



**Monodraught** are the recognised market leaders in ultra-low carbon, low energy solutions for Natural Ventilation, Natural Cooling and Natural Lighting.

**WINDCATCHER®**, **SUNPIPE®** and **COOL-PHASE®** brands are synonymous with quality and innovation (ISO9001 & 14001) and are supported by our market leading design service.

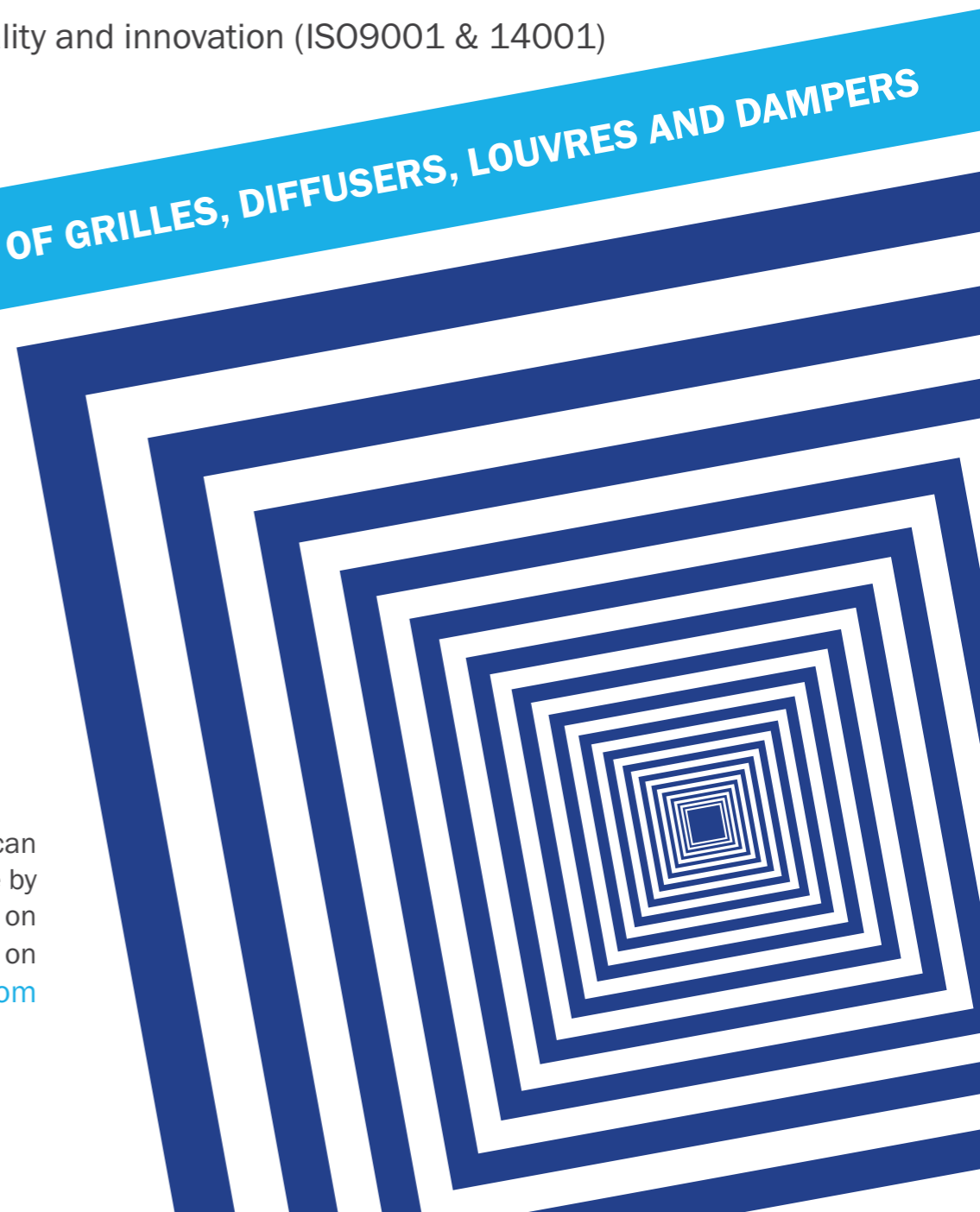
**Air-Precision** is an addition to Monodraught's portfolio including grilles, diffusers, external louvres and volume control dampers.

