             |
| 1100  | 185    | 195             | 2000  | 230    | 240             | 2900  | 285    | 295             | 3800  | 345    | 355             |
| 1150  | 185    | 195             | 2050  | 245    | 255             | 2950  | 285    | 295             | 3850  | 345    | 355             |
| 1200  | 185    | 195             | 2100  | 245    | 255             | 3000  | 300    | 310             | 3900  | 345    | 355             |
| 1250  | 200    | 210             | 2150  | 245    | 255             | 3050  | 300    | 310             | 3950  | 345    | 355             |
| 1300  | 200    | 210             | 2200  | 245    | 255             | 3100  | 300    | 310             | 4000  | 360    | 370             |
| 1350  | 200    | 210             | 2250  | 260    | 270             | 3150  | 300    | 310             | 4050  | 360    | 370             |
| 1400  | 200    | 210             | 2300  | 260    | 270             | 3200  | 300    | 310             | 4100  | 360    | 370             |
| 1450  | 200    | 210             | 2350  | 260    | 270             | 3250  | 315    | 325             | 4150  | 360    | 370             |
| 1500  | 200    | 210             | 2400  | 260    | 270             | 3300  | 315    | 325             | 4200  | 360    | 370             |
| 1550  | 215    | 225             | 2450  | 260    | 270             | 3350  | 315    | 325             | 4250  | 375    | 385             |
| 1600  | 215    | 225             | 2500  | 260    | 270             | 3400  | 315    | 325             | 4300  | 375    | 385             |
| 1650  | 215    | 225             | 2550  | 275    | 285             | 3450  | 315    | 325             | 4350  | 375    | 385             |
| 1700  | 215    | 225             | 2600  | 275    | 285             | 3500  | 330    | 340             | 4400  | 375    | 385             |
| 1750  | 230    | 240             | 2650  | 275    | 285             | 3550  | 330    | 340             | 4450  | 380    | 390             |
| 1800  | 230    | 240             | 2700  | 275    | 285             | 3600  | 330    | 340             | 4500  | 380    | 390             |
| 1850  | 230    | 240             | 2750  | 285    | 295             | 3650  | 330    | 340             |       |        |                 |

| Version                   | tn min. | A  | B  |
|---------------------------|---------|----|----|
| Built-in system           | 100*    | 50 | 50 |
| Installation system (Box) |         | 70 |    |

<sup>1</sup> With gearbox in slot area: **hs + 20**.

Solomatic® II Reflect: **hs + 5**.

Solomatic® II Box: **hs + 7**.

\* + possible addition for protruding weatherboard or doorknobs.

Valid for installation of Solomatic® II conventional and Fix and also Solomatic® II with tensioning cable guide.



Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

## ►► Header dimensions | Heights of package

### Solomatic® II 80

| hl →l | P min. | hs <sup>1</sup> | hl →l | P min. | hs <sup>1</sup> | hl →l | P min. | hs <sup>1</sup> | hl →l | P min. | hs <sup>1</sup> |
|-------|--------|-----------------|-------|--------|-----------------|-------|--------|-----------------|-------|--------|-----------------|
| 1000  | 175    | 185             | 1900  | 220    | 230             | 2800  | 270    | 280             | 3700  | 305    | 315             |
| 1050  | 185    | 195             | 1950  | 220    | 230             | 2850  | 270    | 280             | 3750  | 315    | 325             |
| 1100  | 185    | 195             | 2000  | 220    | 230             | 2900  | 270    | 280             | 3800  | 315    | 325             |
| 1150  | 195    | 205             | 2050  | 230    | 240             | 2950  | 270    | 280             | 3850  | 315    | 325             |
| 1200  | 195    | 205             | 2100  | 230    | 240             | 3000  | 270    | 280             | 3900  | 315    | 325             |
| 1250  | 195    | 205             | 2150  | 230    | 240             | 3050  | 280    | 290             | 3950  | 315    | 325             |
| 1300  | 195    | 205             | 2200  | 230    | 240             | 3100  | 280    | 290             | 4000  | 315    | 325             |
| 1350  | 195    | 205             | 2250  | 245    | 255             | 3150  | 280    | 290             | 4050  | 325    | 335             |
| 1400  | 195    | 205             | 2300  | 245    | 255             | 3200  | 280    | 290             | 4100  | 325    | 335             |
| 1450  | 195    | 205             | 2350  | 245    | 255             | 3250  | 290    | 300             | 4150  | 325    | 335             |
| 1500  | 195    | 205             | 2400  | 245    | 255             | 3300  | 290    | 300             | 4200  | 325    | 335             |
| 1550  | 210    | 220             | 2450  | 245    | 255             | 3350  | 290    | 300             | 4250  | 340    | 350             |
| 1600  | 210    | 220             | 2500  | 245    | 255             | 3400  | 290    | 300             | 4300  | 340    | 350             |
| 1650  | 210    | 220             | 2550  | 255    | 265             | 3450  | 290    | 300             | 4350  | 340    | 350             |
| 1700  | 210    | 220             | 2600  | 255    | 265             | 3500  | 290    | 300             | 4400  | 340    | 350             |
| 1750  | 220    | 230             | 2650  | 255    | 265             | 3550  | 305    | 315             | 4450  | 340    | 350             |
| 1800  | 220    | 230             | 2700  | 255    | 265             | 3600  | 305    | 315             | 4500  | 340    | 350             |
| 1850  | 220    | 230             | 2750  | 270    | 280             | 3650  | 305    | 315             |       |        |                 |

| Version                   | tn min. | A  | B  |
|---------------------------|---------|----|----|
| Built-in system           | 120*    | 60 | 60 |
| Installation system (Box) |         | 70 |    |

<sup>1</sup> With gearbox in slot area: **hs + 20**.

Solomatic® II Reflect: **hs + 5**.

Solomatic® II Box: **hs + 7**.

\* + possible addition for protruding weatherboard or doorknobs.

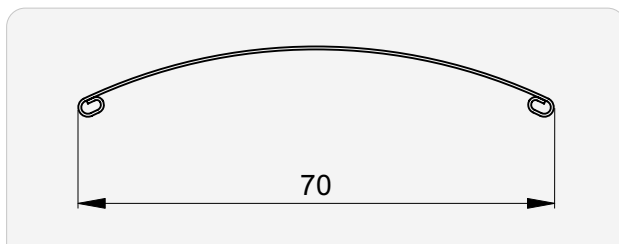
Valid for installation of Solomatic® II conventional and Fix and also Solomatic® II with tensioning cable guide.



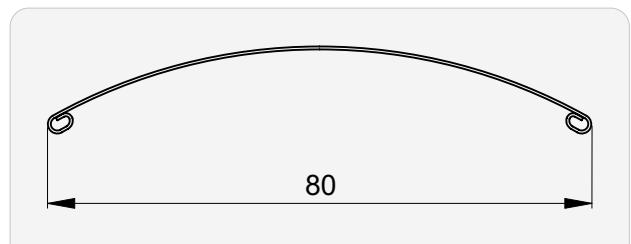
Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5mm** is observed for the header height.

## Slat profiles

Solomatic® II 70

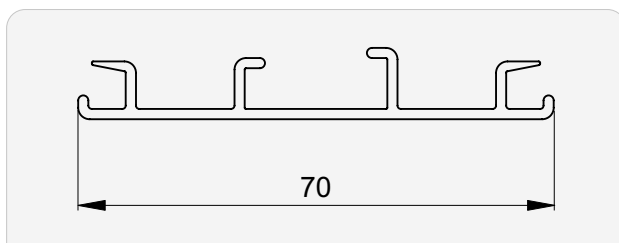


Solomatic® II 80

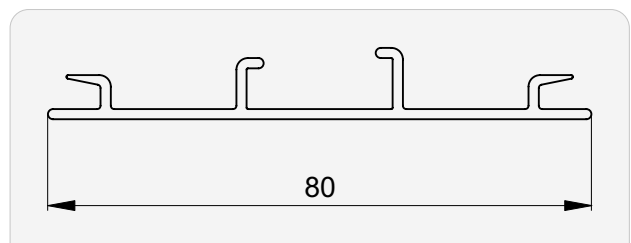


## End rails

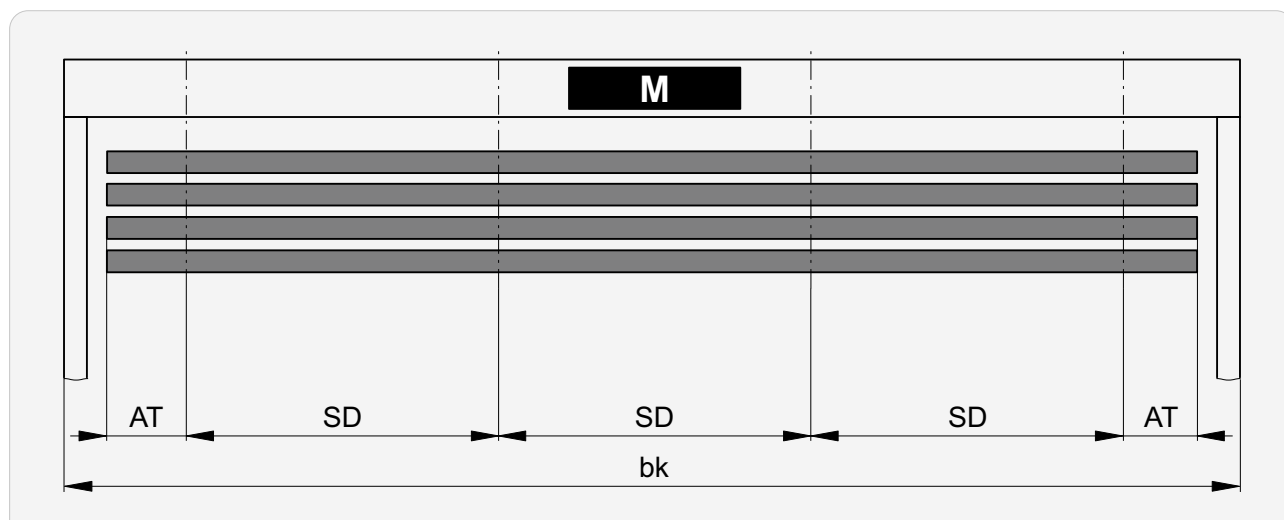
Solomatic® II 70



Solomatic® II 80



## Beginning distance | Slot spacing



| bk         | AT min.       |     | SD min. | SD max. |
|------------|---------------|-----|---------|---------|
| ≤ 610      | Conventional  | 50  | 250*    | 1000*   |
|            | Fix           | 60  |         |         |
|            | Fix connected | 80  |         |         |
|            | Cable         | 67  |         |         |
| 611...1250 | Conventional  |     | 250*    | 1000*   |
|            | Fix           | 100 |         |         |
|            | Fix connected |     |         |         |
| 611...1230 | Cable         | 117 |         |         |
| > 1250     | Conventional  |     |         |         |
|            | Fix           | 200 |         |         |
|            | Fix connected |     |         |         |
| > 1230     | Cable         | 217 |         |         |

\* Standard slot spacing machine fabrication

Deviations from the standard are possible when:

| Deviation                | Correction |
|--------------------------|------------|
| MBMA+ < 40               | AT         |
| Support loading too high | AS         |
| Slot spacing < 250       | AT + AS    |
| With motor               | AT + AS    |

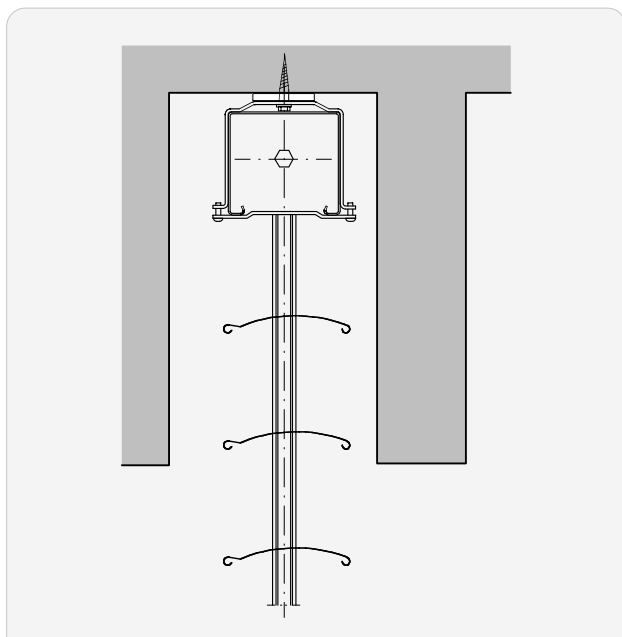
**AT** Beginning distance  
Distance from beginning of slot to centre of bearing

**SD** Slot spacing  
Distance from centre of bearing (slot) to centre of bearing (slot)

## Housing fastening

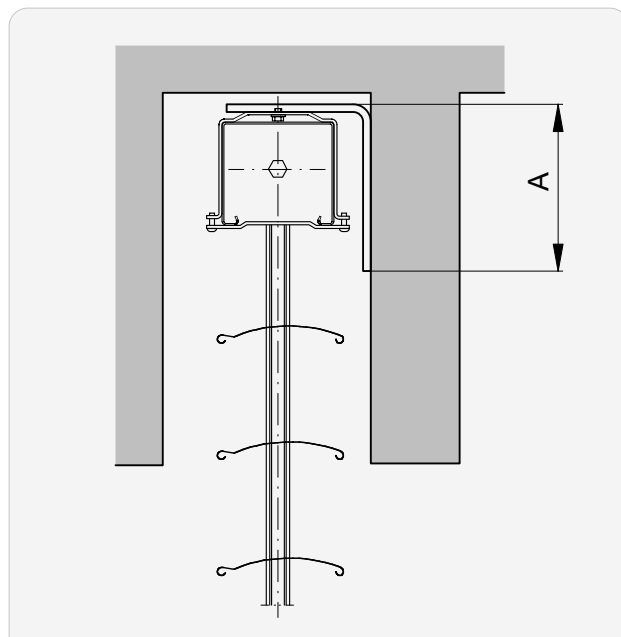
At top

NO

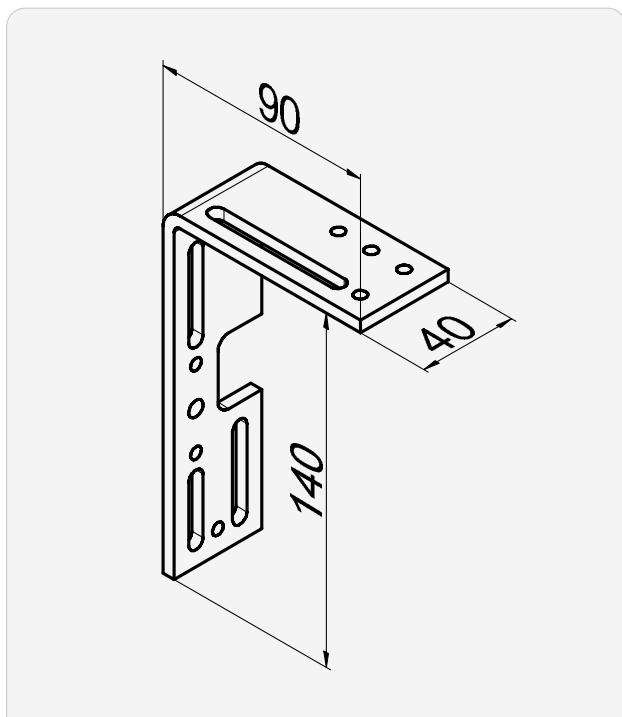


Box support

KT



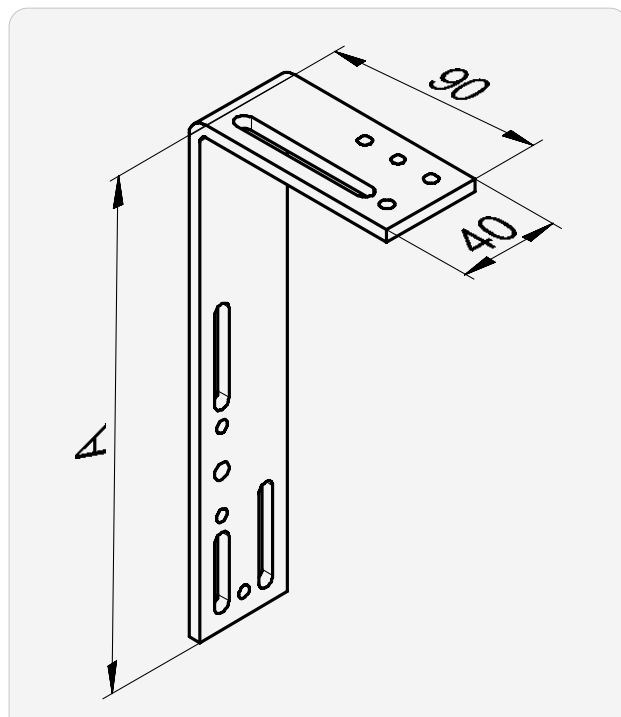
Box support for type KT, for small headers\*



A

140

Box support for type KT



A

200

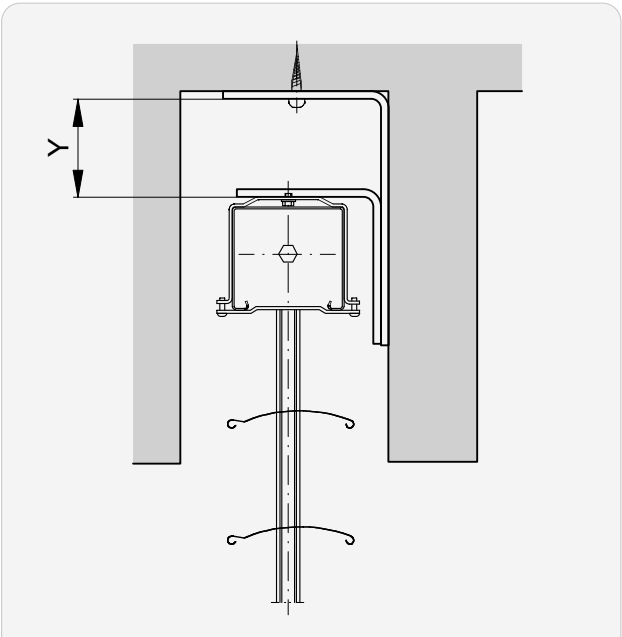
260

\* Header 100

►► Housing fastening

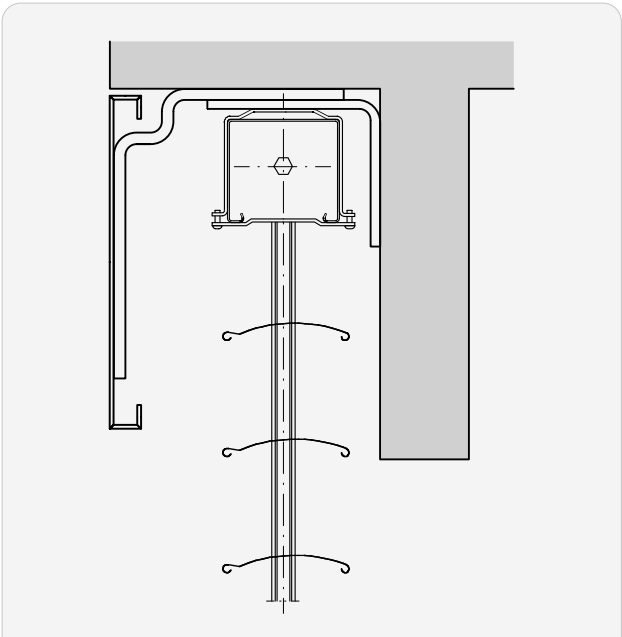
Double box support

DR

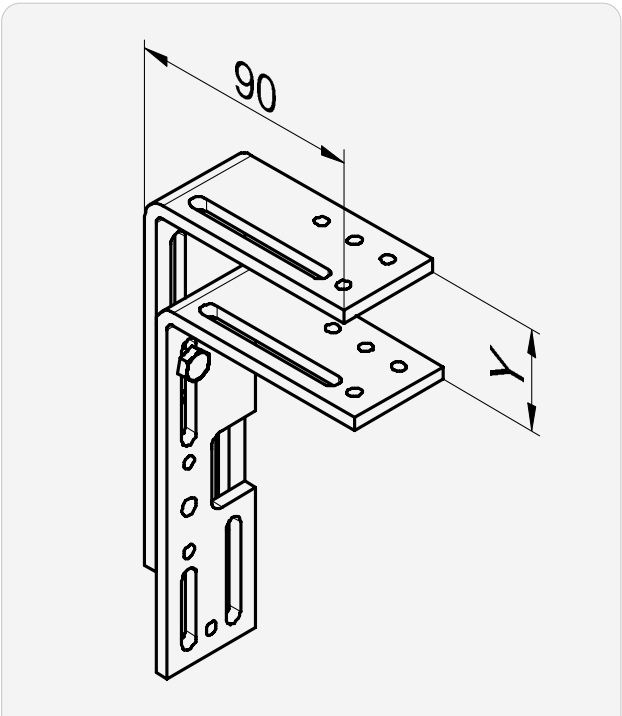


Gallery clip

GB



Double box support for type DR



Y

10 ... 75

75 ... 135

135 ... 200

Gallery clip for type GB



See additional documentation:  
**Short manual "Covers"**



↓ [Covers](#)



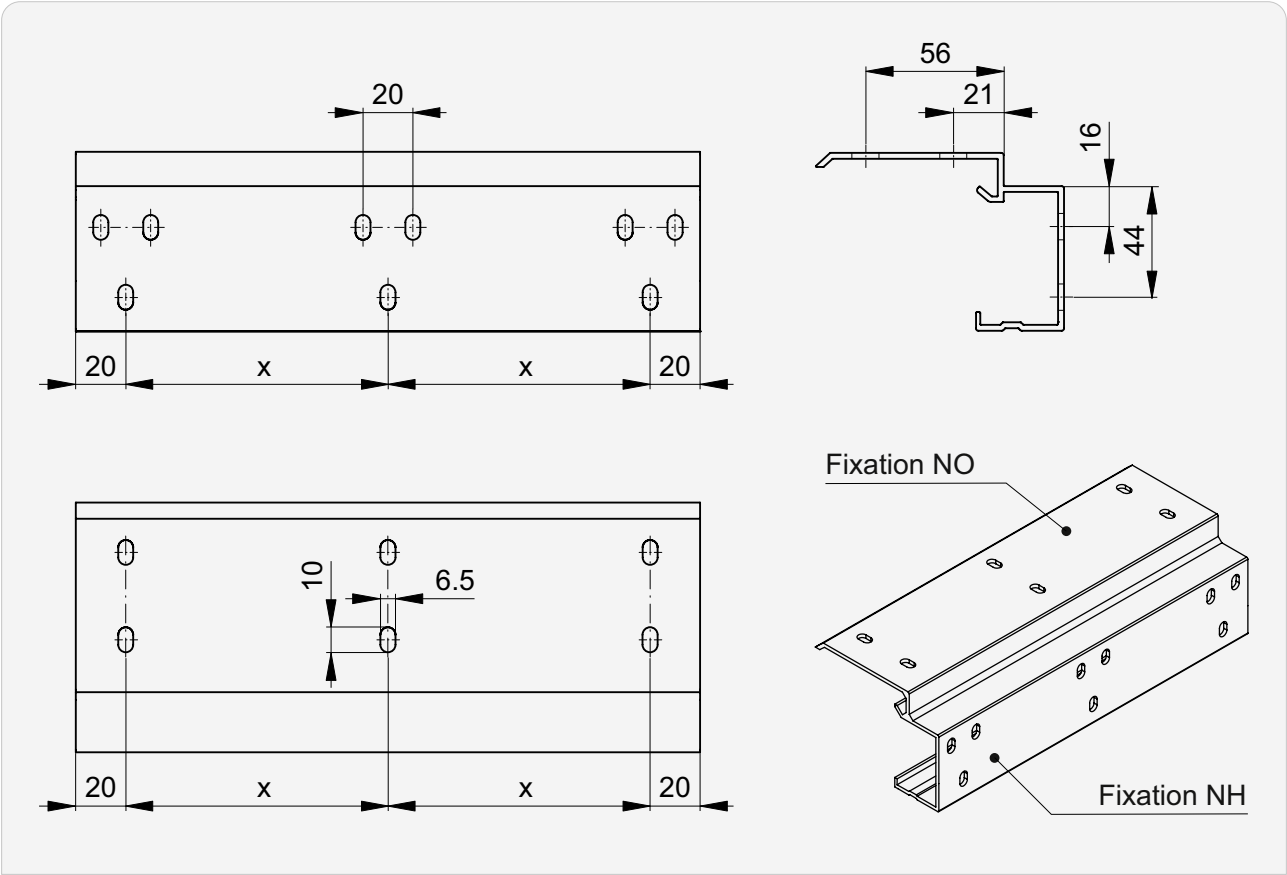
**Number of box supports****Conventional and cable guides**

| <b>bk</b>   | <b>Quantity</b> |
|-------------|-----------------|
| ≤2000       | 2               |
| 2001...3000 | 3               |
| 3001...4000 | 4               |
| >4000       | 5               |

**Fix guides | Additional fastenings**

| <b>bk</b>   | <b>Quantity</b> |
|-------------|-----------------|
| ≤2500       | 0               |
| 2501...3500 | 1               |
| >3500       | 2               |

Fixation for box base profile



Number of fixation points

| bk          | Number of fixation points |
|-------------|---------------------------|
| ≤2000       | 2                         |
| 2001...3000 | 3                         |
| 3001...4000 | 4                         |
| >4000       | 5                         |

## Technical data of motors

### Performance characteristics

| Type          |       | Limit switch |           | M    | n        | P   | I    |
|---------------|-------|--------------|-----------|------|----------|-----|------|
|               |       | Type         | Number of | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |       |              |           |      |          |     |      |
| Elero         |       |              |           |      |          |     |      |
| ES...         | 06.01 | mechanical   | 2         | 6    | 26       | 110 | 0.50 |
|               | 09.01 |              |           | 9    |          | 170 | 0.75 |
| EO...         | 20.01 |              |           | 20   |          | 190 | 1.05 |
| ES...         | 06.51 | mechanical   | 3         | 6    | 26       | 110 | 0.50 |
|               | 09.51 |              |           | 9    |          | 170 | 0.75 |
| EO...         | 20.51 |              |           | 20   |          | 190 | 1.05 |
| Option        |       |              |           |      |          |     |      |
| Somfy         |       |              |           |      |          |     |      |
| SH...         | 06.01 | mechanical   | 2         | 6    | 24       | 95  | 0.40 |
|               | 10.01 |              |           | 10   |          | 110 | 0.65 |
|               | 18.01 |              |           | 18   |          | 155 | 1.00 |
| SW...         | 06.01 | electronic   | 2         | 6    | 24       | 95  | 0.40 |
| SI...         | 10.01 |              |           | 10   |          | 110 | 0.65 |
| SR...         | 18.01 |              |           | 18   |          | 155 | 1.00 |
| Elero Comfort |       |              |           |      |          |     |      |
| ECM...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| ECB...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| Geiger AIR    |       |              |           |      |          |     |      |
| GA...         | 06.01 | electronic   | 2         | 6    | 26       | 93  | 0.40 |
|               | 06.10 |              |           | 10   |          | 135 | 0.60 |
|               | 06.20 |              |           | 20   |          | 190 | 0.85 |

**I** Current consumption

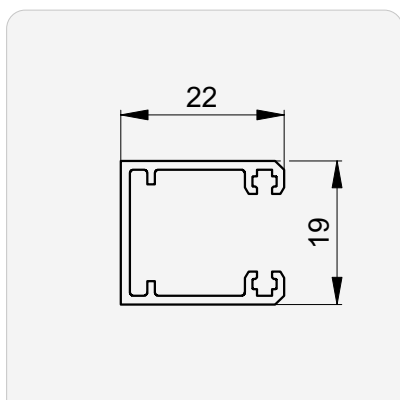
**M** Torque

**n** Rotational speed

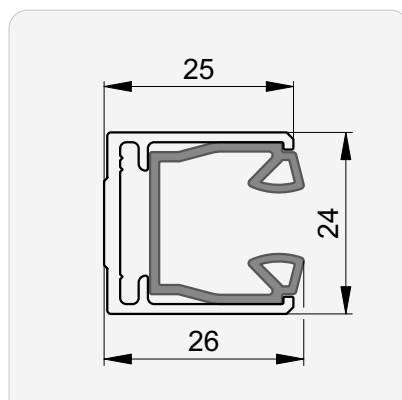
**P** Power consumption

## Guide rails

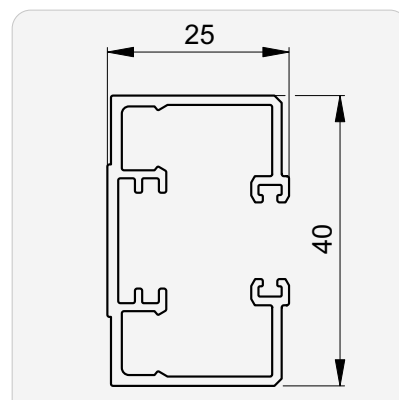
**Type E | Single guide**



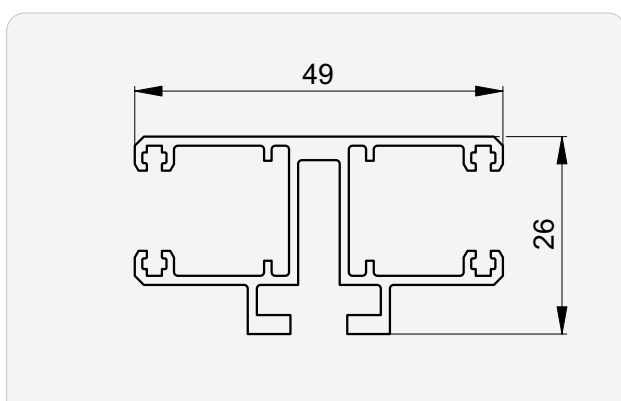
**Type L | Fix guide**



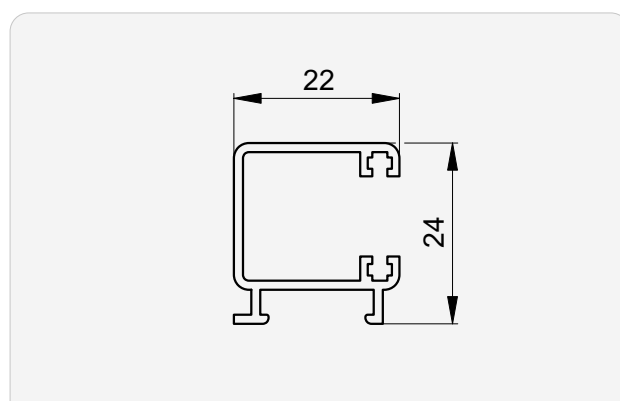
**Type F | Fix guide**



**Type D | Double guide**

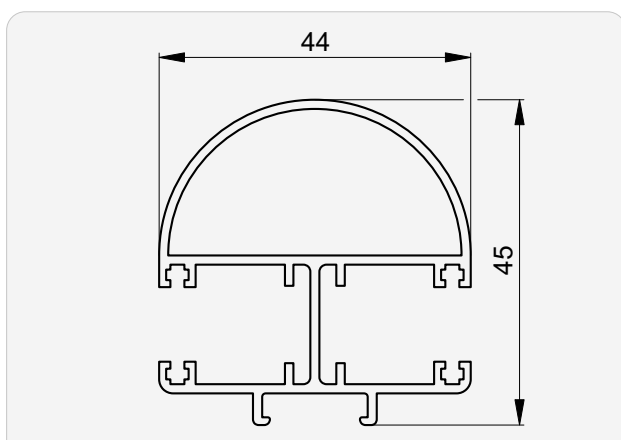


**Type C | Single guide**

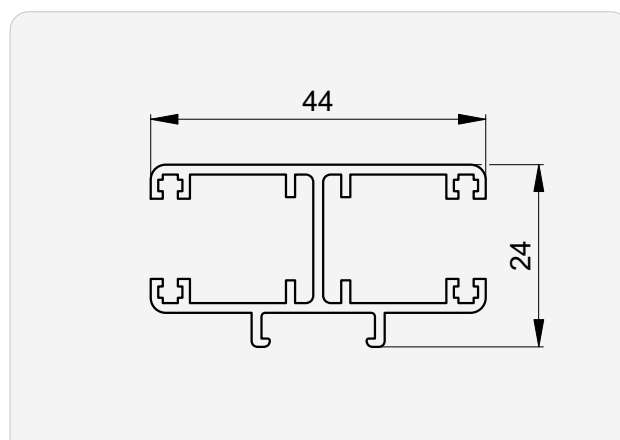


Special guide fastening required

**Type R | Curved double guide**



**Type T | Double guide**

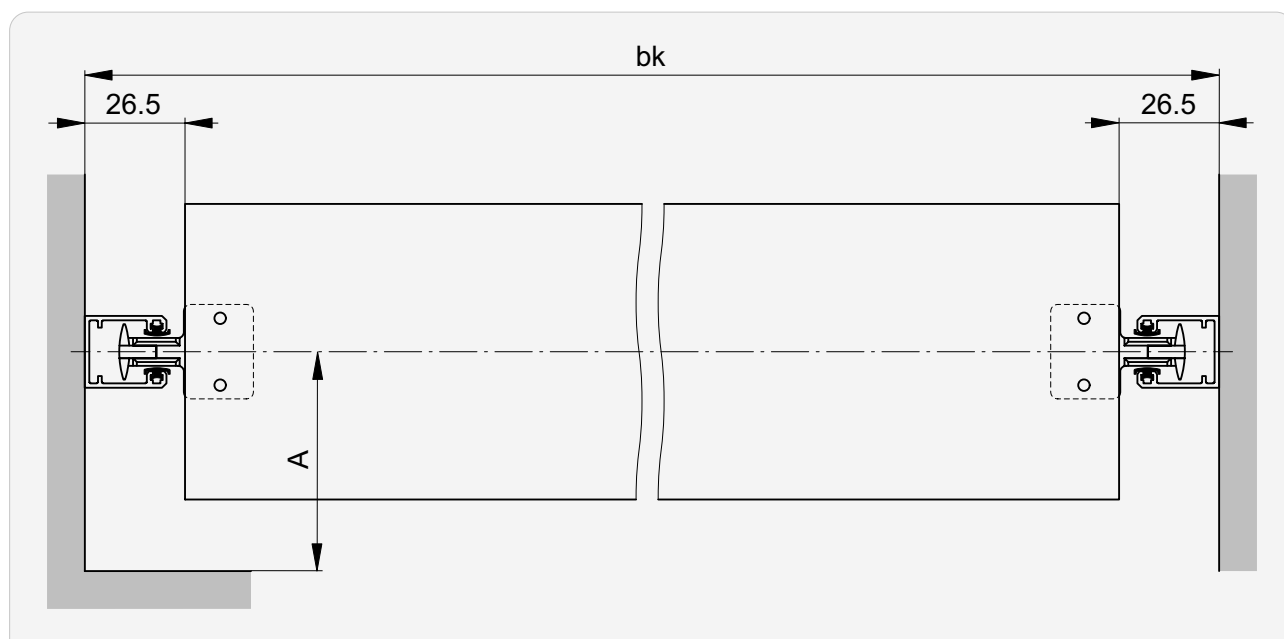


|                                           |            |
|-------------------------------------------|------------|
| ➤ Distance between guides <b>FD</b> ..... | <b>287</b> |
| ➤ Fastening points.....                   | <b>283</b> |
| ➤ Guide extension and facet .....         | <b>276</b> |
| ➤ Guide rail fastenings.....              | <b>268</b> |

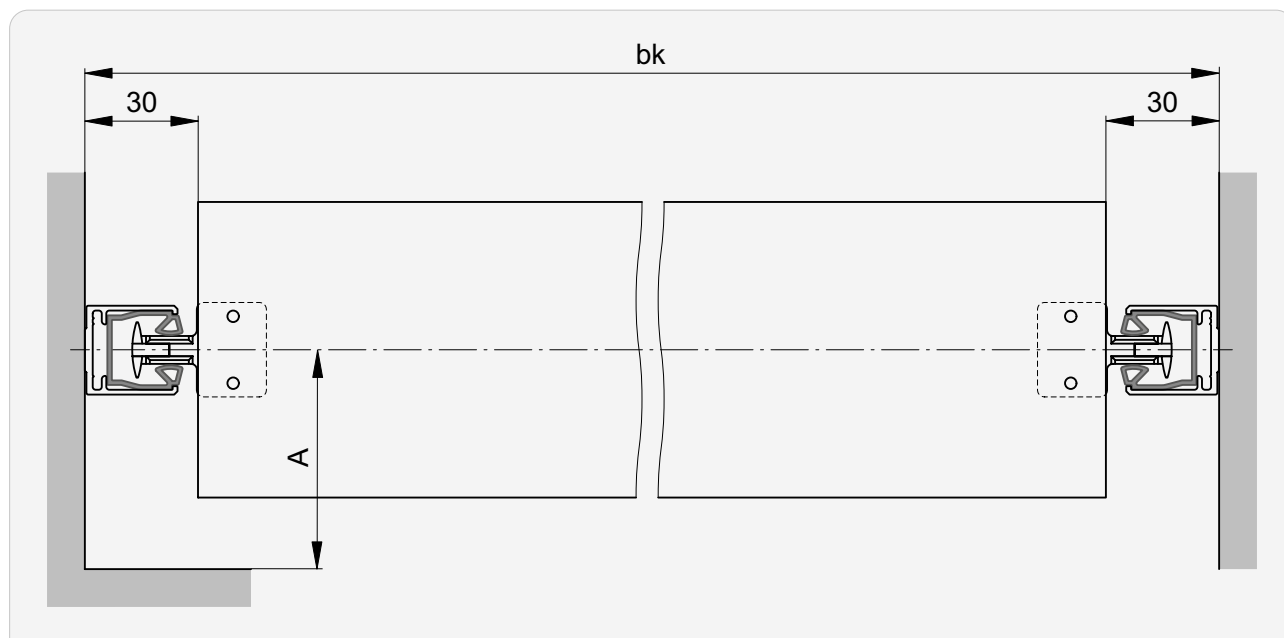
|                                                |            |
|------------------------------------------------|------------|
| ➤ Guide rail cut-outs in windowsill area ..... | <b>279</b> |
| ➤ Installation window .....                    | <b>282</b> |
| ➤ Integrated guides.....                       | <b>267</b> |

## Sections | Details

### Horizontal section: Guide rail conventional



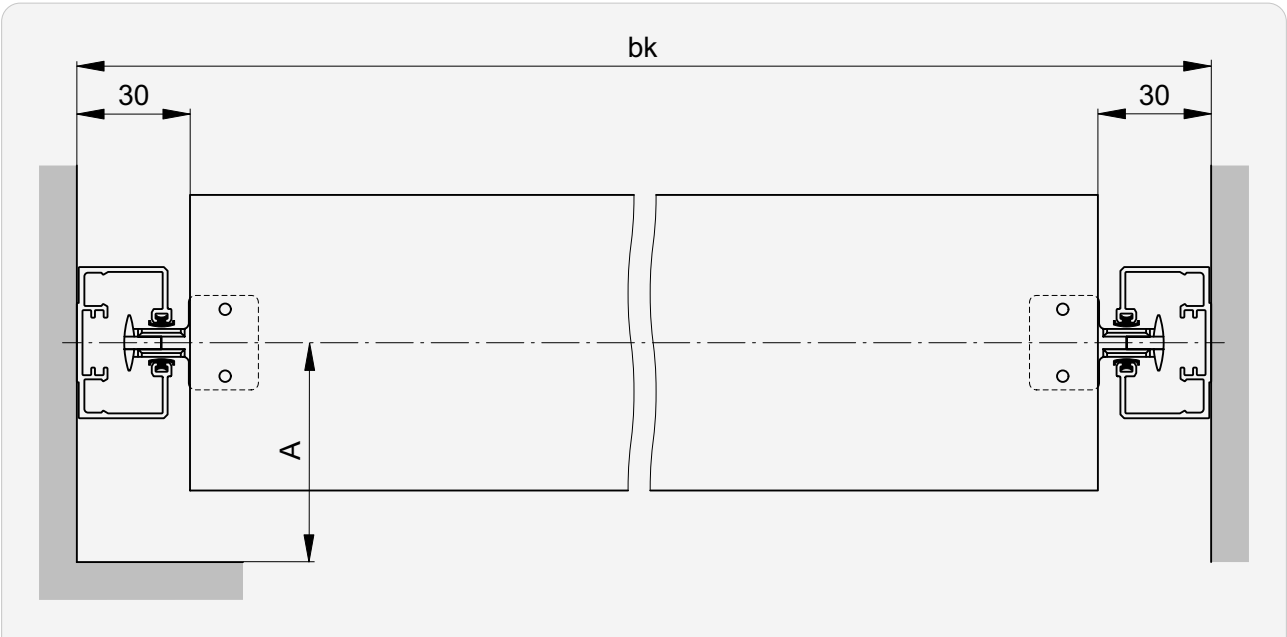
### Horizontal section: Guide rail Fix-L



