



Incorporating



V2.1



Product spec >>>

> Series LG - Linear bar grilles

Grilles

Linear bar

Recommended for:

Wall, ceiling, cill, door

Extract & supply

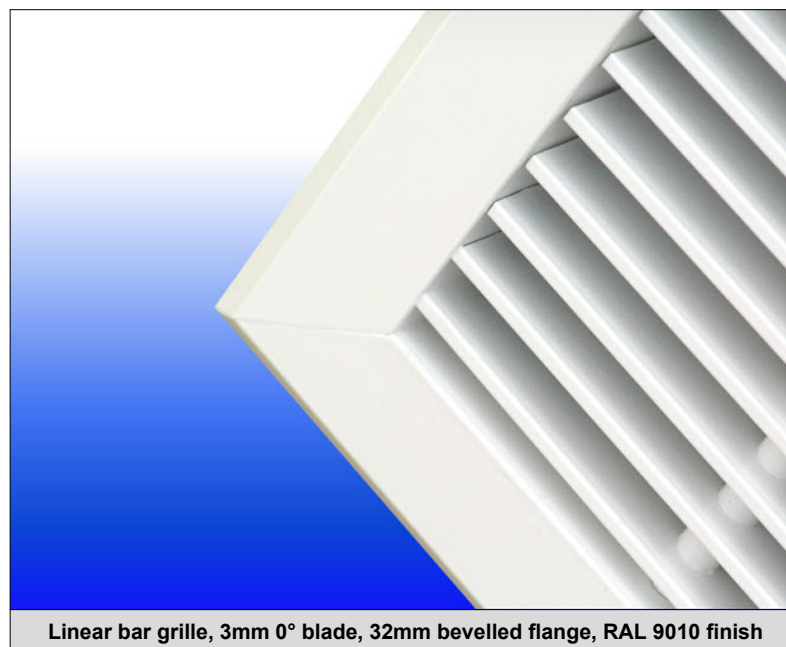
Overview

Wealth of customisation possibilities
Excellent performance in extract & supply

With the ability to create infinitely long banks, linear grilles combine high performance with excellent versatility.

The maximum 75% free area and the choice of angled blades means both supply and extract capability is assured, and the wealth of options including access panels and frame types means you can truly customise your grille to suit its environment.

Free area:	75%
Mass/M sq face area:	10.5 kg
Mass/M sq face area inc OBD:	18.5 kg



Linear bar grille, 3mm 0° blade, 32mm bevelled flange, RAL 9010 finish

Specifications:

Materials:	Extruded aluminium throughout.
Construction:	<p>Frame held together using punched in steel corners.</p> <p>Blades secured at 12.5mm or 20mm spacing using expanded aluminium bar.</p> <p>Aluminium expansion bar riveted into frame (fixed core units).</p>
Frame:	<p>Standard - 36mm bevelled.</p> <p>Optional - See following pages.</p> <p>Core only.</p>
Fixings:	<p>Standard - None.</p> <p>Optional - See page 10.</p>
Sizes:	<p>Minimum size single unit 100mm x 50mm.</p> <p>Maximum size single unit 2900mm x 2500mm.</p> <p>Mullions fitted on units above 2900mm wide.</p> <p>Unless stated on order 12.5mm spacing will be used when nominal grille height is less than 100mm, 20mm will be used when over 100mm.</p>
Finish:	<p>Standard - Satin anodised (AA5).</p> <p>Optional - Polyester powder coat to any RAL / BS colour.</p>

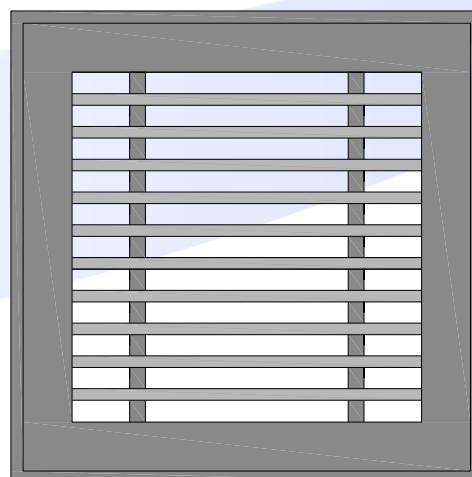
Powerful performance

With only smooth blades and tubing to pass around, air turbulence, pressure drops & noise are kept to a minimum. Enabling long, controlled throws when used for supply, and excellent performance as extract.

