



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

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

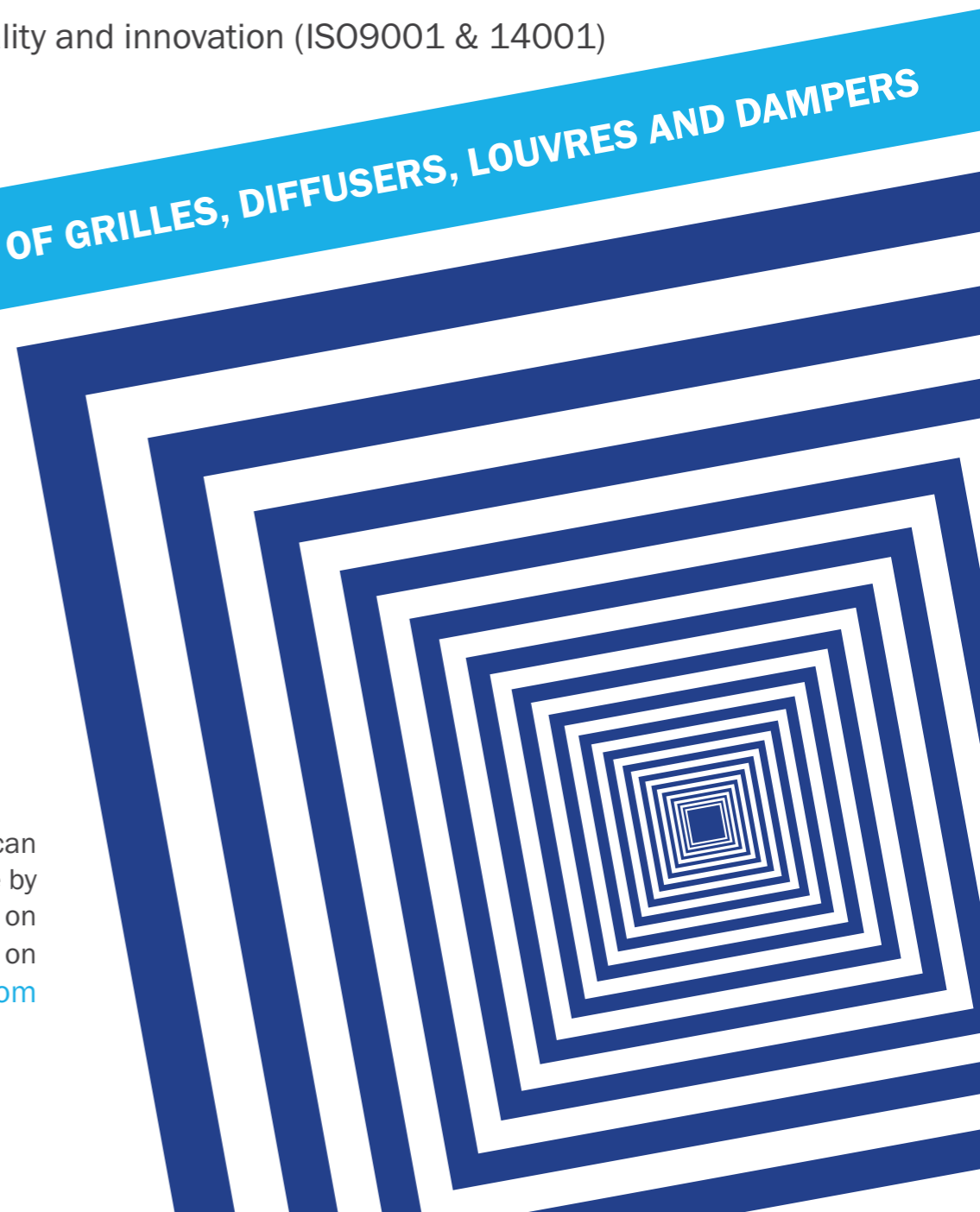
**Air-Precision** is an addition to Monodraught's portfolio including grilles, diffusers, external louvres and volume control dampers.