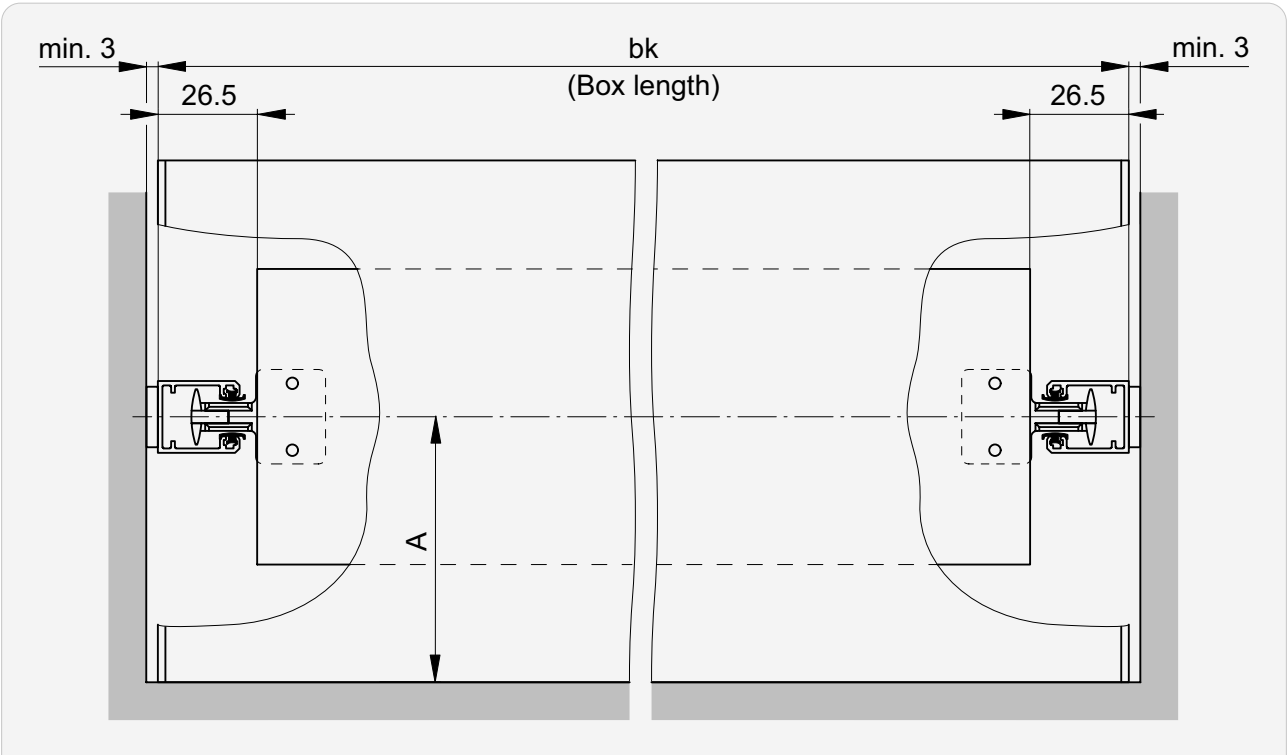
➡ Value for **A** ..... **247**

►► Sections | Details

Horizontal section: Guide rail Fix



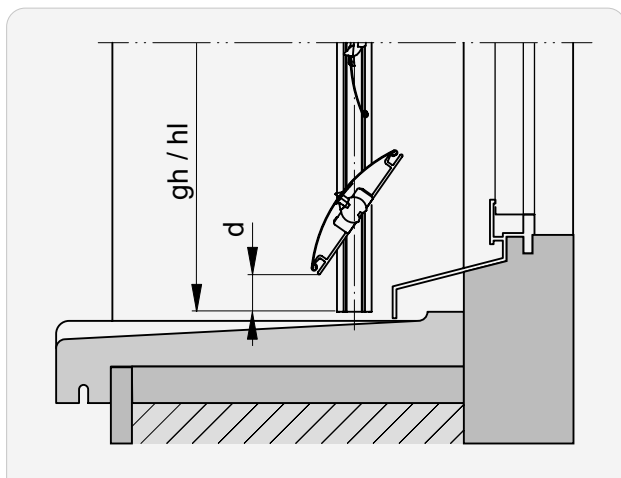
Horizontal section: Box



➡ Value for A.....247

## ►► Sections | Details

## Detail at bottom

**d (d - dimension)**

min. 10 +5/-3

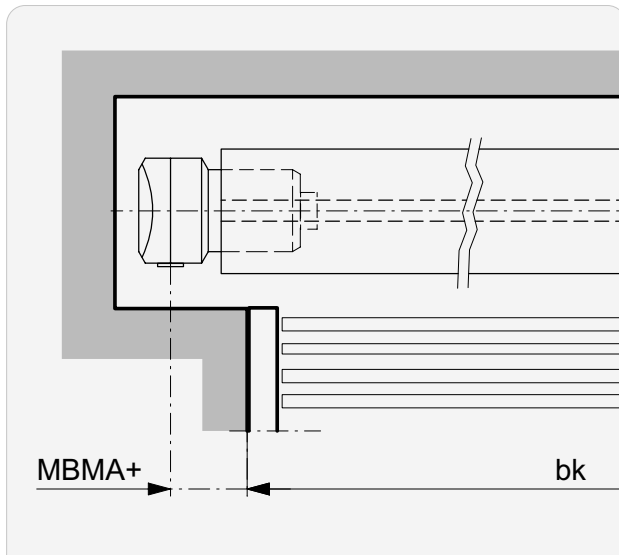


**d - dimension** may vary with different blind dimensions.

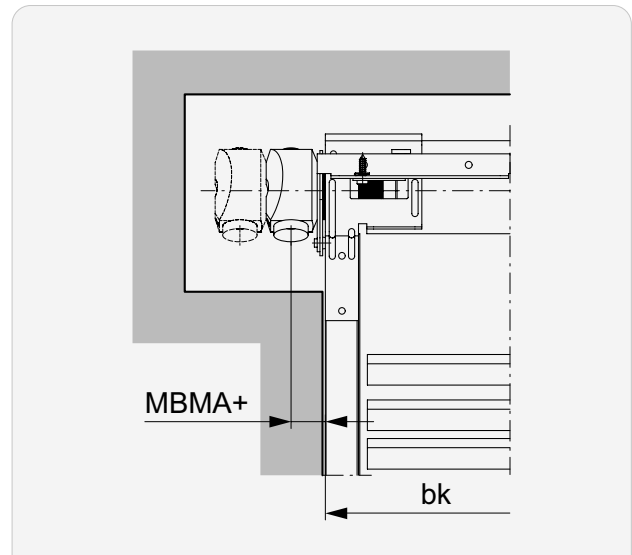
## Sections for crank drive (MBMA)

### outside bk

#### Conventional

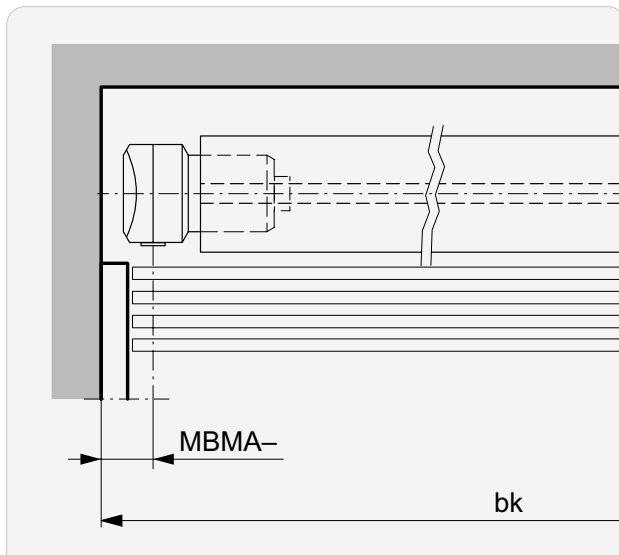


#### Self-supporting (Fix)

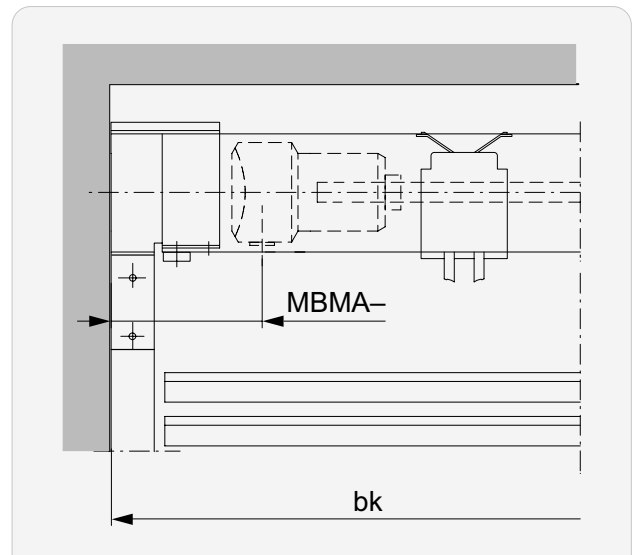


### within bk

#### Conventional



#### Self-supporting (Fix)



#### Version

Conventional

#### MBMA+

0 ... 999

#### MBMA-

0 ... (bk/2)\*

Self-supporting (Fix)

26 ... 125 (10 ... 25)<sup>1</sup>

90 ... (bk/2)

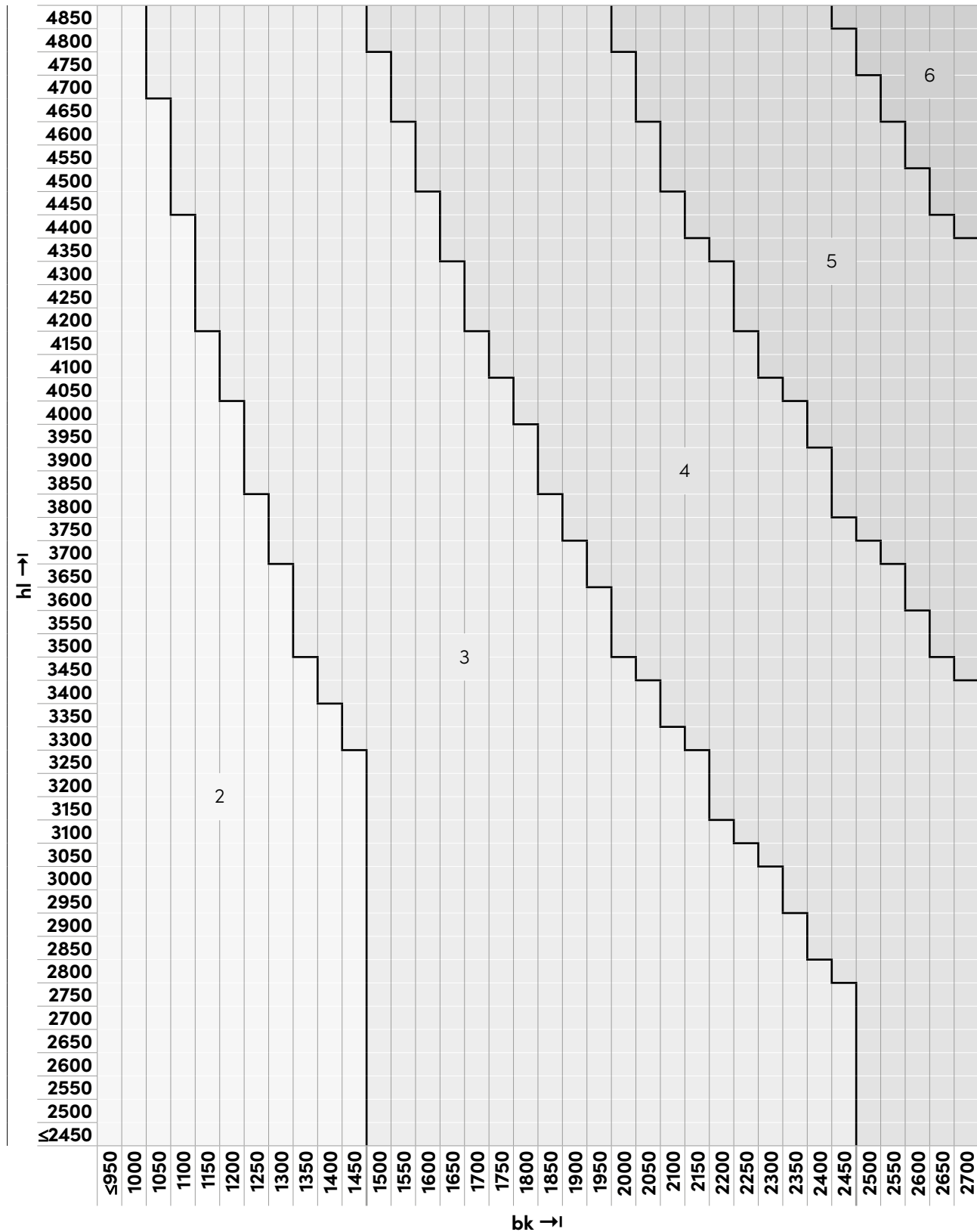
<sup>1</sup> for reverse mounted gearbox

\* ≤30: Gearbox niche required

## Vertical connections | Standard motor position

Number of bearings

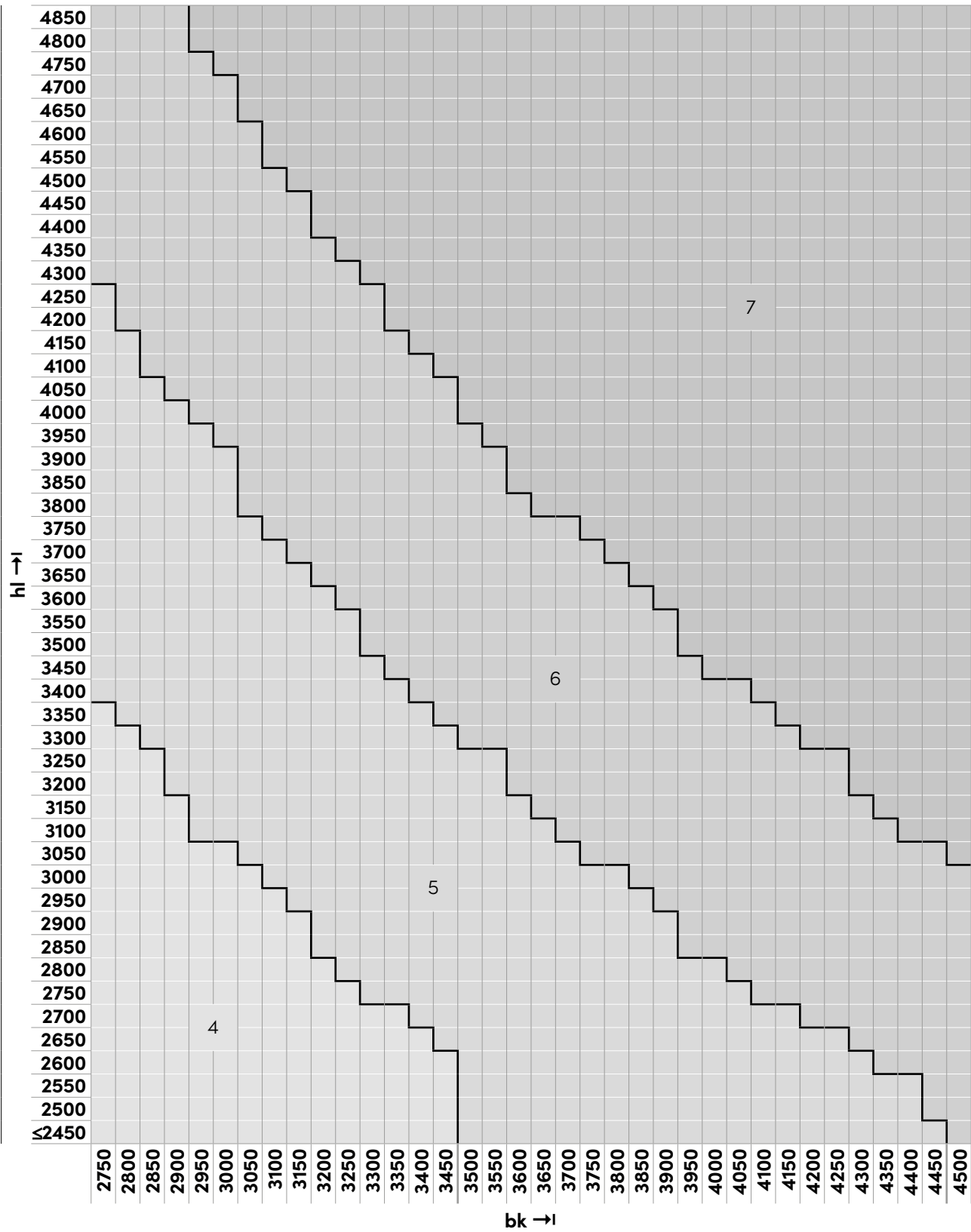
Solomatic® II 70



►► Vertical connections | Standard motor position

Number of bearings

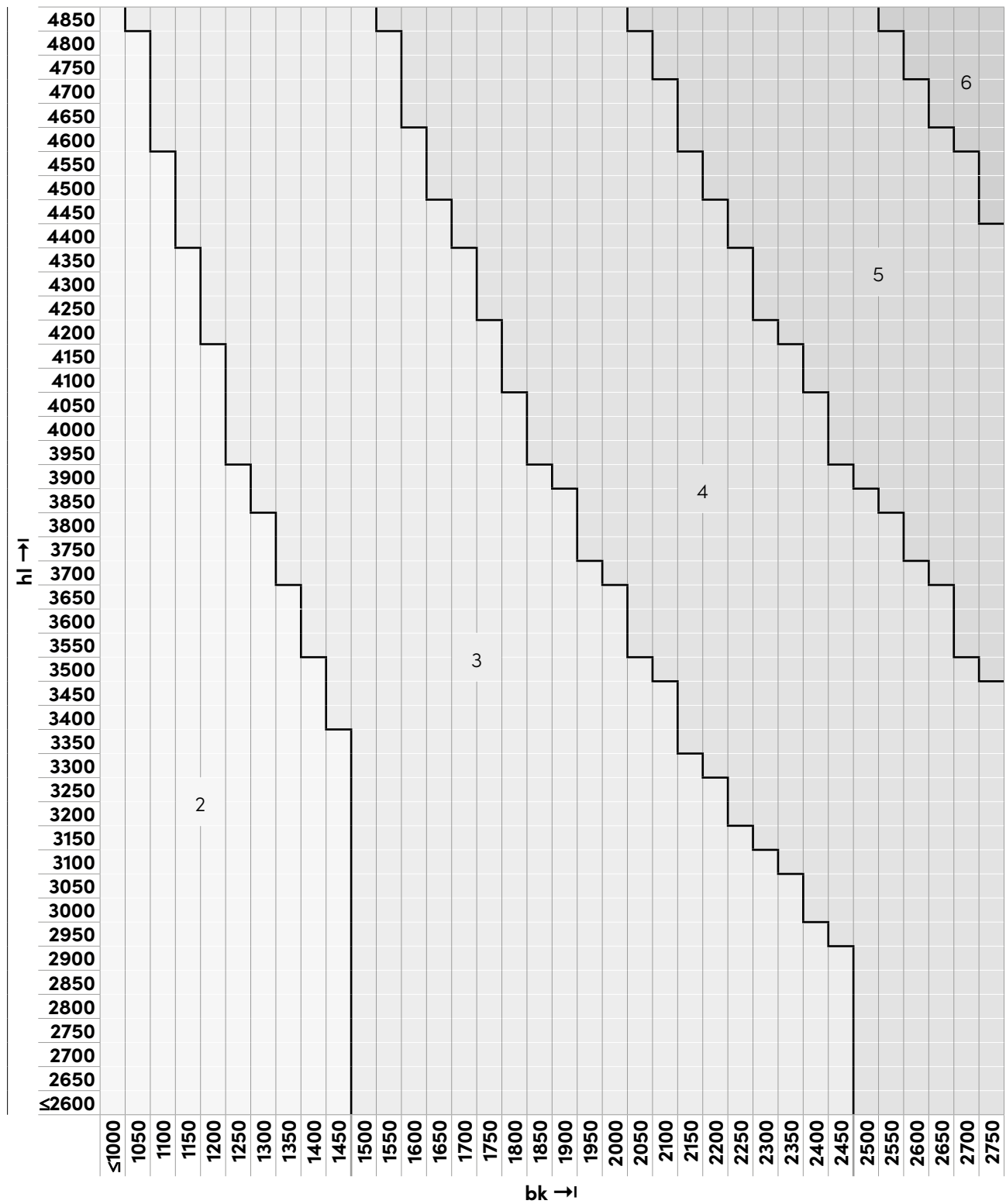
Solomatic® II 70



# ▶▶ Vertical connections | Standard motor position

Number of bearings

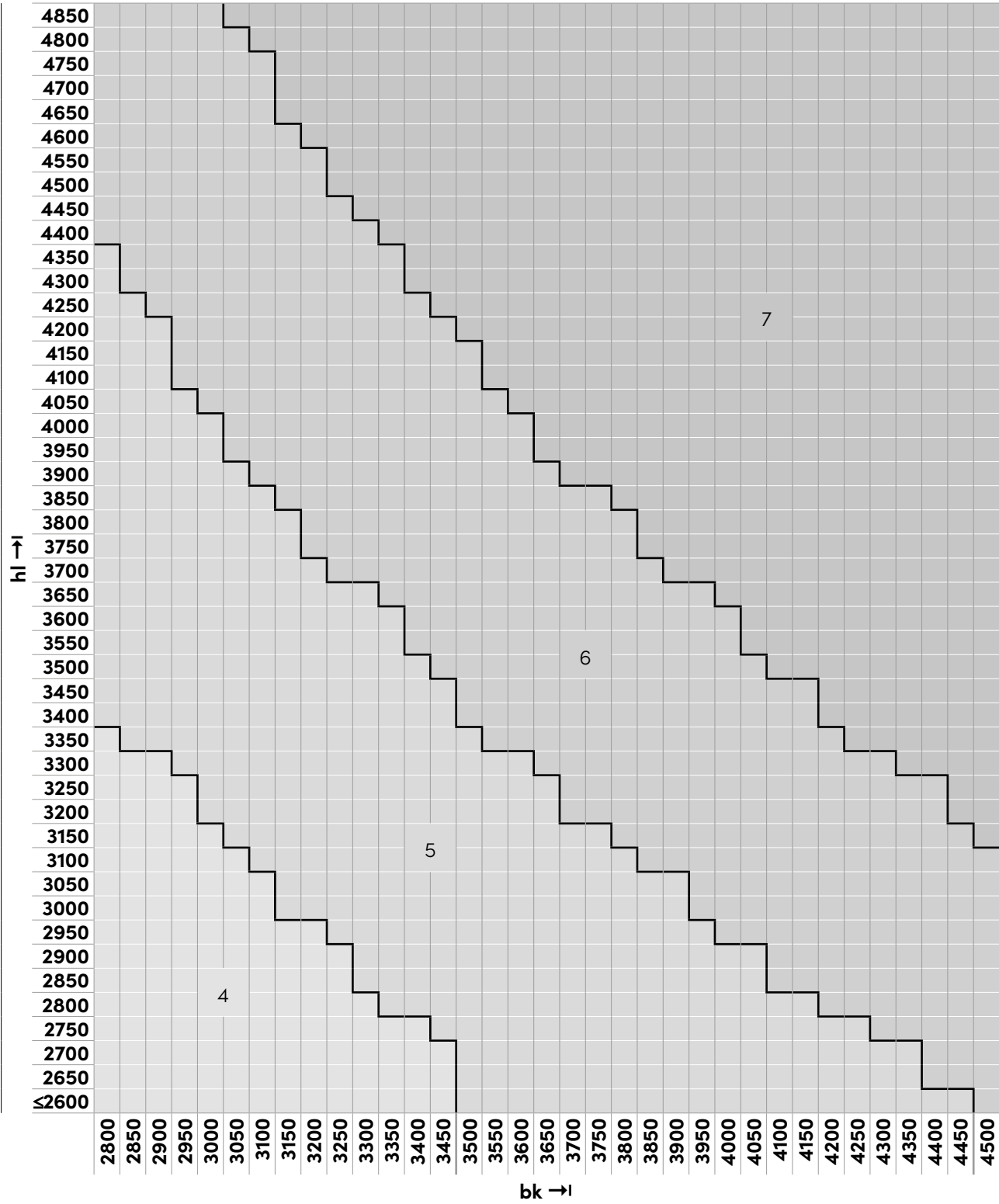
Solomatic® II 80



►► Vertical connections | Standard motor position

Number of bearings

Solomatic® II 80



## ▶▶ Vertical connections | Standard motor position

### Standard motor position

#### Number of bearings

#### Standard motor position

2



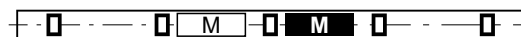
3



4



5



6



7



Bearing



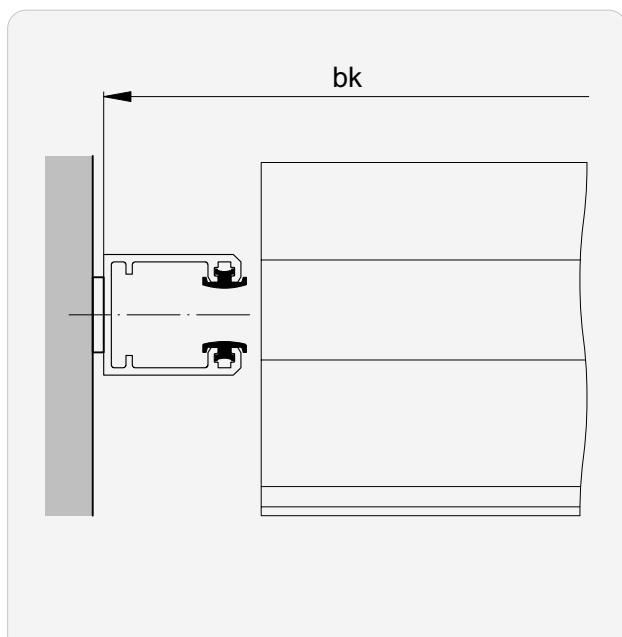
Standard motor position



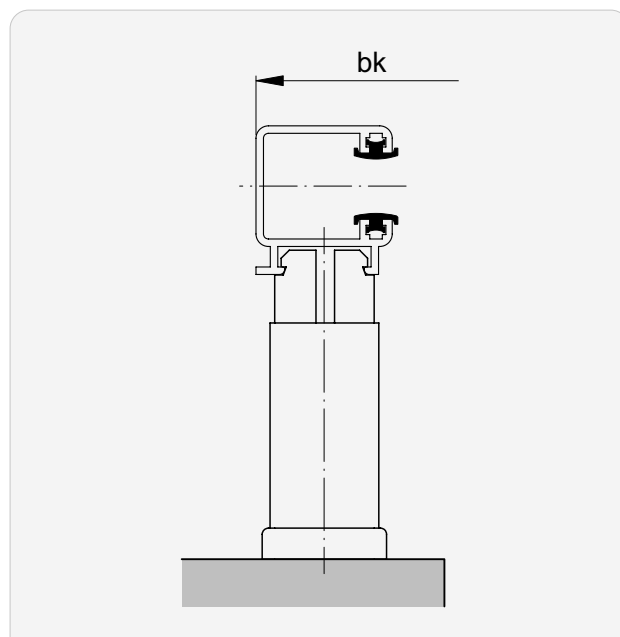
Possible motor position (on request)

## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



### Guides suspended



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

## ►► Guide rail installation (principle)

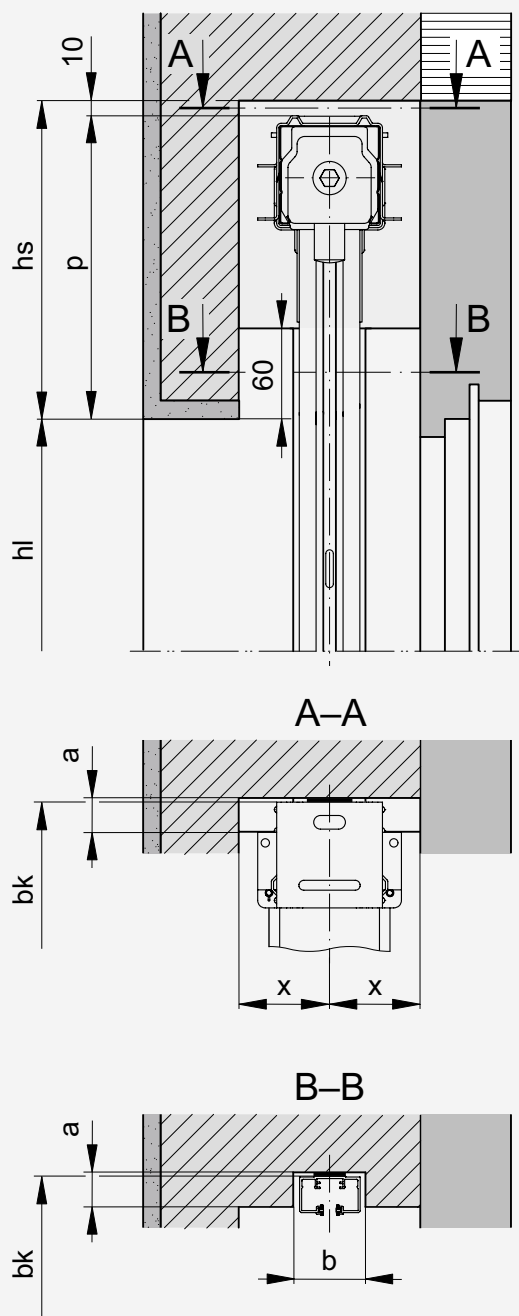
### Guides recessed



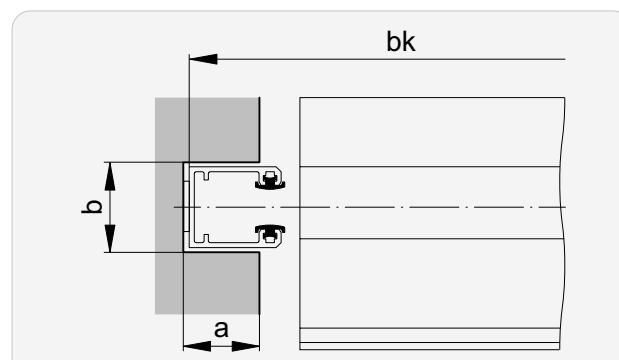
#### \*Type F | Without guide cut-out:

Only possible if curtain can be retracted from below.

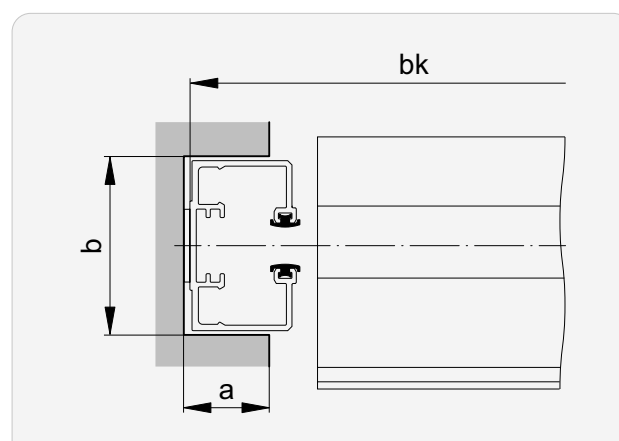
#### Type E | F\* | L



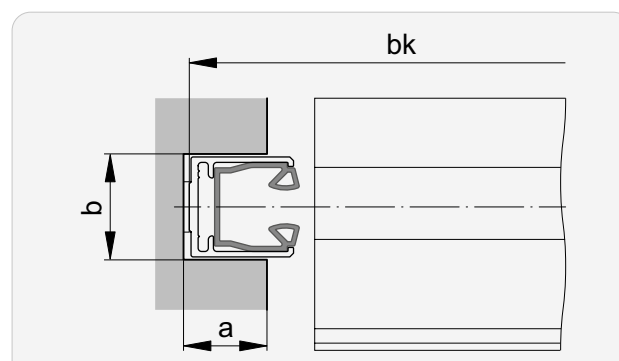
#### Type E



#### Type F\*



#### Type L



| Product   Version    | x min. |
|----------------------|--------|
| Solomatic® II 70 Fix | 50     |
| Solomatic® II 80 Fix | 60     |

| Type | a   | b   |
|------|-----|-----|
| E    | ≤18 | ≥21 |
| F*   | ≤20 | ≥42 |
| L    | ≤24 | ≥25 |

## Guide rail fastenings (principle)

### Overview

| Type |   |    |   |    |   |   |   |                |                |                |   |    |   |    |
|------|---|----|---|----|---|---|---|----------------|----------------|----------------|---|----|---|----|
| A    | B | Bd | C | Cd | E | F | G | H              | Kv             | M              | T | Tv | V | Wv |
| ●    | ● | ●  | ● | ●  | ● | ● | — | ○ <sup>1</sup> | ○ <sup>2</sup> | ○ <sup>3</sup> | ● | ●  | ● | ●  |

● applicable without restrictions

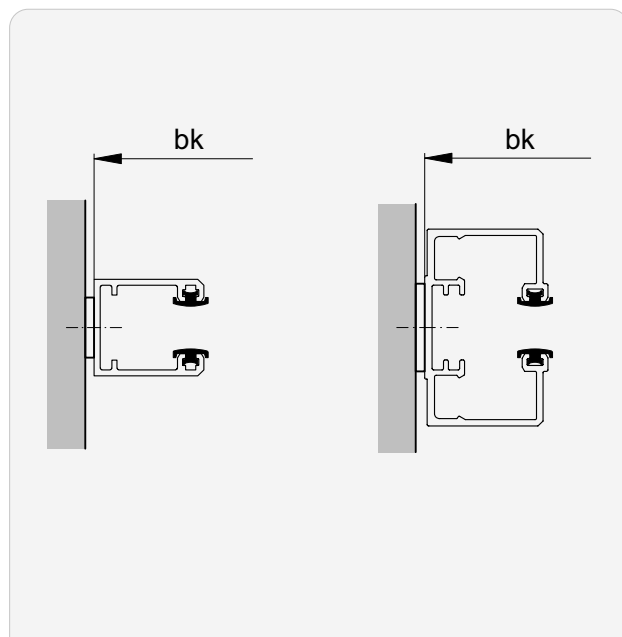
○ applicable with restrictions:

<sup>1</sup> only with guide **type D**

<sup>2</sup> only with guide **type C | T | R**

<sup>3</sup> only with guide **type E**

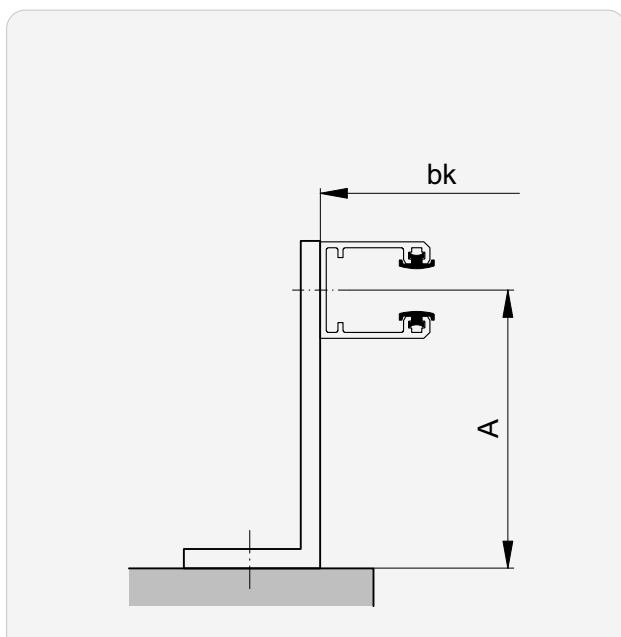
### A Soffit installation



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 2 mm**

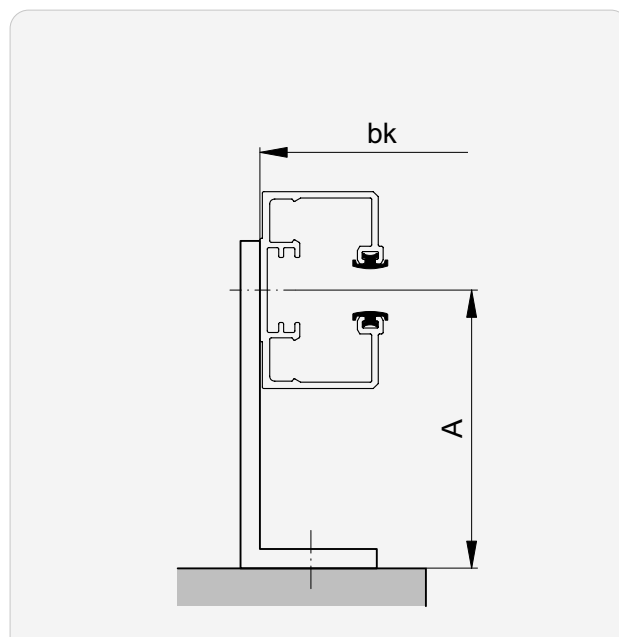
## ►► Guide rail fastenings (principle)

### B Installation with fastening bracket



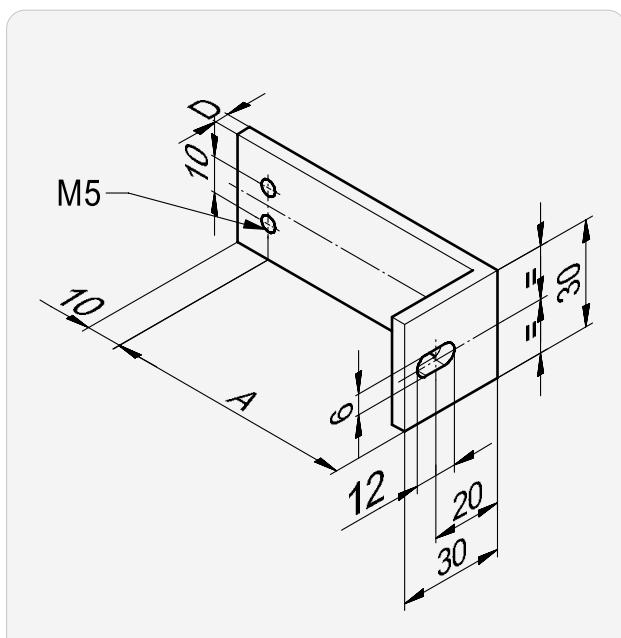
Bracket outwards

### C Installation with fastening bracket



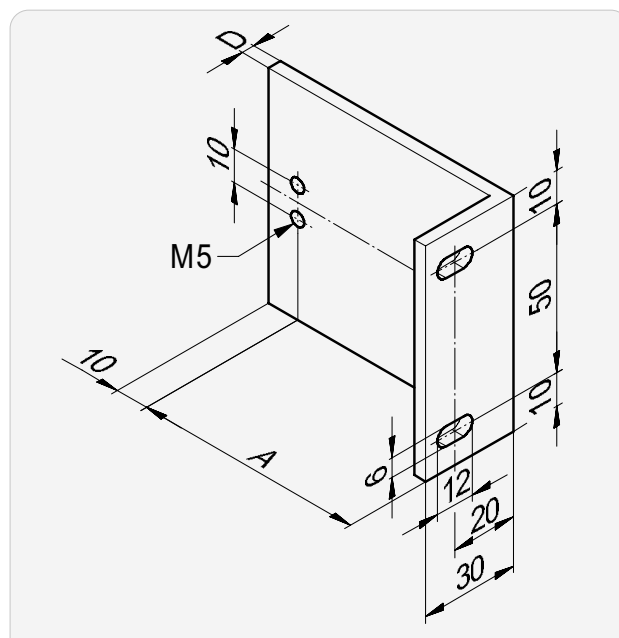
Bracket inwards

#### Fastening bracket for types B and C



| A*         | D |
|------------|---|
| 20 ... 115 | 4 |

#### Fastening bracket 70 mm for types B and C



| A*          | D |
|-------------|---|
| 20 ... 115  | 4 |
| 120 ... 215 | 5 |

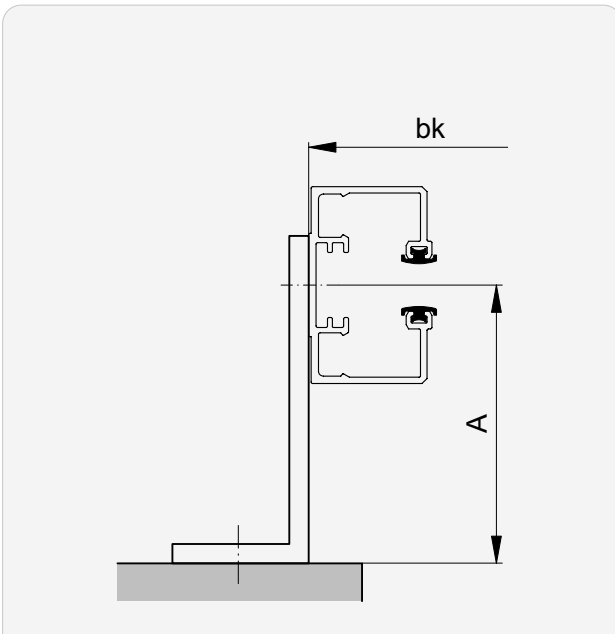
**i** For suspended guide rails always with **brackets 70 mm**.