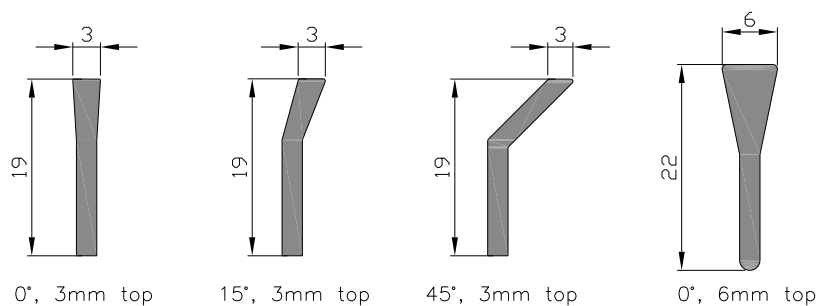
Blow patterns

Three blade angles (0°, 15° & 45°) mean that custom blow patterns can be created to maximise efficiency and effectiveness. Blade types can even be mixed in the same grille to give multi-directional throws.

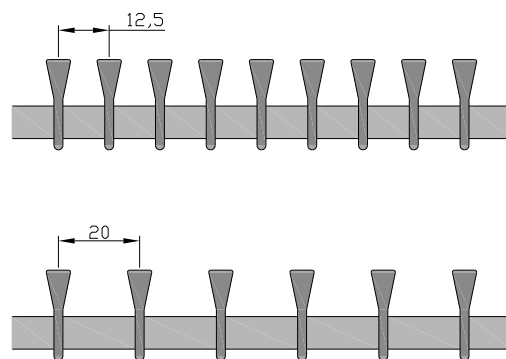
Blade pitches cannot be mixed.



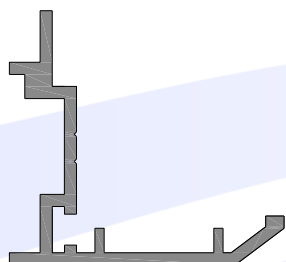
Blade options



Pitch options

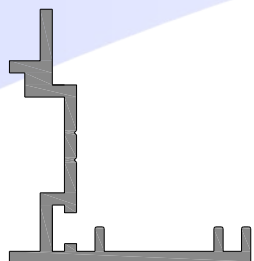


New 36mm and 31mm frames

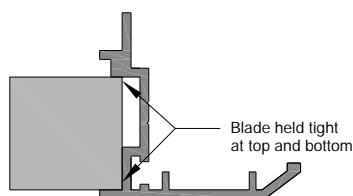


New 36mm bevelled: Designed as part of our continual drive to increase quality, the new 36mm bevelled frame for linear grilles eliminates a variety of quality issues.

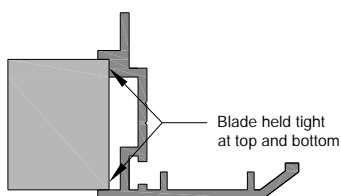
- The blade pack is held rigid within the frame itself, eliminating any bowing of the core.
- This has also massively increased core strength.
- An alignment strip slot allows multiple sections to be joined perfectly.
- A 4mm lip protrudes out over the blade edges, creating a seamless appearance.



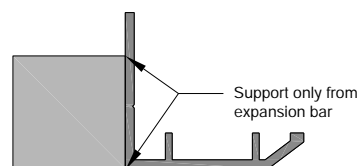
New 31mm flat: Brought in to compliment the 36mm bevelled frame, the new 31mm flat frame brings the same advantages described above, with a flat rather than bevelled frame design.