**PRODUCT RANGE OF GRILLES, DIFFUSERS, LOUVRES AND DAMPERS**

#### We are supporting this range with:

- £1 million of fast moving stock
- Bespoke manufacture with any standard RAL colour within 5 days
- 15 dedicated selection experts
- Designed with industry leading software
- Belimo actuators used throughout
- AA5 anodisation (ISO7599) utilised
- Market leading quality fully supported by a **10 year guarantee**

We are confident that we can beat any quotation you have by 10% so please contact us on **01494897700** or email us on [air-precision@monodraught.com](mailto:air-precision@monodraught.com)



# Fixed Blade Grilles - FB



Best suited to positioning in ceilings, walls or on ductwork.

Fixed blade grilles use blades which are fixed at either 0°, 15° or 45°.

Specified with 0° blades, the high free area and aerodynamic blade design make this a very effective extract unit with minimal noise generation and pressure drops. Should you not require an adjustable throw, fixed blade grilles will often give a tidier appearance than single deflections since the blades cannot be set at different angles to each other.

## Materials:

- Extruded aluminium frame and blades
- High tensile steel wire

## Construction:

- Single row of adjustable blades within frame
- Blades held in place by design, as well as high tensile spring wire and starlock washers

## Mullions:

- Central mullion on any unit above 570 mm wide

## Mass/m<sup>2</sup> face area:

- 8.5 kg
- 16.5 kg including opposed blade damper (optional)

## Free Area:

- Approx. 80% (FB Fixed Blade 0°)

## Options

### Size:

- Minimum: 100 mm x 100 mm
- Maximum: 2900 mm x 2900 mm
- Maximum blade length is 570 mm, above this mullion will be used

### Series:

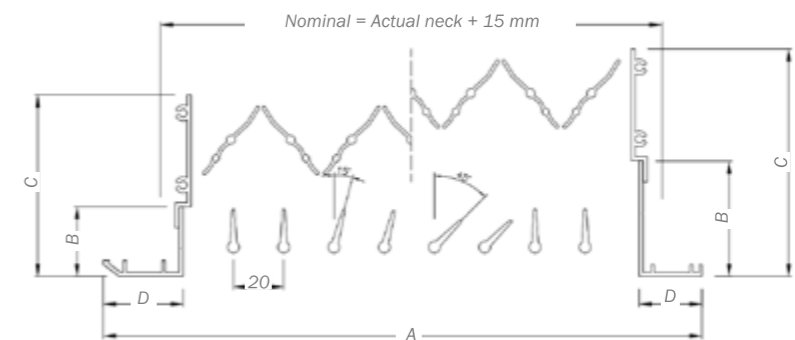
- FB0 Fixed blade grille – 0°
- FB15 Fixed blade grille – 15°
- FB45 Fixed blade grille – 45°

### Damper (optional):

- D: Opposed blade damper fitted

## Frame Type:

- Standard:

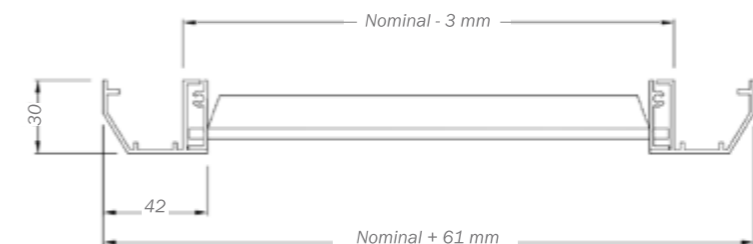


25F: 25 mm flat	
A	Nominal + 30 mm
B	46 mm
C	90 mm
D	25 mm

32BS: 32 mm bevelled small	
A	Nominal + 45 mm
B	28 mm
C	72 mm
D	32 mm

Please note: Blade pins stick out approximately 6 mm from the grille neck  
 32BS: 32 mm bevelled small (standard)  
 25F: 25 mm flat (optional)

- SML Surface Mounted (optional):



# Fixed Blade Grilles - FB

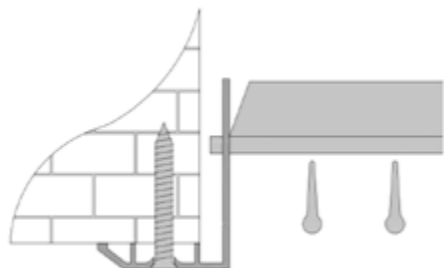
## Nominal Sizes Available

H	WIDTH																	
	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
100																		
150																		
200																		
250																		
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## Fixings:

### FH Countersunk fixing holes:

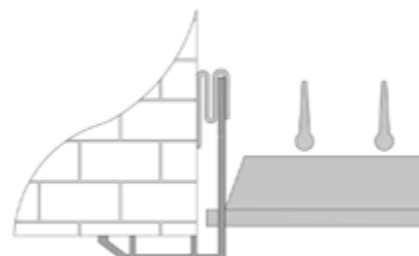
Countersunk fixing holes in the grille frame are the easiest fitting method. Screws in the same finish are supplied with the grille.