**i** If the **projection is  $\geq 120$** , all products are fastened with a **70 mm bracket**.

\* in 5 mm steps

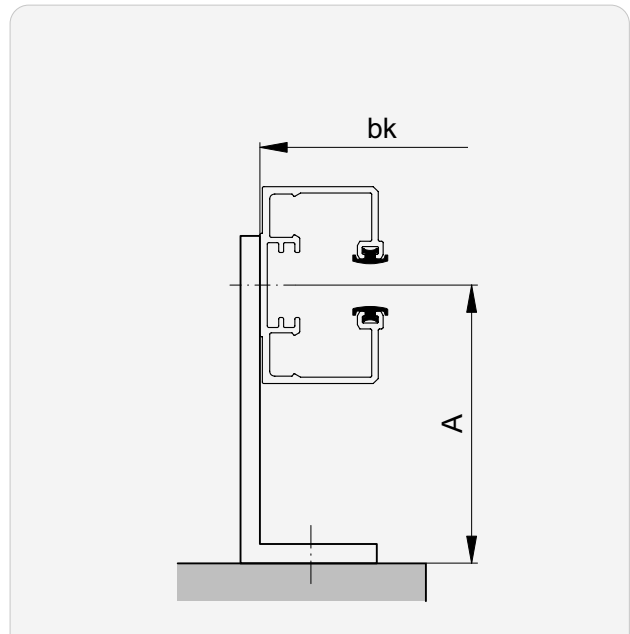
## ►► Guide rail fastenings (principle)

### **Bd** Installation with continuous fastening bracket



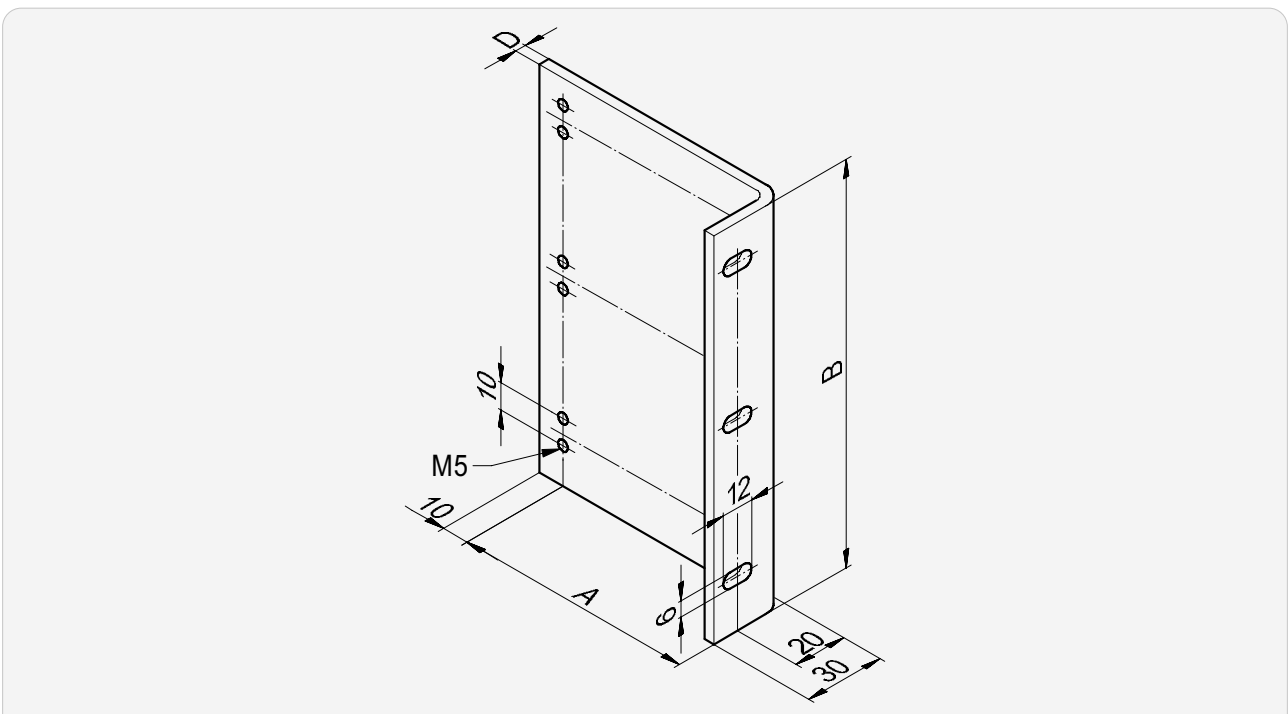
Bracket outwards

### **Cd** Installation with continuous fastening bracket



Bracket inwards

### Continuous fastening bracket for types Bd and Cd

**A\***

20...300

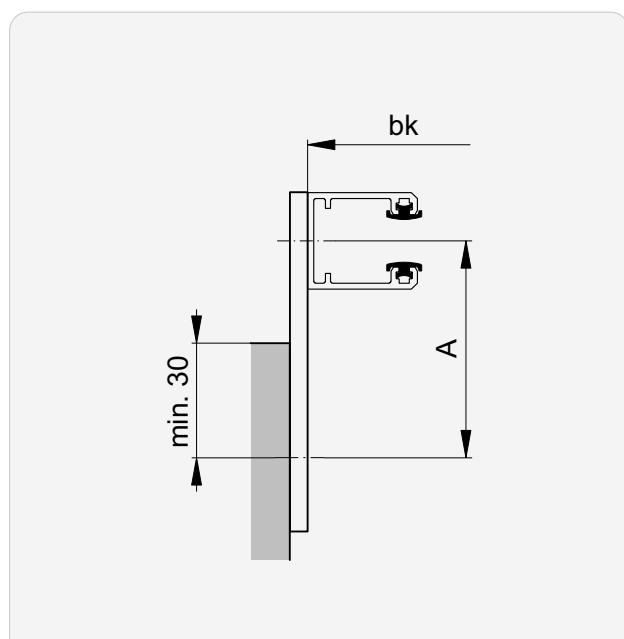
**D**

always 4

\* in 5 mm steps

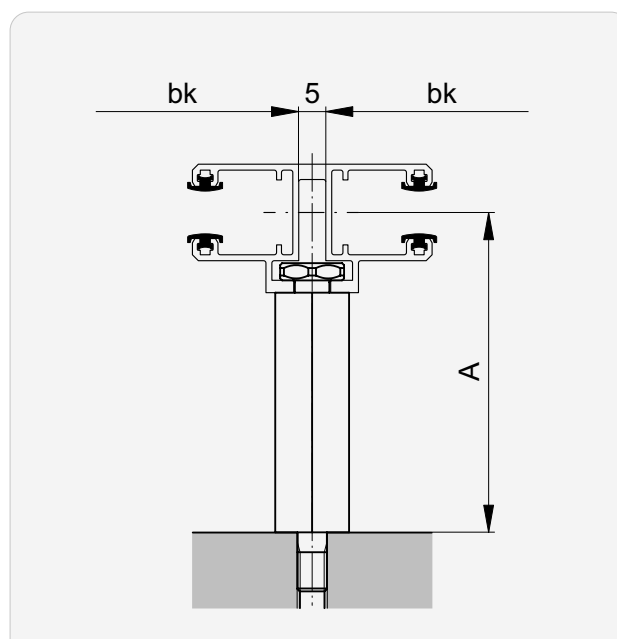
## ►► Guide rail fastenings (principle)

### E | F Installation with fastening lug



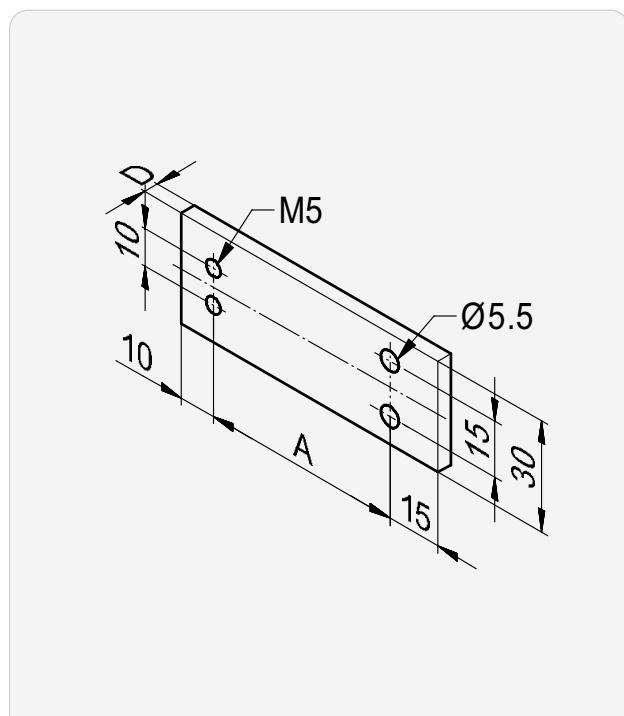
inwards / outwards

### H Installation with spacer



Only with guide type D

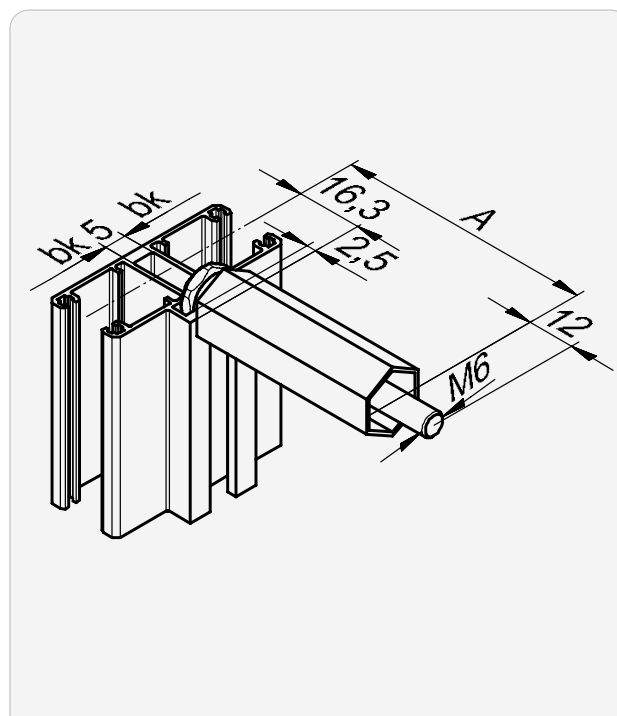
### Fastening lug for type E | F



| A*          | D |
|-------------|---|
| 50 ... 115  | 4 |
| 120 ... 125 | 5 |

\* in 5 mm steps

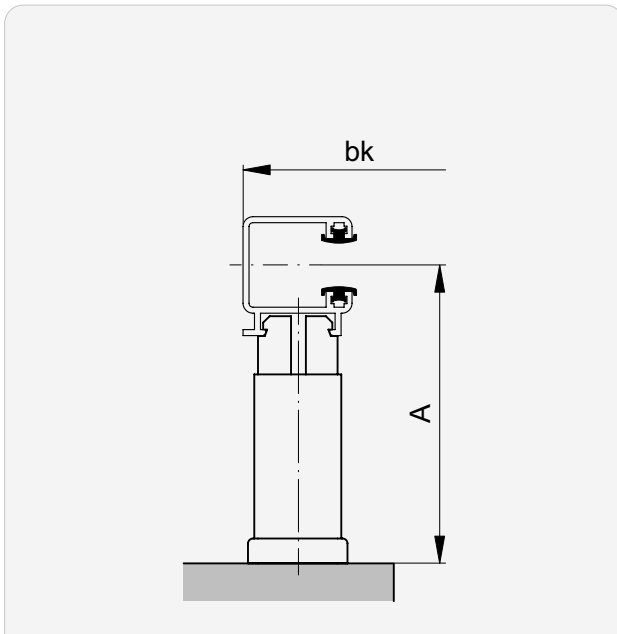
### Spacer for type H



| A          |
|------------|
| 35 ... 115 |

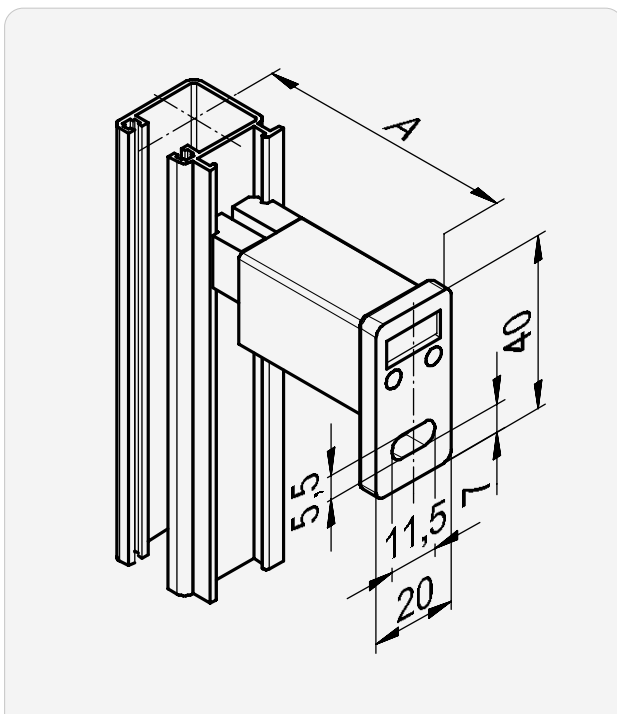
## ►► Guide rail fastenings (principle)

### **Kv** Installation with adjustable console



Only with guide type C|T|R

### Console for type Kv



#### **A**

60 ... 75

76 ... 90

91 ... 105

106 ... 120

#### **A**

121 ... 135

136 ... 150

151 ... 165

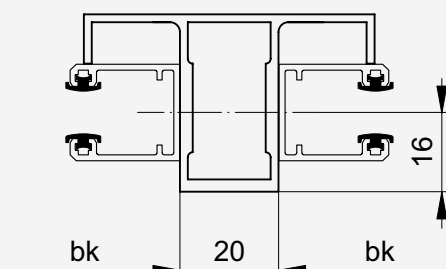
166 ... 180

181 ... 195

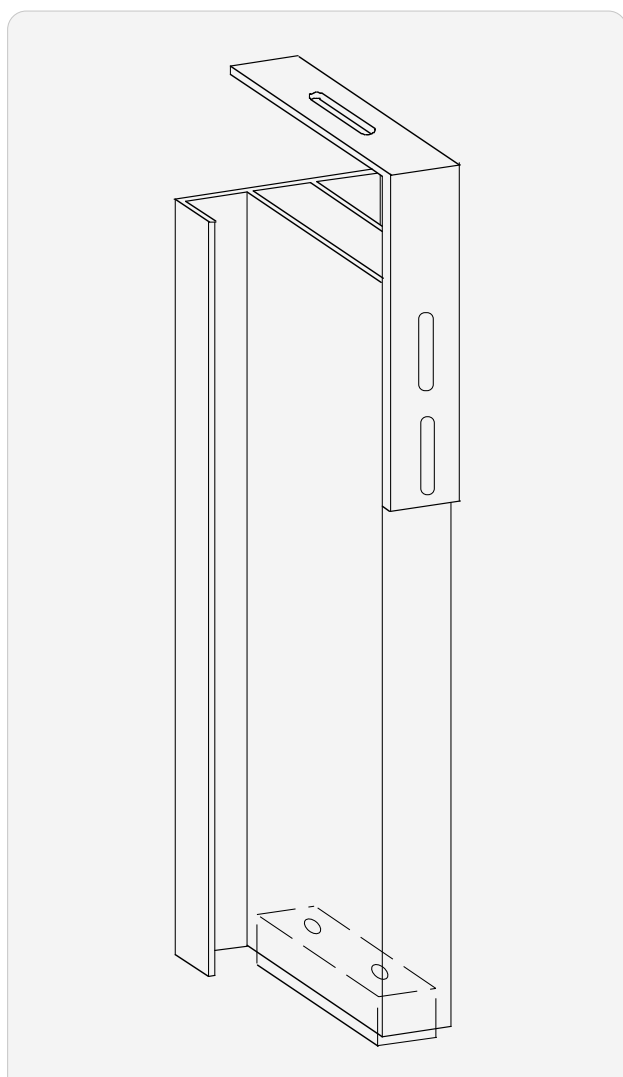
## ►► Guide rail fastenings (principle)

### M Installation with centre bracket

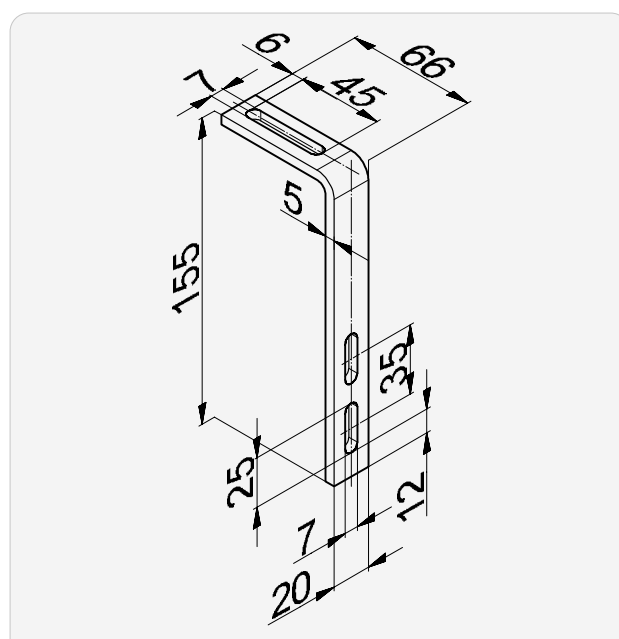
**i** Only with guide type E  
Length = Guide length



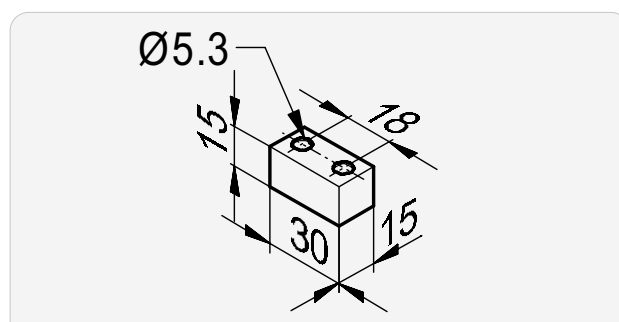
#### Principle



#### Fastening bracket above centre bracket

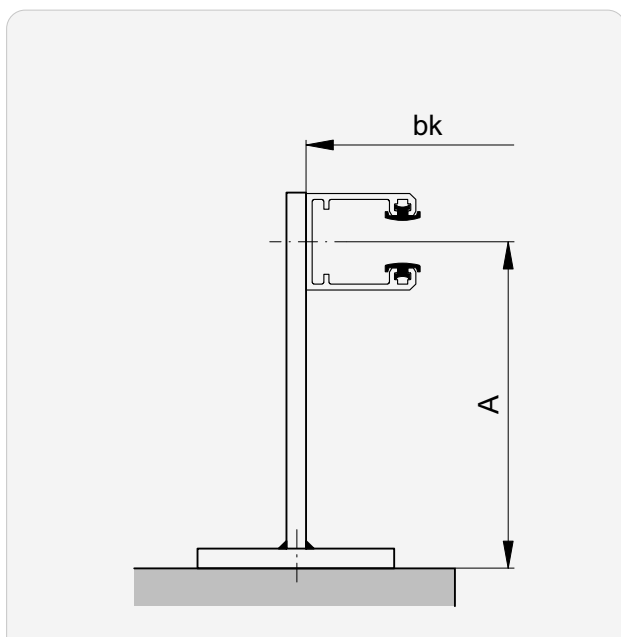
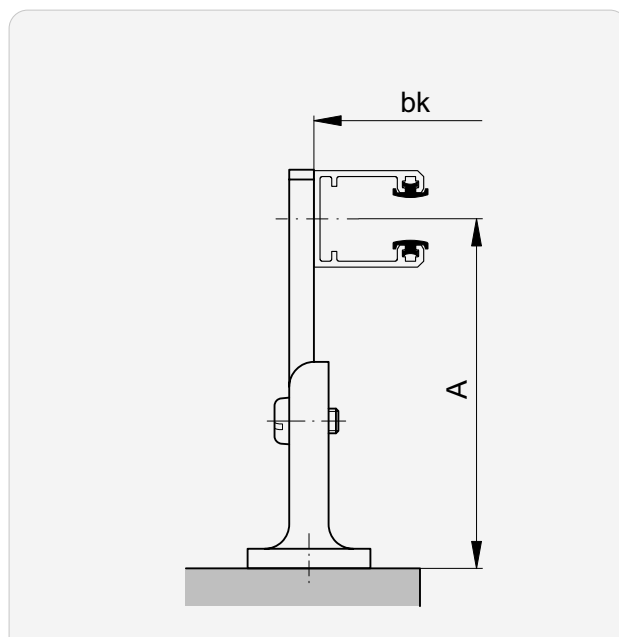


#### Fastening square below for centre bracket

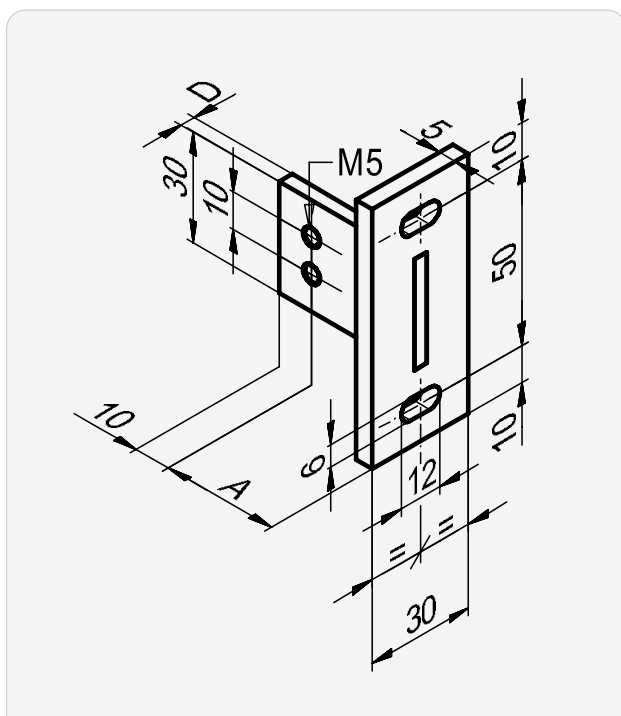


## ►► Guide rail fastenings (principle)

## T Installation with T-bracket

**Tv** Installation with adjustable T-bracket

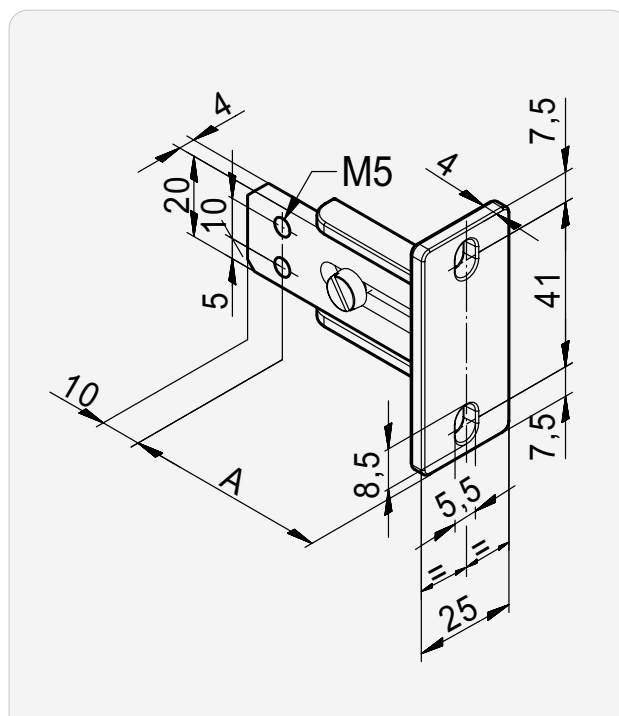
### T-bracket for type T



| <b>A</b>     | <b>D</b> |
|--------------|----------|
| 20 ... 115*  | 4        |
| 120 ... 215* | 5        |

\* in 5 mm steps

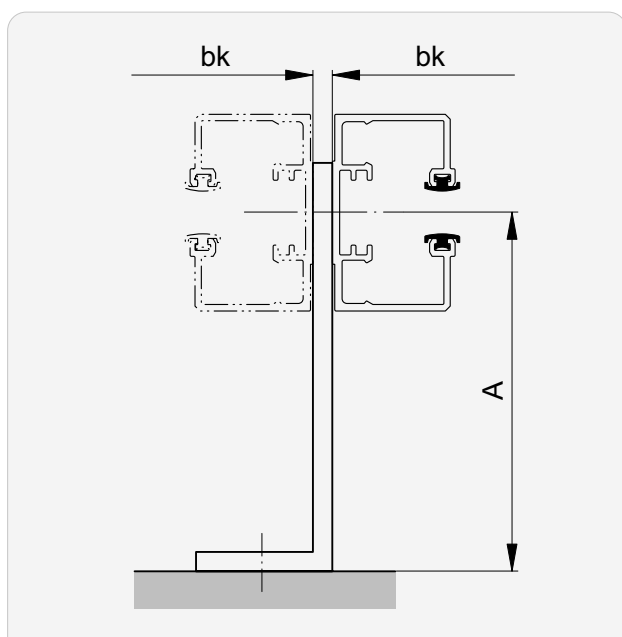
**T-bracket adjustable for type Tv**



| A           |
|-------------|
| 50 ... 68   |
| 69 ... 87   |
| 88 ... 106  |
| 107 ... 115 |

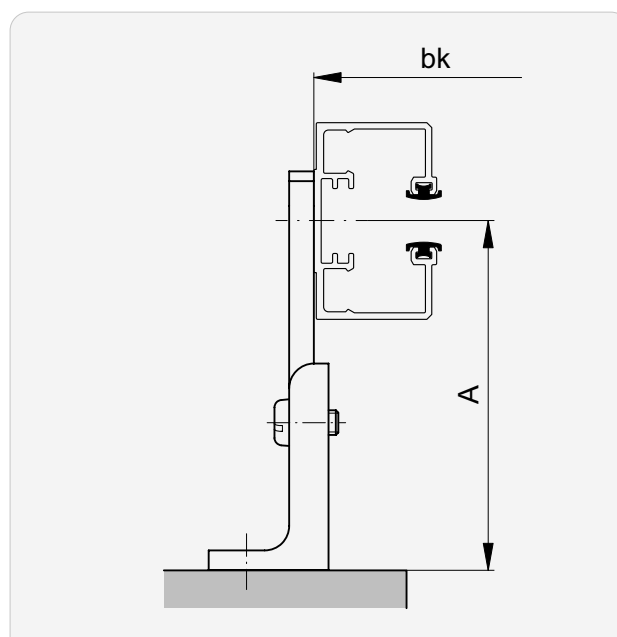
## ►► Guide rail fastenings (principle)

### T Installation with one bracket

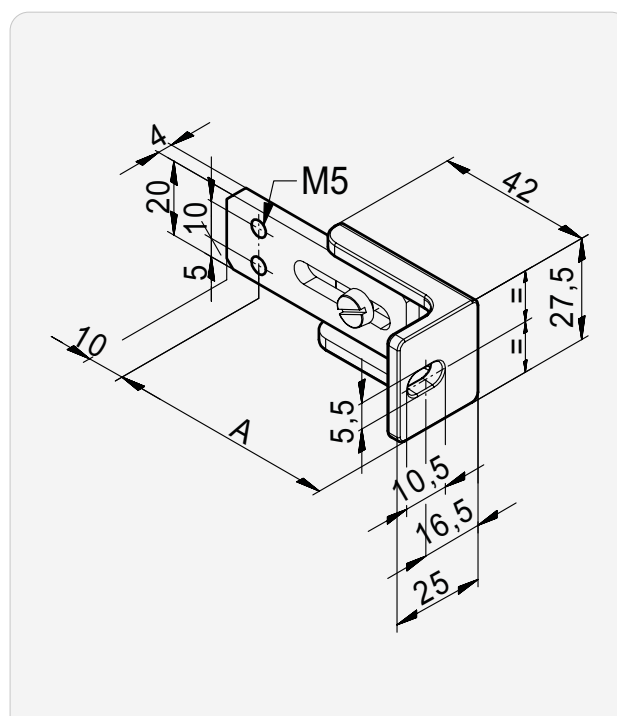


The blind on the right uses the fastening for the blind on the left.

### Wv Installation with adjustable bracket



### W-bracket adjustable for type Wv



### A

50 ... 68

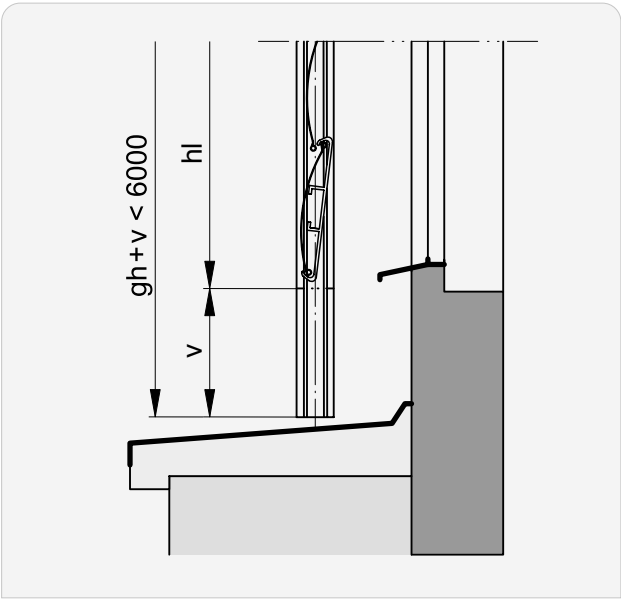
69 ... 87

88 ... 106

107 ... 115

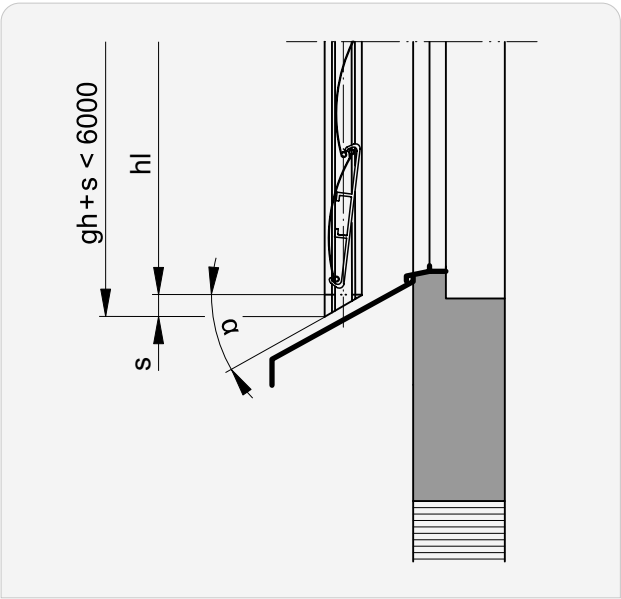
Guide extension and facet

Extension



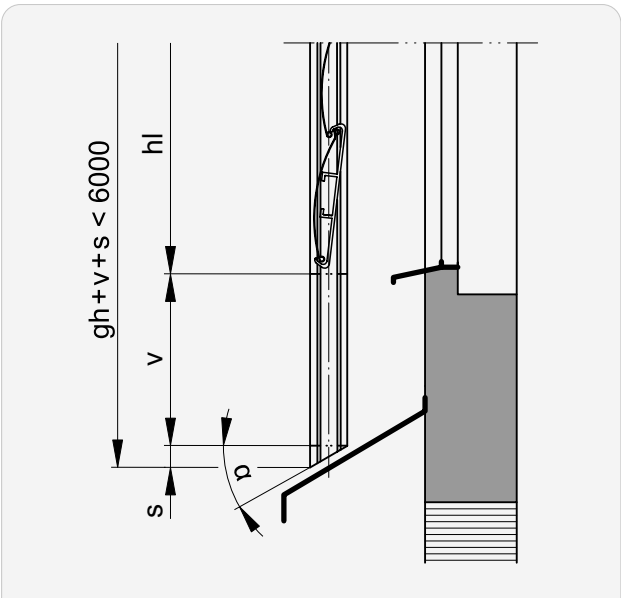
**v**  
-20 ... 3000

Facet



**α**  
5 ... 50°

Extension and facet

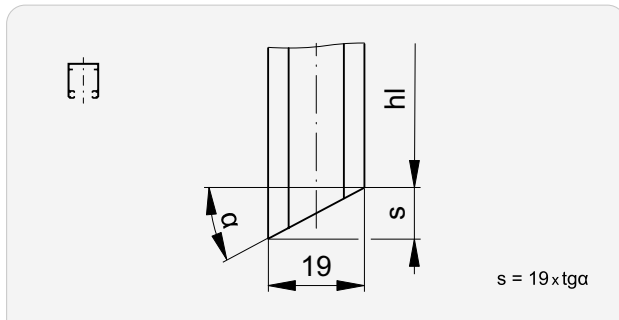


|            |           |
|------------|-----------|
| <b>v</b>   | <b>α</b>  |
| 0 ... 3000 | 5 ... 50° |

➔ Value for **s** ..... 277

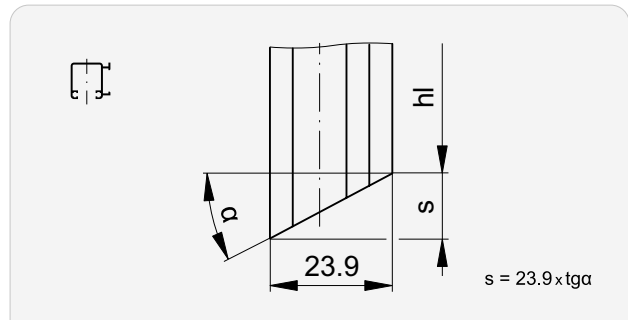
## Angling at the guides

### Type E | Single guide



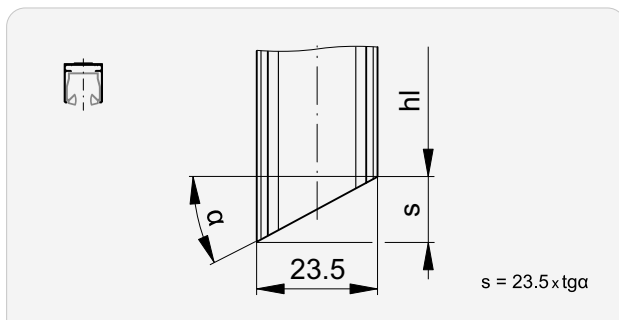
| $\alpha$ | s | $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|---|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 5 | 25       | 9  | 35       | 13 | 45       | 19 |
| 6        | 2 | 16       | 5 | 26       | 9  | 36       | 14 | 46       | 20 |
| 7        | 2 | 17       | 6 | 27       | 10 | 37       | 14 | 47       | 20 |
| 8        | 3 | 18       | 6 | 28       | 10 | 38       | 15 | 48       | 21 |
| 9        | 3 | 19       | 7 | 29       | 11 | 39       | 15 | 49       | 22 |
| 10       | 3 | 20       | 7 | 30       | 11 | 40       | 16 | 50       | 23 |
| 11       | 4 | 21       | 7 | 31       | 11 | 41       | 17 |          |    |
| 12       | 4 | 22       | 8 | 32       | 12 | 42       | 17 |          |    |
| 13       | 4 | 23       | 8 | 33       | 12 | 43       | 18 |          |    |
| 14       | 5 | 24       | 8 | 34       | 13 | 44       | 18 |          |    |

### Type C | Single guide



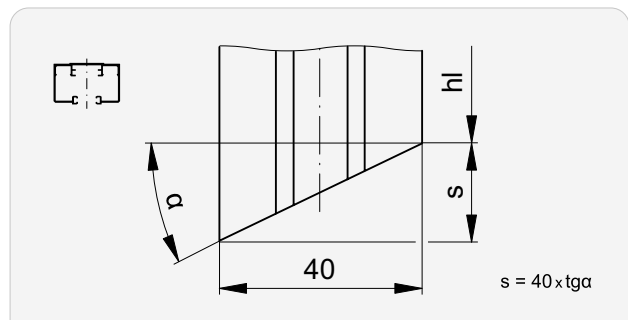
| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 17 | 45       | 24 |
| 6        | 3 | 16       | 7  | 26       | 12 | 36       | 17 | 46       | 25 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 26 |
| 8        | 3 | 18       | 8  | 28       | 13 | 38       | 19 | 48       | 27 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 19 | 49       | 27 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 28 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 21 |          |    |
| 12       | 5 | 22       | 10 | 32       | 15 | 42       | 22 |          |    |
| 13       | 6 | 23       | 10 | 33       | 16 | 43       | 22 |          |    |
| 14       | 6 | 24       | 11 | 34       | 16 | 44       | 23 |          |    |

### Type L | Fix guide



| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 16 | 45       | 24 |
| 6        | 2 | 16       | 7  | 26       | 11 | 36       | 17 | 46       | 24 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 25 |
| 8        | 3 | 18       | 8  | 28       | 12 | 38       | 18 | 48       | 26 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 19 | 49       | 27 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 28 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 20 |          |    |
| 12       | 5 | 22       | 9  | 32       | 15 | 42       | 21 |          |    |
| 13       | 5 | 23       | 10 | 33       | 15 | 43       | 22 |          |    |
| 14       | 6 | 24       | 10 | 34       | 16 | 44       | 23 |          |    |

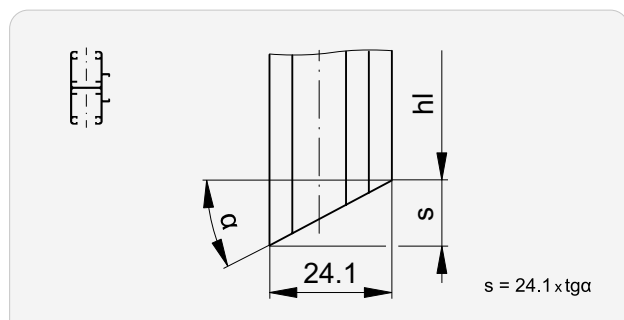
### Type F | Fix guide



| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 3  | 15       | 11 | 25       | 19 | 35       | 28 | 45       | 40 |
| 6        | 4  | 16       | 11 | 26       | 20 | 36       | 29 | 46       | 41 |
| 7        | 5  | 17       | 12 | 27       | 20 | 37       | 30 | 47       | 43 |
| 8        | 6  | 18       | 13 | 28       | 21 | 38       | 31 | 48       | 44 |
| 9        | 6  | 19       | 14 | 29       | 22 | 39       | 32 | 49       | 46 |
| 10       | 7  | 20       | 15 | 30       | 23 | 40       | 34 | 50       | 48 |
| 11       | 8  | 21       | 15 | 31       | 24 | 41       | 35 |          |    |
| 12       | 9  | 22       | 16 | 32       | 25 | 42       | 36 |          |    |
| 13       | 9  | 23       | 17 | 33       | 26 | 43       | 37 |          |    |
| 14       | 10 | 24       | 18 | 34       | 27 | 44       | 39 |          |    |

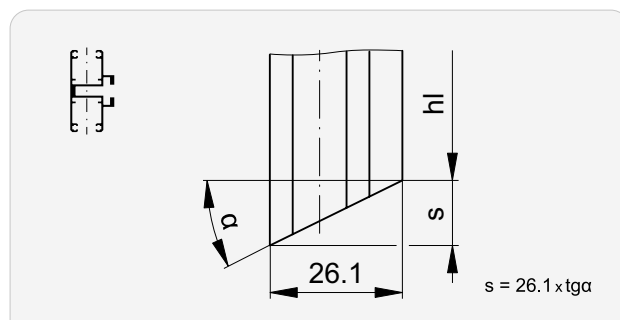
## ► Angling at the guides

### Type T | Double guide



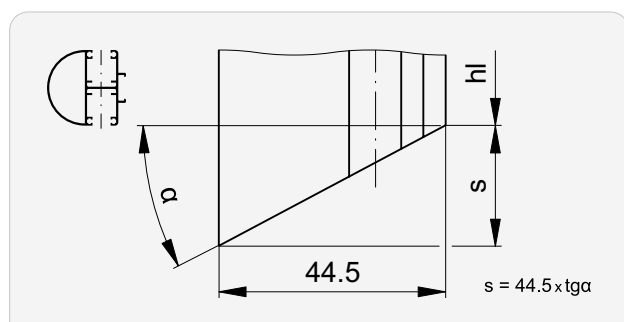
| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 6  | 25       | 11 | 35       | 17 | 45       | 24 |
| 6        | 3 | 16       | 7  | 26       | 12 | 36       | 18 | 46       | 25 |
| 7        | 3 | 17       | 7  | 27       | 12 | 37       | 18 | 47       | 26 |
| 8        | 3 | 18       | 8  | 28       | 13 | 38       | 19 | 48       | 27 |
| 9        | 4 | 19       | 8  | 29       | 13 | 39       | 20 | 49       | 28 |
| 10       | 4 | 20       | 9  | 30       | 14 | 40       | 20 | 50       | 29 |
| 11       | 5 | 21       | 9  | 31       | 14 | 41       | 21 |          |    |
| 12       | 5 | 22       | 10 | 32       | 15 | 42       | 22 |          |    |
| 13       | 6 | 23       | 10 | 33       | 16 | 43       | 22 |          |    |
| 14       | 6 | 24       | 11 | 34       | 16 | 44       | 23 |          |    |

### Type D | Double guide



| $\alpha$ | s | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|---|----------|----|----------|----|----------|----|----------|----|
| 5        | 2 | 15       | 7  | 25       | 12 | 35       | 18 | 45       | 26 |
| 6        | 3 | 16       | 7  | 26       | 13 | 36       | 19 | 46       | 27 |
| 7        | 3 | 17       | 8  | 27       | 13 | 37       | 20 | 47       | 28 |
| 8        | 4 | 18       | 8  | 28       | 14 | 38       | 20 | 48       | 29 |
| 9        | 4 | 19       | 9  | 29       | 14 | 39       | 21 | 49       | 30 |
| 10       | 5 | 20       | 9  | 30       | 15 | 40       | 22 | 50       | 31 |
| 11       | 5 | 21       | 10 | 31       | 16 | 41       | 23 |          |    |
| 12       | 6 | 22       | 11 | 32       | 16 | 42       | 24 |          |    |
| 13       | 6 | 23       | 11 | 33       | 17 | 43       | 24 |          |    |
| 14       | 7 | 24       | 12 | 34       | 18 | 44       | 25 |          |    |

### Type R | Curved double guide



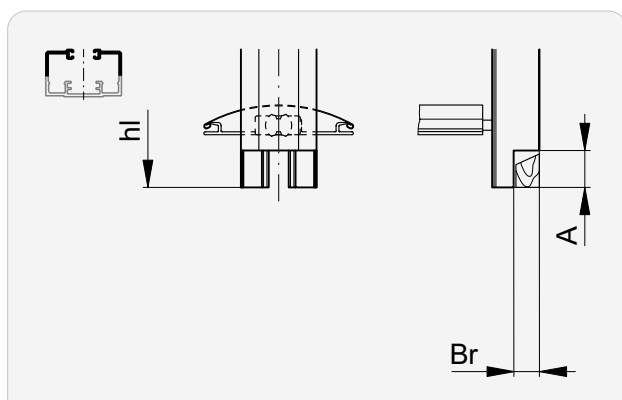
| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 4  | 15       | 12 | 25       | 21 | 35       | 31 | 45       | 45 |
| 6        | 5  | 16       | 13 | 26       | 22 | 36       | 32 | 46       | 46 |
| 7        | 5  | 17       | 14 | 27       | 23 | 37       | 34 | 47       | 48 |
| 8        | 6  | 18       | 14 | 28       | 24 | 38       | 35 | 48       | 50 |
| 9        | 7  | 19       | 15 | 29       | 25 | 39       | 36 | 49       | 51 |
| 10       | 8  | 20       | 16 | 30       | 26 | 40       | 37 | 50       | 53 |
| 11       | 9  | 21       | 17 | 31       | 27 | 41       | 39 |          |    |
| 12       | 9  | 22       | 18 | 32       | 28 | 42       | 40 |          |    |
| 13       | 10 | 23       | 19 | 33       | 29 | 43       | 42 |          |    |
| 14       | 11 | 24       | 20 | 34       | 30 | 44       | 43 |          |    |

## Guide rail cut-outs in windowsill area

| Guide type |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|
| C          | D | E | F | L | R | T |
| —          | — | ● | ● | ● | — | — |

### Rear cut-out | without/with extension

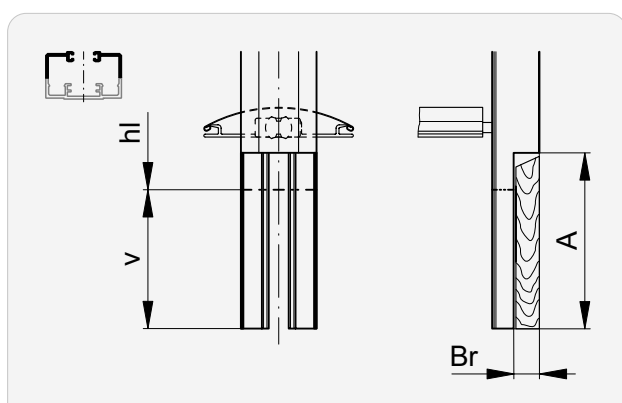
#### Without extension



| A      | Guide type | Br     |        |       |
|--------|------------|--------|--------|-------|
|        |            | E      | F      | L*    |
| 0...25 |            | 2...3  | 2...4  | 2...4 |
|        |            | 5...12 | 9...12 | 6     |

\* FL ≥ 630

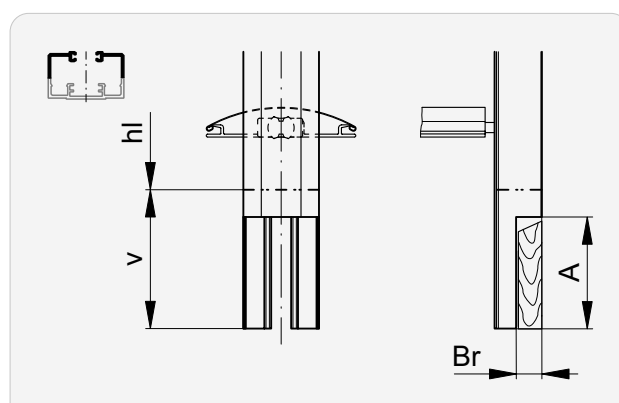
#### Extension | $v \leq A$



| A      | Guide type | Br     |        |       |
|--------|------------|--------|--------|-------|
|        |            | E      | F      | L*    |
| 0...25 |            | 2...3  | 2...4  | 2...4 |
|        |            | 5...12 | 9...12 | 6     |

\* FL ≥ 630

#### Extension | $v > A$



| A      | Guide type | Br     |        |       |
|--------|------------|--------|--------|-------|
|        |            | E      | F      | L*    |
| 0...25 |            | 2...3  | 2...4  | 2...4 |
|        |            | 5...12 | 9...12 | 6     |

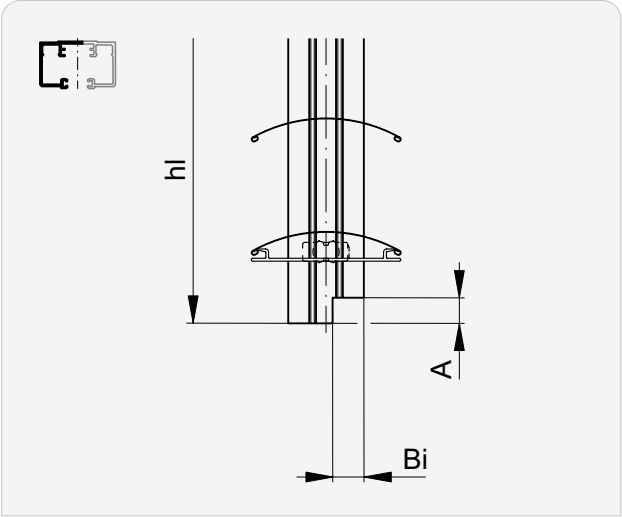
\* FL ≥ 630

v Guide rail extension: 0...3000

►► Guide rail cut-outs in windowsill area

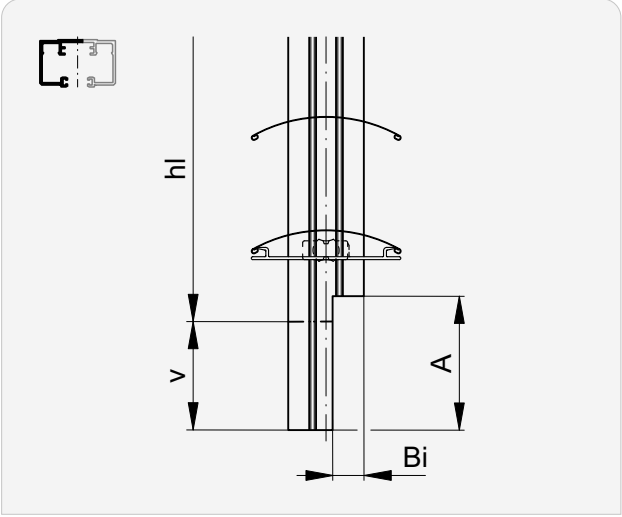
Inner cut-out | without / with extension

Without extension



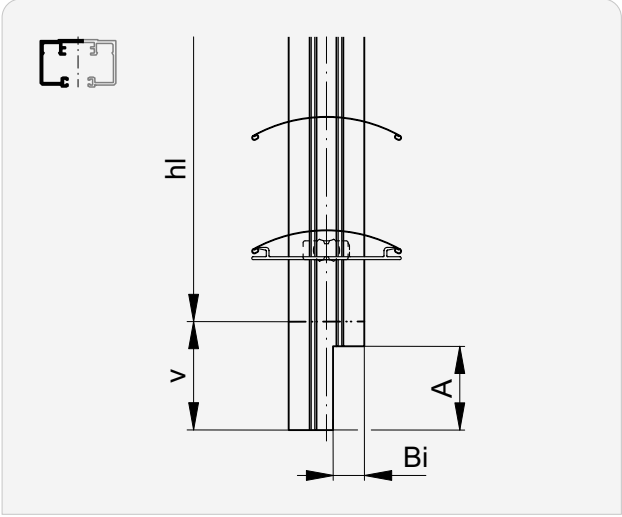
| A          | Guide type | Bi       |          |          |
|------------|------------|----------|----------|----------|
|            |            | E        | F        | L*       |
| 0 ... 25   |            | 6 ... 12 | 3 ... 10 | 8 ... 12 |
| * FL ≥ 630 |            |          |          |          |

Extension |  $v \leq A$



| A          | Guide type | Bi       |          |          |
|------------|------------|----------|----------|----------|
|            |            | E        | F        | L*       |
| 0 ... 25   |            | 6 ... 12 | 3 ... 10 | 8 ... 12 |
| * FL ≥ 630 |            |          |          |          |

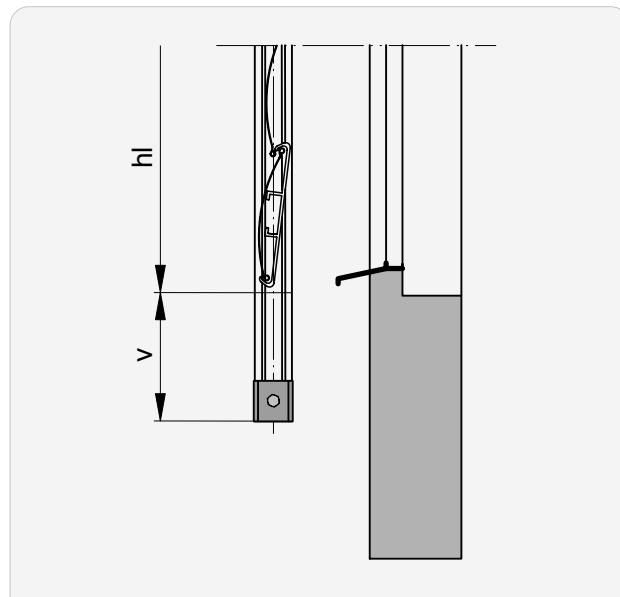
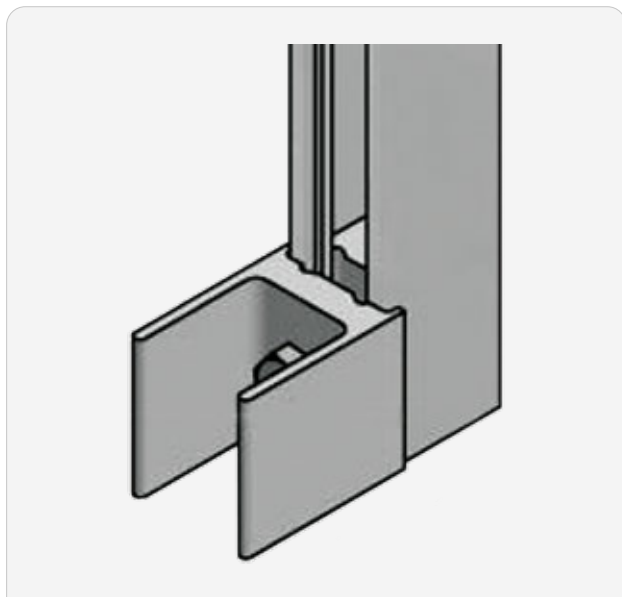
Extension |  $v > A$



| A          | Guide type | Bi       |          |          |
|------------|------------|----------|----------|----------|
|            |            | E        | F        | L*       |
| 0 ... 25   |            | 6 ... 12 | 3 ... 10 | 8 ... 12 |
| * FL ≥ 630 |            |          |          |          |

v Guide rail extension: 0 ... 3000

## Guide rail end for suspended guide rails

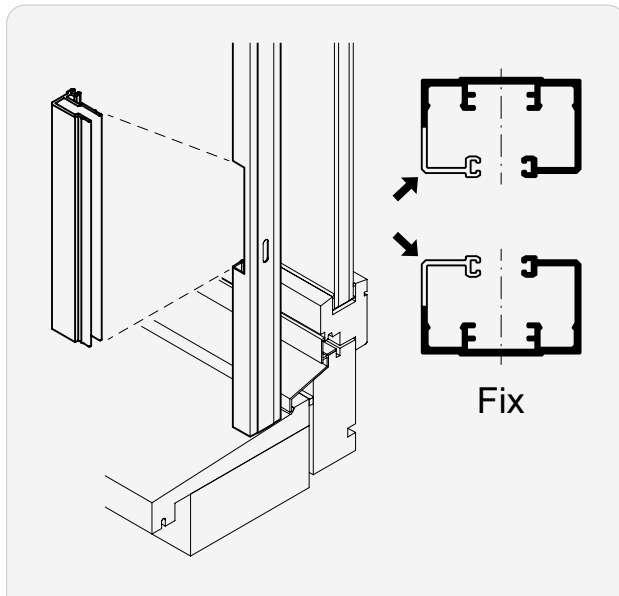


| Guide type |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|
| C          | D | E | F | L | R | T |
| ●          | ● | ● | ● | ● | ● | ● |

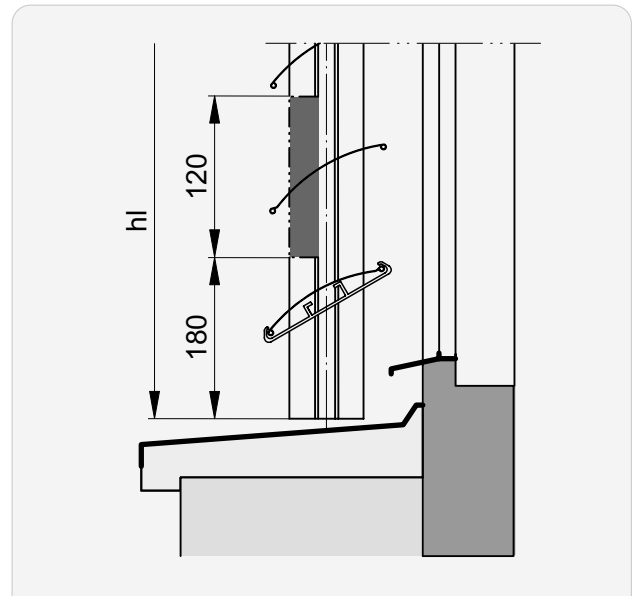
| L* | v   |
|----|-----|
| 70 | ≥30 |

\* Guide fastening with local brackets.