New 36mm bevelled frame with 3mm blade



New 36mm bevelled frame with 6mm blade



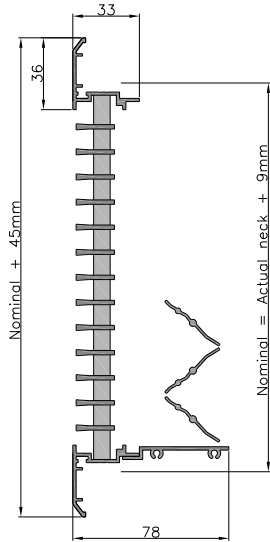
Old 32mm frame with 3mm blade

Grilles

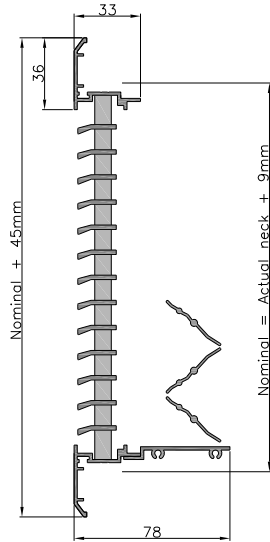
Linear bar

Models

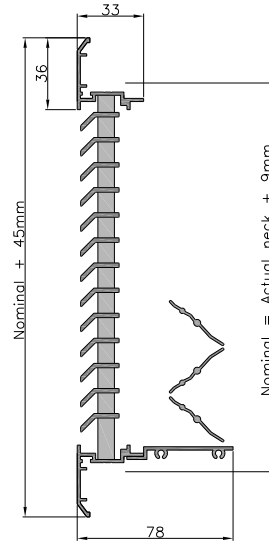
New 36mm bevelled frame



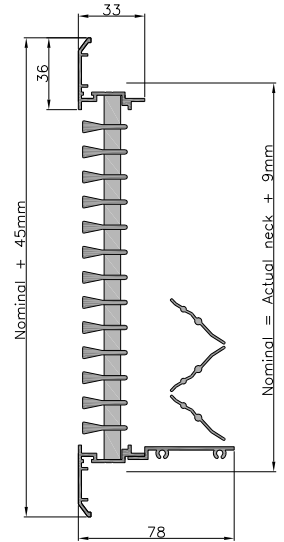
LG0° - 3mm - [D] - 12.5mm



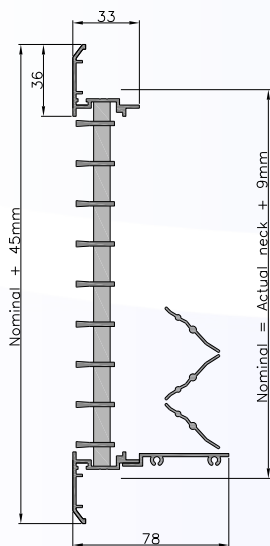
LG15° - [D] - 12.5mm



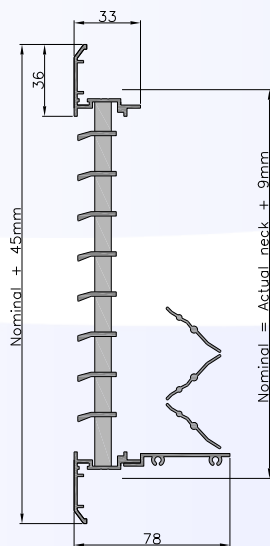
LG45° - [D] - 12.5mm