**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)



# Reinforced Linear Bar Grilles - LGFR



Series LGFR linear grilles are a specially adapted linear grille series, designed for applications where moderate loads or impacts may be experienced, which may damage unstrengthened grilles.

Available with one of two flanged frame types and also in a tray frame, LGFR linear grilles are versatile grilles, capable of performing both supply and extract functions, but also robust enough for demanding applications.

Supplied as standard with 0°, 6 mm blades.

0°, 3 mm blades, 15° and 45° blades are also available.

*Please Note: If intended for floor mounting, grilles should not be specified with a height of more than 300 mm.*

## Materials:

- Extruded aluminium

## Series Free Area - Mass/m<sup>2</sup> Face Area

Series	Free Area	Mass/m <sup>2</sup> face area
LGFR0 - 3	76%	10.0 kg
LGFR0 - 6	52%	14.1 kg
LGRF15	74%	10.1 kg
LGRF45	54%	10.5 kg

## Options

### Size:

- Minimum: 100 mm x 50 mm
- Maximum: 2900 mm x 2900 mm

### Series:

- LGFR0: Linear grille, 0° blades (standard)
- LGFR15: Linear grille, 15° blades
- LGFR45: Linear grille, 45° blades

### Blade Thickness:

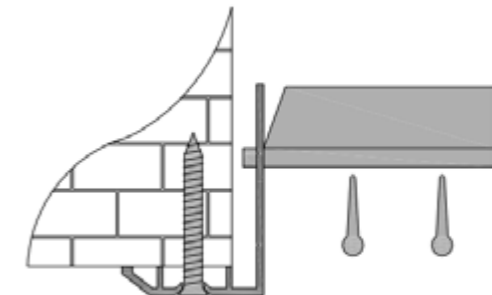
- 3 mm blade (only with LGFR0)
- 6 mm blade (only with LGFR0 - standard)

### Damper (optional):

- D: Opposed blade damper fitted

## Fixings

- **None:**  
Many grilles are ordered with no factory fitted fixings. In this instance we advise drilling through either the grille flange or grille neck and screwing directly into whatever substrate is being used.
- **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.



## Finish:

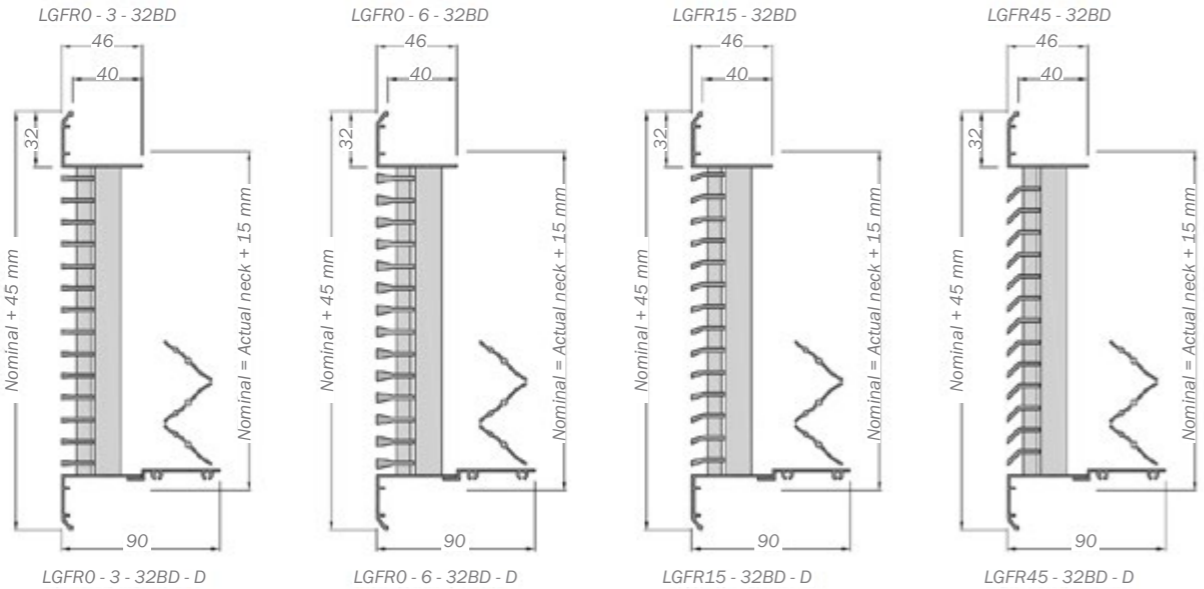
- SAA: Satin anodised (standard)
- Mill Aluminium
- RAL: Polyester powder coated to RAL
- BS: Polyester powder coated to BS