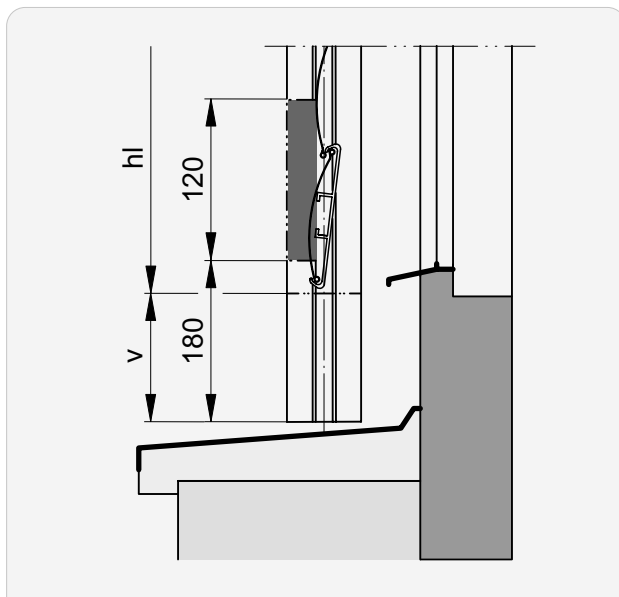
## Installation window



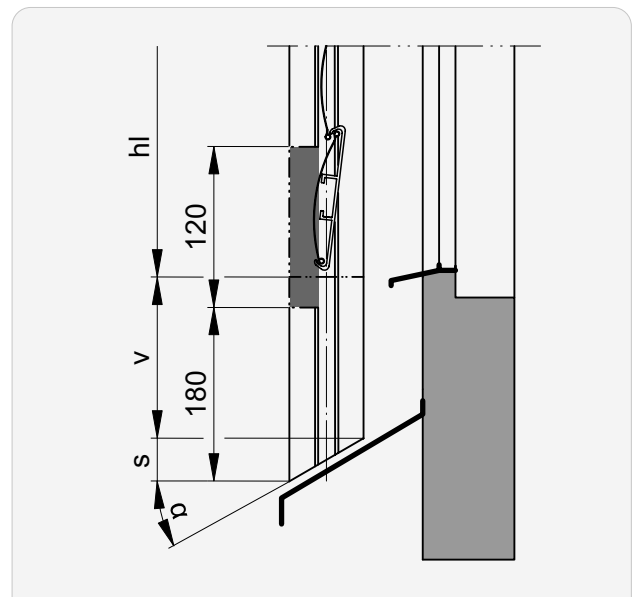
### Without extension



### With extension



### With extension and facet



**s** Faceting (guide rail width x  $\tan \alpha$ )

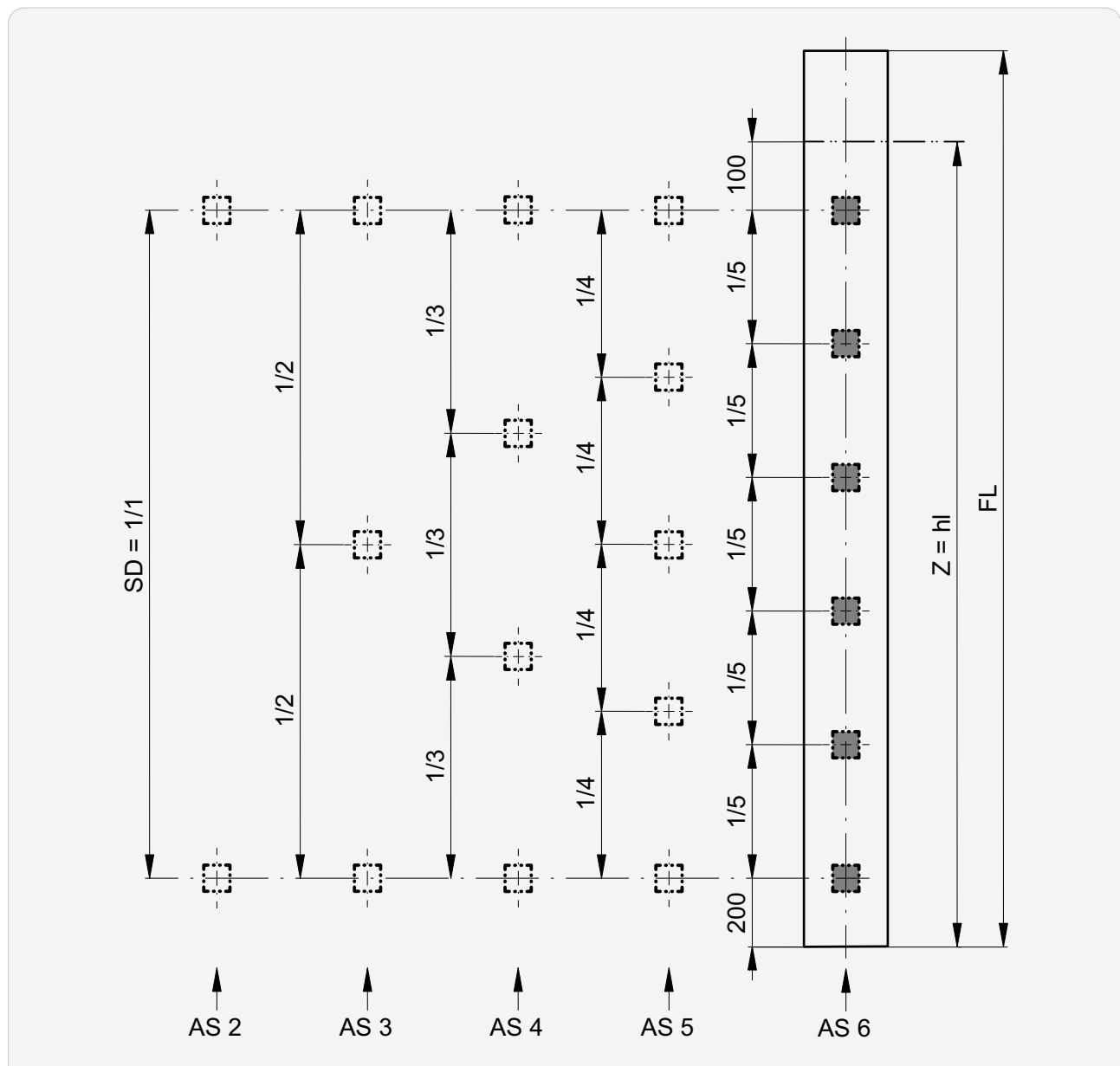
**v** Guide rail extension: max. 3000

## Fastening points

Box

## Without extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



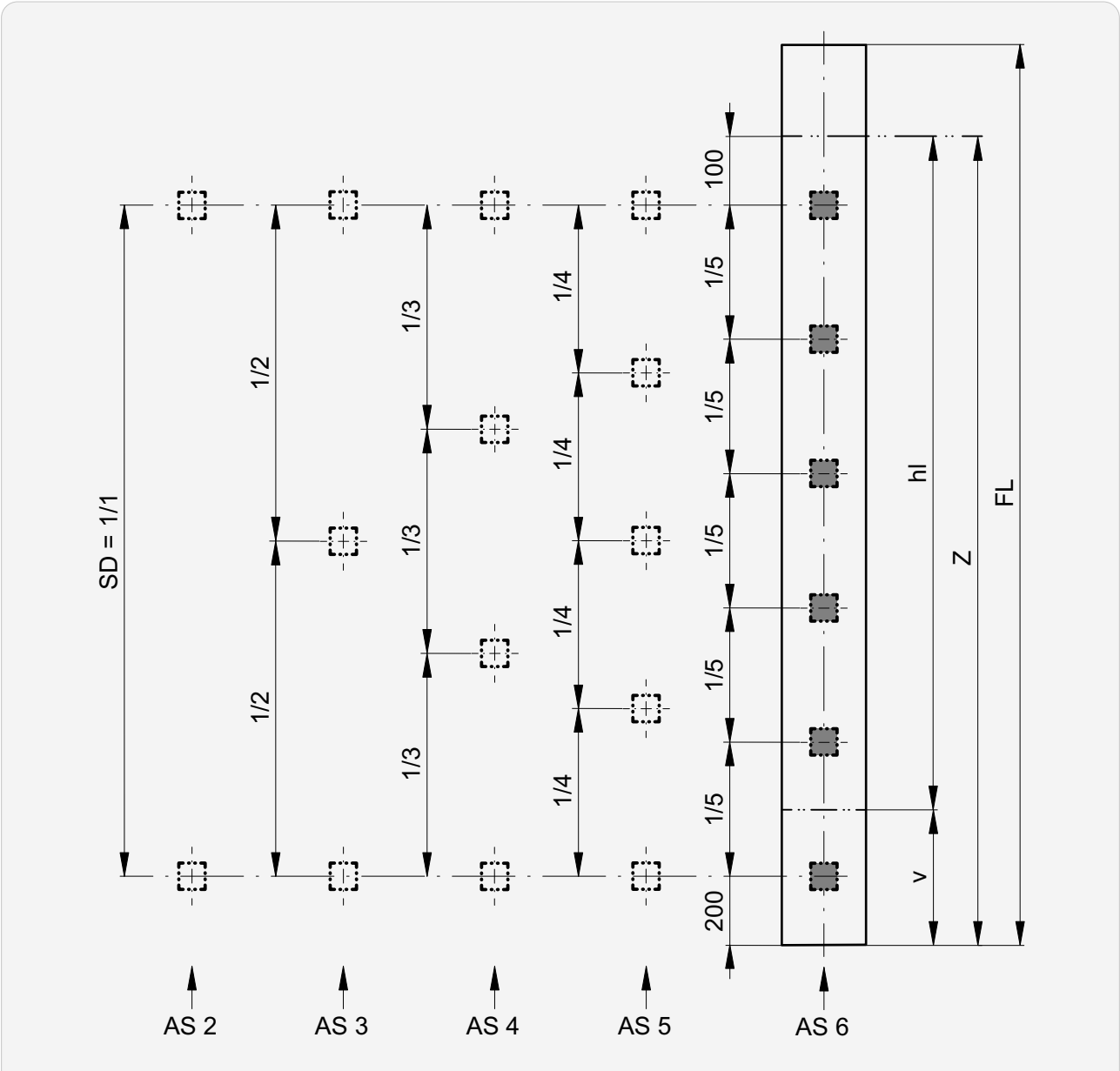
AS Number of slits

SD Slot spacing: max. 1200

►► Fastening points

With guide rail extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits  
**SD** Slot spacing: max. 1200

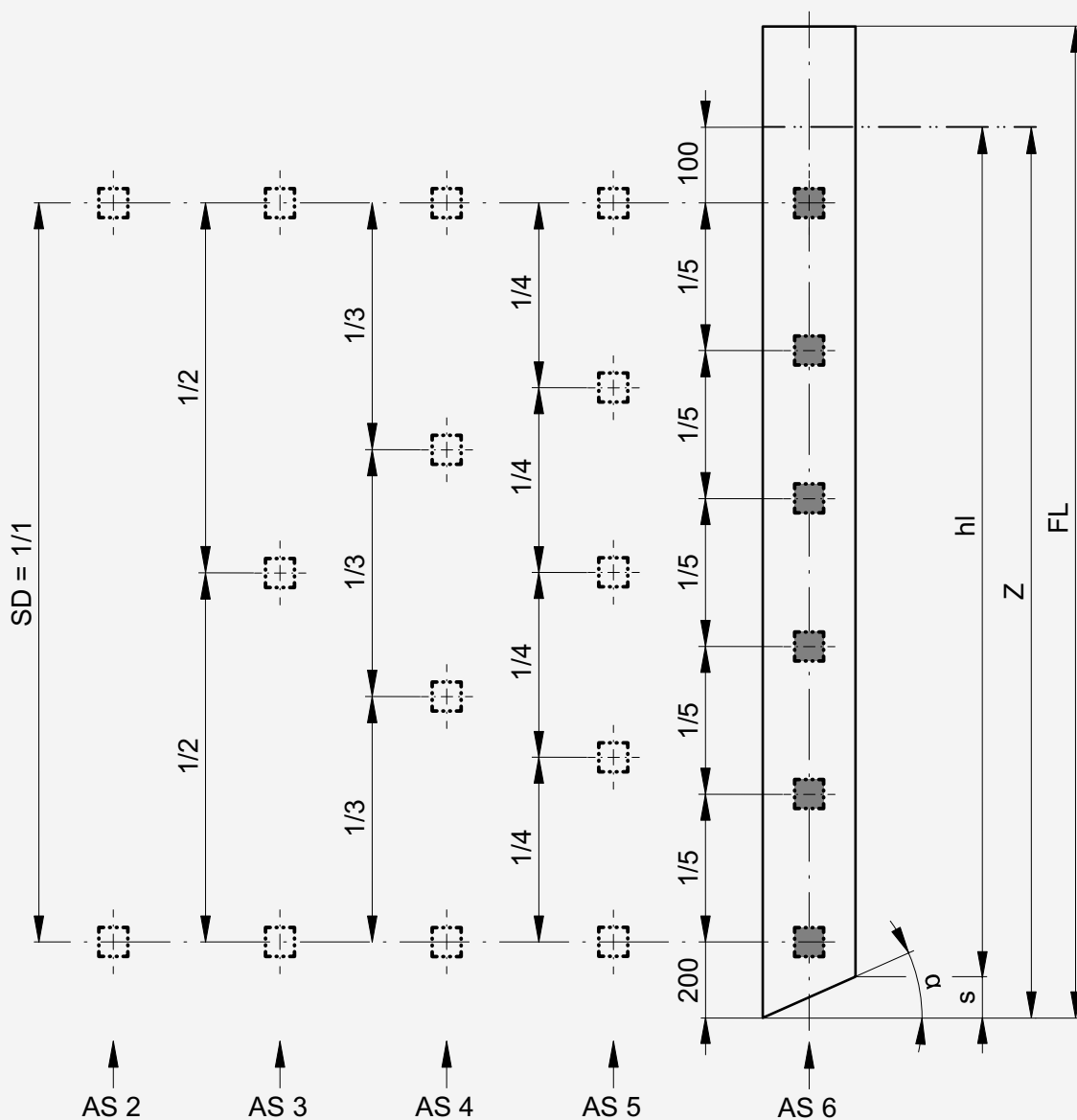
**v** Guide rail extension: max. 3000

|                                   |     |                             |     |
|-----------------------------------|-----|-----------------------------|-----|
| ► Guide extension and facet ..... | 276 | ► Installation window ..... | 282 |
| ► Guide rail fastenings.....      | 268 |                             |     |

## ►► Fastening points

### With facet

| <b>Z</b>     | <b>AS</b> |
|--------------|-----------|
| ≤1500        | 2         |
| 1501... 2700 | 3         |
| 2701... 3900 | 4         |
| 3901... 5100 | 5         |
| >5100        | 6         |



**AS** Number of slits

**SD** Slot spacing: max. 1200

**s** Faceting (guide rail width x  $\tan \alpha$ )

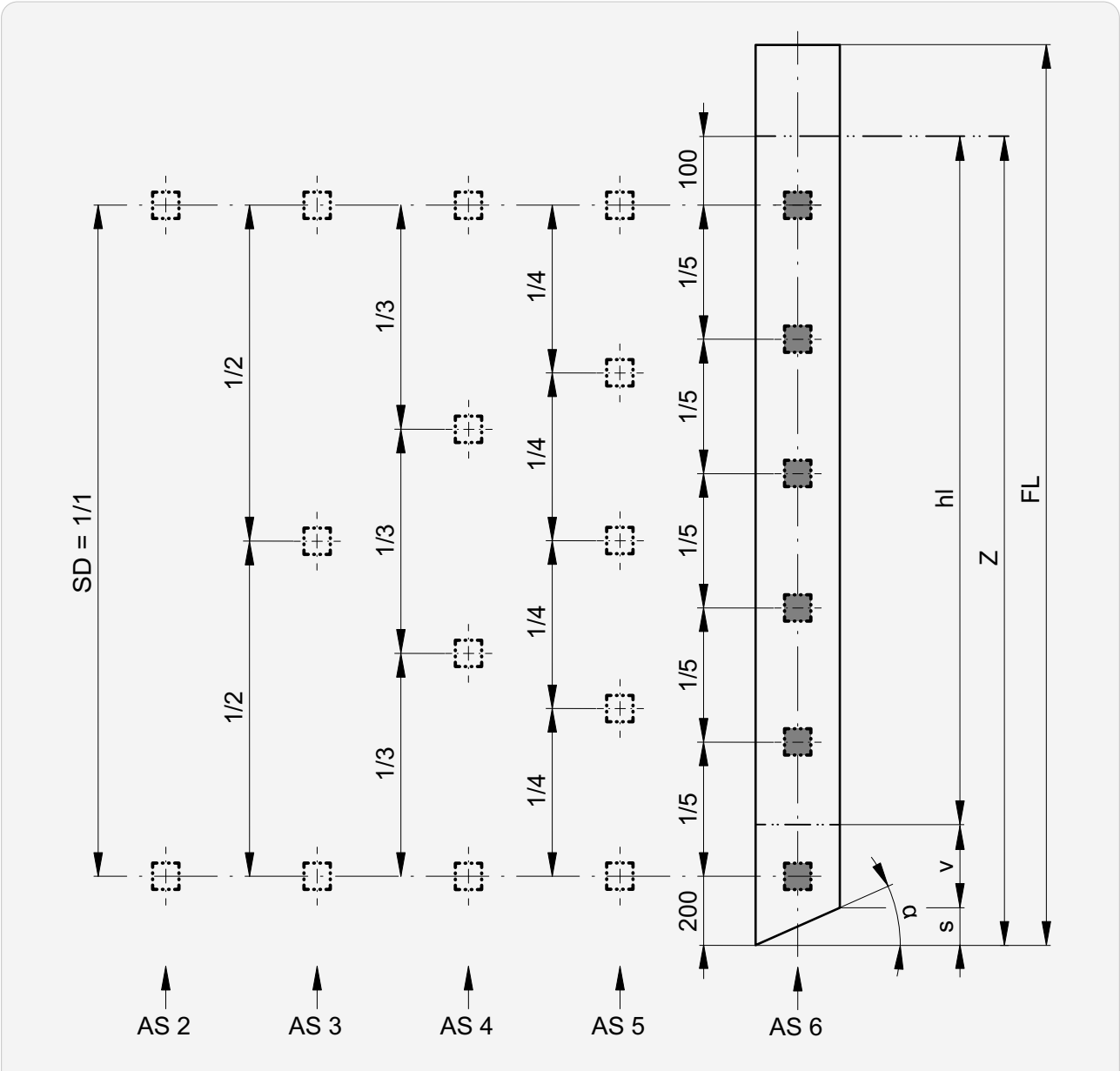
-  Guide extension and facet ..... **276**
-  Guide rail fastenings..... **268**

 Installation window .....282

►► Fastening points

With guide rail extension and facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**s** Faceting (guide rail width x tgα)

**SD** Slot spacing: max. 1200

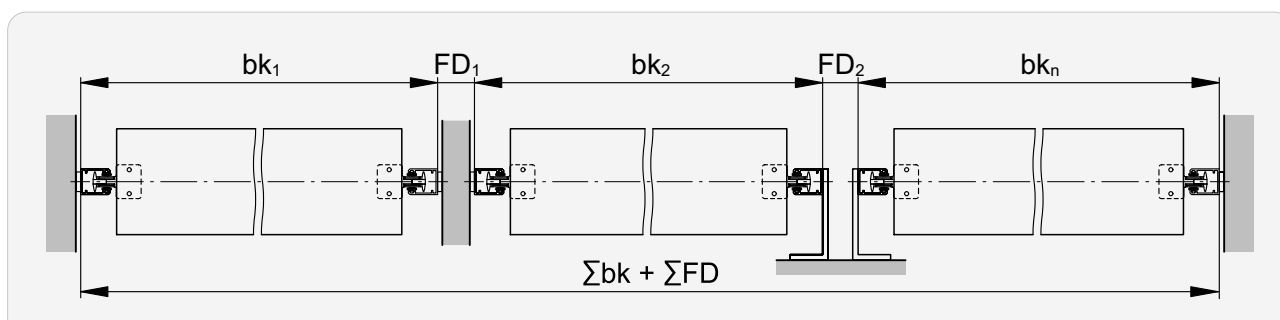
**v** Guide rail extension: max. 3000

|                                   |     |
|-----------------------------------|-----|
| ► Guide extension and facet ..... | 276 |
| ► Guide rail fastenings.....      | 268 |

|                             |     |
|-----------------------------|-----|
| ► Installation window ..... | 282 |
|-----------------------------|-----|

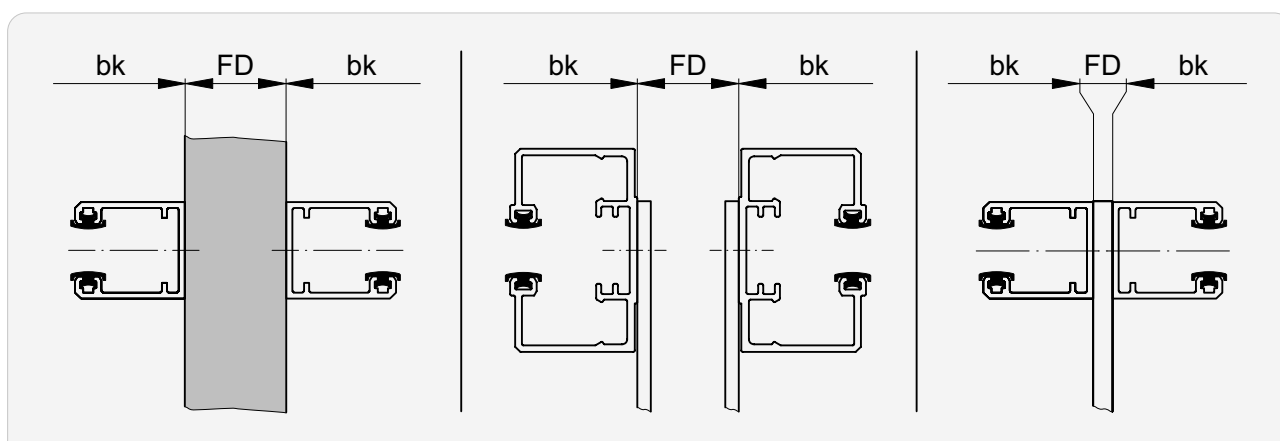
## Connected systems

### System width



### Distance between guides FD

#### Single guide | Fix guide



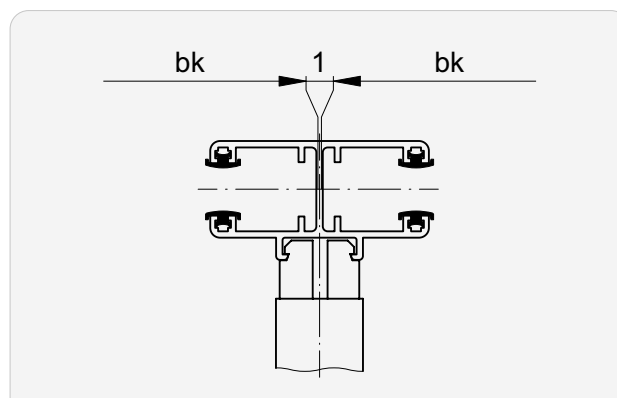
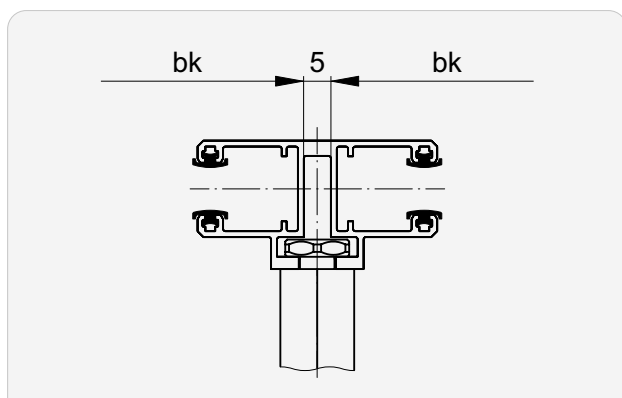
**FD min.**

5

**FD max.**

1000

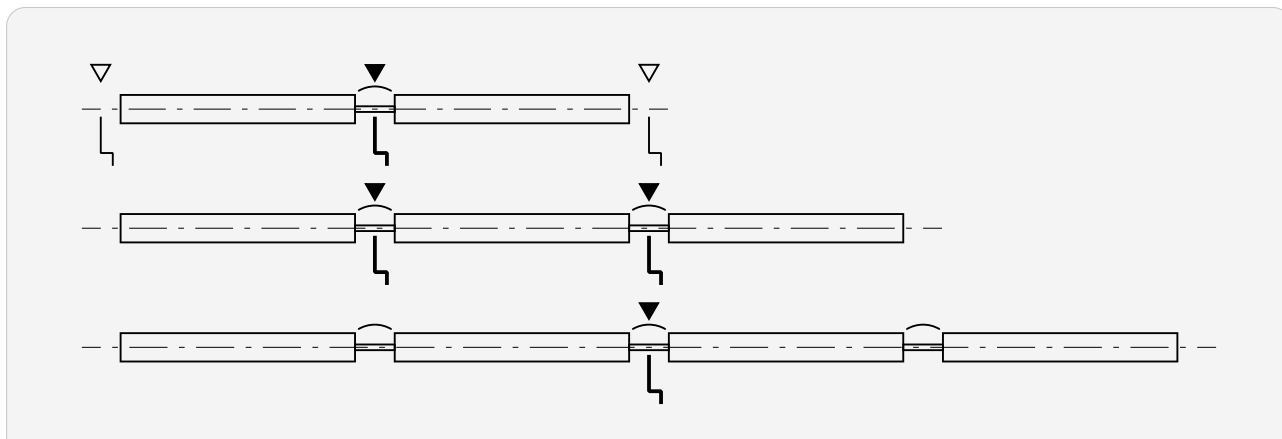
#### Double guide



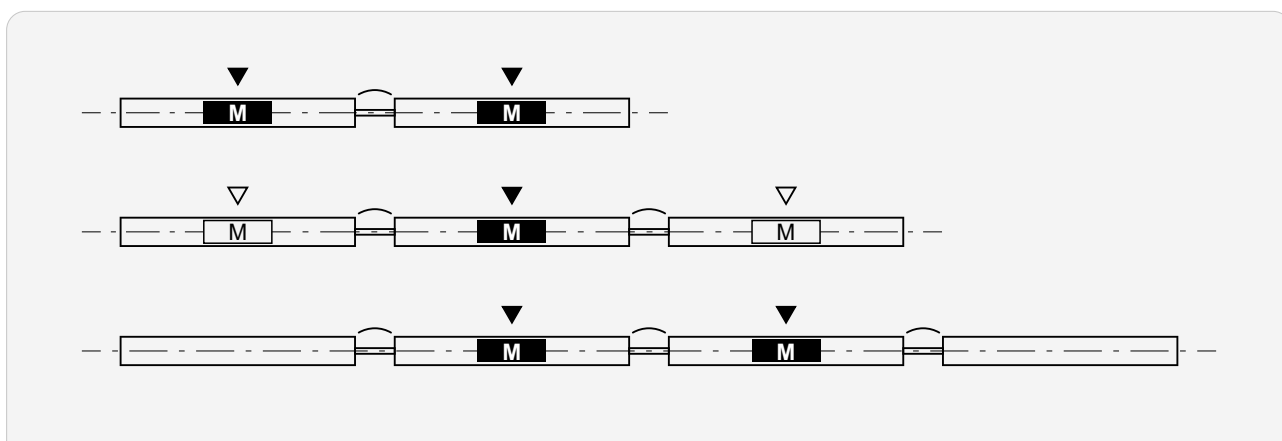
## ►► Connected systems

### Drive position

#### Gearbox



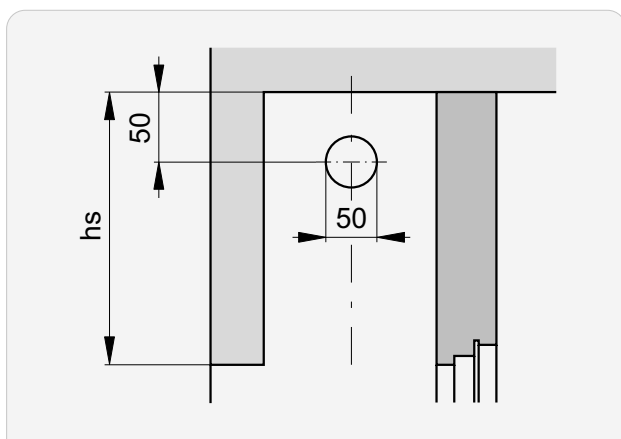
#### Motor



▼ Standard drive position

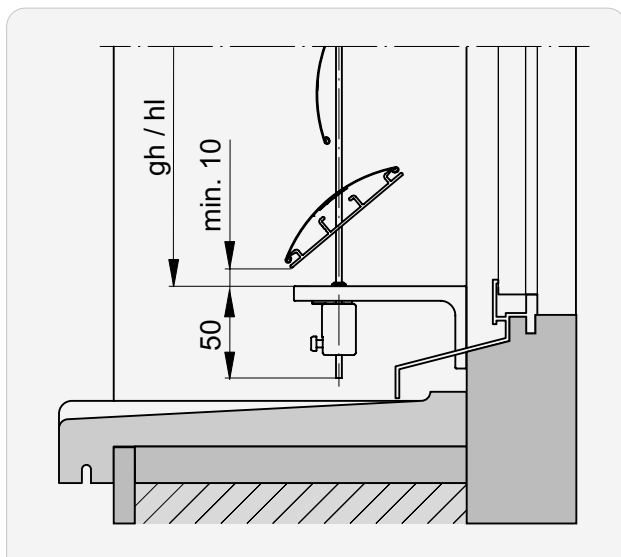
▽ Possible drive position

### Opening for connected blinds

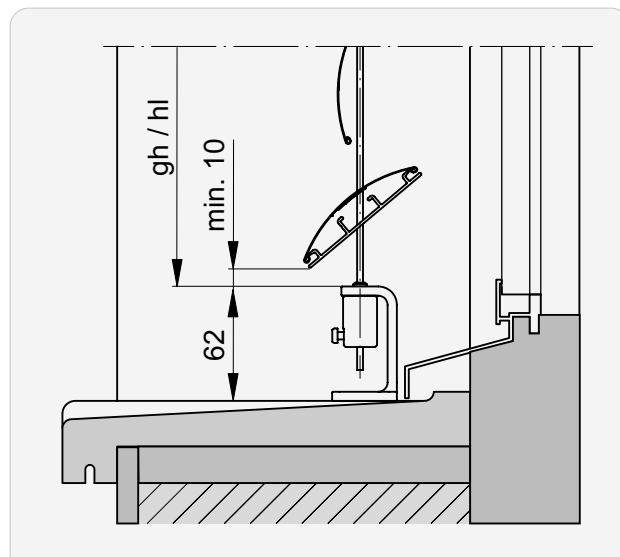


## Cable guide

### Soffit-/facade mounting



### Window ledge mounting

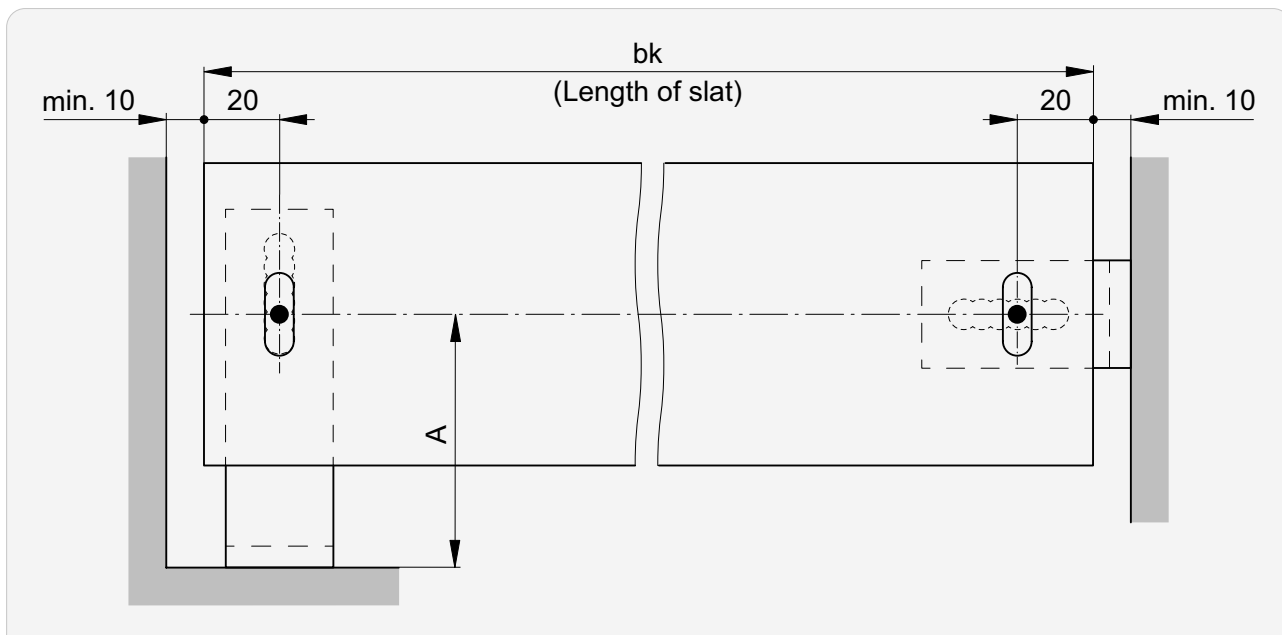


➡ Cable fastenings.....298

➡ Distance between guides **FD** .....300

## Sections | Details

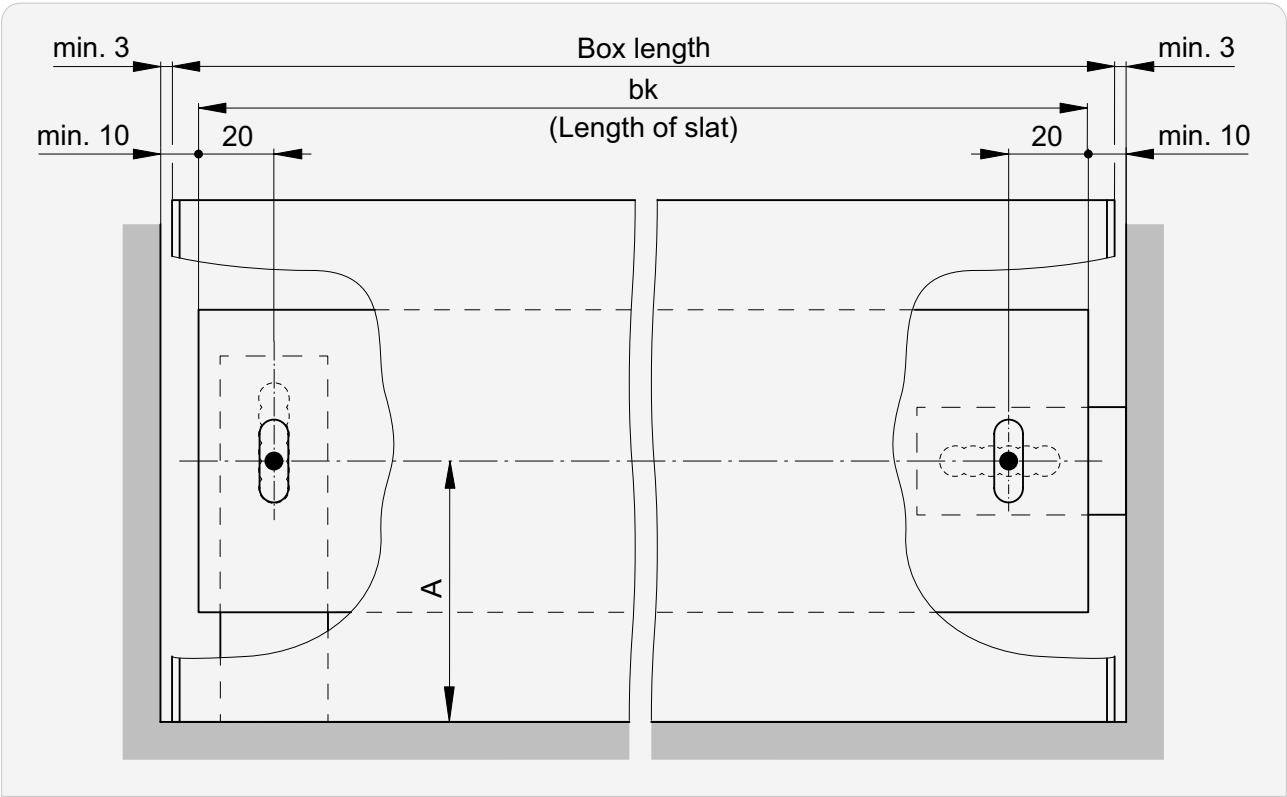
### Horizontal section



➡ Value for **A**.....247

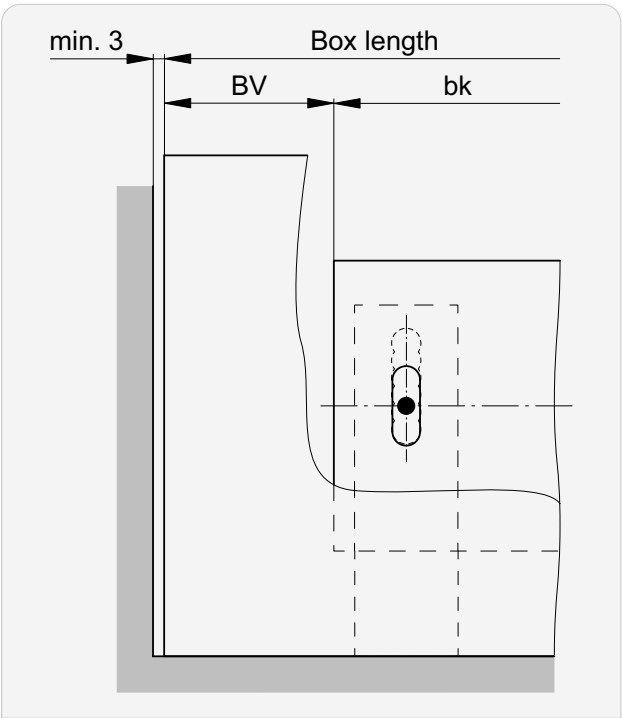
►► Sections | Details

Horizontal section: Box



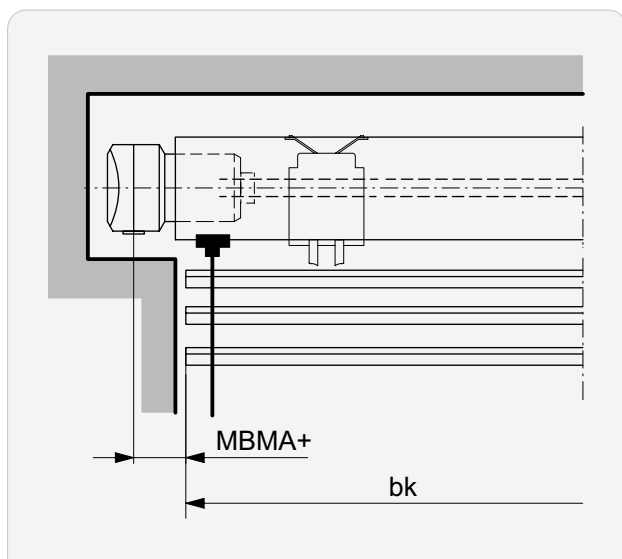
➡ Value for **A**.....247

Horizontal section: Box extension



## Sections for crank drive (MBMA)

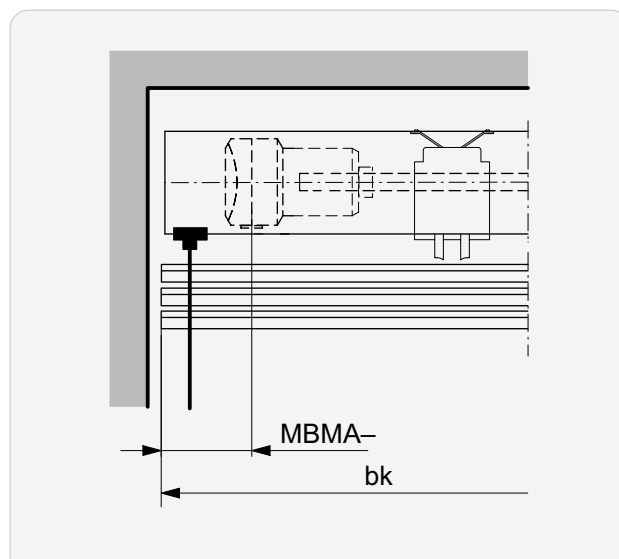
outside bk



### MBMA+<sup>1</sup>

20 ... 999

within bk



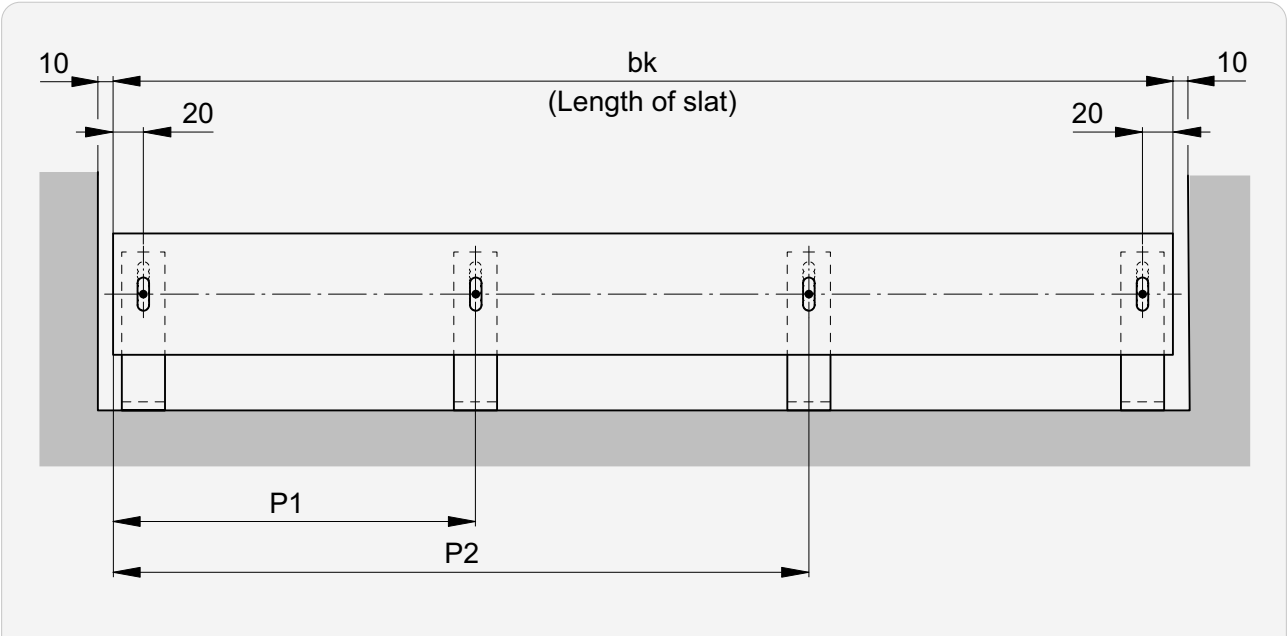
### MBMA-

80 ... (bk/2)

<sup>1</sup> With 20 ... 44, provide sufficient niche depth for the box extension (min. 80).