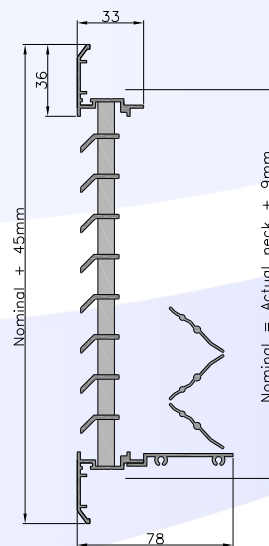
LG0° - 6mm - [D] - 12.5mm



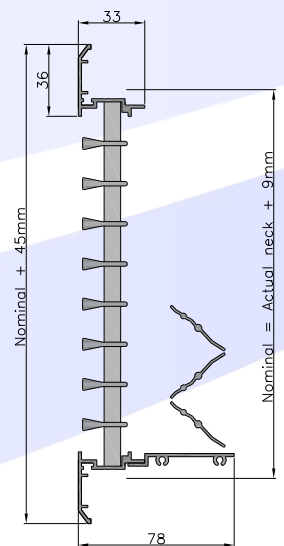
LG0° - 3mm - [D] - 20mm



LG15° - [D] - 20mm

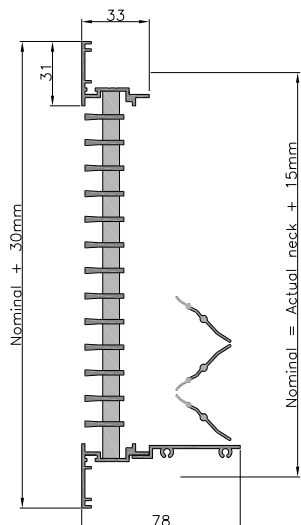


LG45° - [D] - 20mm

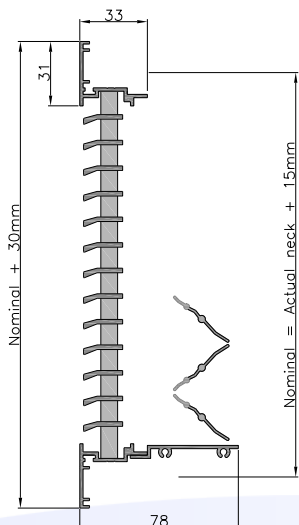


LG0° - 6mm - [D] - 20mm

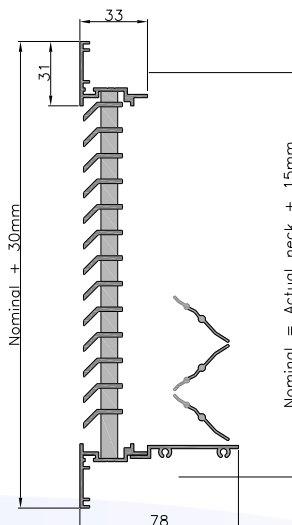
New 31mm flat frame



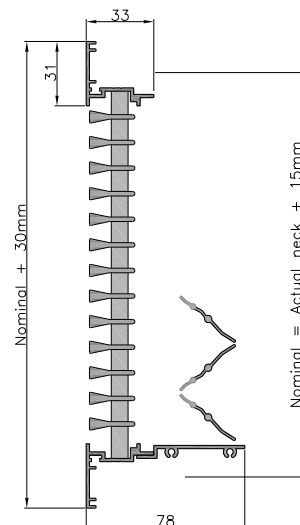
LG0° - 3mm - [D] - 31F - 12.5mm



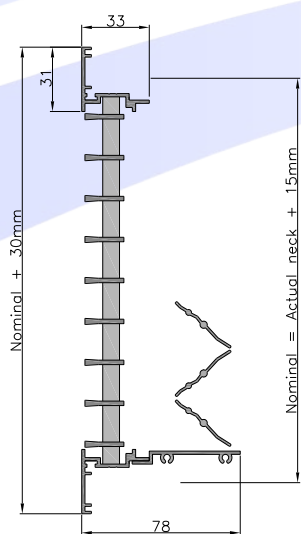
LG15° - [D] - 31F - 12.5mm