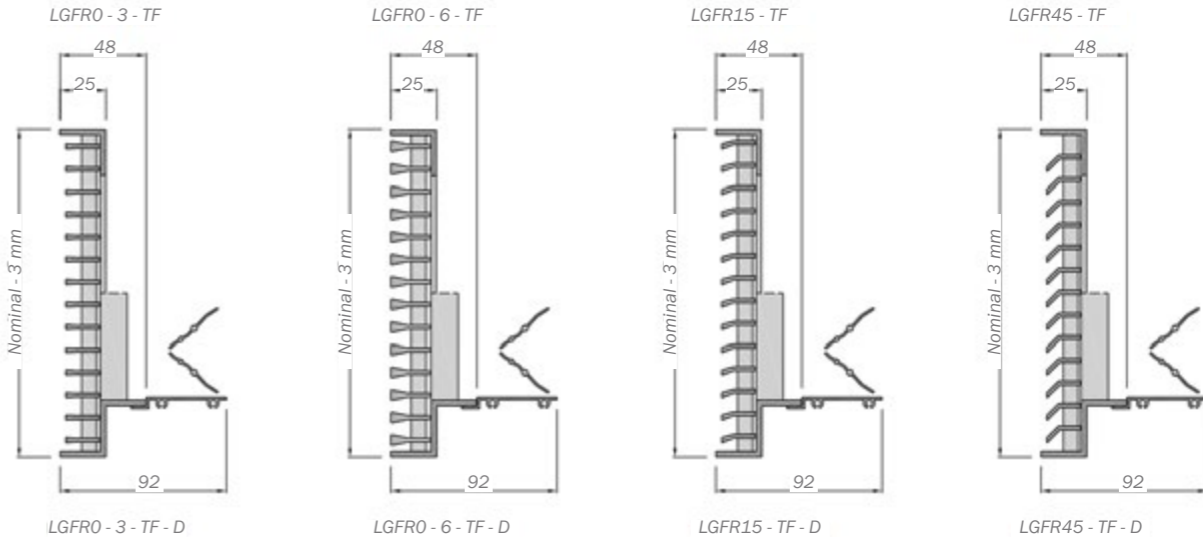
# Reinforced Linear Bar Grilles - LGFR

## Technical Drawings

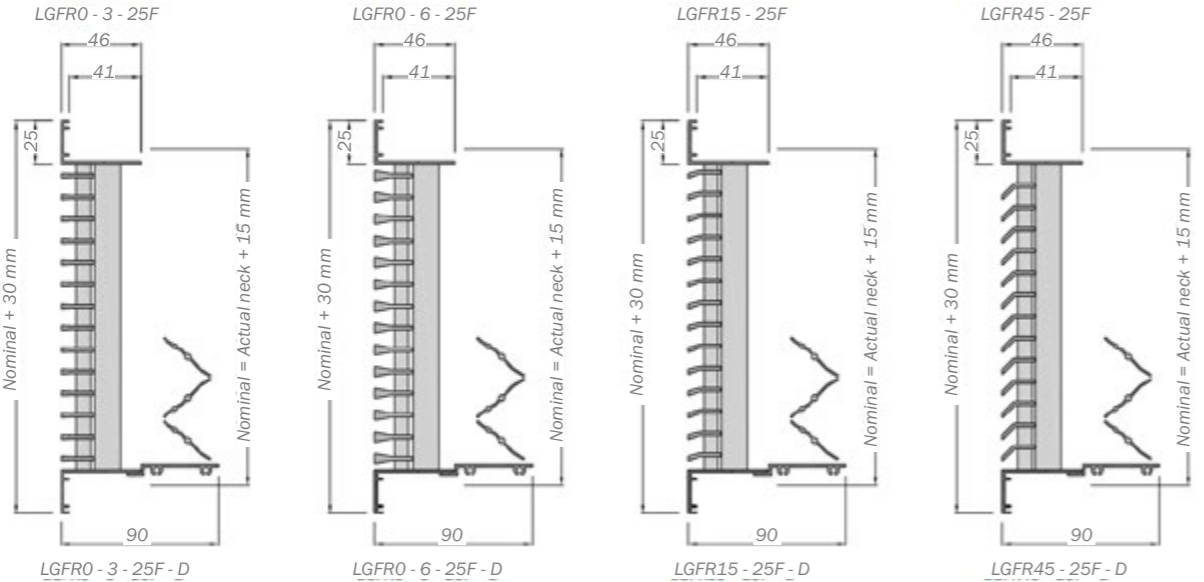