Additional cables

**i** Additional cables must be fitted for a  $bk > 3000$  and in locations which are exposed to high wind.  
The dimensions **P1** and **P2** are measured from the left from  $bk$  and must be noted on the dimensions sheet.  
P2 does not apply for the first additional cable.



**P1** Position of first cable or cable on left  
**P2** Position of cable on right

Number of additional cables

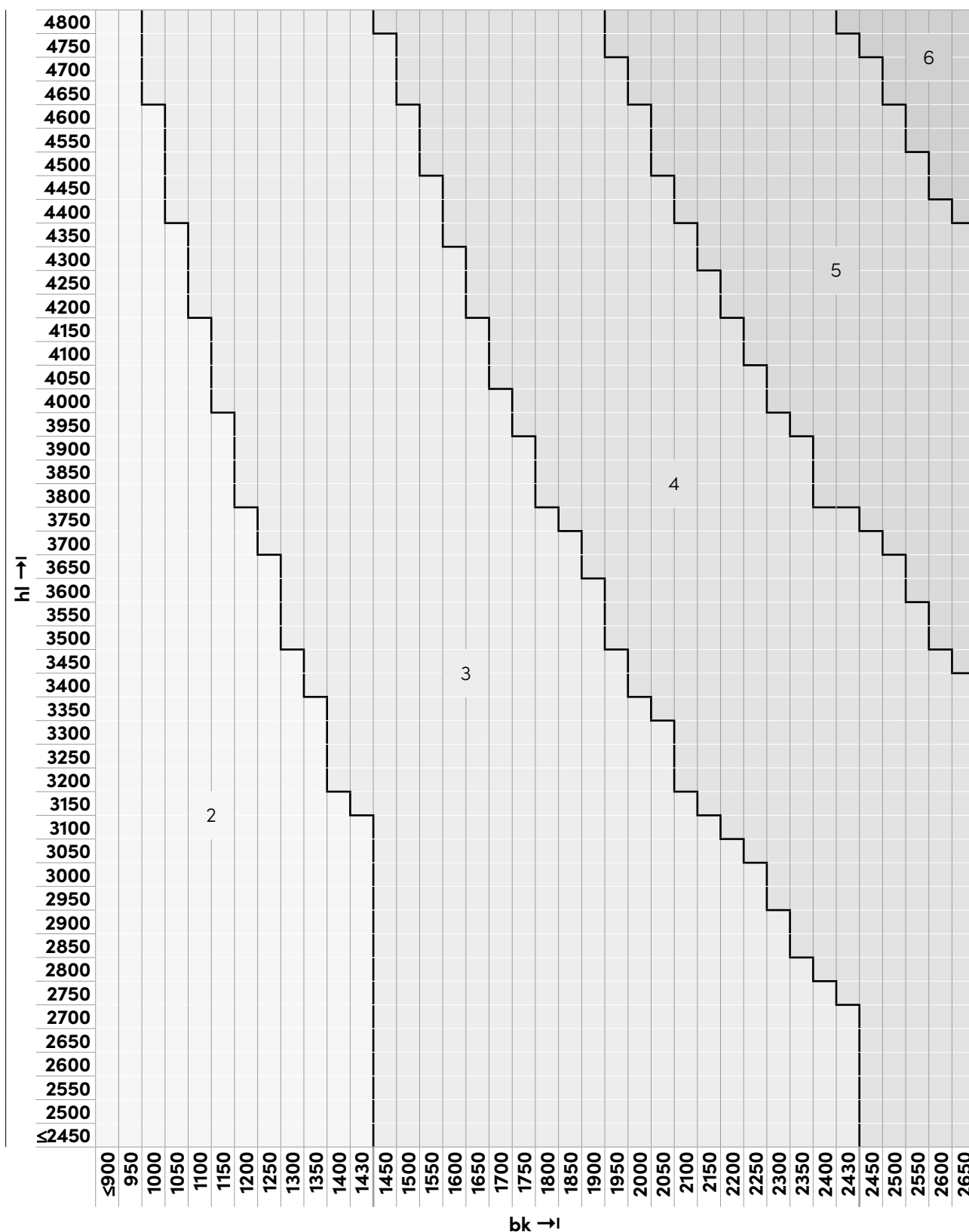
**i** If no information is provided for **P1** or **P2**, they are positioned according to the following table.

| Width max.<br>(bk) | Number of<br>additional cables | P1     | P2      |
|--------------------|--------------------------------|--------|---------|
| ≤3000              | 0                              | –      | –       |
| 3001...4000        | 1                              | (bk/2) | –       |
| >4000              | 2                              | (bk/3) | 2(bk/3) |

## Vertical connections | Standard motor position

Number of bearings

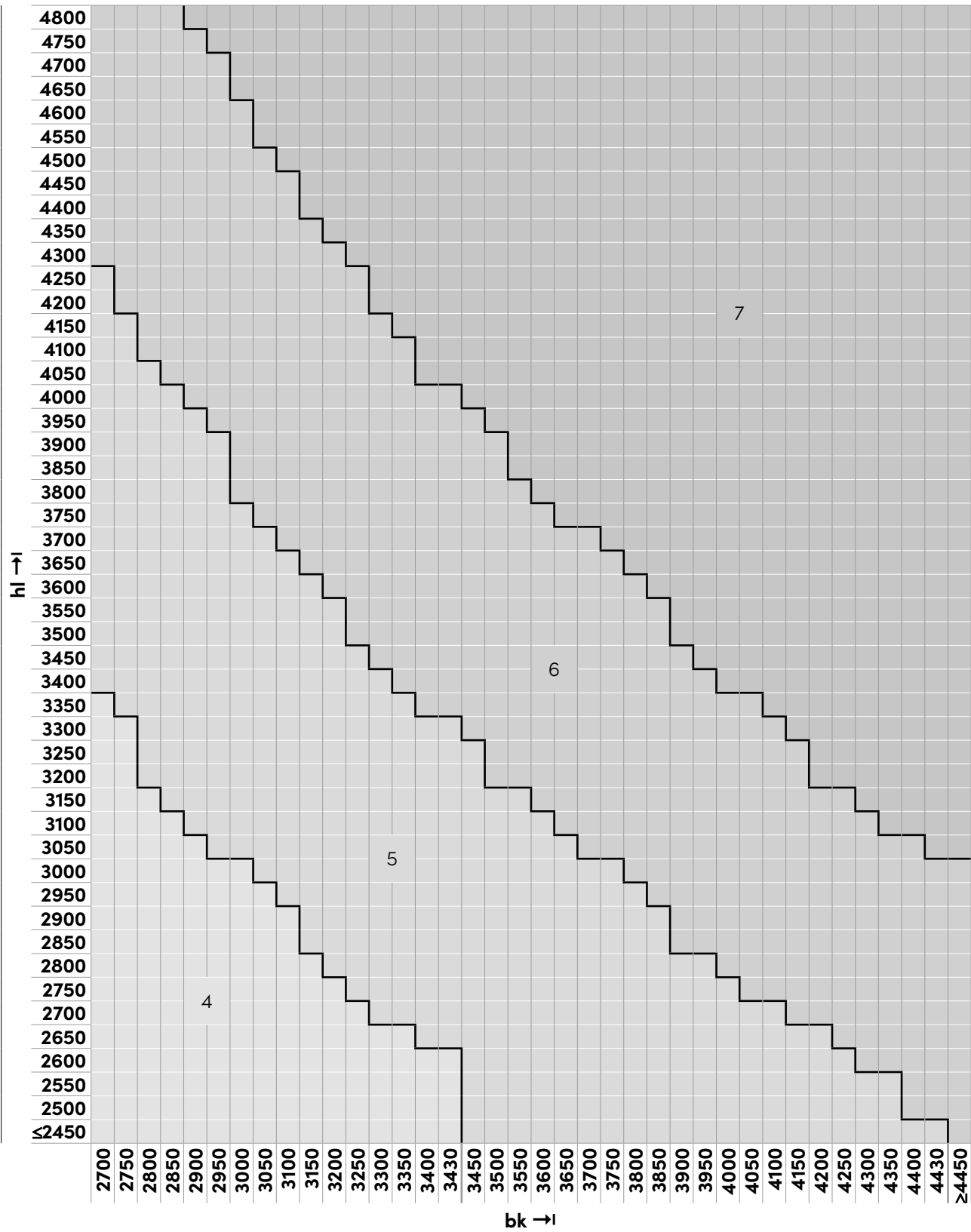
Solomatic® II 70



►► Vertical connections | Standard motor position

Number of bearings

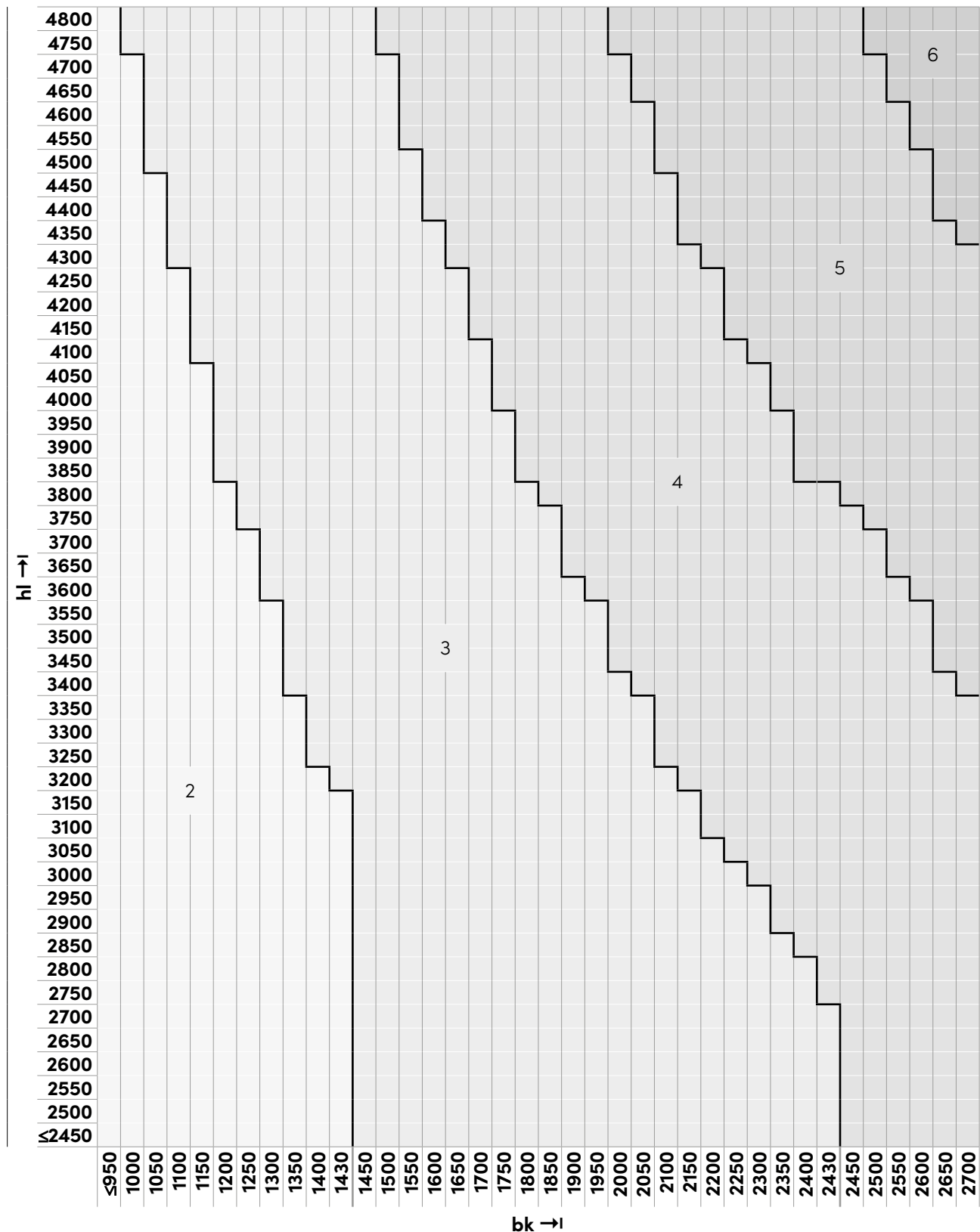
Solomatic® II 70



# ▶▶ Vertical connections | Standard motor position

Number of bearings

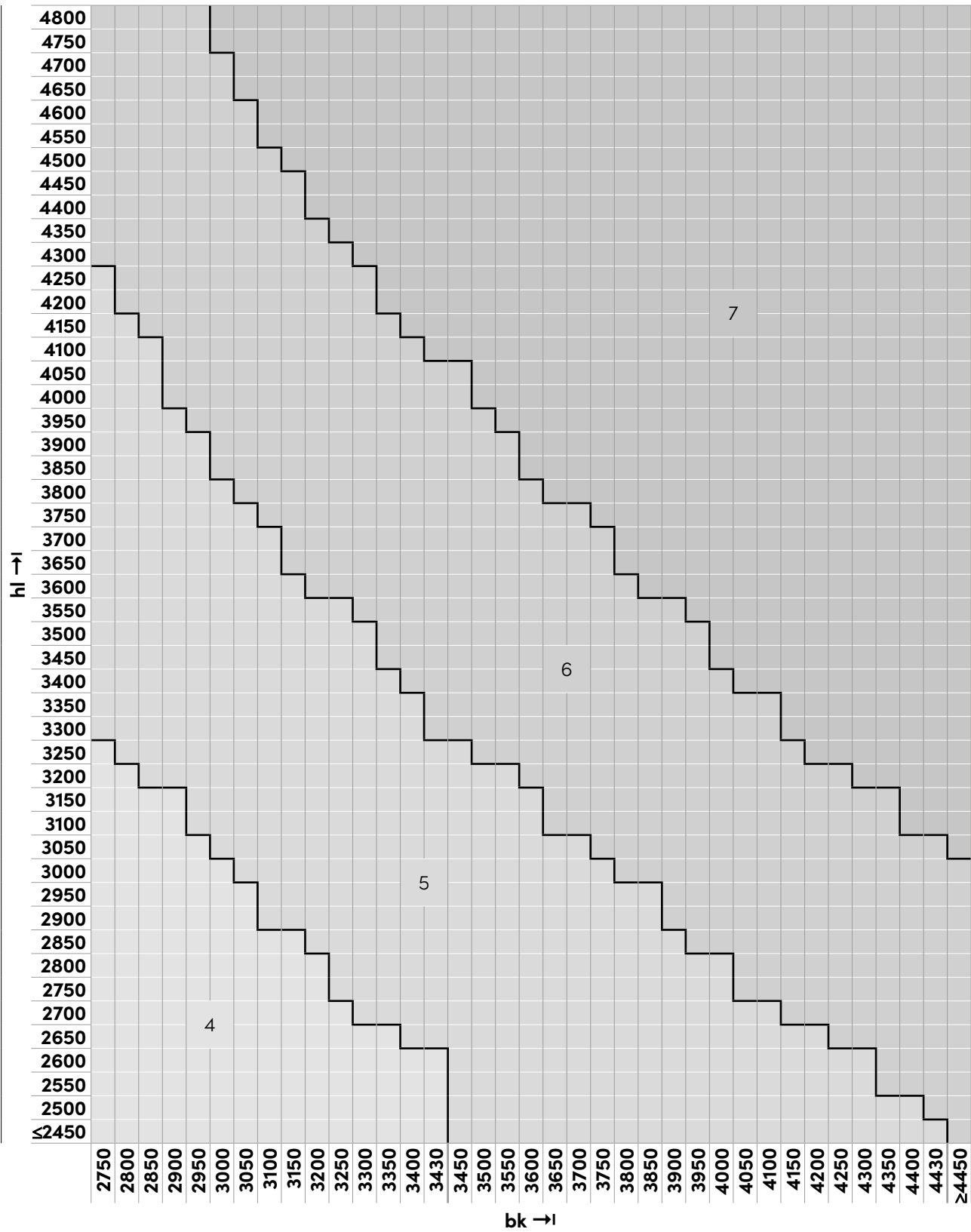
Solomatic® II 80



►► Vertical connections | Standard motor position

Number of bearings

Solomatic® II 80



## ►► Vertical connections | Standard motor position

### Standard motor position

#### Number of bearings

#### Standard motor position

2



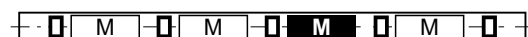
3



4



5



6



7



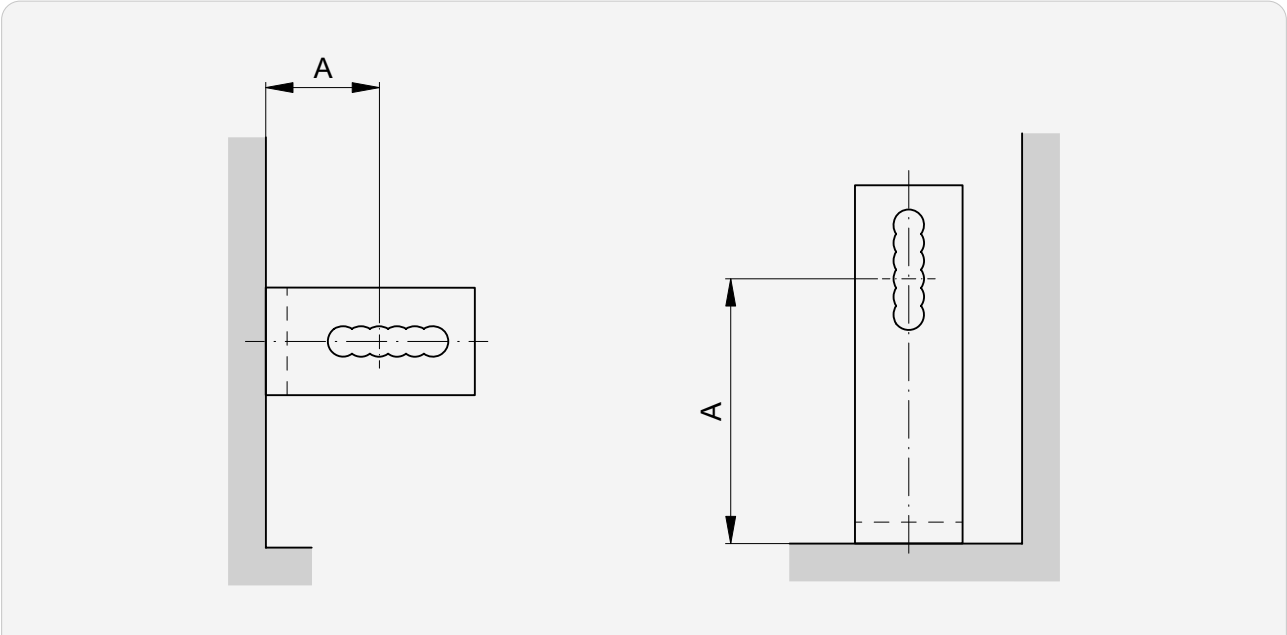
Bearing

Standard motor position

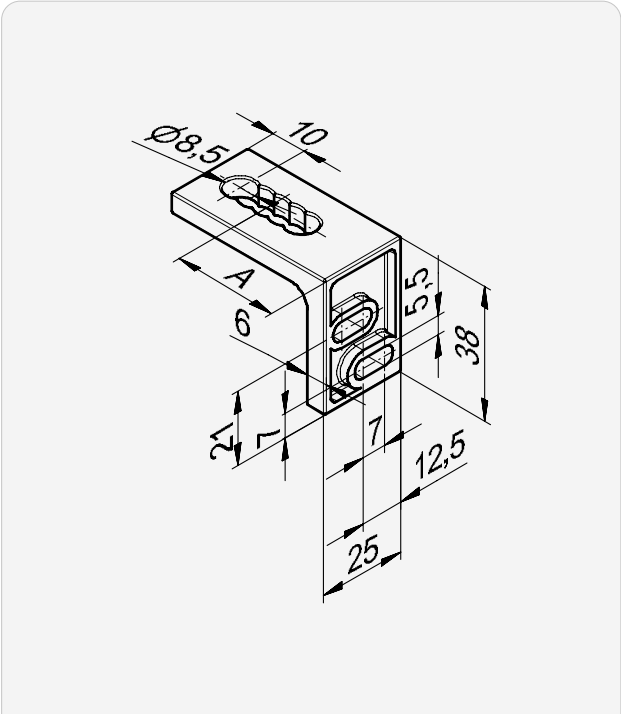
Possible motor position (on request)

Cable fastenings

**S** Soffit or facade installation

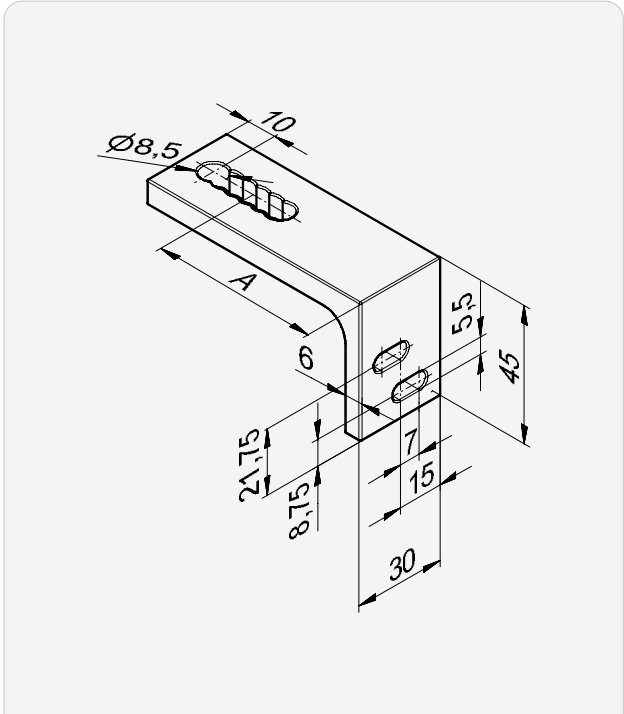


Tensioning bracket 20–40 for type S



|           |
|-----------|
| <b>A*</b> |
| 20 ... 40 |

Tensioning bracket 45–70 for type S

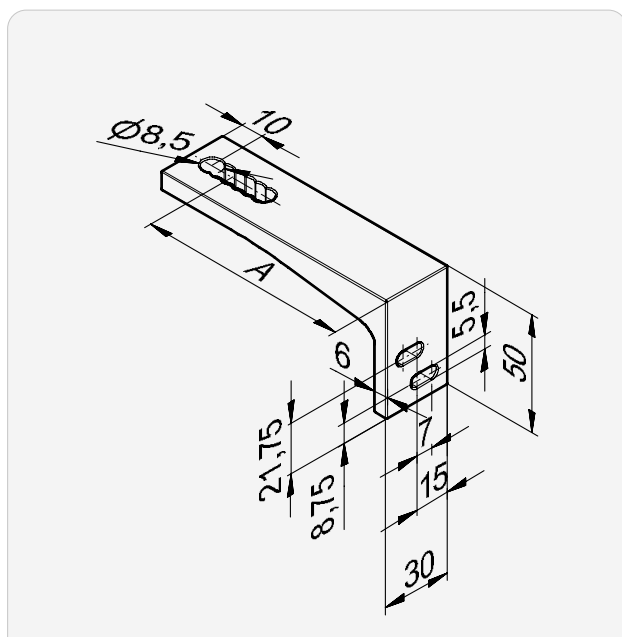


|           |
|-----------|
| <b>A*</b> |
| 45 ... 70 |

\* in 5 mm steps

## ►► Cable fastenings

Tensioning bracket 75–130 for type S

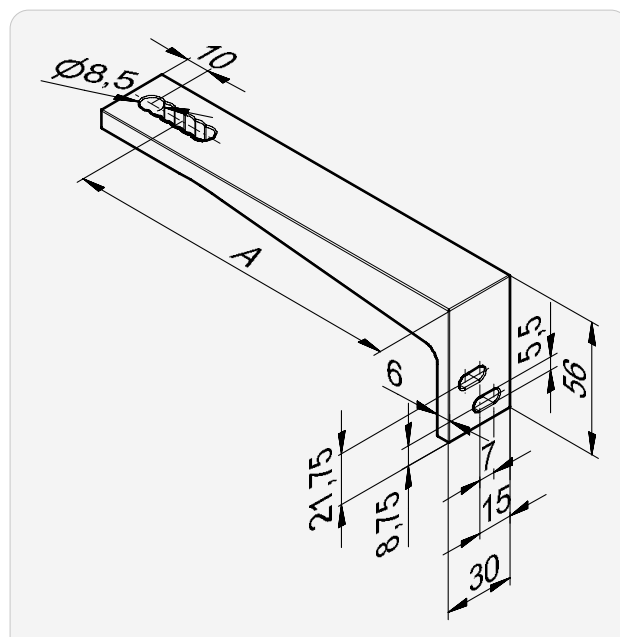


A\*

75 ... 100

105 ... 130

Tensioning bracket 135–190 for type S



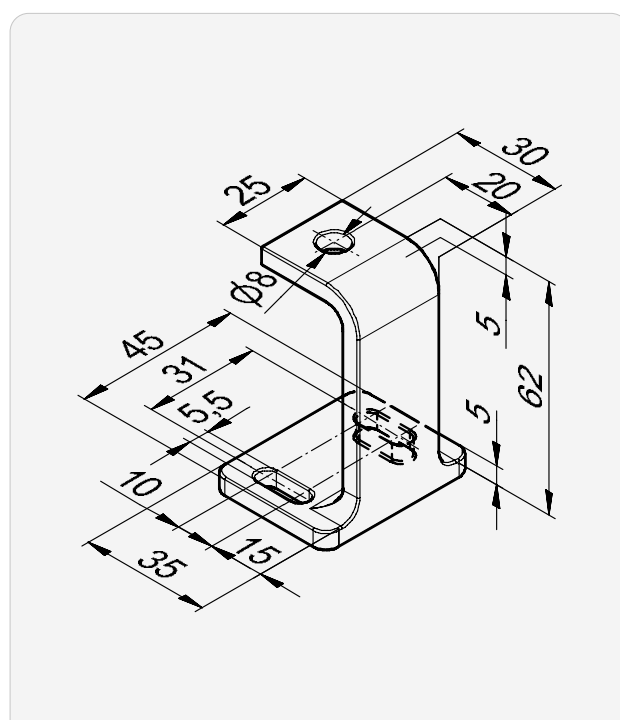
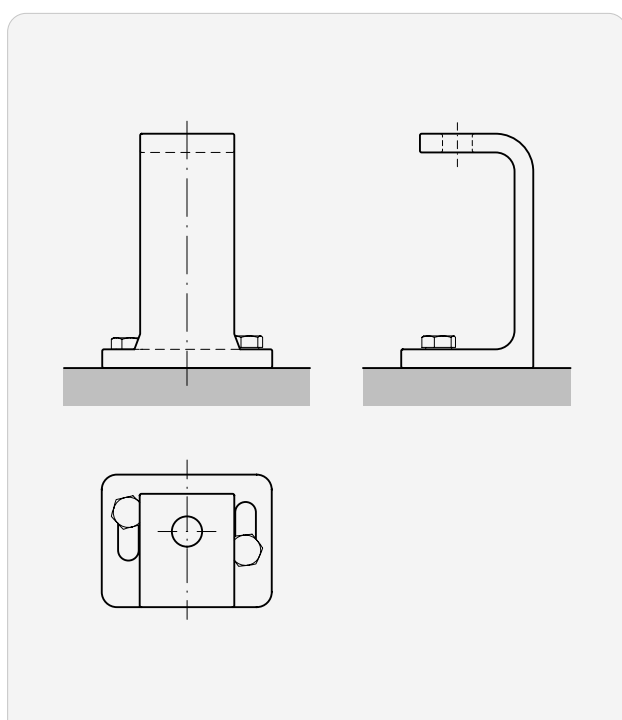
A\*

135 ... 160

165 ... 190

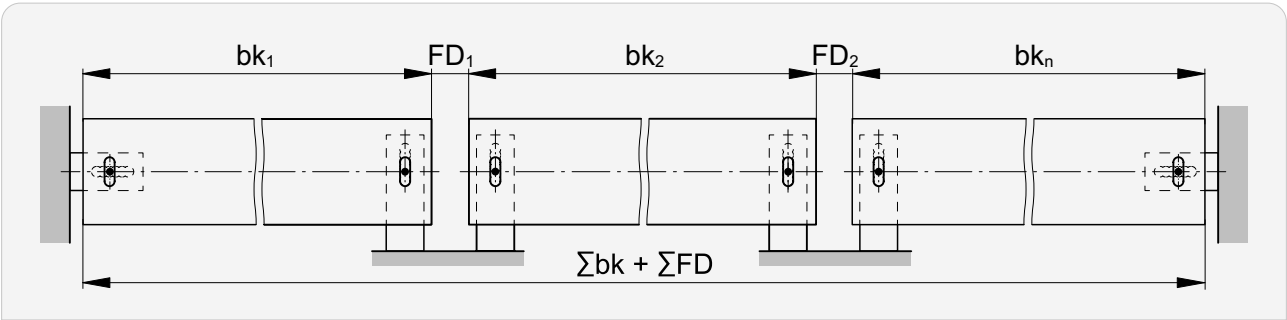
\* in 5 mm steps

## NU Windowsill installation

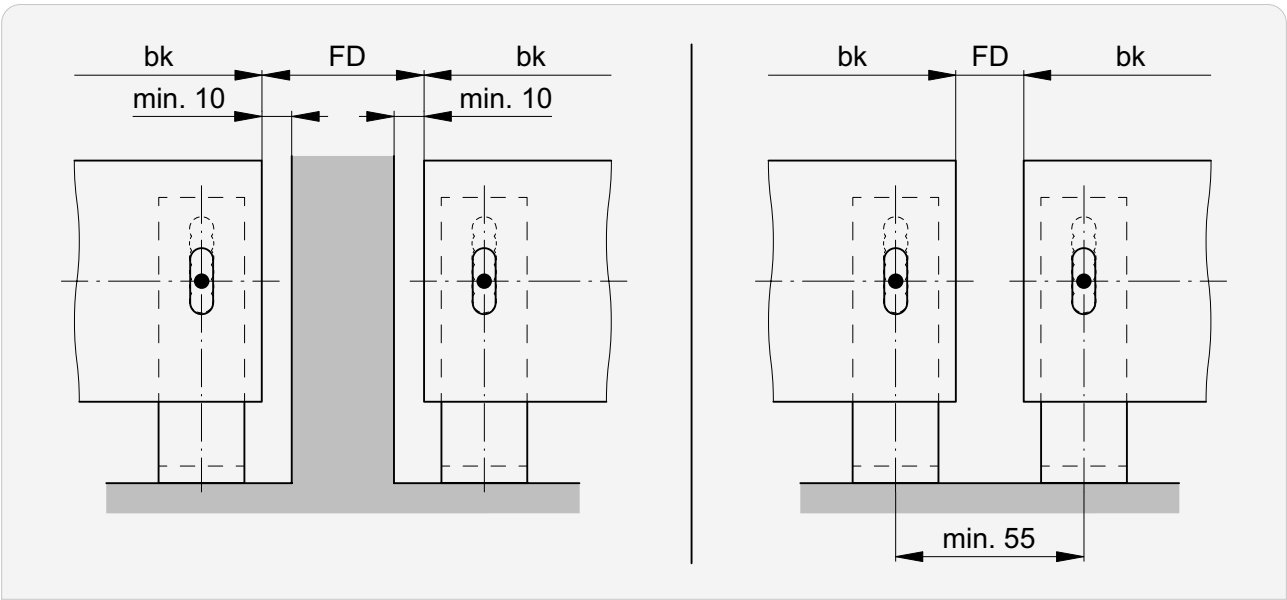


Connected systems

System width



Distance between guides FD

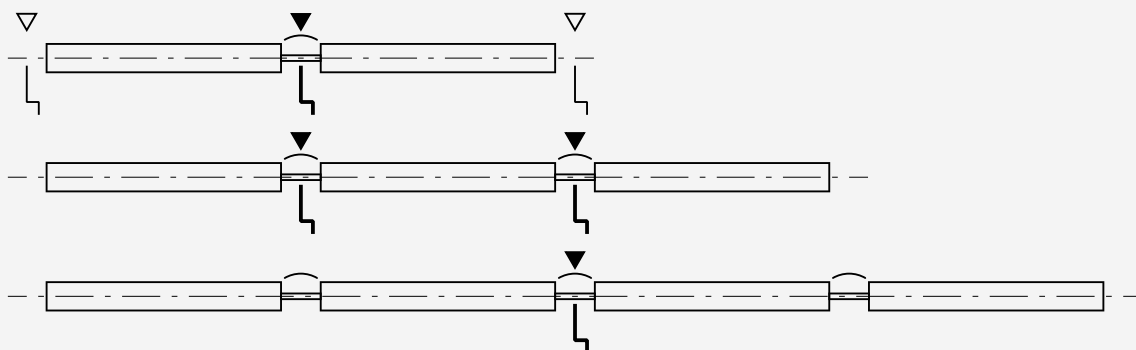


| FD min. | FD max. |
|---------|---------|
| 15      | 1000    |

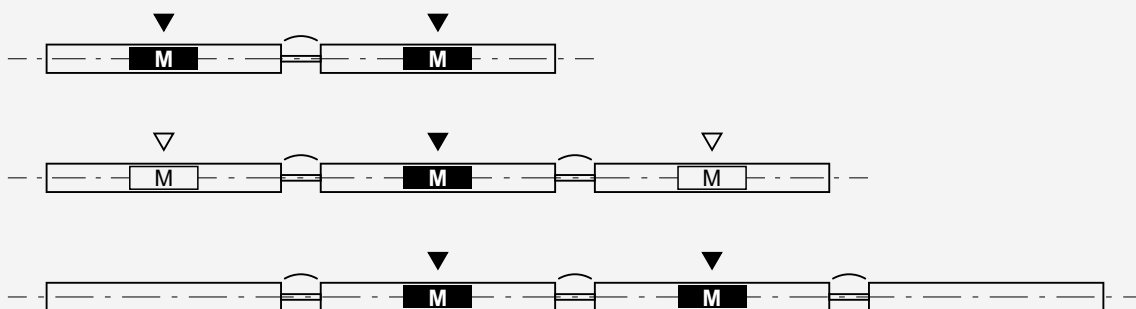
## ►► Connected systems

### Drive position

#### Gearbox



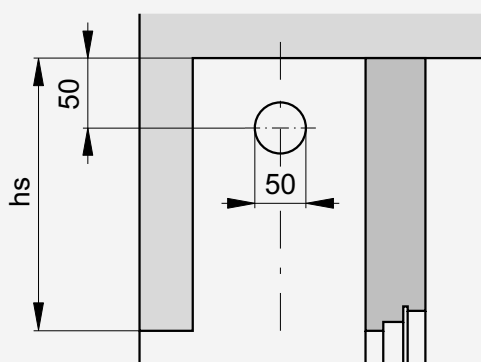
#### Motor



▼ Standard drive position

▽ Possible drive position

### Opening for connected blinds





# Solomatic® II System

|                                                |     |
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## Limit dimensions Solomatic® II System Profil

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>1</sup> max.<br>(bk)     | Height min.<br>(hl)               | Height max.<br>(hl)                                      | Surface max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|-------------------------------------|-----------------------------------|----------------------------------------------------------|-----------------------------------|
| Motor drive | 600 630 <sup>2</sup> | 4500 <sup>3</sup> 5000 <sup>4</sup> | 440 <sup>3</sup> 390 <sup>4</sup> | 4500 <sup>3</sup> 5000 <sup>4</sup><br>4000 <sup>2</sup> | 15                                |

## Limit dimensions Solomatic® II System Box

### Single blind

| Operation   | Width min.<br>(bk)   | Width <sup>1</sup> max.<br>(bk) | Height min.<br>(gh)               | Height max.<br>(gh)                                | Surface max.<br>[m <sup>2</sup> ] |
|-------------|----------------------|---------------------------------|-----------------------------------|----------------------------------------------------|-----------------------------------|
| Motor drive | 600 630 <sup>2</sup> | 4000                            | 590 <sup>3</sup> 630 <sup>4</sup> | 4845<br>4349 <sup>2,3</sup><br>4319 <sup>2,4</sup> | 15                                |

<sup>1</sup> For buildings and high-rise structures, which are exposed to high winds, this maximum value should be decreased as required. Also see wind classes data sheet.