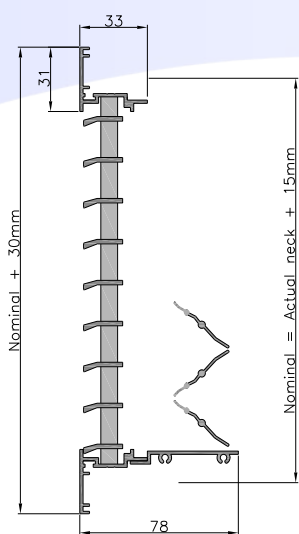
LG45° - [D] - 31F - 12.5mm



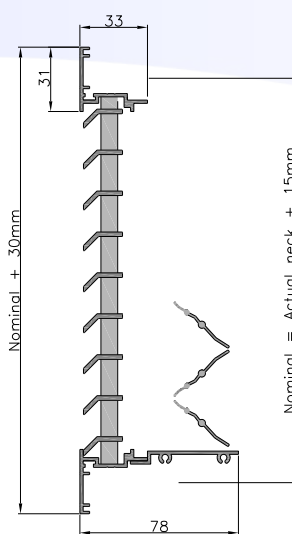
LG0° - 6mm - [D] - 31F - 12.5mm



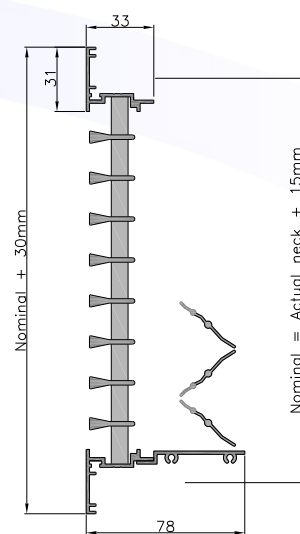
LG0° - 3mm - [D] - 31F - 20mm



LG15° - [D] - 31F - 20mm



LG45° - [D] - 31F - 20mm



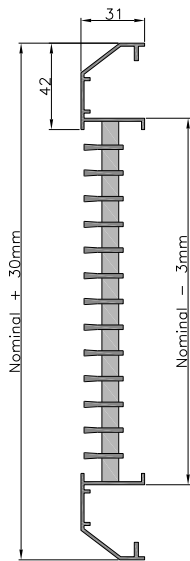
LG0° - 6mm - [D] - 31F - 20mm

Grilles

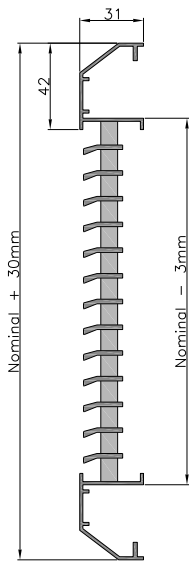
Linear bar

Models

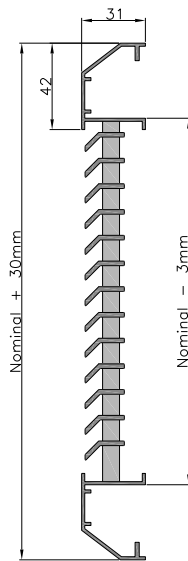
Surface mounted frame
Denoted frame type 9 in main catalogue