### PC Push-in-clips:

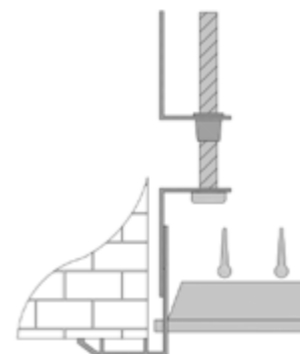
These sprung clips are compressed when the grille is pushed into place. The outward force provided then holds the grille securely in place.

This fixing method is not suitable for use in ceilings.



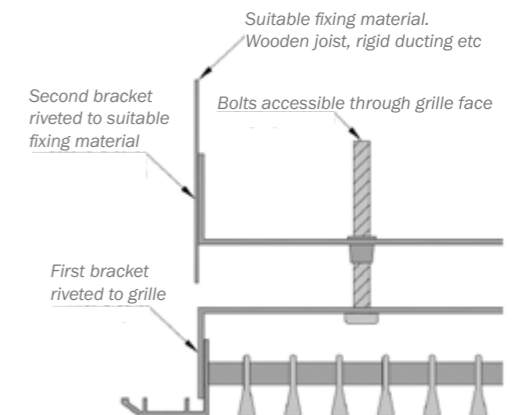
### CF Concealed fixings:

Consisting of L brackets with threaded ports, one L bracket is fixed into the ductwork or plenum, the other is riveted to the rear of the grille frame. Supplied bolts are then used to hold the grille into the supporting structure.



### GB Goalpost brackets:

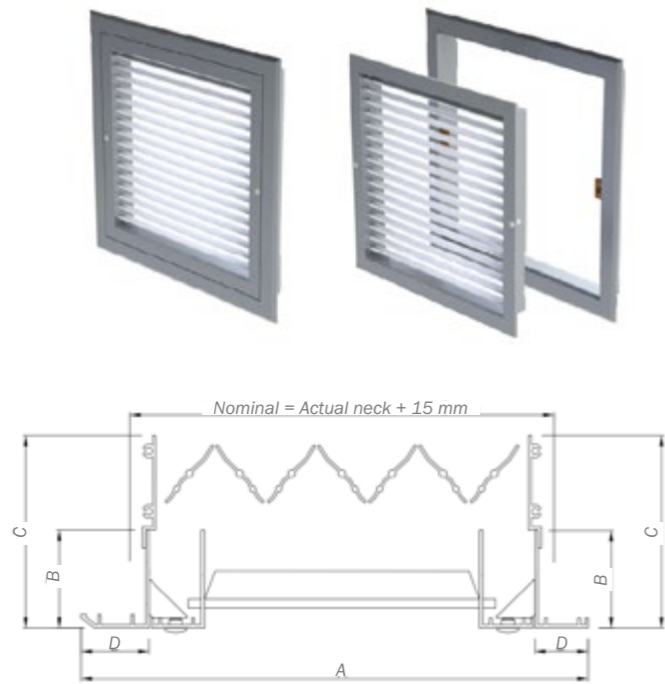
Enables the grille's removal by accessing bolts through the face.



# Fixed Blade Grilles - FB

## Core Type:

- **Fixed**
- **RC Removable Core:**  
Fitted with spring loaded quarter turn fasteners, the outer frame has angle brackets fixed to the inside of the neck.  
The inner removable frame holds the chrome plated, slotted head studs, for removal with a flathead screwdriver.  
Other stud types are available for use with allen keys, or with a larger head for removal by hand.



25F: 25 mm flat	
A	Nominal + 30 mm
B	46 mm
C	90 mm
D	25 mm

32BD: 32 mm bevelled large	
A	Nominal + 45 mm
B	46 mm
C	90 mm
D	32 mm

- **HC Hinged Core:**  
Enabling the core to hinge outwards may be preferable to it being fully removable.  
The full length piano hinge at one side is discreet, and gives minimal loss of core area.  
The inner core is held in place by a chrome plated cam fastener as standard, bolts are optional.