### 32BD - 32 mm Bevelled Deep Frame (standard):



### TF Tray Frame:



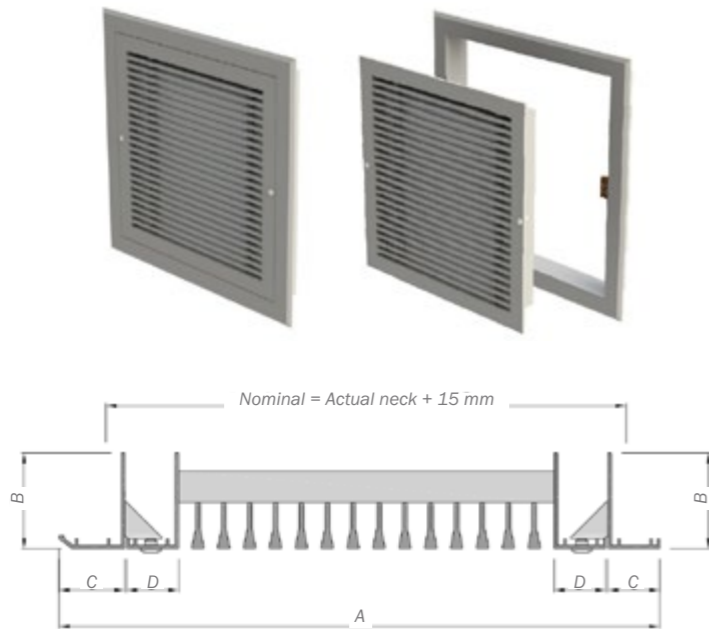
### 25F - 25 mm Flat Frame:



# Reinforced Linear Bar Grilles - LGFR

## Core Type:

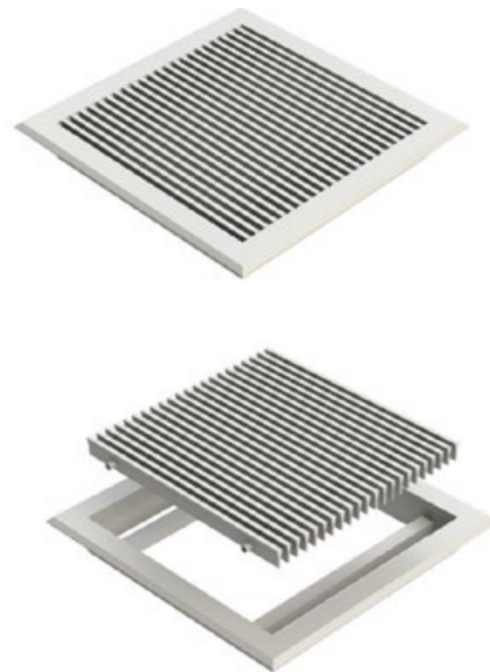
- **Fixed**
- **RC Removable Core - Twin Frame Quarter Turn:**  
Fitted with spring loaded quarter turn fasteners, the outer frame has angle brackets fixed to the inside of the neck.  
The inner removable frame holds the chrome plated, slotted head studs, which are easily removed with a flathead screwdriver.  
Other stud types are available for use with allen keys, or with a larger head for removal by hand.  
Cannot be used with tray frames.  
**Not suitable to use in floors.**



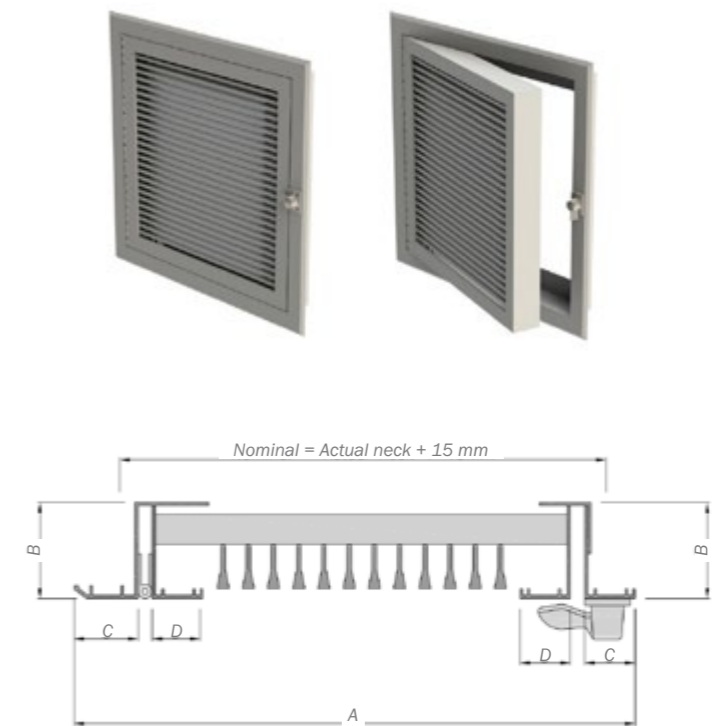
25F: 25 mm flat	
A	Nominal + 30 mm
B	46 mm
C	25 mm
D	25 mm

32BS: 32 mm bevelled	
A	Nominal + 45 mm
B	46 mm
C	32 mm
D	25 mm

- **Removable Core - Lay In:**  
Suitable for floor use only, lay in type removable cores have a single outer frame fitted with support bars.  
The core is simply laid into the grille neck aperture and sits on the support bars.



- **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.  
Outer frame must be either standard 32 mm bevelled Z section or 25 mm flat, inner frame will be reversed 25 mm flat.