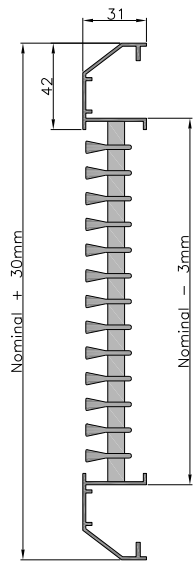
LG0° - 3mm - [D] - # 9 - 12.5mm



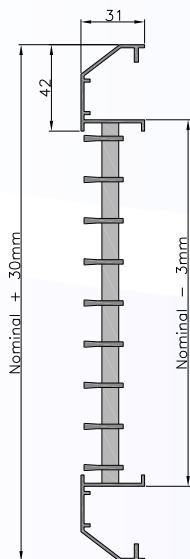
LG0° - 3mm - [D] - # 9 - 12.5mm



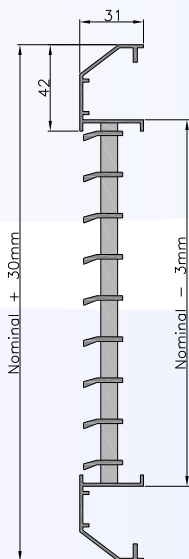
LG0° - 3mm - [D] - # 9 - 12.5mm



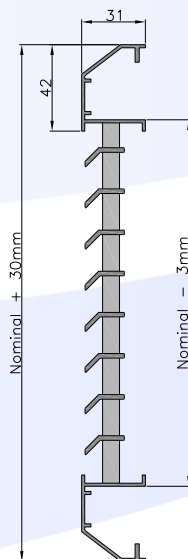
LG0° - 3mm - [D] - # 9 - 12.5mm



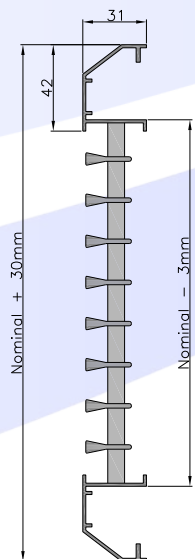
LG0° - 3mm - [D] - # 9 - 20mm



LG0° - 3mm - [D] - # 9 - 20mm

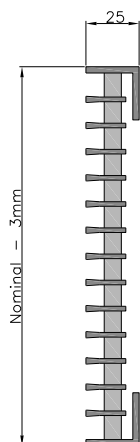


LG0° - 3mm - [D] - # 9 - 20mm

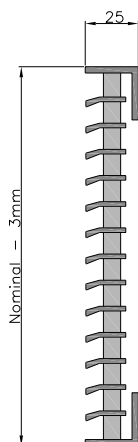


LG0° - 3mm - [D] - # 9 - 20mm

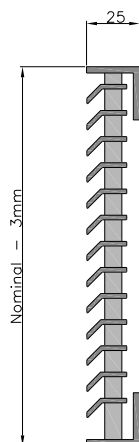
Tray frame



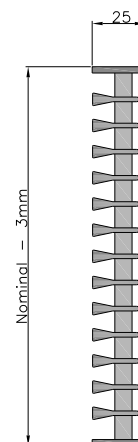
LG0° - 3mm - [D] - TFF - 12.5mm



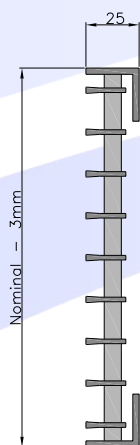
LG0° - 3mm - [D] - TFF - 12.5mm



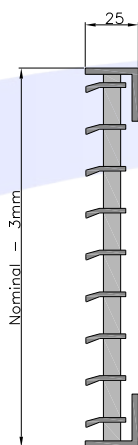
LG0° - 3mm - [D] - TFF - 12.5mm



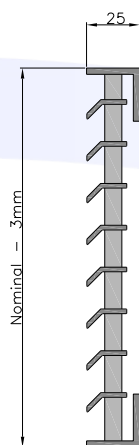
LG0° - 3mm - [D] - TFF - 12.5mm



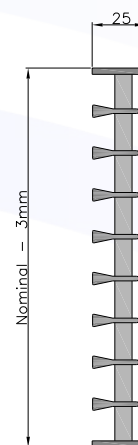
LG0° - 3mm - [D] - TFF - 20mm



LG0° - 3mm - [D] - TFF - 20mm



LG0° - 3mm - [D] - TFF - 20mm



LG0° - 3mm - [D] - TFF - 20mm

Grilles

Linear bar

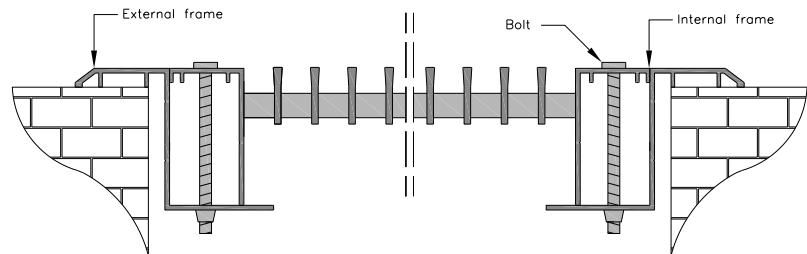
Core Options

Fully removable core: Ordering code suffix RC.