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D	25 mm

32BD: 32 mm bevelled large	
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B	46 mm
C	90 mm
D	32 mm

## Finish:

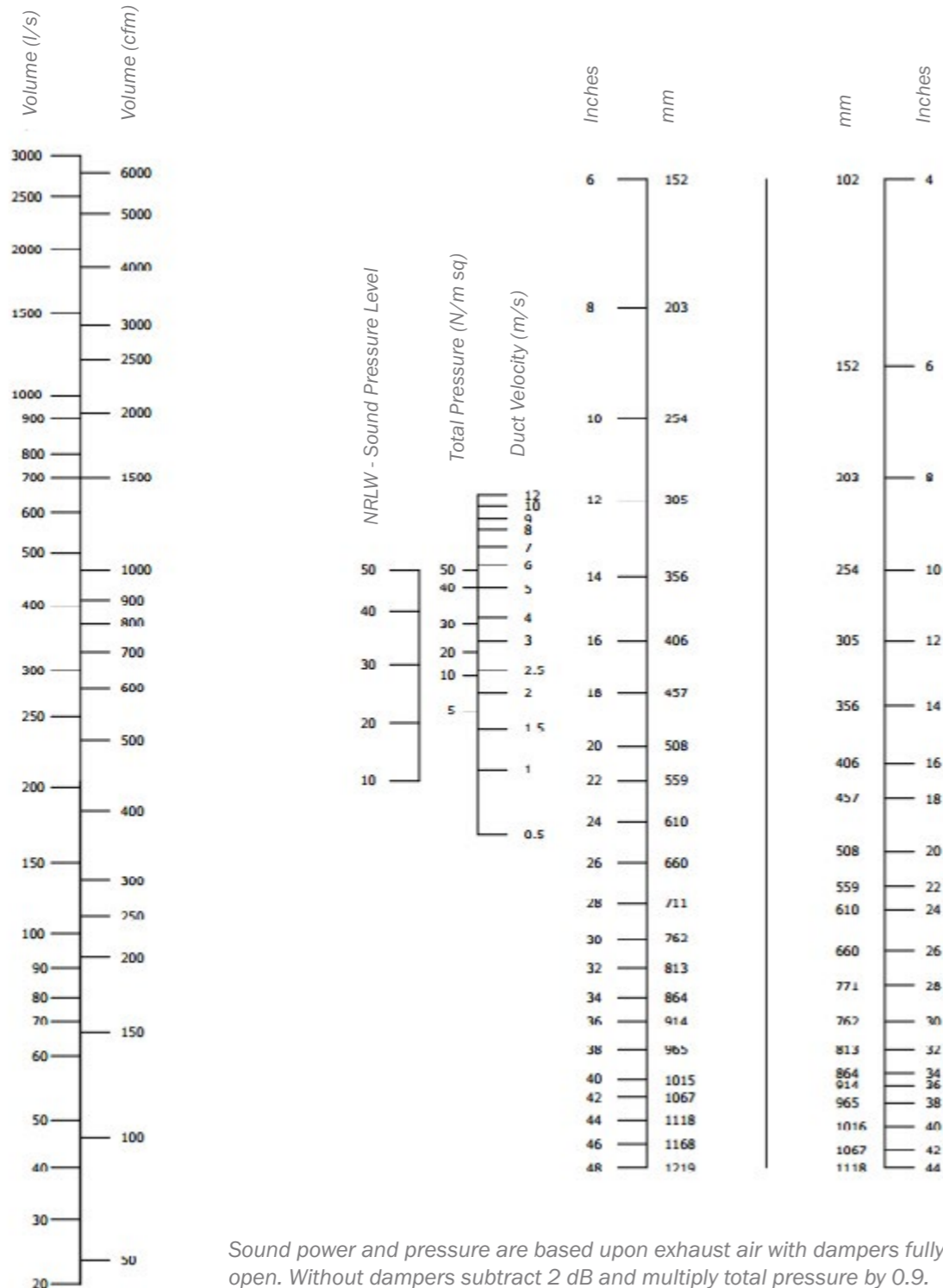
- SAA: Satin anodised frame, mill finish core (standard)
- Mill Aluminium
- RAL: Polyester powder coated to RAL
- BS: Polyester powder coated to BS