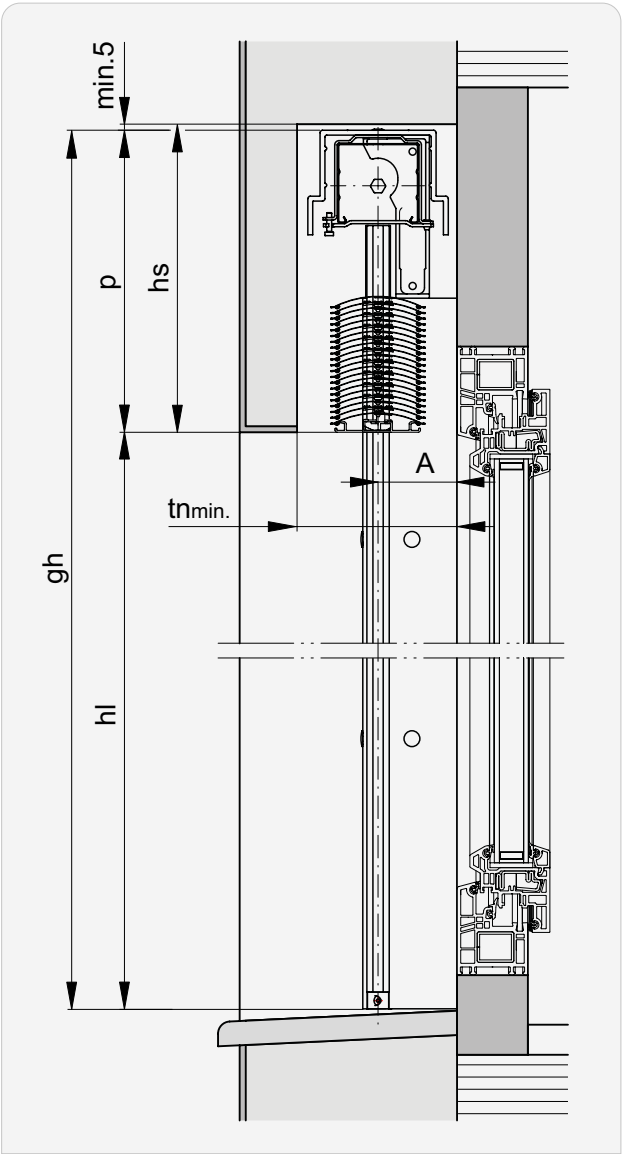
<sup>2</sup> Radio motor Geiger AIR

<sup>3</sup> Solomatic® II 70 System

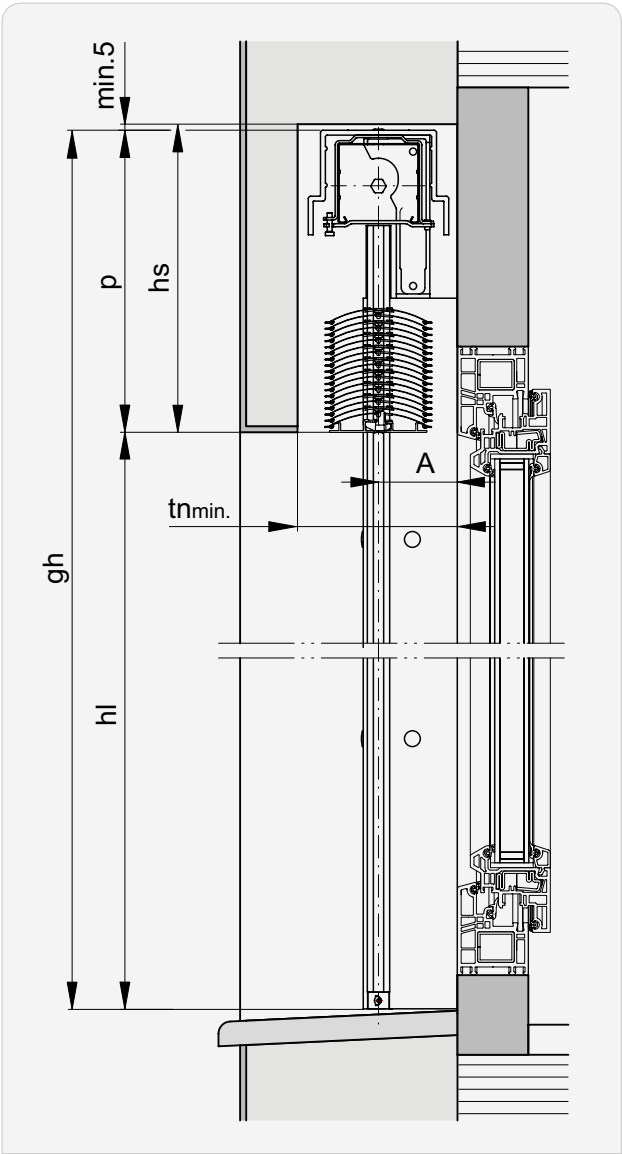
<sup>4</sup> Solomatic® II 80 System

Built-in System

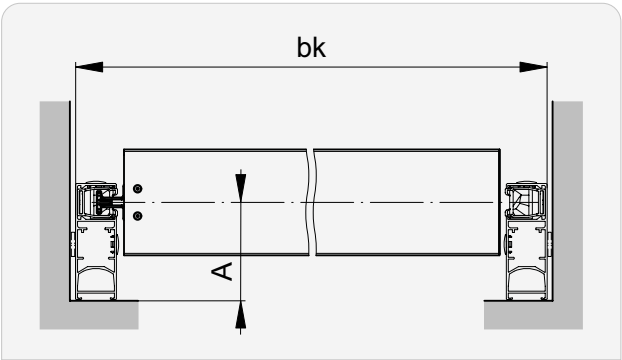
Vertical section: Solomatic® II 70 System Profil



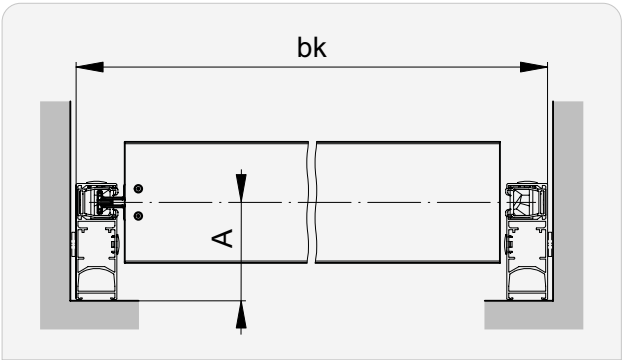
Vertical section: Solomatic® II 80 System Profil



Horizontal section: Solomatic® II 70 System Profil

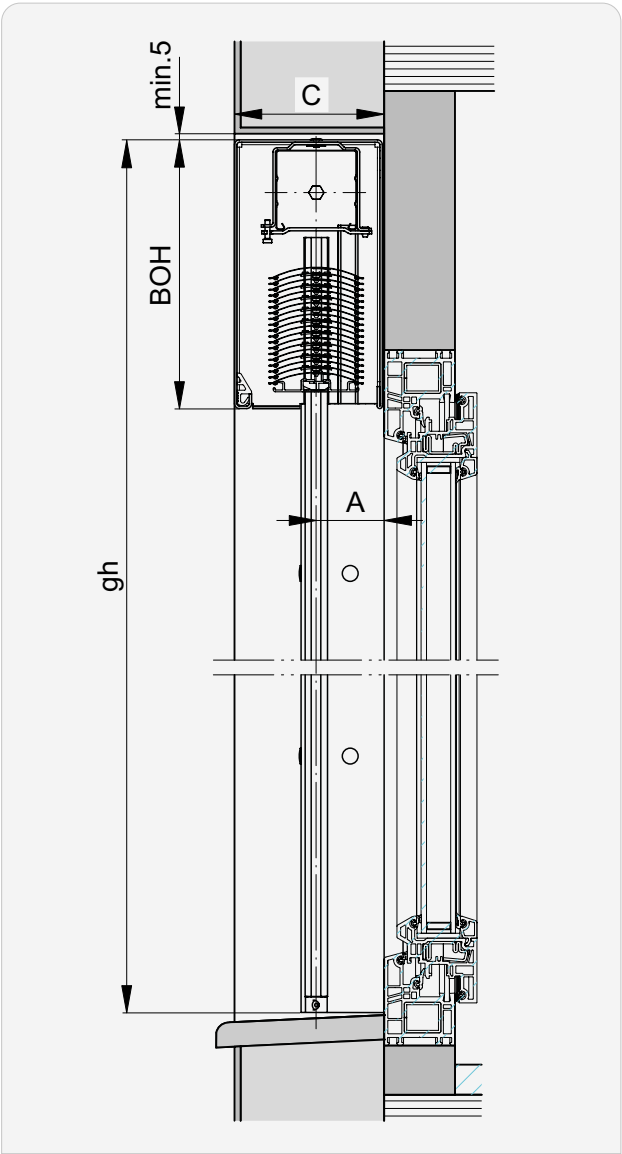


Horizontal section: Solomatic® II 80 System Profil



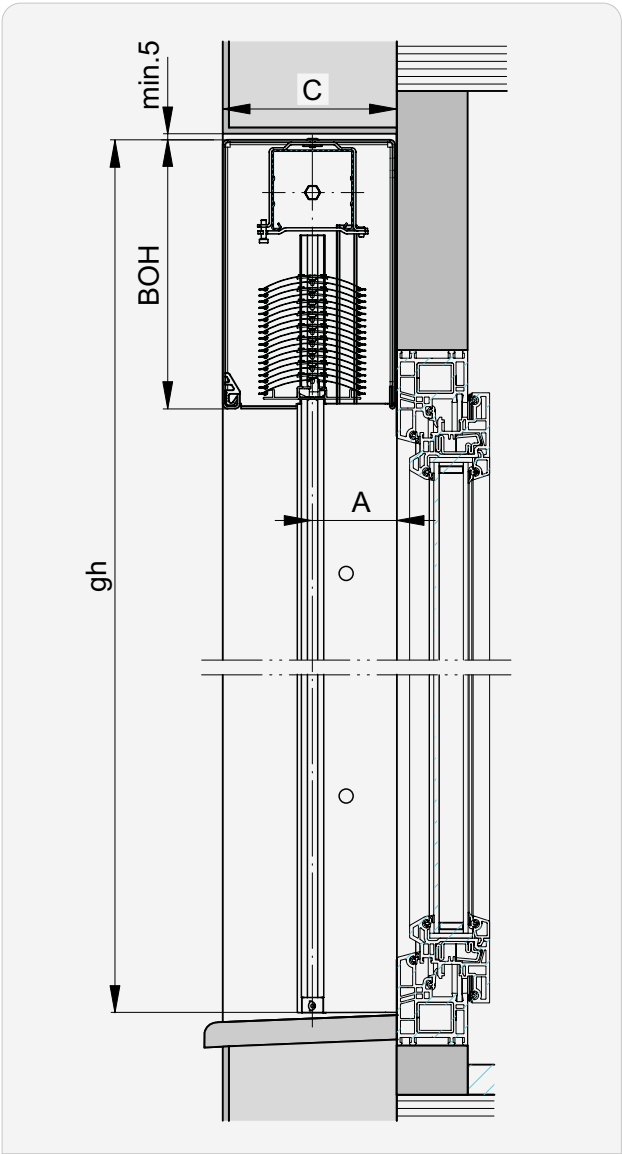
Installation system with box

Vertical section: Solomatic® II 70 System Box



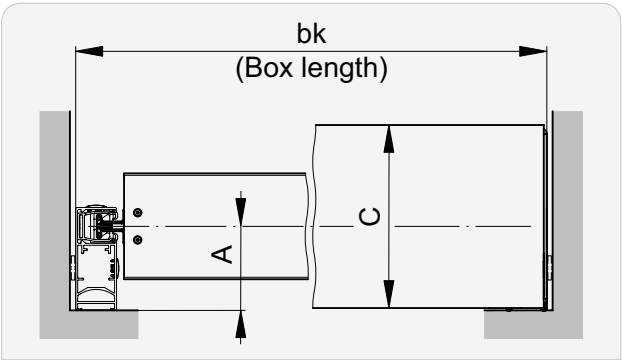
Box with slat package covered

Vertical section: Solomatic® II 80 System Box

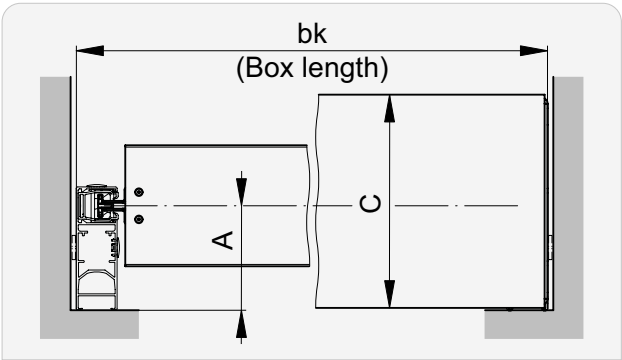


Box with slat package covered

Horizontal section: Solomatic® II 70 System Box



Horizontal section: Solomatic® II 80 System Box



## Header dimensions | Heights of package

## Solomatic® II 70 System Profil

| hl →l       | P min. | hs  | hl →l       | P min. | hs  |
|-------------|--------|-----|-------------|--------|-----|
| <b>1000</b> | 175    | 180 | <b>3000</b> | 290    | 295 |
| <b>1250</b> | 195    | 200 | <b>3250</b> | 315    | 320 |
| <b>1500</b> | 210    | 215 | <b>3500</b> | 325    | 330 |
| <b>1750</b> | 220    | 225 | <b>3750</b> | 340    | 345 |
| <b>2000</b> | 235    | 240 | <b>4000</b> | 350    | 355 |
| <b>2250</b> | 250    | 255 | <b>4250</b> | 370    | 375 |
| <b>2500</b> | 265    | 270 | <b>4500</b> | 385    | 390 |
| <b>2750</b> | 280    | 285 |             |        |     |

| tn min. | A    |
|---------|------|
| 130*    | 64.5 |

## Solomatic® II 80 System Profil

| hl →l       | P min. | hs  | hl →l       | P min. | hs  |
|-------------|--------|-----|-------------|--------|-----|
| <b>1000</b> | 180    | 185 | <b>3000</b> | 270    | 275 |
| <b>1250</b> | 185    | 190 | <b>3250</b> | 280    | 285 |
| <b>1500</b> | 195    | 200 | <b>3500</b> | 295    | 300 |
| <b>1750</b> | 210    | 215 | <b>3750</b> | 305    | 310 |
| <b>2000</b> | 220    | 225 | <b>4000</b> | 320    | 325 |
| <b>2250</b> | 235    | 240 | <b>4250</b> | 335    | 340 |
| <b>2500</b> | 245    | 250 | <b>4500</b> | 345    | 350 |
| <b>2750</b> | 255    | 260 |             |        |     |

| tn min. | A    |
|---------|------|
| 130*    | 64.5 |

## Solomatic® II 70 System Box

| gh →l       | P   | BOH              | C   | A    |
|-------------|-----|------------------|-----|------|
| <b>1490</b> | 188 | 190              |     |      |
| <b>2020</b> | 218 | 220              |     |      |
| <b>2760</b> | 258 | 260              | 121 | 55.5 |
| <b>3450</b> | 298 | 300              |     |      |
| <b>4845</b> |     | 300 <sup>1</sup> |     |      |

## Solomatic® II 80 System Box

| gh →l       | P   | BOH              | C   | A  |
|-------------|-----|------------------|-----|----|
| <b>1740</b> | 188 | 190              |     |    |
| <b>2320</b> | 218 | 220              |     |    |
| <b>3210</b> | 258 | 260              | 141 | 69 |
| <b>4000</b> | 298 | 300              |     |    |
| <b>4845</b> |     | 300 <sup>1</sup> |     |    |

<sup>1</sup> Slat package not covered (package projection)

\* + possible addition for protruding weatherboard or doorknobs.

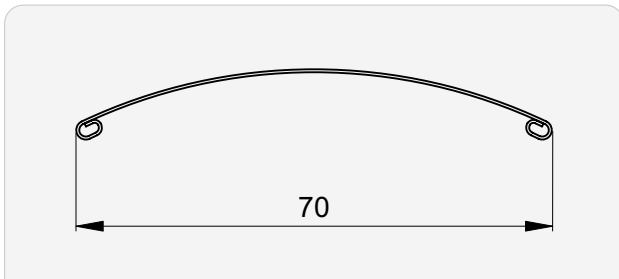


Header dimensions are approximate values which may exhibit **negative or positive deviations** depending on the technical circumstances. **A dimensional tolerance of ±5 mm** is observed for the header height.

## Slat profiles

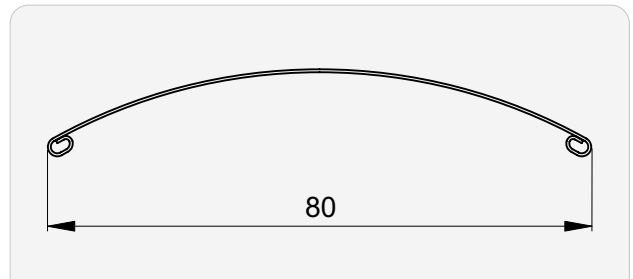
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### Solomatic® II 70 System



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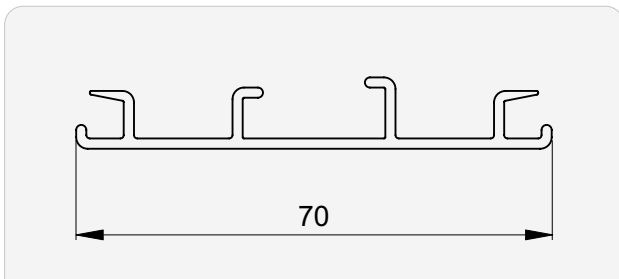
### Solomatic® II 80 System



## End rails

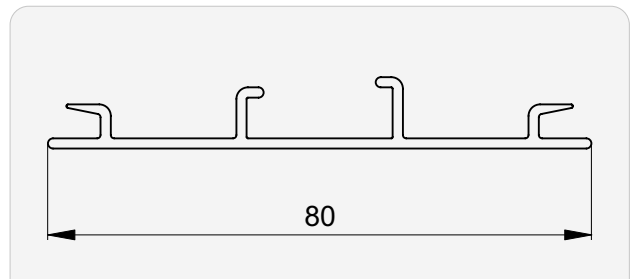
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### Solomatic® II 70 System

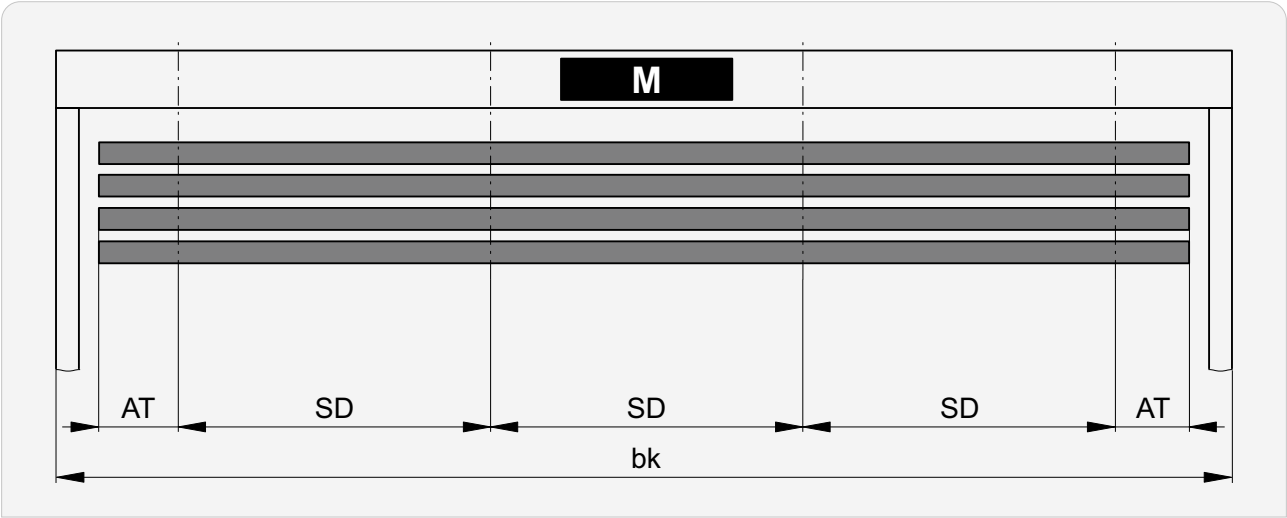


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### Solomatic® II 80 System



Beginning distance | Slot spacing



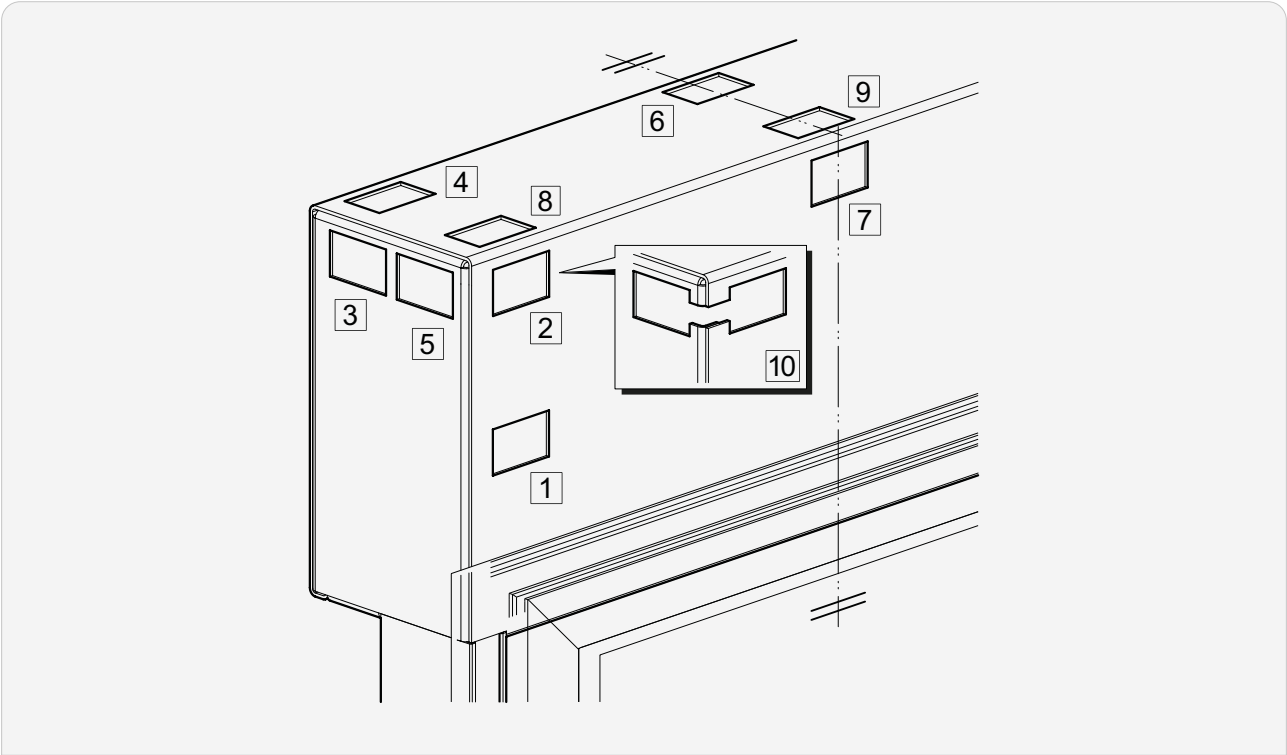
| bk         | AT min. | SD min. | SD max. |
|------------|---------|---------|---------|
| ≤610       | 50      |         |         |
| 611...1250 | 100     | 250*    | 1000*   |
| >1250      | 200     |         |         |

\* Standard slot spacing machine fabrication

Deviations from the standard are possible when:

| Deviation                | Correction |
|--------------------------|------------|
| Support loading too high | AS         |
| Slot spacing < 250       | AT + AS    |
| With motor               | AT + AS    |

Orientation of cable outlet



Solomatic® II 70 System

| Position | Cable outlet |      |     |     |     |     |      |      |      |     |
|----------|--------------|------|-----|-----|-----|-----|------|------|------|-----|
|          | Type         |      |     |     |     |     |      |      |      |     |
|          | 1            | 2    | 3   | 4   | 5   | 6   | 7    | 8    | 9    | 10  |
| left     | 01L          | 02L* | 03L | 04L | 05L | –   | –    | 08L* | –    | 10L |
| centre   | –            | –    | –   | –   | –   | 06M | 07M* | –    | 09M* | –   |
| right    | 01R          | 02R* | 03R | 04R | 05R | –   | –    | 08R* | –    | 10R |

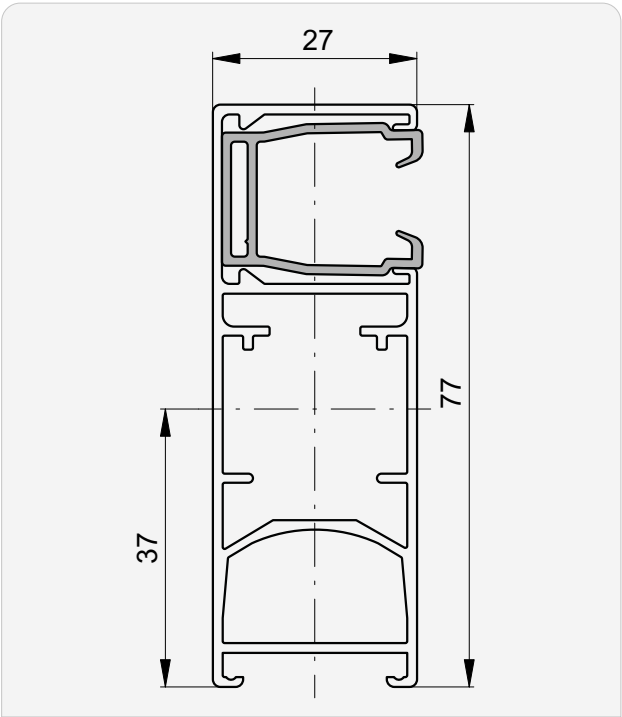
Solomatic® II 80 System

| Position | Cable outlet |      |     |     |     |     |      |     |     |     |
|----------|--------------|------|-----|-----|-----|-----|------|-----|-----|-----|
|          | Type         |      |     |     |     |     |      |     |     |     |
|          | 1            | 2    | 3   | 4   | 5   | 6   | 7    | 8   | 9   | 10  |
| left     | 01L          | 02L* | 03L | 04L | 05L | –   | –    | 08L | –   | 10L |
| centre   | –            | –    | –   | –   | –   | 06M | 07M* | –   | 09M | –   |
| right    | 01R          | 02R* | 03R | 04R | 05R | –   | –    | 08R | –   | 10R |

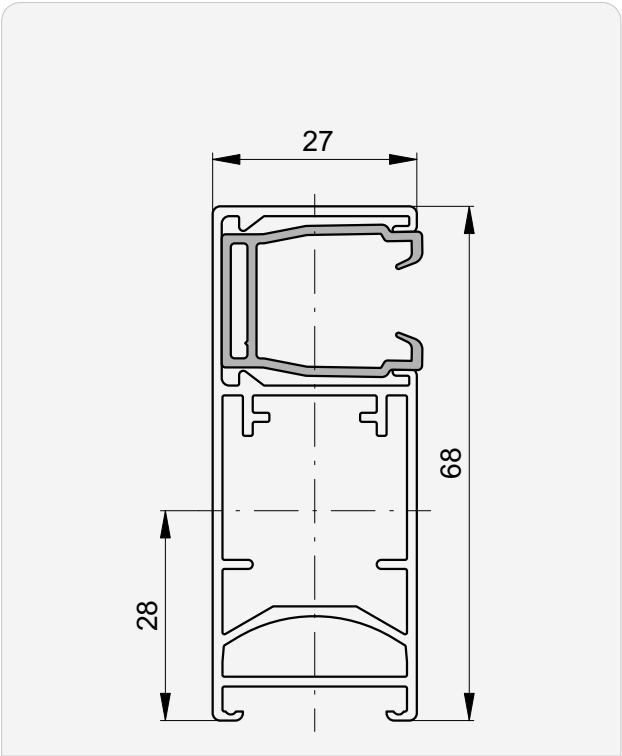
**! \*The plug cannot be passed through when assembled!**

Guide rails

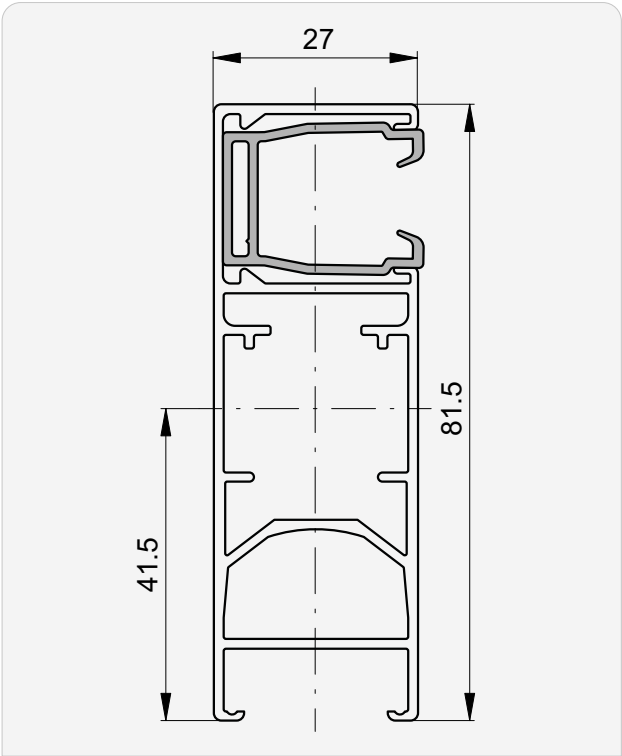
Type P | Solomatic® II 70/80 System Profil



Type K | Solomatic® II 70 System Box



Type B | Solomatic® II 80 System Box

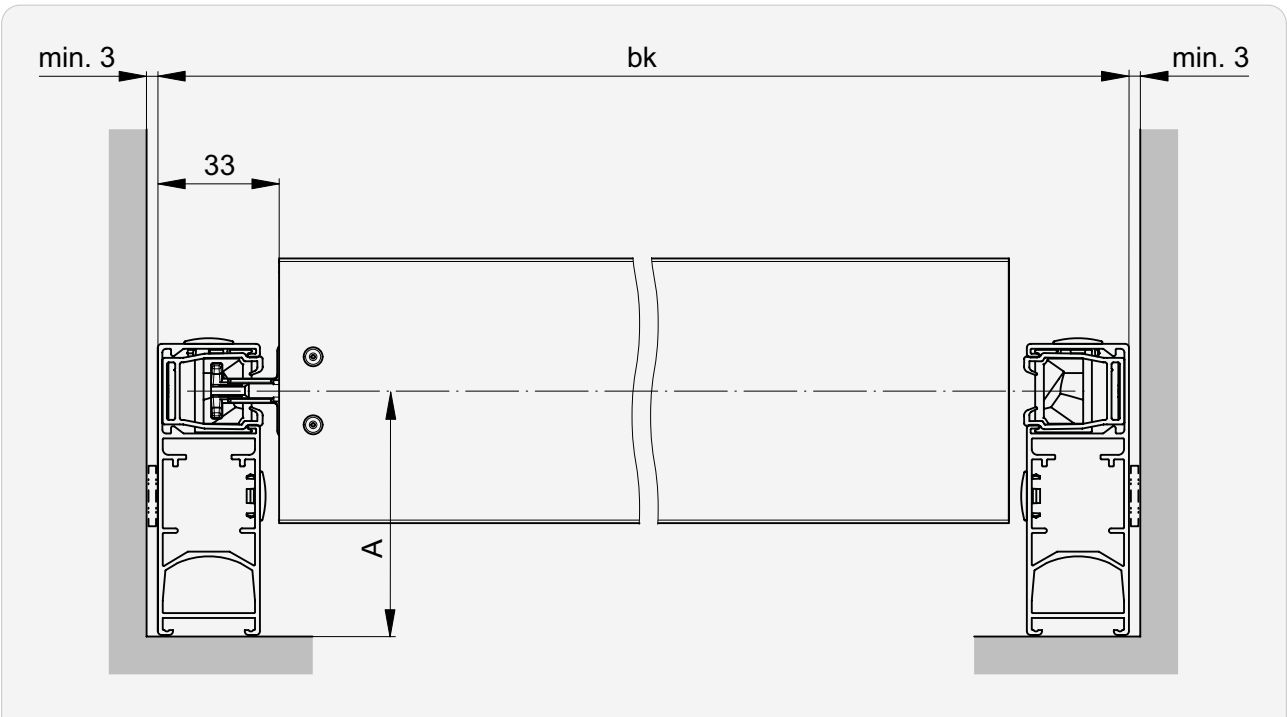


|                                 |           |
|---------------------------------|-----------|
| Fastening points.....           | 323   327 |
| Guide extension and facet ..... | 321       |

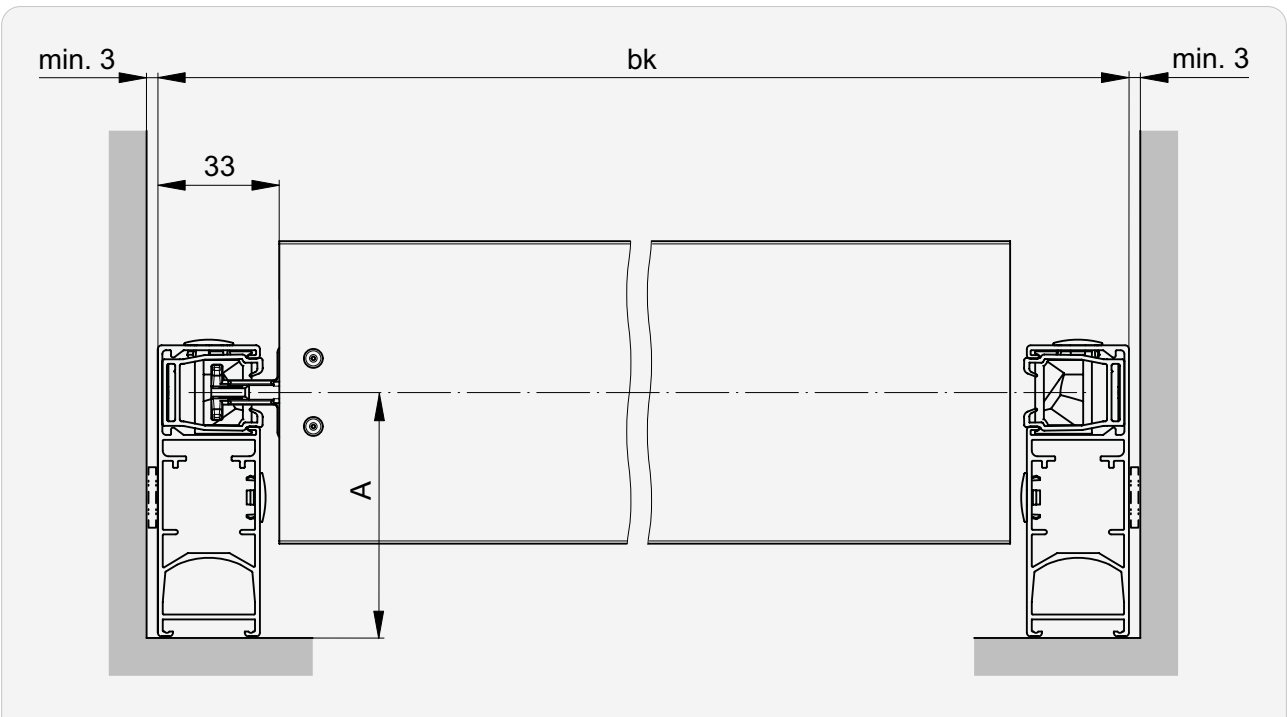
|                            |     |
|----------------------------|-----|
| Guide rail fastenings..... | 320 |
|----------------------------|-----|

Sections | Details

Horizontal section: Solomatic® II 70 System Profil



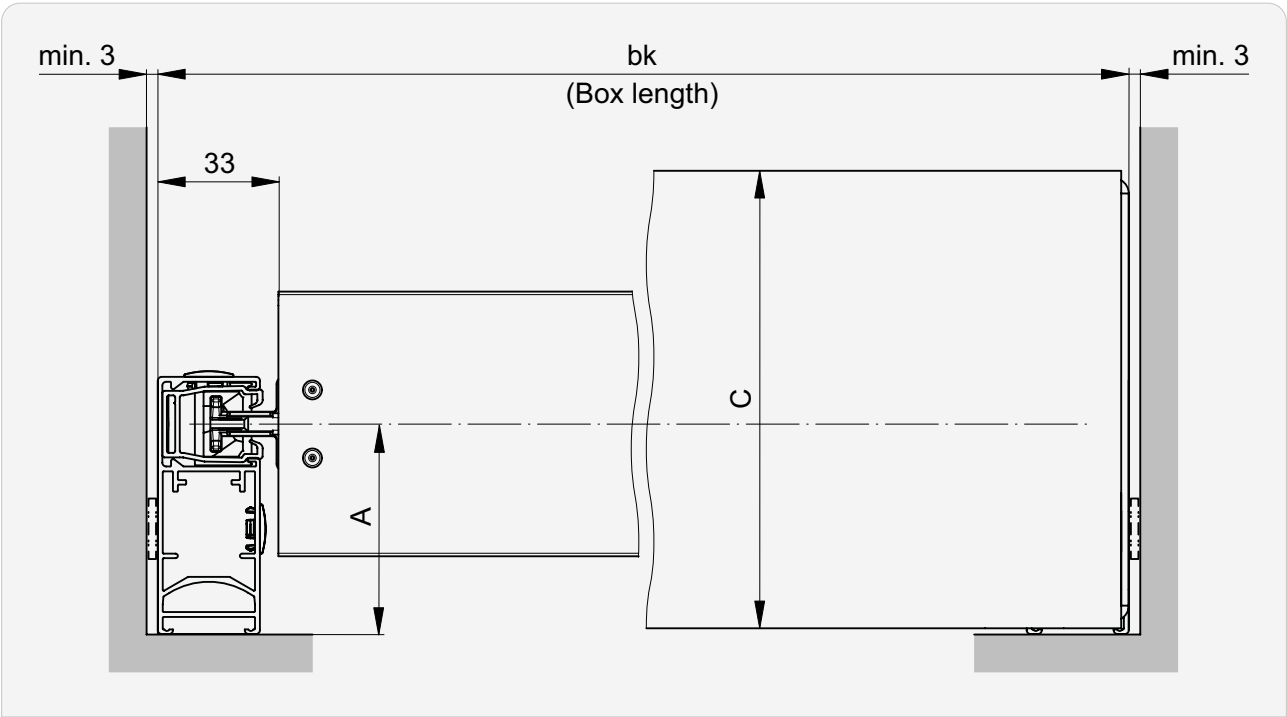
Horizontal section: Solomatic® II 80 System Profil