Enabling the core to be removed entirely from the frame allows maximum entry space into ductwork behind.

Held within its own frame, the core comes out in one whole unit for maximum ease.

Colour matched bolts are fitted as standard.

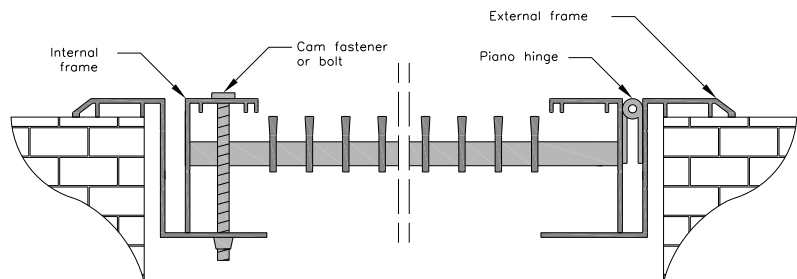


Hinged core: Ordering code suffix HC.

Held within its own frame as with the removable option, a silver piano hinge is fitted to one side of the internal frame.

Able to swing out to 180°, access through hinged grilles is comparable to their fully removable cousins.

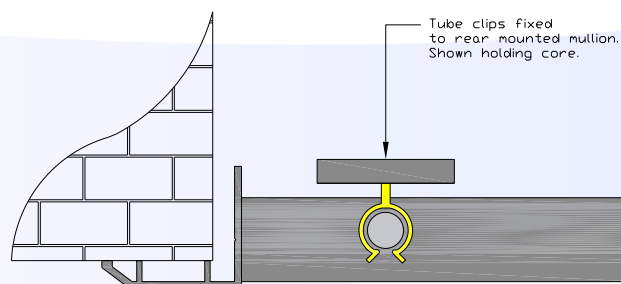
Cam fasteners are fitted as standard, bolts will be fitted upon specification.



Tube clips: Ordering code suffix TC.

Allows the easy removal of the grille core from the frame, permitting access to ductwork.

Lengths of mullion mounted to the frame span the rear of the grille. Tube clips, fixed to the mullion are designed to hold the expansion bars in the core.

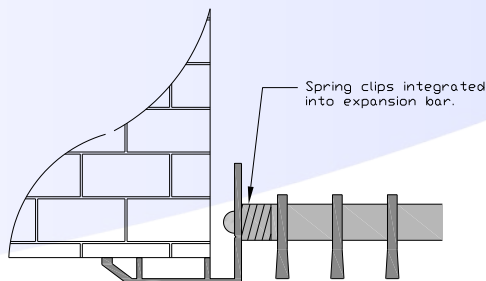


Quick release: Ordering code suffix QR.

Like tube clips, these allow the easy removal of the core from the frame. Quick release clips however do not rely on a rear mounted fixing frame.

Spring loaded fixing pins on the ends of the expansion bar mean that pushing the blades to compress the springs will allow the core to be fully removed from the frame.

For more core options like hinged and fully removable, see page 38.

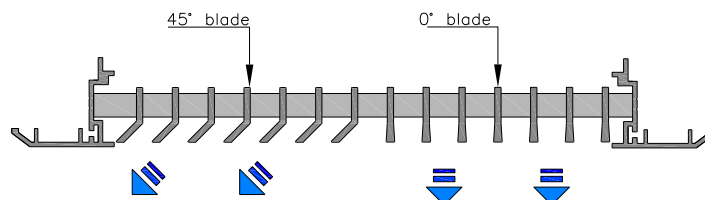


Custom set ups

Multiple way blows

To increase functionality, all three 3mm blade types can be used in a single grille.