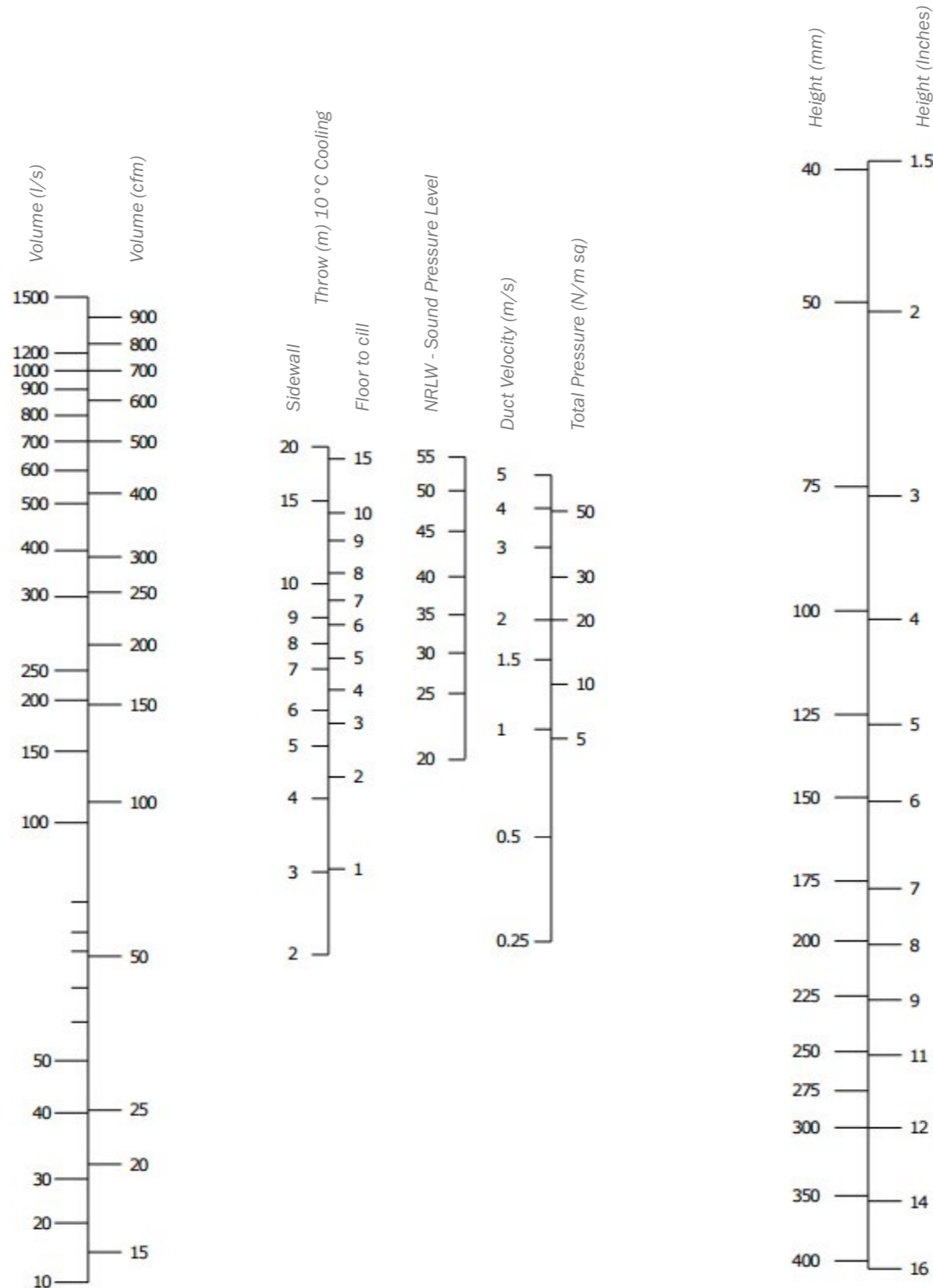


25F: 25 mm flat	
A	Nominal + 30 mm
B	48 mm
C	25 mm
D	30 mm


32BZ: 32 mm bevelled Z	
A	Nominal + 45 mm
B	48 mm
C	32 mm
D	30 mm


# Reinforced Linear Bar Grilles - LGFR


## Selection data




Figures based on 1 m wide LGFR0 - 3 - 12.5 fitted with OBD.  
 10 °C Cooling application with grille not more than 0.5 mm below ceiling.  
 For 6 mm blade multiply throw and pressure by 1.2 and increase sound by 2 dB.  
 For grilles without OBD multiply throw and pressure by 0.9 and reduce sound power level by 2.

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