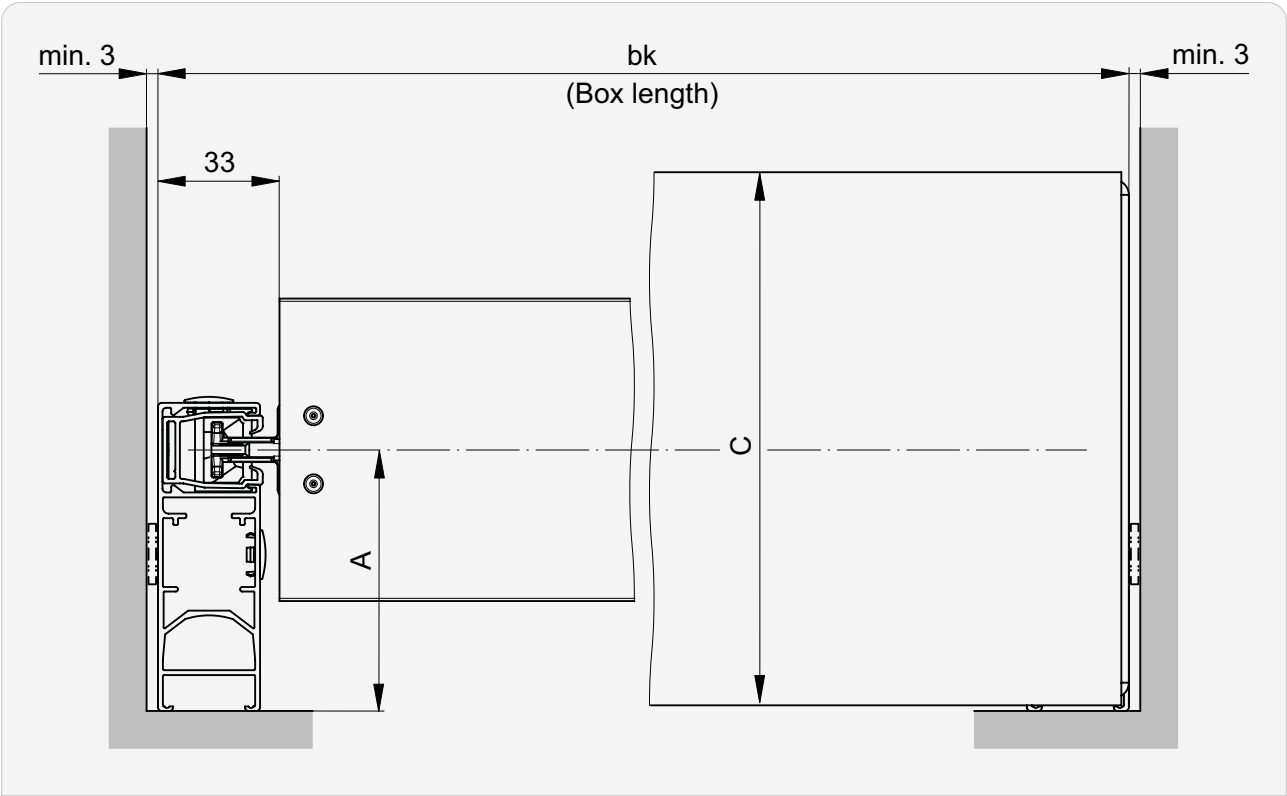
➡ Value for A ..... 307

►► Sections | Details

Horizontal section: Solomatic® II 70 System Box



Horizontal section: Solomatic® II 80 System Box

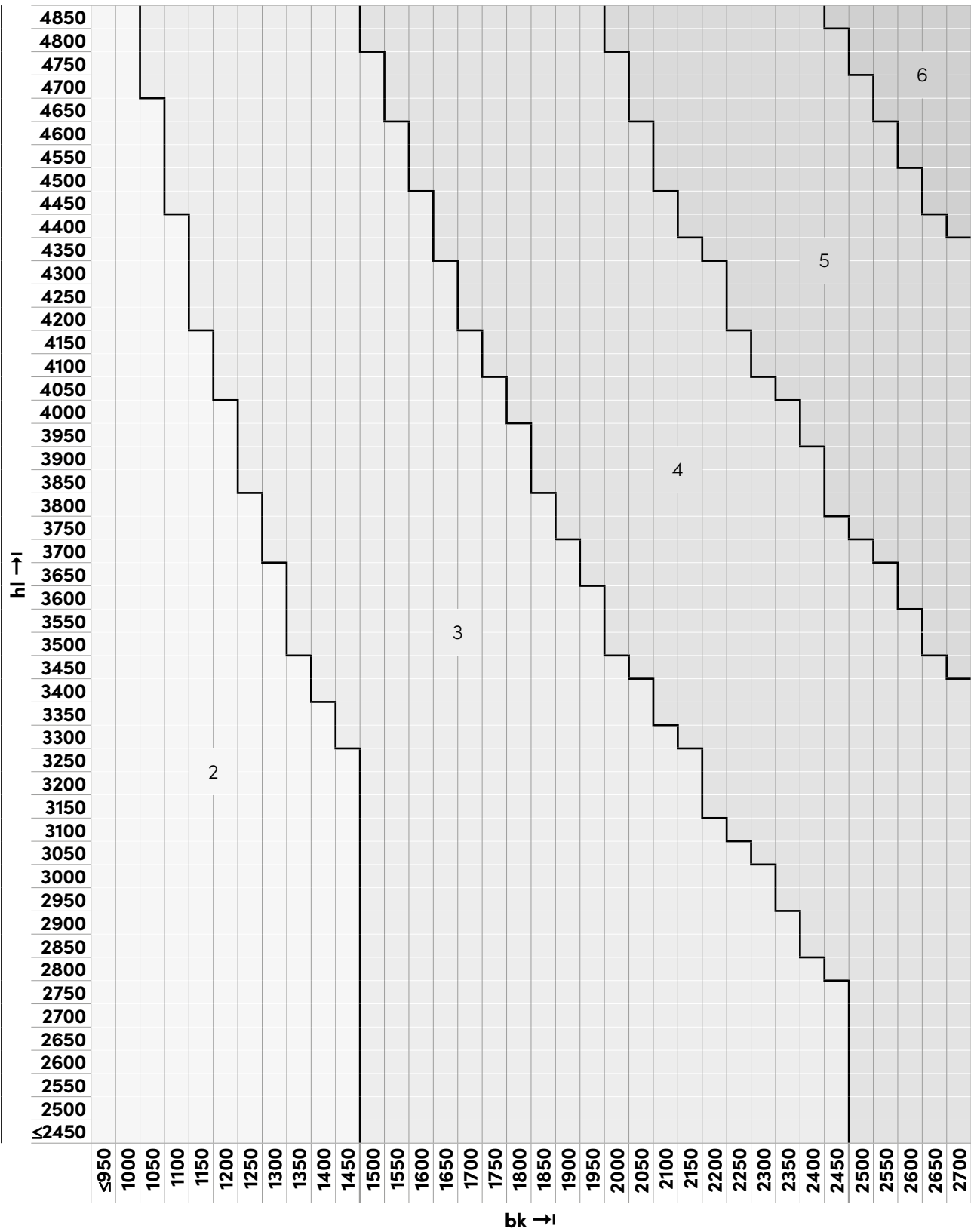


➡ Values for **A** and **C** ..... 307

Vertical connections | Standard motor position

Number of bearings

Solomatic® II 70 System



►► Vertical connections | Standard motor position

Number of bearings

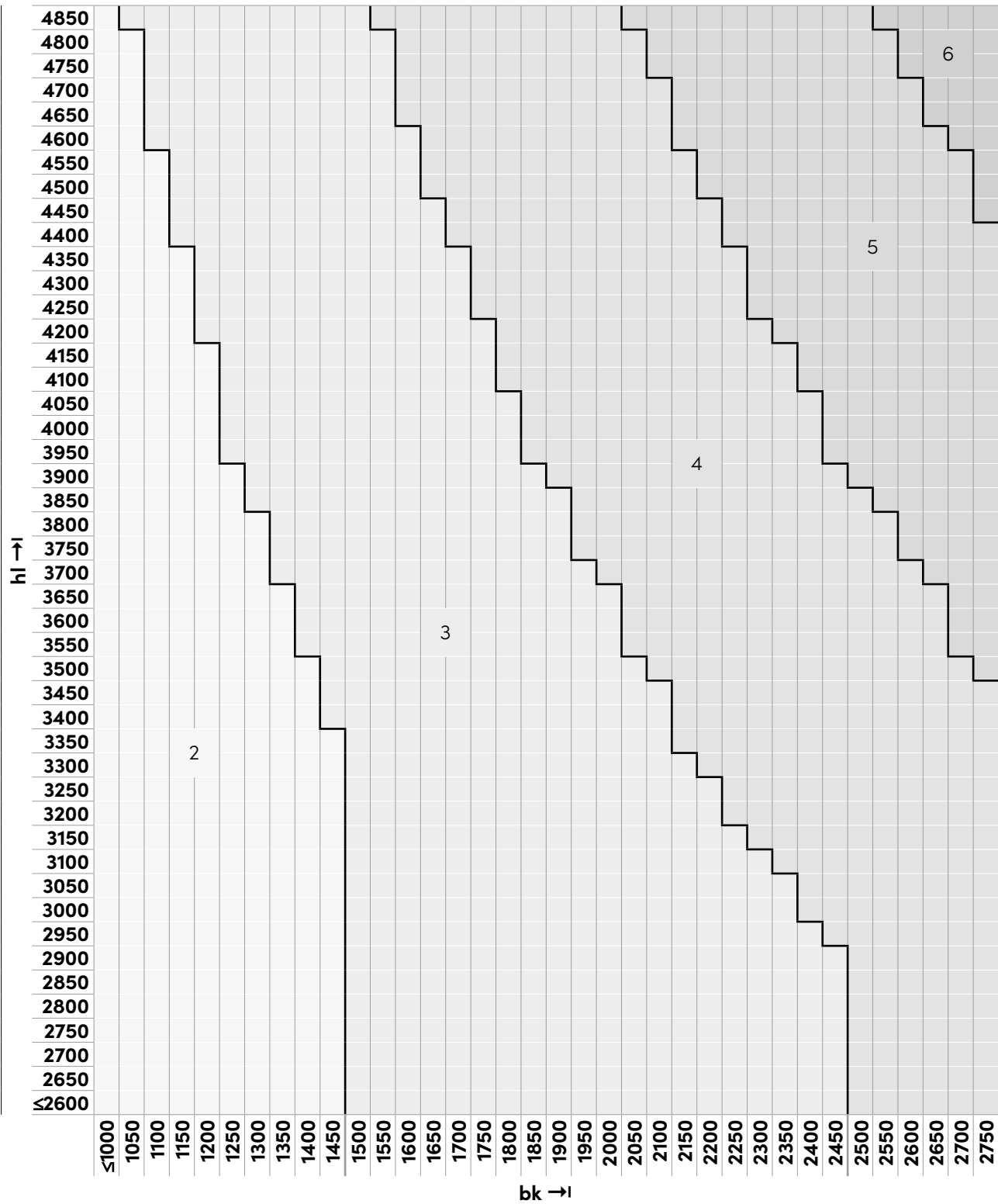
Solomatic® II 70 System



►► Vertical connections | Standard motor position

Number of bearings

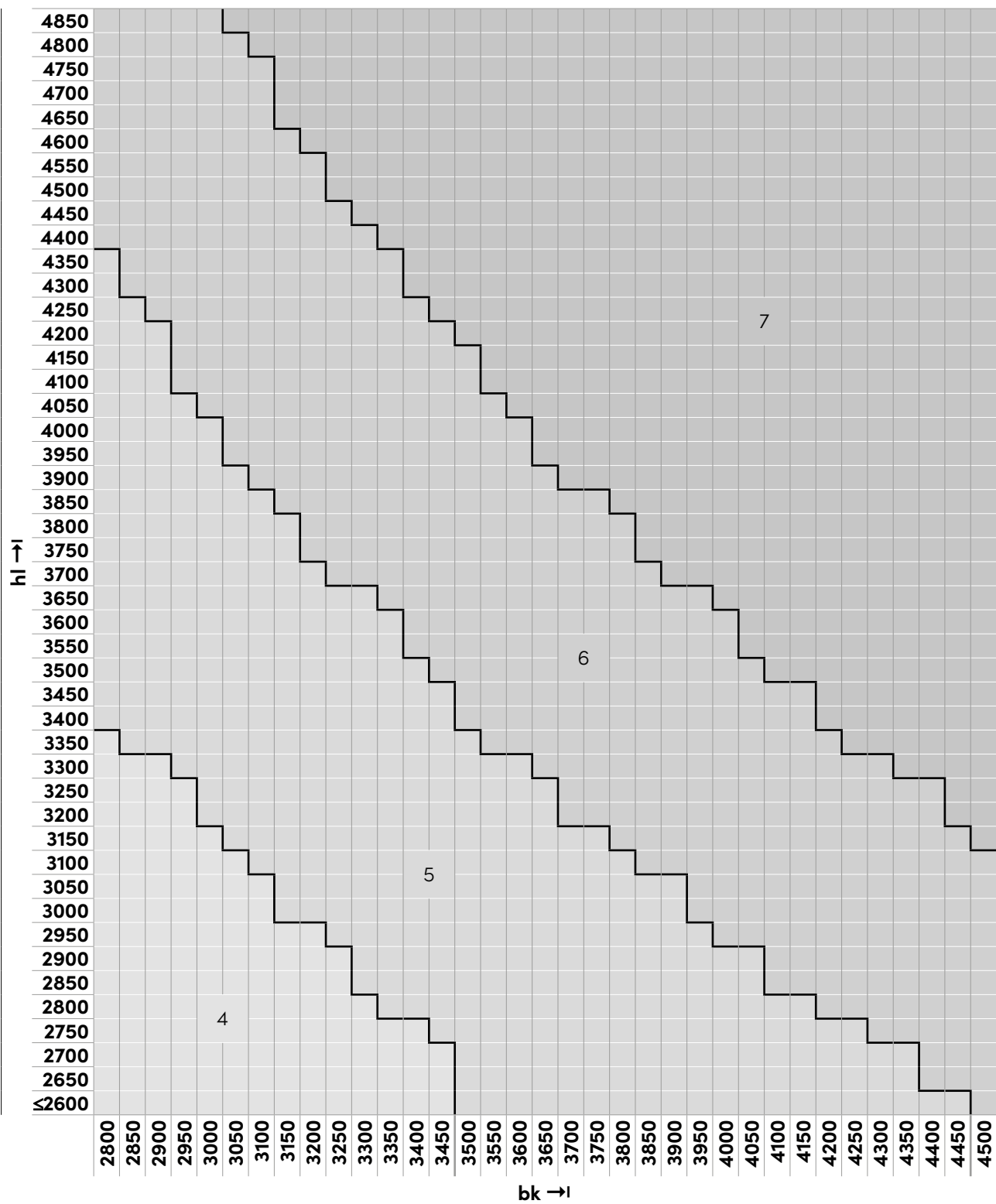
Solomatic® II 80 System



►► Vertical connections | Standard motor position

Number of bearings

Solomatic® II 80 System



►► Vertical connections | Standard motor position

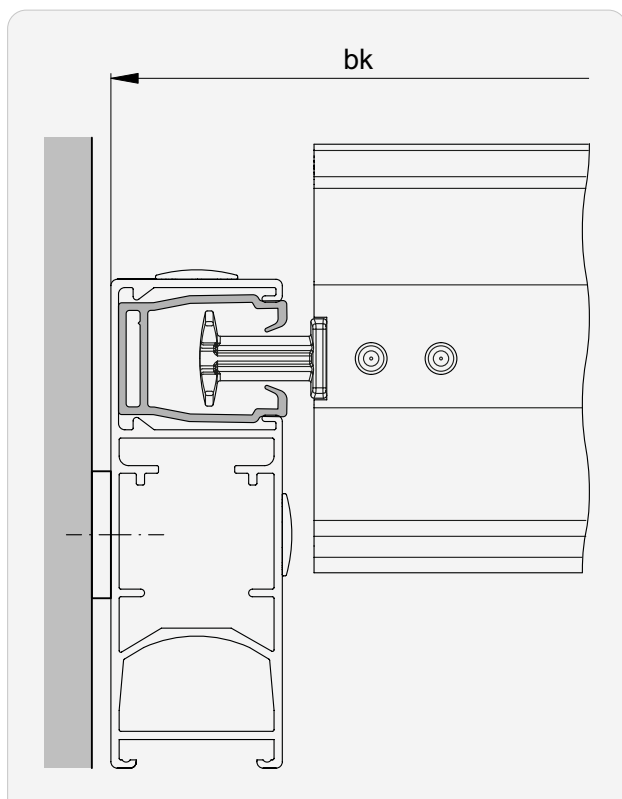
Standard motor position

| Number of bearings | Standard motor position                                                              |
|--------------------|--------------------------------------------------------------------------------------|
| 2                  |     |
| 3                  |    |
| 4                  |    |
| 5                  |    |
| 6                  |    |
| 7                  |  |

- Bearing
- M Standard motor position

## Guide rail installation (principle)

### Guides attached (to soffit) | Type A



**i** Observe possible guide rail spacer for **bk**.  
**Standard: 3 mm**

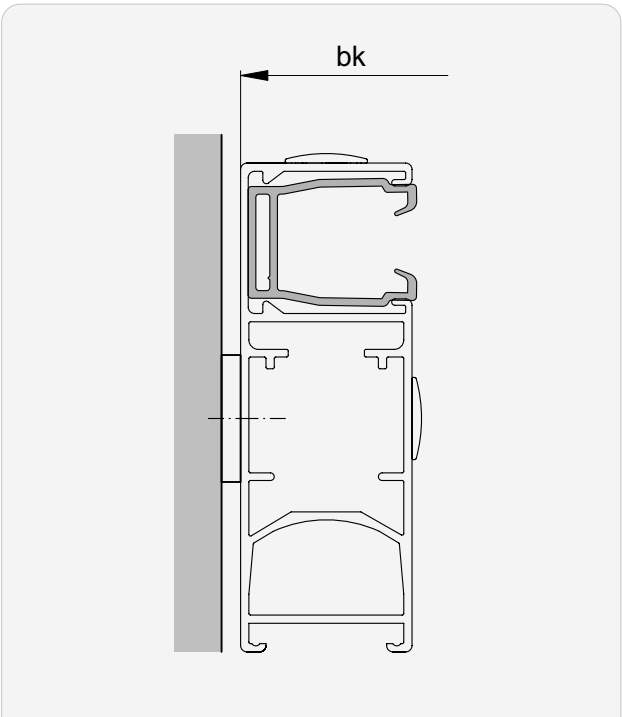
Guide rail fastenings (principle)

Overview

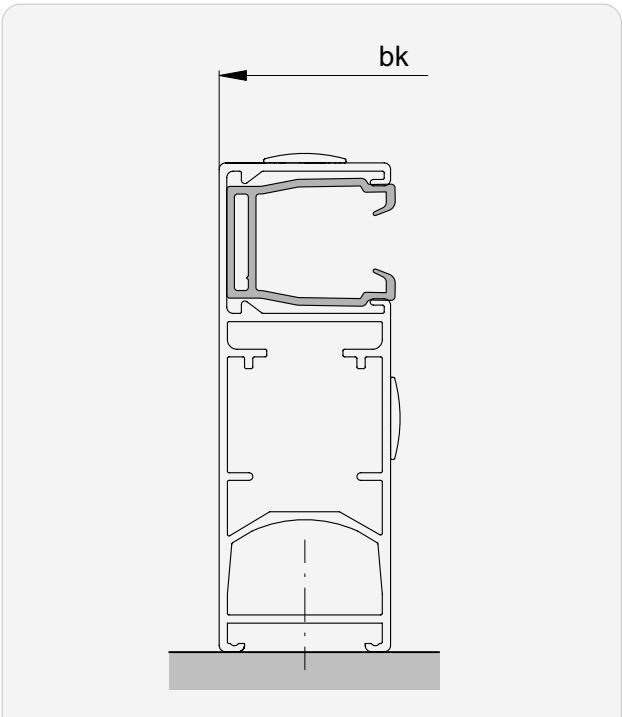
| Type |   |    |   |    |   |   |   |   |    |   |   |    |   |    |
|------|---|----|---|----|---|---|---|---|----|---|---|----|---|----|
| A    | B | Bd | C | Cd | E | F | G | H | Kv | M | T | Tv | V | Wv |
| ●    | — | —  | — | —  | — | — | ● | — | —  | — | — | —  | — | —  |

● applicable without restrictions

A Soffit installation



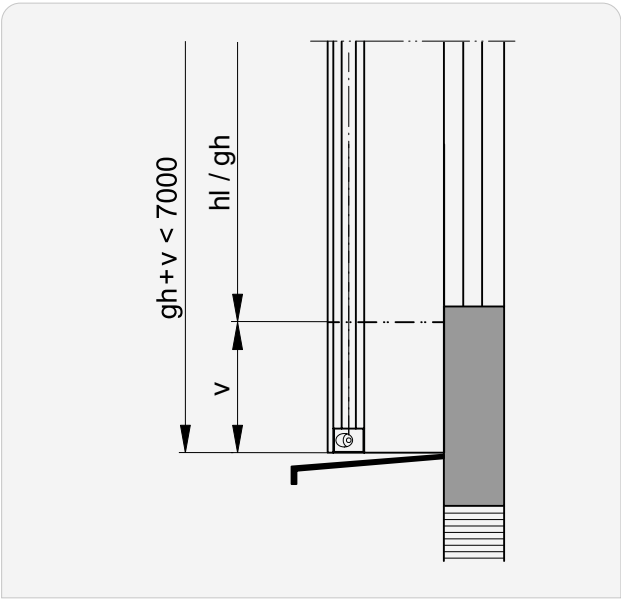
G Facade installation



**i** Observe possible guide rail spacer for **bk**.  
Standard: 3 mm

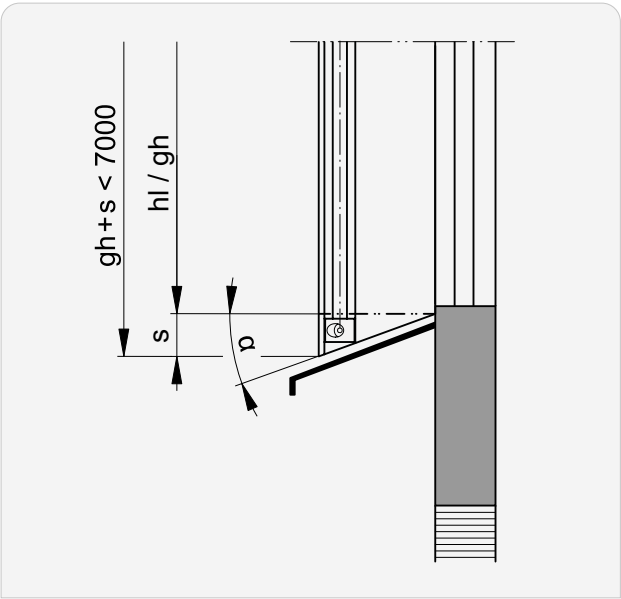
Guide extension and facet

Extension



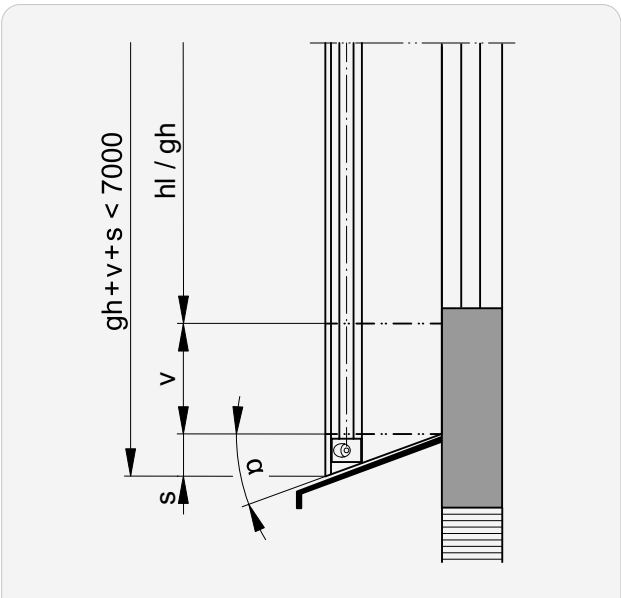
**v**  
-20 ... 1000

Facet



**α**  
5 ... 50°

Extension and facet

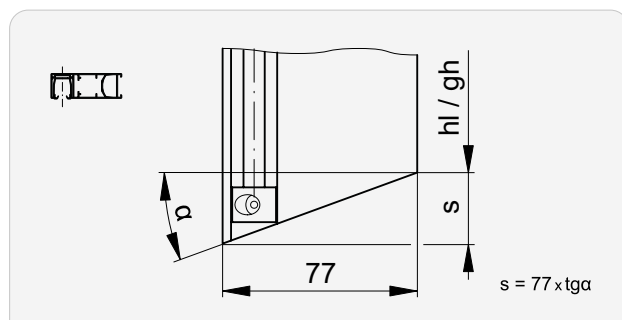


**v**  
0 ... 1000

**α**  
5 ... 50°

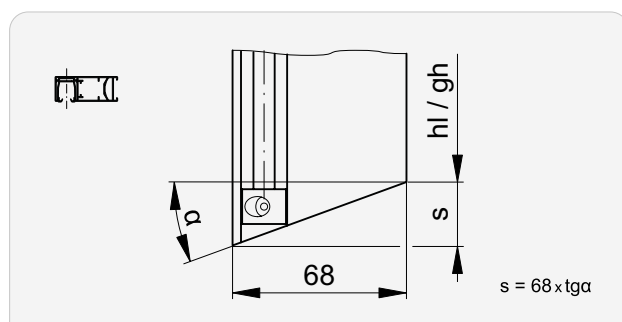
## Angling at the guides

### Type P | Solomatic® II System Profil



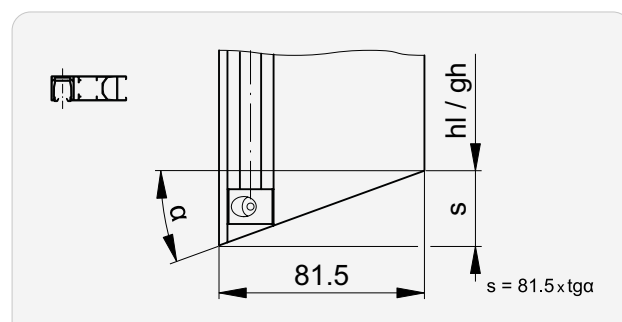
| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 7  | 15       | 21 | 25       | 36 | 35       | 54 | 45       | 77 |
| 6        | 8  | 16       | 22 | 26       | 38 | 36       | 56 | 46       | 80 |
| 7        | 9  | 17       | 24 | 27       | 39 | 37       | 58 | 47       | 83 |
| 8        | 11 | 18       | 25 | 28       | 41 | 38       | 60 | 48       | 86 |
| 9        | 12 | 19       | 27 | 29       | 43 | 39       | 62 | 49       | 89 |
| 10       | 14 | 20       | 28 | 30       | 44 | 40       | 65 | 50       | 92 |
| 11       | 15 | 21       | 30 | 31       | 46 | 41       | 67 |          |    |
| 12       | 16 | 22       | 31 | 32       | 48 | 42       | 69 |          |    |
| 13       | 18 | 23       | 33 | 33       | 50 | 43       | 72 |          |    |
| 14       | 19 | 24       | 34 | 34       | 52 | 44       | 74 |          |    |

### Type K | Solomatic® II 70 System Box



| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 6  | 15       | 18 | 25       | 32 | 35       | 48 | 45       | 68 |
| 6        | 7  | 16       | 19 | 26       | 33 | 36       | 49 | 46       | 70 |
| 7        | 8  | 17       | 21 | 27       | 35 | 37       | 51 | 47       | 73 |
| 8        | 10 | 18       | 22 | 28       | 36 | 38       | 53 | 48       | 76 |
| 9        | 11 | 19       | 23 | 29       | 38 | 39       | 55 | 49       | 78 |
| 10       | 12 | 20       | 25 | 30       | 39 | 40       | 57 | 50       | 81 |
| 11       | 13 | 21       | 26 | 31       | 41 | 41       | 59 |          |    |
| 12       | 14 | 22       | 27 | 32       | 42 | 42       | 61 |          |    |
| 13       | 16 | 23       | 29 | 33       | 44 | 43       | 63 |          |    |
| 14       | 17 | 24       | 30 | 34       | 46 | 44       | 66 |          |    |

### Type B | Solomatic® II 80 System Box

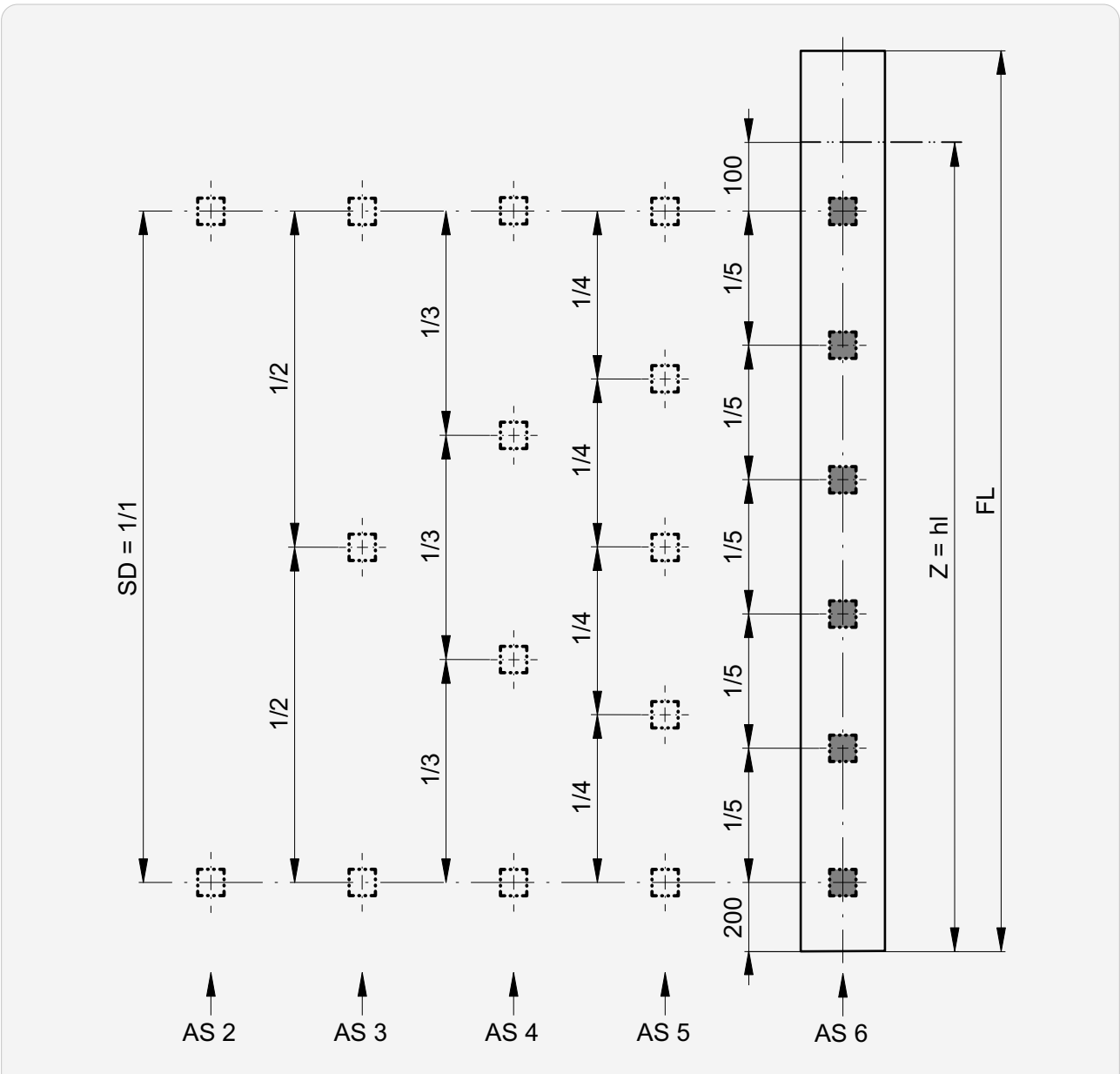


| $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  | $\alpha$ | s  |
|----------|----|----------|----|----------|----|----------|----|----------|----|
| 5        | 7  | 15       | 22 | 25       | 38 | 35       | 57 | 45       | 82 |
| 6        | 9  | 16       | 23 | 26       | 40 | 36       | 59 | 46       | 84 |
| 7        | 10 | 17       | 25 | 27       | 42 | 37       | 61 | 47       | 87 |
| 8        | 11 | 18       | 26 | 28       | 43 | 38       | 64 | 48       | 91 |
| 9        | 13 | 19       | 28 | 29       | 45 | 39       | 66 | 49       | 94 |
| 10       | 14 | 20       | 30 | 30       | 47 | 40       | 68 | 50       | 97 |
| 11       | 16 | 21       | 31 | 31       | 49 | 41       | 71 |          |    |
| 12       | 17 | 22       | 33 | 32       | 51 | 42       | 73 |          |    |
| 13       | 19 | 23       | 35 | 33       | 53 | 43       | 76 |          |    |
| 14       | 20 | 24       | 36 | 34       | 55 | 44       | 79 |          |    |

Fastening points Solomatic® II System Profil

Without extension

| Z            | AS |
|--------------|----|
| ≤1500        | 2  |
| 1501... 2700 | 3  |
| 2701... 3900 | 4  |
| 3901... 5100 | 5  |
| >5100        | 6  |



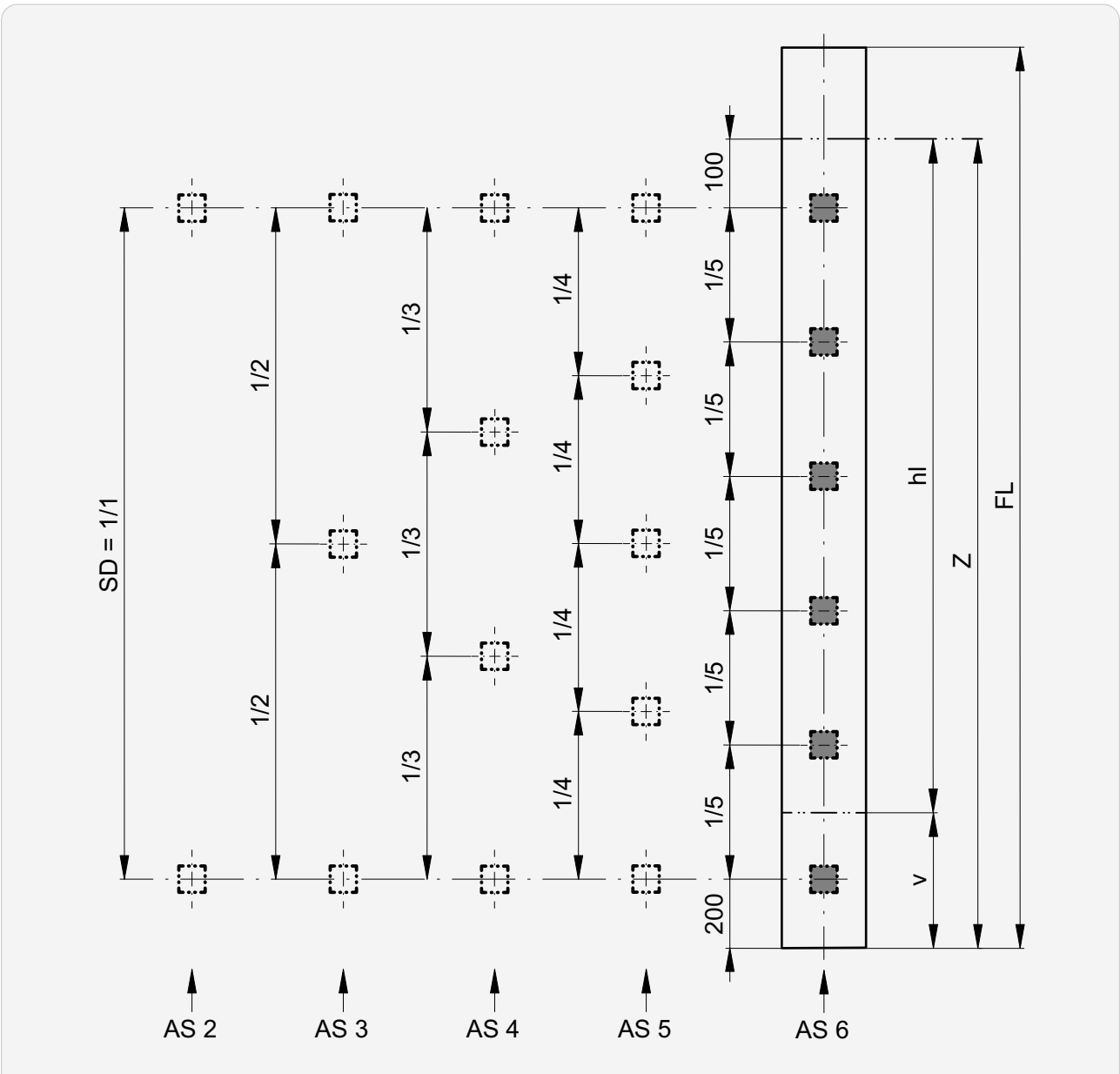
AS Number of slits

SD Slot spacing: max. 1200

►► Fastening points Solomatic® II System Profil

With guide rail extension

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



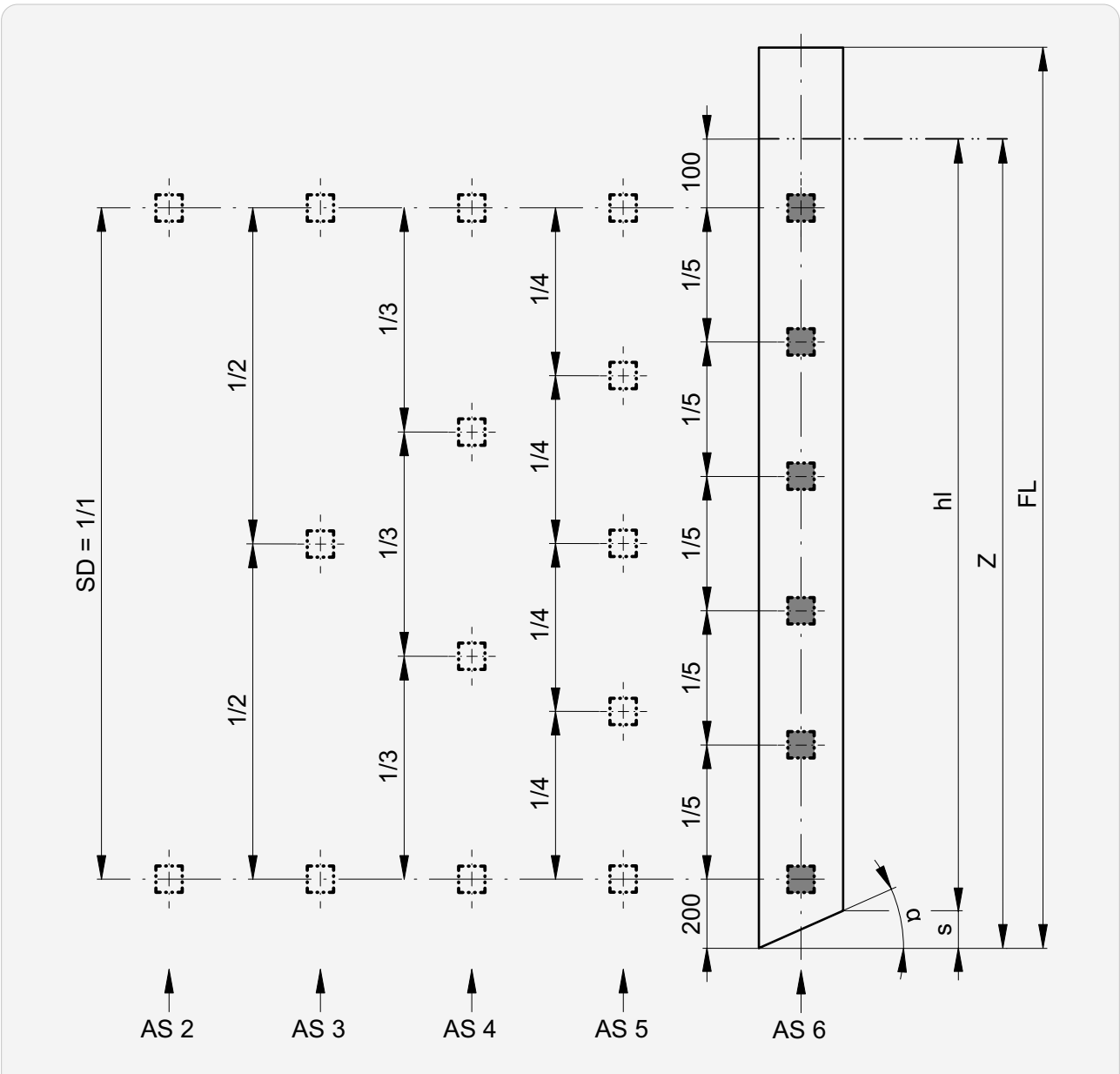
**AS** Number of slits  
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

►► Fastening points Solomatic® II System Profil

With facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

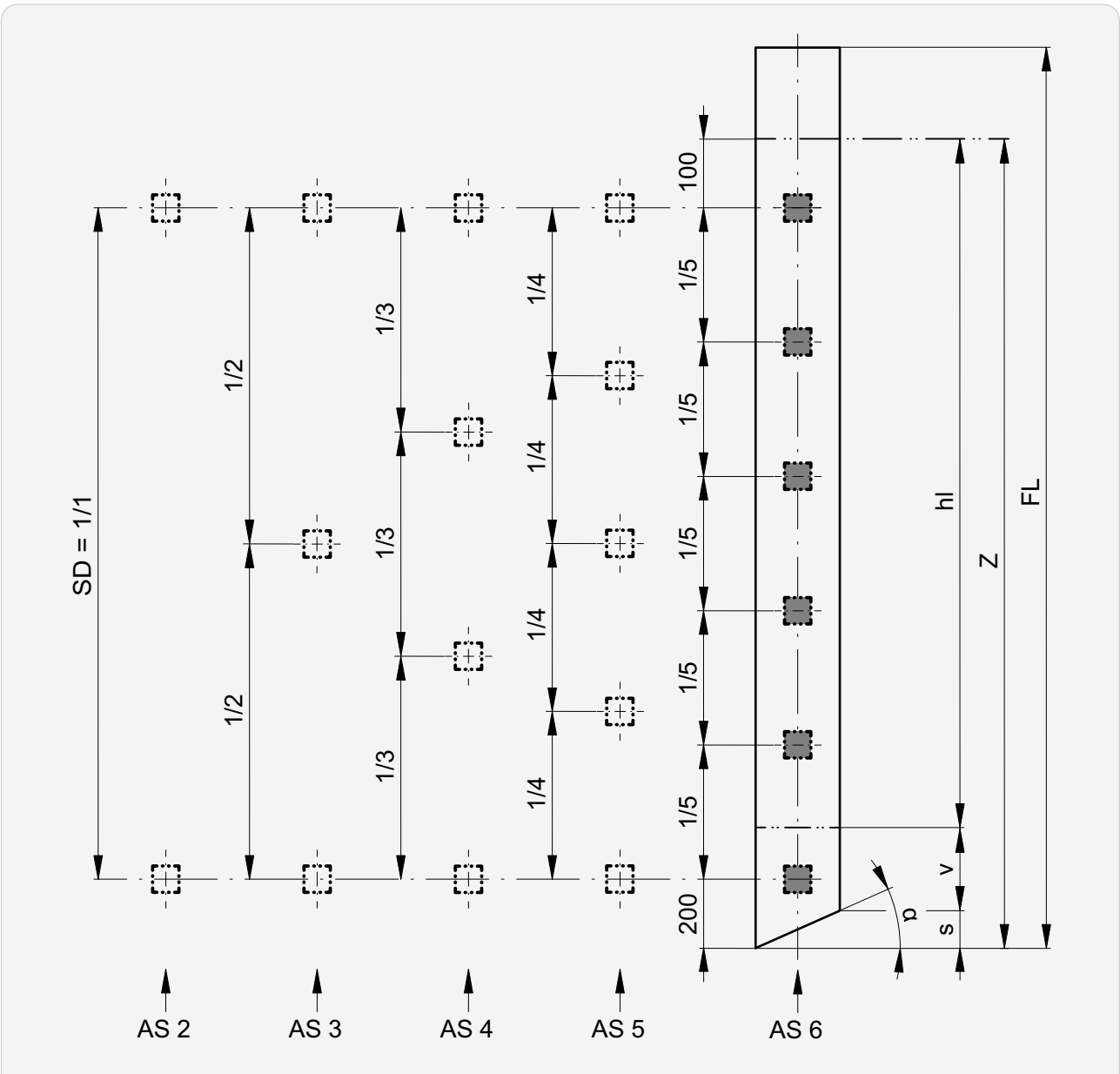
**SD** Slot spacing: max. 1200

**s** Faceting (guide rail width x tgα)

►► Fastening points Solomatic® II System Profil

With guide rail extension and facet

| Z           | AS |
|-------------|----|
| ≤1500       | 2  |
| 1501...2700 | 3  |
| 2701...3900 | 4  |
| 3901...5100 | 5  |
| >5100       | 6  |



**AS** Number of slits

**s** Faceting (guide rail width x tgα)

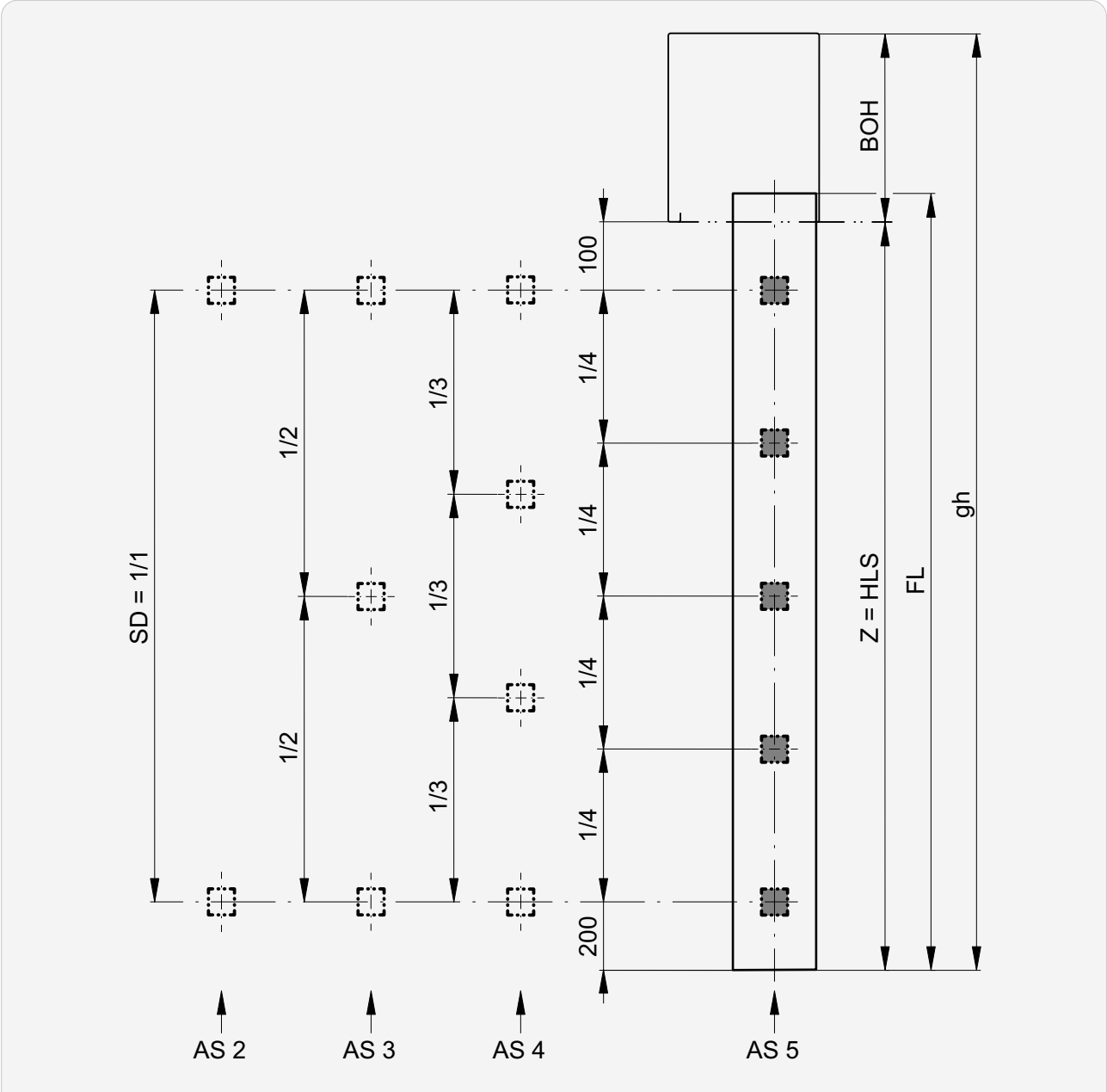
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

Fastening points Solomatic® II System Box

Without extension

| Z            | AS |
|--------------|----|
| ≤1450        | 2  |
| 1451... 2450 | 3  |
| 2451... 3450 | 4  |
| >3450        | 5  |