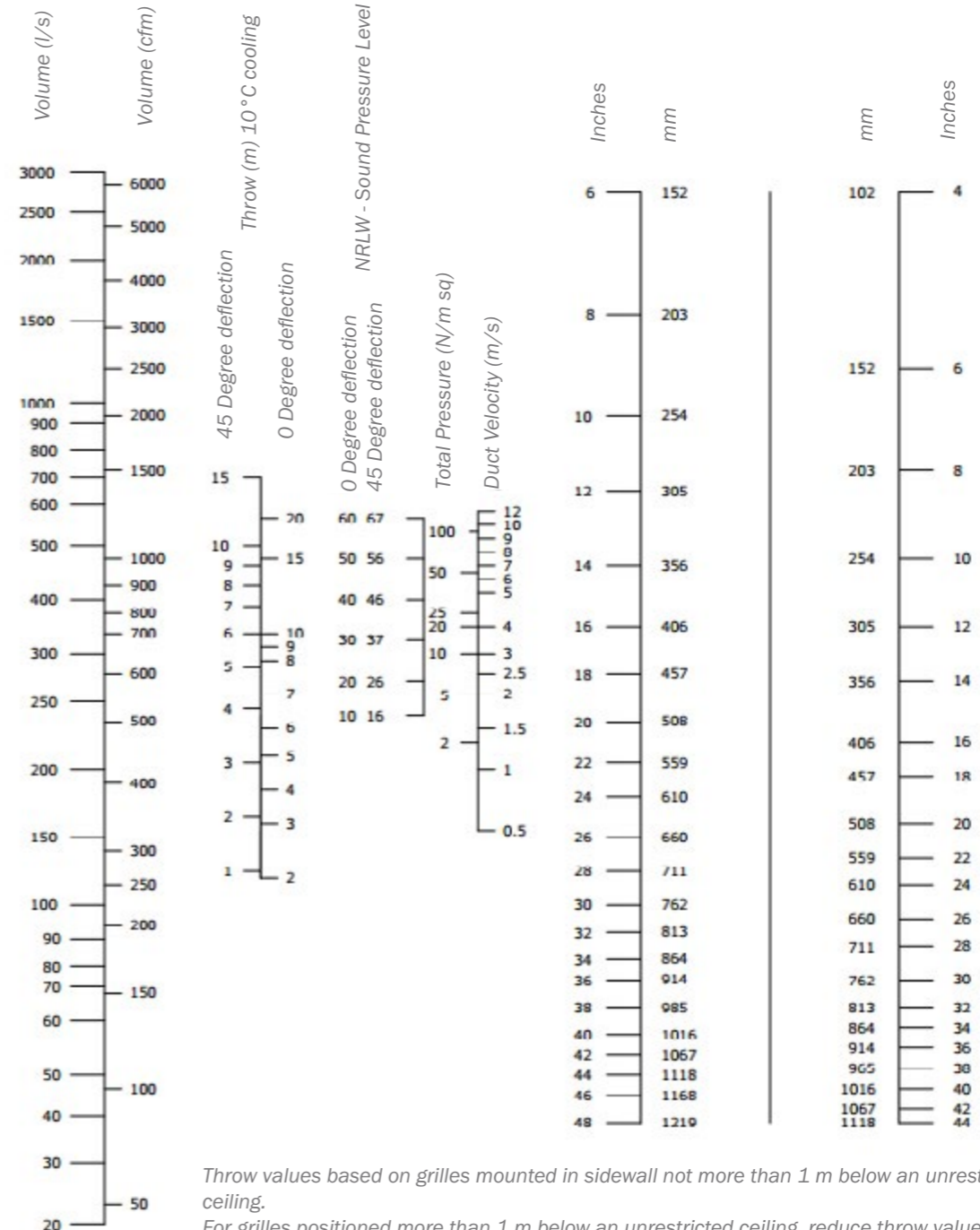
# Fixed Blade Grilles - FB

## Selection data

### Extract Application





### Supply Application





Throw values based on grilles mounted in sidewall not more than 1 m below an unrestricted ceiling.  
 For grilles positioned more than 1 m below an unrestricted ceiling, reduce throw values by 25%.  
 Sound power and pressure are based upon supply air with dampers fully open. Without dampers subtract 2 dB and multiply total pressure by 0.9.  
 Throw values based on a 10°C cooling application. For isothermal applications, increase throw values by 25%.



 Halifax House, High Wycombe  
Buckinghamshire, HP12 3SE


 +44 01494 897700

 +44 01494 532465

 [www.monodraught.com](http://www.monodraught.com)

 [info@monodraught.com](mailto:info@monodraught.com)

 Monodraught Ltd

 @MonodraughtLtd

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