**AS** Number of slits

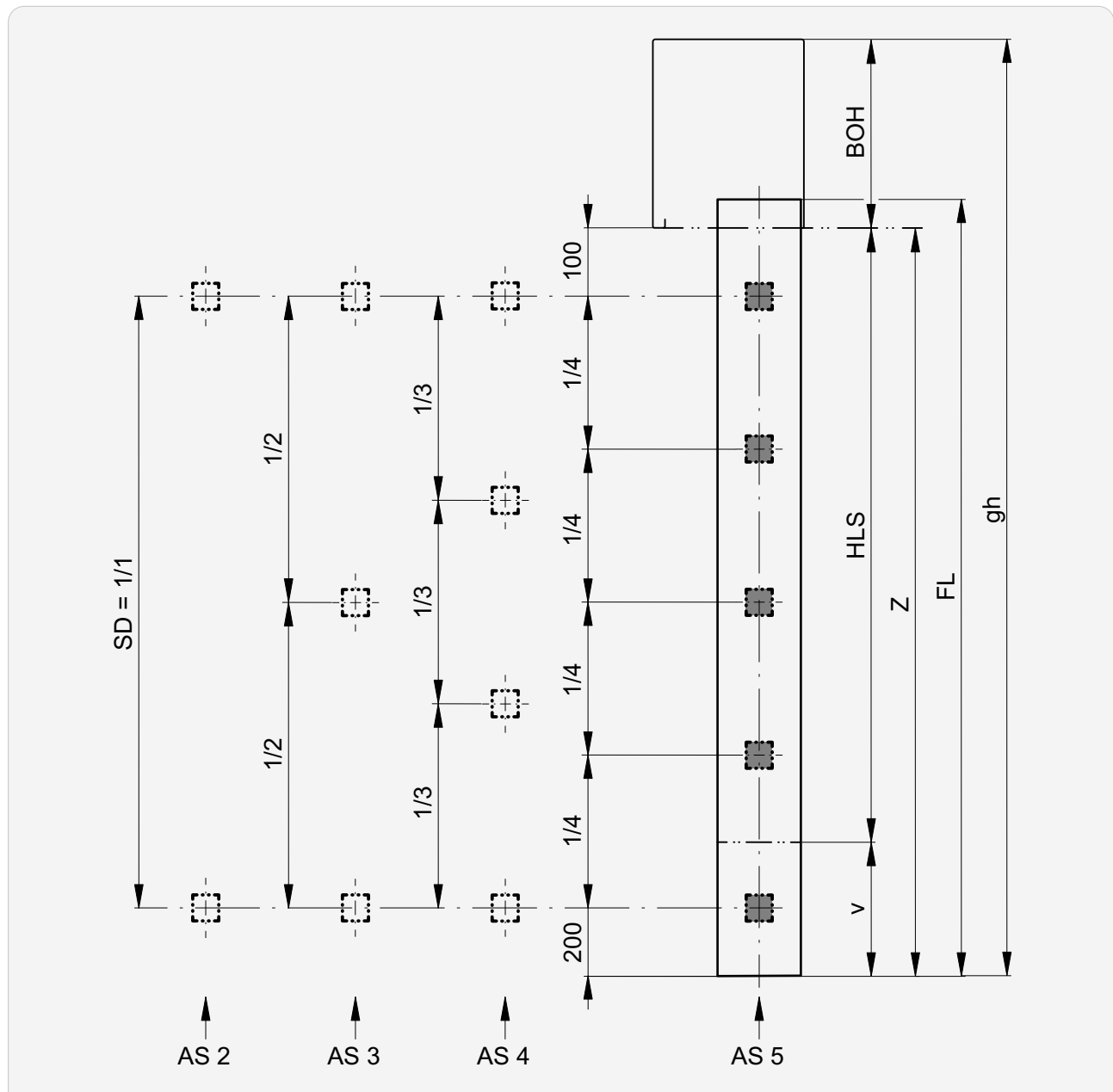
**BOH** box height

**SD** Slot spacing: max. 1200

## ►► Fastening points Solomatic® II System Profil

### With guide rail extension

| <b>Z</b>     | <b>AS</b> |
|--------------|-----------|
| ≤1450        | 2         |
| 1451... 2450 | 3         |
| 2451... 3450 | 4         |
| > 3450       | 5         |



**AS**      Number of slits

**BOH** box height

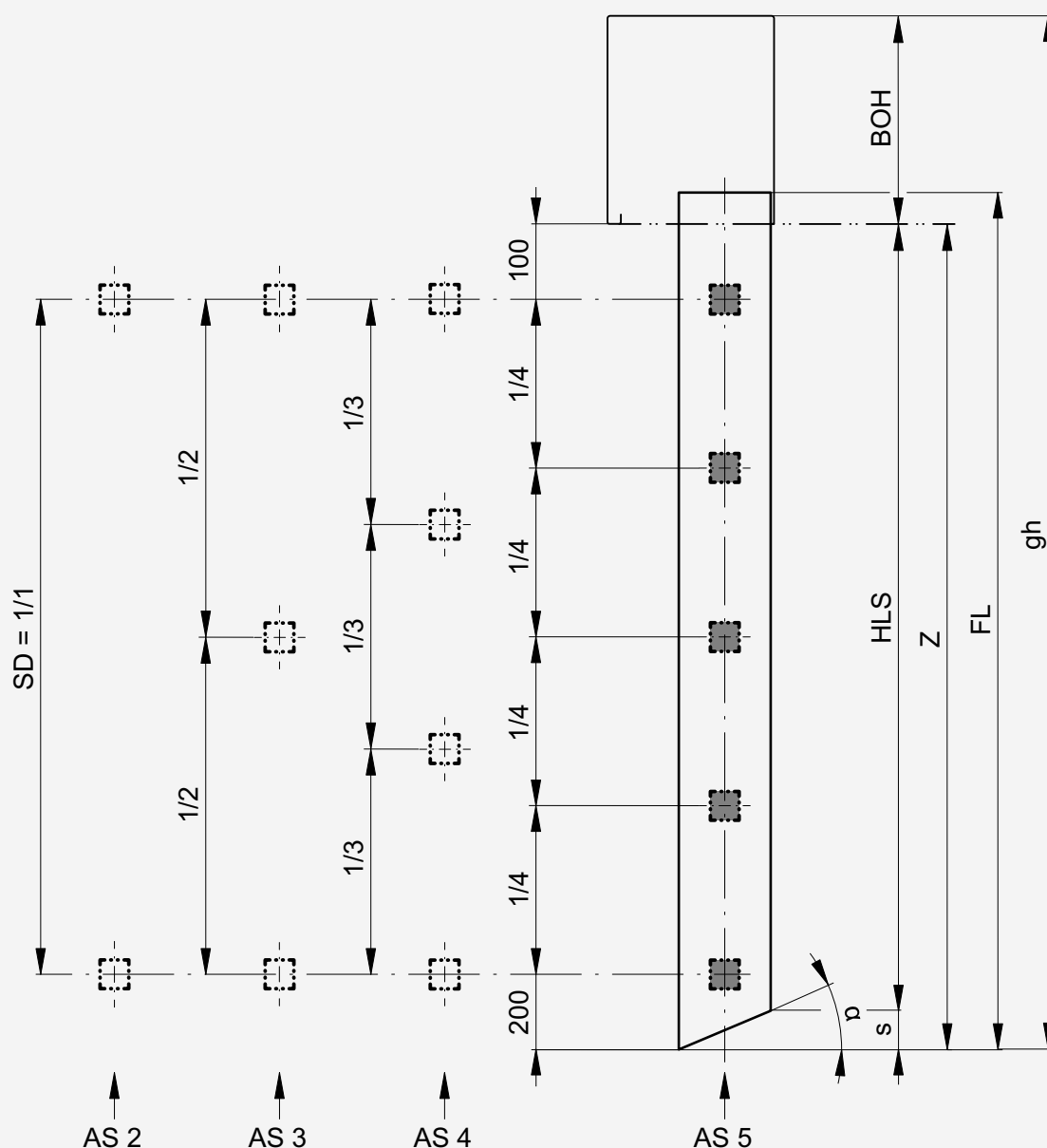
**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

## ►► Fastening points Solomatic® II System Profil

### With facet

| <b>Z</b>    | <b>AS</b> |
|-------------|-----------|
| ≤1450       | 2         |
| 1451...2450 | 3         |
| 2451...3450 | 4         |
| > 3450      | 5         |



**AS**      Number of slits

**BOH** box height

**s**      Faceting (guide rail width x  $\tan \alpha$ )

**SD** Slot spacing: max. 1200

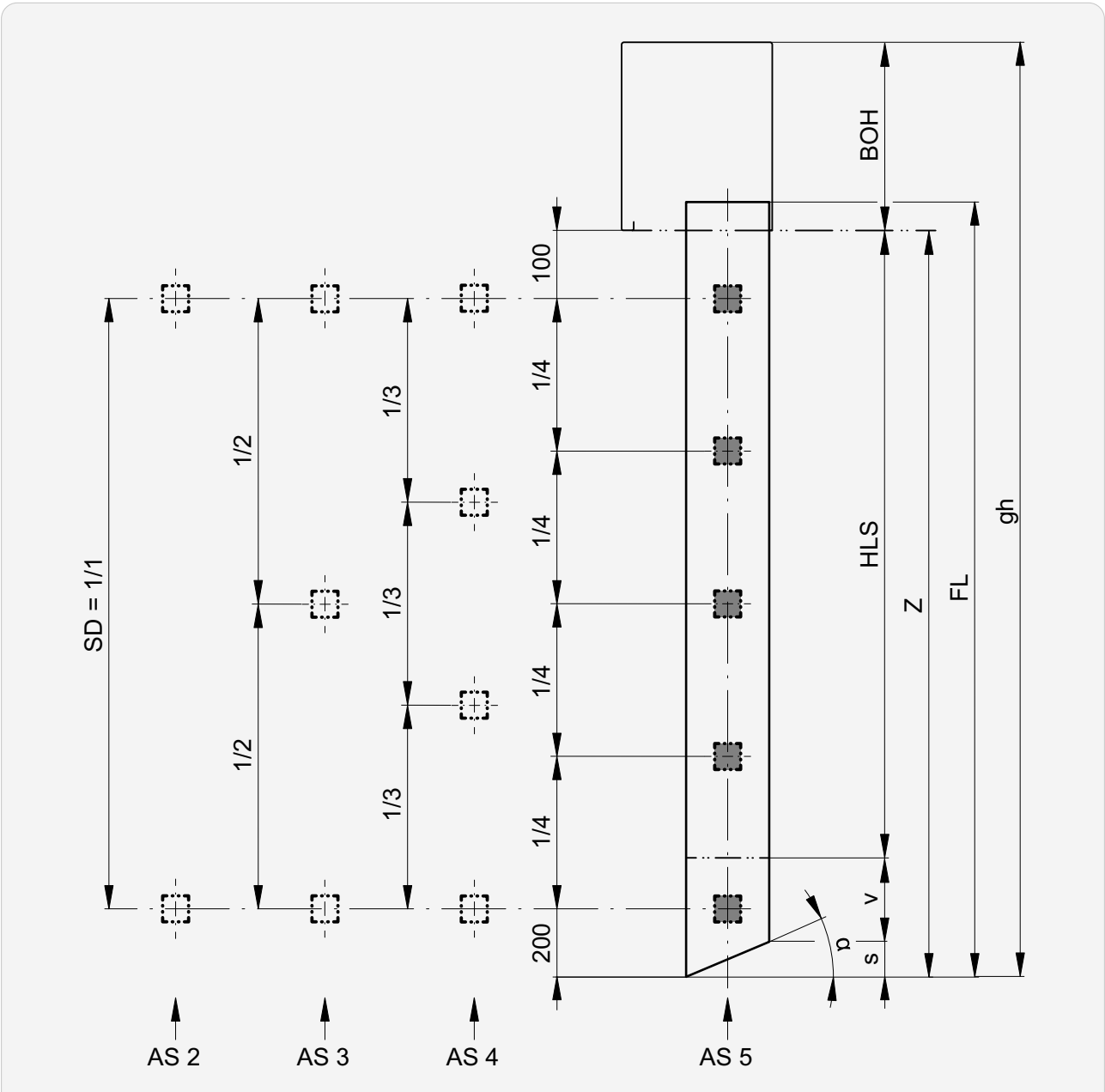
➡ Guide extension and facet ..... **321**

 Guide rail fastenings.....320

# ►► Fastening points Solomatic® II System Profil

## With guide rail extension and facet

| Z            | AS |
|--------------|----|
| ≤1450        | 2  |
| 1451... 2450 | 3  |
| 2451... 3450 | 4  |
| >3450        | 5  |



**AS** Number of slits

**BOH** box height

**s** Faceting (guide rail width x tgα)

**SD** Slot spacing: max. 1200

**v** Guide rail extension: max. 1000

## Technical data of motors

### Performance characteristics

| Type          |       | Limit switch |           | M    | n        | P   | I    |
|---------------|-------|--------------|-----------|------|----------|-----|------|
|               |       | Type         | Number of | [Nm] | [1/min.] | [W] | [A]  |
| Standard      |       |              |           |      |          |     |      |
| Elero         |       |              |           |      |          |     |      |
| ES...         | 06.01 | mechanical   | 2         | 6    | 26       | 110 | 0.50 |
|               | 09.01 |              |           | 9    |          | 170 | 0.75 |
| EO...         | 20.01 |              |           | 20   |          | 190 | 1.05 |
| ES...         | 06.51 | mechanical   | 3         | 6    | 26       | 110 | 0.50 |
|               | 09.51 |              |           | 9    |          | 170 | 0.75 |
| EO...         | 20.51 |              |           | 20   |          | 190 | 1.05 |
| Option        |       |              |           |      |          |     |      |
| Somfy         |       |              |           |      |          |     |      |
| SH...         | 06.01 | mechanical   | 2         | 6    | 24       | 95  | 0.40 |
|               | 10.01 |              |           | 10   |          | 110 | 0.65 |
|               | 18.01 |              |           | 18   |          | 155 | 1.00 |
| SW...         | 06.01 | electronic   | 2         | 6    | 24       | 95  | 0.40 |
| SI...         | 10.01 |              |           | 10   |          | 110 | 0.65 |
| SR...         | 18.01 |              |           | 18   |          | 155 | 1.00 |
| Elero Comfort |       |              |           |      |          |     |      |
| ECM...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| ECB...        | 06.01 | electronic   | 2         | 6    | 26       | 115 | 0.50 |
|               | 09.01 |              |           | 9    |          | 156 | 0.68 |
|               | 06.51 |              | 3         | 6    |          | 115 | 0.50 |
|               | 09.51 |              |           | 9    |          | 156 | 0.68 |
| Geiger AIR    |       |              |           |      |          |     |      |
| GA...         | 06.01 | electronic   | 2         | 6    | 26       | 93  | 0.40 |
|               | 06.10 |              |           | 10   |          | 135 | 0.60 |
|               | 06.20 |              |           | 20   |          | 190 | 0.85 |

**I** Current consumption

**M** Torque

**n** Rotational speed

**P** Power consumption



# Annex

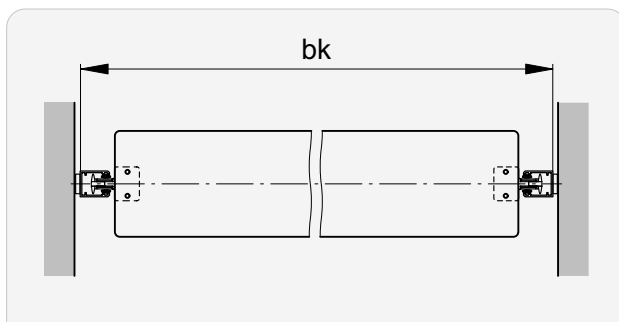
|                           |     |
|---------------------------|-----|
| Definitions of dimensions | 334 |
| Installation base         | 337 |

## Definitions of dimensions

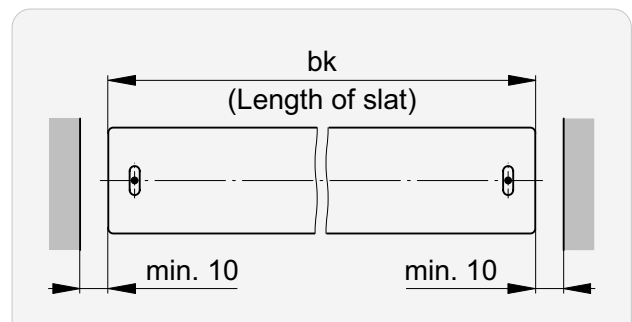
- i** Dimensions should always be viewed **from inside to outside**.  
 Unspecified dimensions are **defined by the products**.  
 Situations designed with **uniform guide profiles**.

**bk**

**For rail guide**

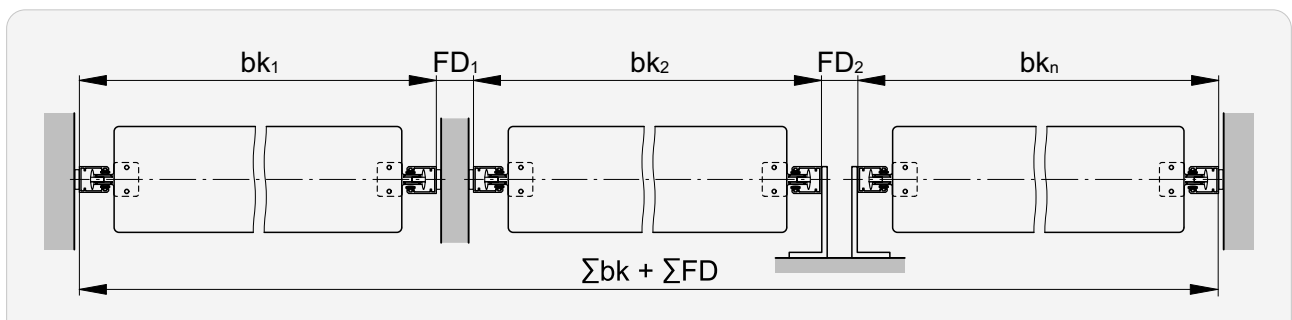


**For cable guide**

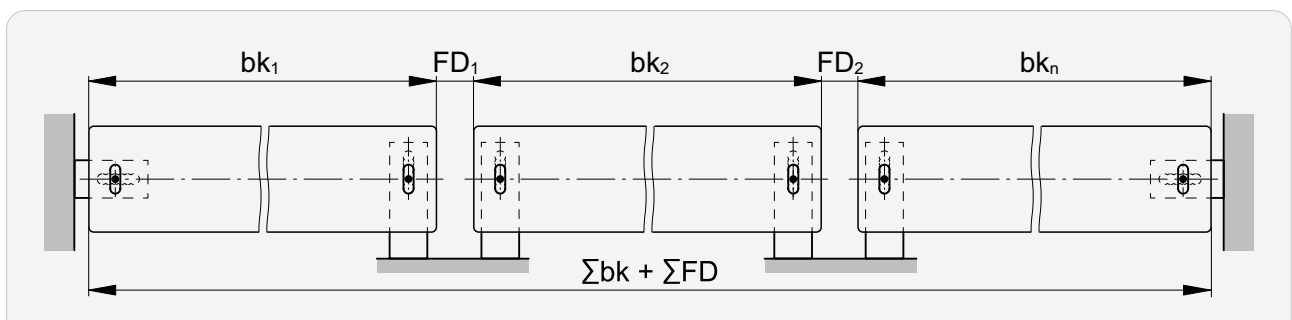


## System width (Connected Systems)

**For rail guide**



**For cable guide**



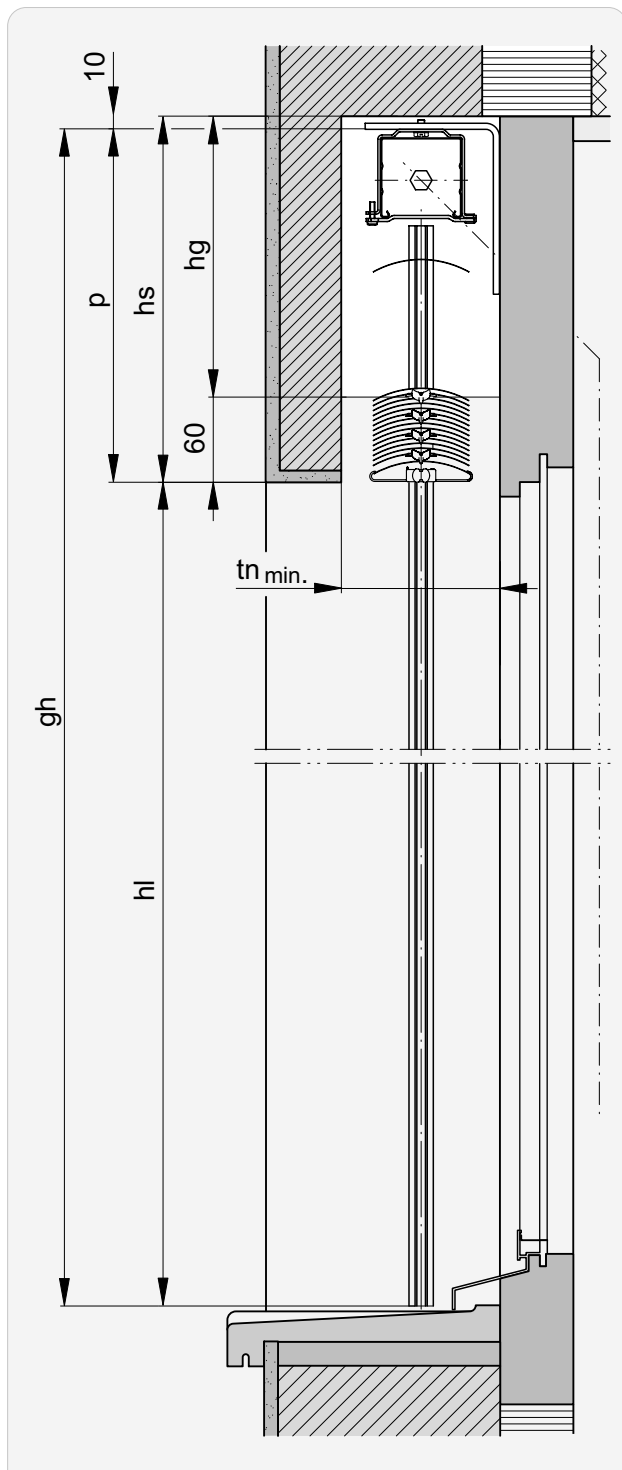
**bk** Construction width

**FD** Distance between guides

## ►► Definitions of dimensions

hl, hs, gh, p

For rail guide



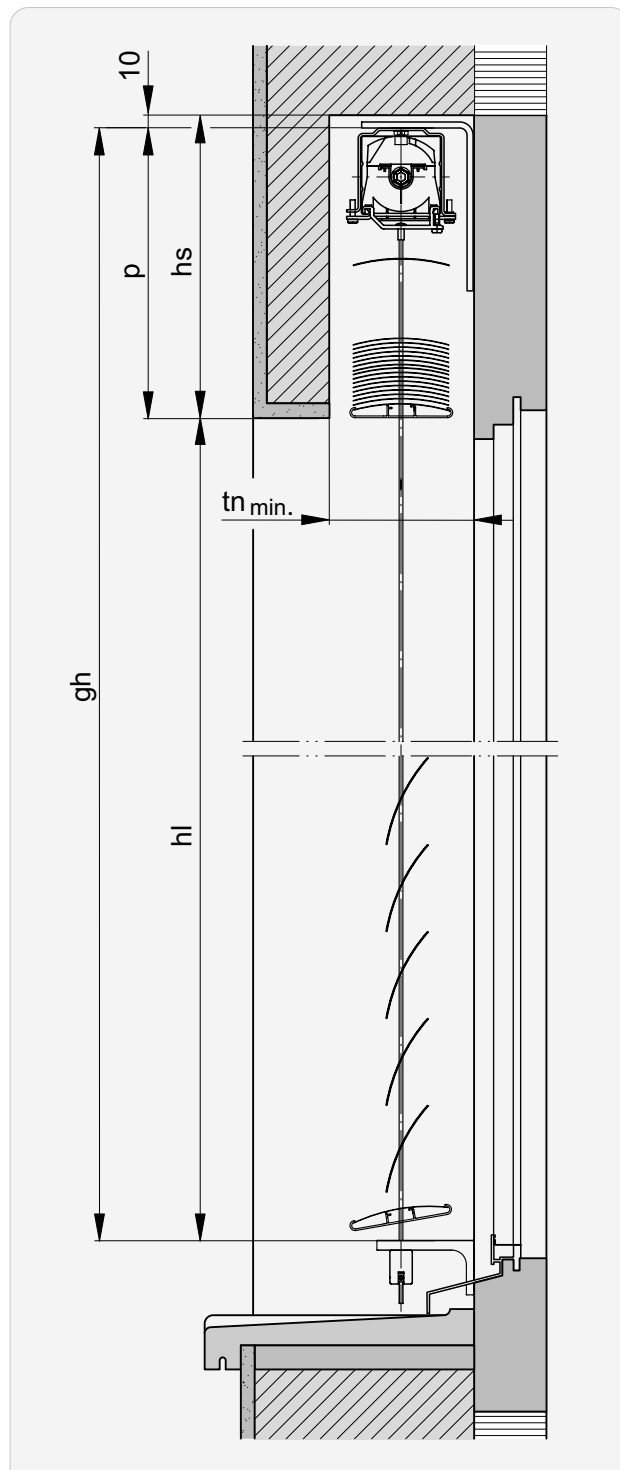
**hl, gh** at bottom: Bottom edge of guide rail

**gh** Overall height (**hl + p**)

**hg** Height of gearbox recess

**hl** Finished clear height

For cable guide



**hl, gh** at bottom: Top edge of cable fastening

**hs** Header height

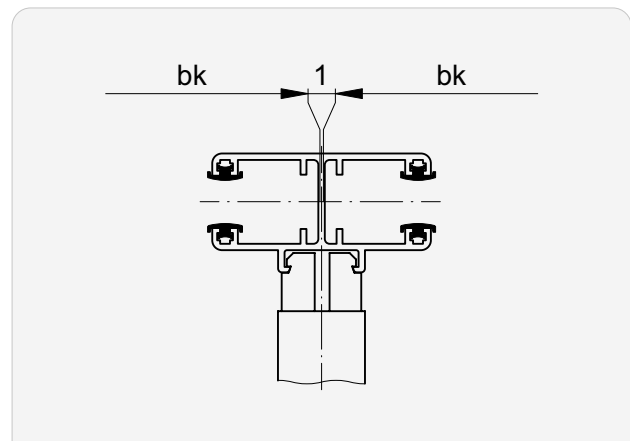
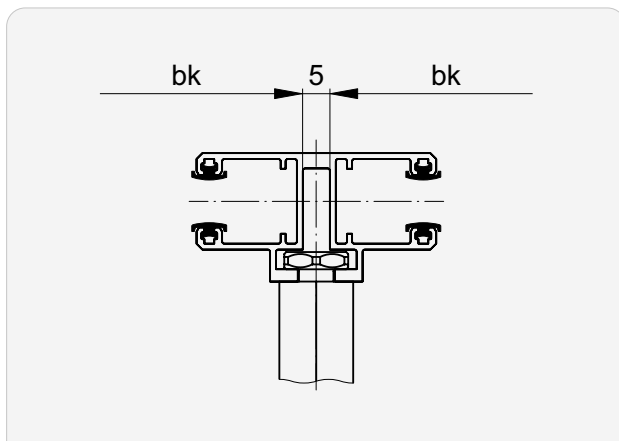
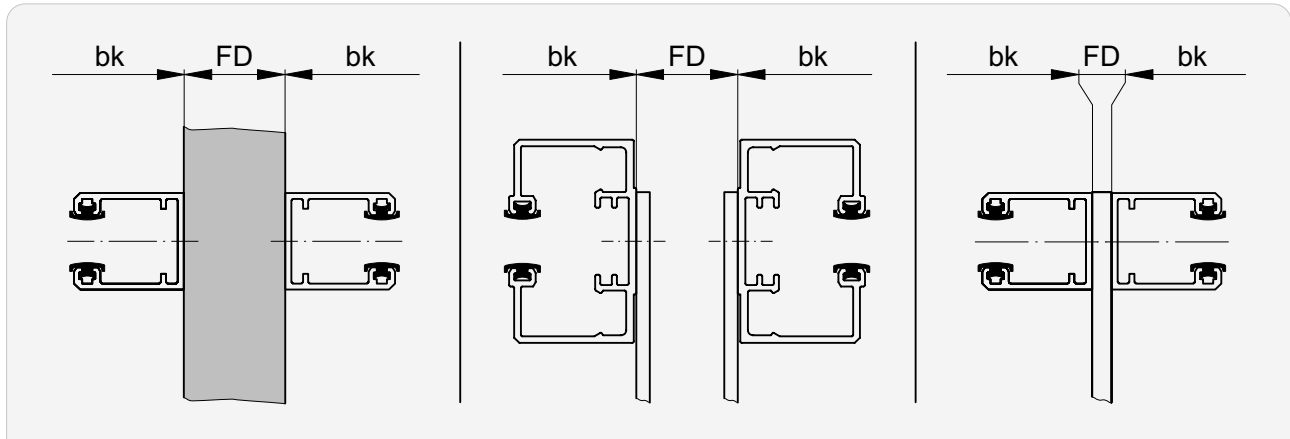
**p** Height of package

**tn** Niche depth

## ►► Definitions of dimensions

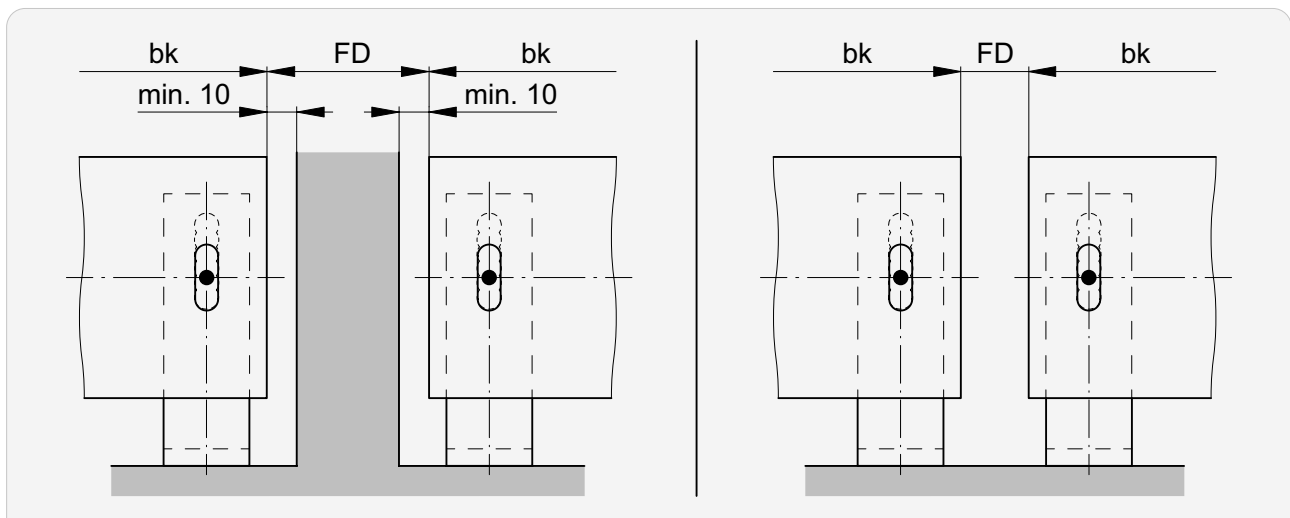
### Distance between guides FD

#### For rail guide



**FD** Rear edge of guide rails

#### For cable guide



**FD** Slat end – slat end

For blinds situated directly next to each other:  
horizontal distance between the slats: **min. 15**

## Installation base

- 1 Wood
- 2 Stone
- 3 Metal, Aluminum >4 mm, Steel >3 mm
- 4 Sheet metal, Aluminum 2...4 mm, Steel 2...3 mm
- 5 External insulation\*
- 6 Plastic
- 7 Chipboard
- 8 Aerated concrete
- 10 Concrete
- 13 Eternit
- 14 Built-in plate
- 15 Sheet metal Al | Cu 2...4 mm
- 16 Insulation EPS150

\* Insulation d: 5...110 mm



# Index

**A****Additional cables**

|                 |            |
|-----------------|------------|
| Aluflex®        |            |
| cable guide     | 230        |
| guide rail      | 201        |
| Solomatic® II   |            |
| cable guide     | 292        |
| <b>Aluflex®</b> | <b>179</b> |

**AT**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 189 |
| Grinotex® III   Grinotex® III Sinus | 39  |
| Lamisol® III                        | 82  |
| Lamisol® III System                 | 127 |
| Lamisol® III Vento                  | 156 |
| Solomatic® II                       | 250 |
| Solomatic® II System                | 309 |

**B****Beginning distance ▶ AT**

|                        |            |
|------------------------|------------|
| <b>bk (definition)</b> | <b>334</b> |
|------------------------|------------|

**Box base profile**

|               |     |
|---------------|-----|
| Aluflex®      | 193 |
| Solomatic® II | 254 |

**Box extensions**

|          |     |
|----------|-----|
| Aluflex® | 186 |
|----------|-----|

**Box fastening**

|               |     |
|---------------|-----|
| Aluflex®      | 193 |
| Solomatic® II | 254 |

**Box supports, number of**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 192 |
| Grinotex® III   Grinotex® III Sinus | 42  |
| Lamisol® III                        | 85  |
| Lamisol® III Vento                  | 159 |
| Solomatic® II                       | 253 |

**C****Cable fastenings**

|               |     |
|---------------|-----|
| Aluflex®      | 234 |
| Solomatic® II | 298 |

**Cable outlet**

|                      |     |
|----------------------|-----|
| Lamisol® III System  | 128 |
| Solomatic® II System | 310 |

**Connected systems**

|             |     |
|-------------|-----|
| Aluflex®    |     |
| cable guide | 236 |
| guide rail  | 225 |

|                                     |     |
|-------------------------------------|-----|
| Grinotex® III   Grinotex® III Sinus | 70  |
| Lamisol® III                        | 117 |
| Metalunic® V   Metalunic® V Sinus   | 28  |
| Solomatic® II                       |     |
| cable guide                         | 300 |
| guide rail                          | 287 |

**Construction width (definition) ▶ bk (definition)****D****d - dimension**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 197 |
| Grinotex® III   Grinotex® III Sinus | 45  |
| Lamisol® III                        | 88  |
| Lamisol® III Vento                  | 162 |
| Metalunic® V   Metalunic® V Sinus   | 12  |
| Solomatic® II                       | 257 |

**Darkening**

|               |    |
|---------------|----|
| Grinotex® III | 43 |
| Metalunic® V  | 10 |

**Darkening profile**

|              |    |
|--------------|----|
| Metalunic® V | 10 |
|--------------|----|

**Definitions of dimensions 334****Distance between guides ▶ FD****Distance between guides (definition) ▶ FD (definition)****Double lip-seal**

|               |    |
|---------------|----|
| Grinotex® III | 43 |
|---------------|----|

**E****End rails**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 188 |
| Grinotex® III   Grinotex® III Sinus | 38  |
| Lamisol® III                        | 81  |
| Lamisol® III System                 | 126 |
| Lamisol® III Vento                  | 155 |
| Solomatic® II                       | 249 |
| Solomatic® II System                | 308 |

**F****Fastening points**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 221 |
| Grinotex® III   Grinotex® III Sinus | 65  |
| Lamisol® III                        | 113 |
| Lamisol® III System                 | 141 |
| Lamisol® III Vento                  | 172 |
| Metalunic® V   Metalunic® V Sinus   | 24  |

|                                                             |     |
|-------------------------------------------------------------|-----|
| Solomatic® II                                               | 283 |
| Solomatic® II System                                        | 323 |
| <b>FD</b>                                                   |     |
| Aluflex®                                                    |     |
| cable guide                                                 | 236 |
| guide rail                                                  | 225 |
| Grinotex® III   Grinotex® III Sinus                         | 70  |
| Lamisol® III                                                | 117 |
| Metalunic® V   Metalunic® V Sinus                           | 28  |
| Solomatic® II                                               |     |
| cable guide                                                 | 300 |
| guide rail                                                  | 287 |
| <b>FD (definition)</b>                                      | 336 |
| <b>Finished clear height (definition) ▶ hl (definition)</b> |     |

## G

|                                               |     |
|-----------------------------------------------|-----|
| <b>gh (definition)</b>                        | 335 |
| <b>Grinotex® III   Grinotex® III Sinus</b>    | 33  |
| <b>Guide extension</b>                        |     |
| Aluflex®                                      | 215 |
| Grinotex® III   Grinotex® III Sinus           | 59  |
| Lamisol® III                                  | 106 |
| Lamisol® III System                           | 139 |
| Lamisol® III Vento                            | 170 |
| Metalunic® V   Metalunic® V Sinus             | 21  |
| Solomatic® II                                 | 276 |
| Solomatic® II System                          | 321 |
| <b>Guide facet</b>                            |     |
| Aluflex®                                      | 215 |
| Grinotex® III   Grinotex® III Sinus           | 59  |
| Lamisol® III                                  | 106 |
| Lamisol® III System                           | 139 |
| Metalunic® V   Metalunic® V Sinus             | 21  |
| Solomatic® II                                 | 276 |
| Solomatic® II System                          | 321 |
| <b>Guide rails</b>                            |     |
| Aluflex®                                      | 196 |
| Grinotex® III   Grinotex® III Sinus           | 44  |
| Lamisol® III                                  | 87  |
| Lamisol® III System                           | 129 |
| Lamisol® III Vento                            | 161 |
| Metalunic® V   Metalunic® V Sinus             | 11  |
| Solomatic® II                                 | 256 |
| Solomatic® II System                          | 311 |
| <b>Guide rail cut-outs in windowsill area</b> |     |
| Aluflex®                                      | 218 |
| Grinotex® III   Grinotex® III Sinus           | 60  |

|                                   |     |
|-----------------------------------|-----|
| Lamisol® III                      | 109 |
| Metalunic® V   Metalunic® V Sinus | 22  |
| Solomatic® II                     | 279 |

**Guide rail end for suspended guide rails**

|               |     |
|---------------|-----|
| Aluflex®      | 219 |
| Lamisol® III  | 111 |
| Solomatic® II | 281 |

**Guide rail fastenings (principle)**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 207 |
| Grinotex® III   Grinotex® III Sinus | 54  |
| Lamisol® III                        | 98  |
| Lamisol® III System                 | 138 |
| Lamisol® III Vento                  | 167 |
| Metalunic® V   Metalunic® V Sinus   | 16  |
| Solomatic® II                       | 268 |
| Solomatic® II System                | 320 |

**Guide rail installation (principle)**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 205 |
| Grinotex® III   Grinotex® III Sinus | 52  |
| Lamisol® III                        | 96  |
| Lamisol® III System                 | 137 |
| Lamisol® III Vento                  | 165 |
| Metalunic® V   Metalunic® V Sinus   | 14  |
| Solomatic® II                       | 266 |
| Solomatic® II System                | 319 |

## H

**Header dimensions**

|                                     |         |
|-------------------------------------|---------|
| Aluflex®                            | 187     |
| Grinotex® III   Grinotex® III Sinus | 36   37 |
| Lamisol® III                        | 80      |
| Lamisol® III System                 | 125     |
| Lamisol® III Vento                  | 154     |
| Metalunic® V   Metalunic® V Sinus   | 8       |
| Solomatic® II                       | 247     |
| Solomatic® II System                | 307     |

**Header height (definition) ▶ hs (definition)****Height of gearbox recess (definition) ▶ hg (definition)****Height of package ▶ Header dimensions****Height of package (definition) ▶ p (definition)**

|                        |     |
|------------------------|-----|
| <b>hg (definition)</b> | 335 |
|------------------------|-----|

|                        |     |
|------------------------|-----|
| <b>hl (definition)</b> | 335 |
|------------------------|-----|

**Housing fastening**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 190 |
| Grinotex® III   Grinotex® III Sinus | 40  |
| Lamisol® III                        | 83  |
| Lamisol® III Vento                  | 157 |

|                               |     |
|-------------------------------|-----|
| Solomatic® II                 | 251 |
| <b>hs ▶ Header dimensions</b> |     |
| <b>hs (definition)</b>        | 335 |

|                                     |     |
|-------------------------------------|-----|
| <b>I</b>                            |     |
| <b>Installation base</b>            | 337 |
| <b>Installation window</b>          |     |
| Aluflex®                            | 220 |
| Grinotex® III   Grinotex® III Sinus | 64  |
| Lamisol® III                        | 112 |
| Lamisol® III Vento                  | 171 |
| Solomatic® II                       | 282 |

|                               |    |
|-------------------------------|----|
| <b>J</b>                      |    |
| <b>Joint-covering profile</b> |    |
| Grinotex® III                 | 43 |

|                                     |     |
|-------------------------------------|-----|
| <b>L</b>                            |     |
| Lamisol® III                        | 75  |
| Lamisol® III System                 | 121 |
| Lamisol® III Vento                  | 151 |
| <b>Limit dimensions</b>             |     |
| Aluflex®                            | 180 |
| Grinotex® III   Grinotex® III Sinus | 34  |
| Lamisol® III                        | 76  |
| Lamisol® III System                 | 122 |
| Lamisol® III Vento                  | 152 |
| Metaluníc® V   Metaluníc® V Sinus   | 6   |
| Solomatic® II                       | 240 |
| Solomatic® II System                | 307 |

|                                          |     |
|------------------------------------------|-----|
| <b>M</b>                                 |     |
| <b>MBMA</b>                              |     |
| Aluflex®                                 |     |
| cable guide                              | 229 |
| guide rail                               | 200 |
| Grinotex® III   Grinotex® III Sinus      | 46  |
| Lamisol® III                             | 90  |
| Metaluníc® V   Metaluníc® V Sinus        | 13  |
| Solomatic® II                            |     |
| cable guide                              | 291 |
| guide rail                               | 260 |
| <b>Metaluníc® V   Metaluníc® V Sinus</b> | 5   |

|                                                      |     |
|------------------------------------------------------|-----|
| <b>O</b>                                             |     |
| <b>Opening for connected blinds</b>                  |     |
| Aluflex®                                             |     |
| cable guide                                          | 237 |
| guide rail                                           | 226 |
| Grinotex® III   Grinotex® III Sinus                  | 71  |
| Lamisol® III                                         | 118 |
| Metaluníc® V   Metaluníc® V Sinus                    | 29  |
| Solomatic® II                                        |     |
| cable guide                                          | 301 |
| guide rail                                           | 288 |
| <b>Overall height (definition) ▶ gh (definition)</b> |     |

|                               |     |
|-------------------------------|-----|
| <b>P</b>                      |     |
| <b>p (definition)</b>         | 335 |
| <b>Package projection box</b> |     |
| Aluflex®                      | 186 |

|                    |     |
|--------------------|-----|
| <b>R</b>           |     |
| <b>Reflect</b>     |     |
| Lamisol® III       | 86  |
| Lamisol® III Vento | 160 |

|                                     |     |
|-------------------------------------|-----|
| <b>S</b>                            |     |
| <b>SD</b>                           |     |
| Aluflex®                            | 189 |
| Grinotex® III   Grinotex® III Sinus | 39  |
| Lamisol® III                        | 82  |
| Lamisol® III System                 | 127 |
| Lamisol® III Vento                  | 156 |
| Solomatic® II                       | 250 |
| Solomatic® II System                | 309 |

#### Sections for crank drive ▶ MBMA

|                                     |     |
|-------------------------------------|-----|
| <b>Slat profiles</b>                |     |
| Aluflex®                            | 188 |
| Grinotex® III   Grinotex® III Sinus | 38  |
| Lamisol® III                        | 81  |
| Lamisol® III System                 | 126 |
| Lamisol® III Vento                  | 155 |
| Metaluníc® V   Metaluníc® V Sinus   | 9   |
| Solomatic® II                       | 249 |
| Solomatic® II System                | 308 |

|                             |     |
|-----------------------------|-----|
| <b>Slot spacing ▶ SD</b>    |     |
| <b>Solomatic® II</b>        | 239 |
| <b>Solomatic® II System</b> | 303 |

**Standard motor position**

|                                     |            |
|-------------------------------------|------------|
| Aluflex®                            |            |
| cable guide                         | 231        |
| guide rail                          | 202        |
| Grinotex® III   Grinotex® III Sinus | 47         |
| Lamisol® III                        | 91         |
| Lamisol® III System                 | 132        |
| Lamisol® III Vento                  | 163        |
| Solomatic® II                       |            |
| cable guide                         | 293        |
| guide rail                          | 261        |
| Solomatic® II System                | 314        |
| <b>System width (definition)</b>    | <b>334</b> |

**T****Technical data of motors**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            | 194 |
| Grinotex® III   Grinotex® III Sinus | 72  |
| Lamisol® III                        | 119 |
| Lamisol® III System                 | 149 |
| Lamisol® III Vento                  | 176 |
| Metalunic® V   Metalunic® V Sinus   | 30  |
| Solomatic® II                       | 255 |
| Solomatic® II System                | 331 |

**tn ▶ Header dimensions**

|                        |            |
|------------------------|------------|
| <b>tn (definition)</b> | <b>335</b> |
|------------------------|------------|

**V****Vertical connections**

|                                     |     |
|-------------------------------------|-----|
| Aluflex®                            |     |
| cable guide                         | 231 |
| guide rail                          | 202 |
| Grinotex® III   Grinotex® III Sinus | 47  |
| Lamisol® III                        | 91  |
| Lamisol® III System                 | 132 |
| Lamisol® III Vento                  | 163 |
| Solomatic® II                       |     |
| cable guide                         | 293 |
| guide rail                          | 261 |
| Solomatic® II System                | 314 |









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