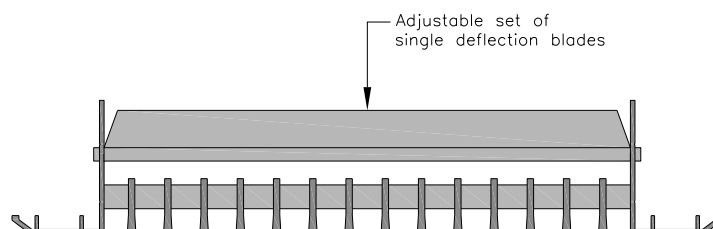
For example: When used just inside an entrance, 50% of the grille can be used with 0° blade to provide an air curtain, and the rest can use either 15° or 45° blade to direct air into the room.



Single deflection blades

Code suffix SD

A bank of SD type blades can be mounted behind the LG grille blades. Enabling throw adjustment in one plane.

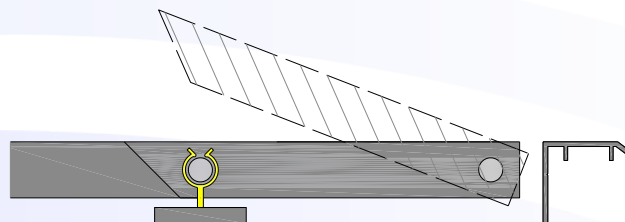


Hinged access blades / panels

Code suffix AB/AP

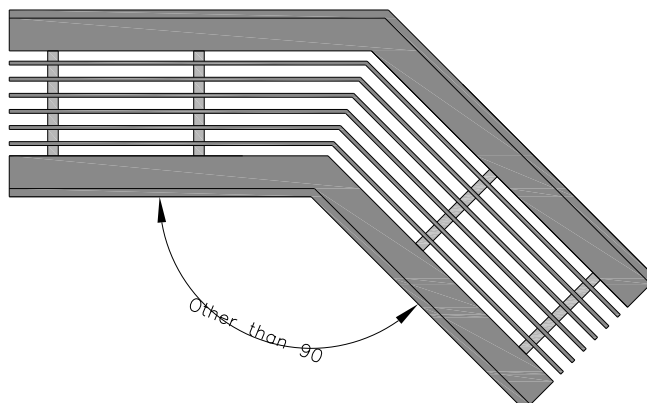
To allow access through the grille face, without having to opt for a fully removable core or removing the whole grille, blades or a panel can be hinged enabling access through the core.

The section swings out to 90°, and integrated tube clips prevent the panel swinging out unexpectedly if mounted in a wall or ceiling.



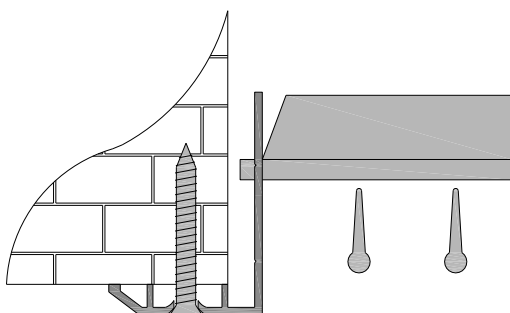
Mitred sections

For true bespoke installations, mitred sections can be made to suit corners. Whether these are a standard 90° corner for ceiling fitting, or an internal or external corner for sidewall fitting at an angle other than 90° we can manufacture them.



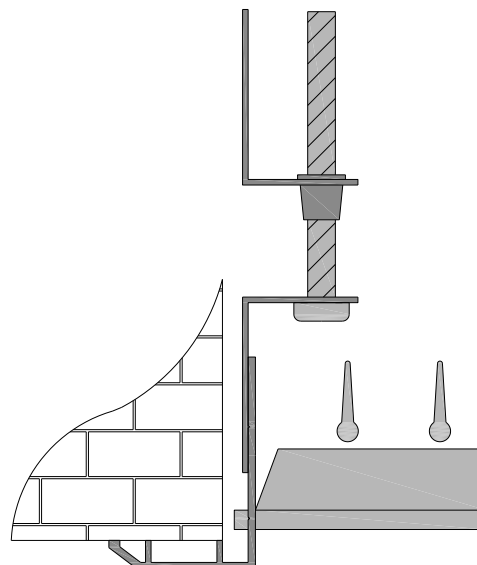
Grilles

Linear bar



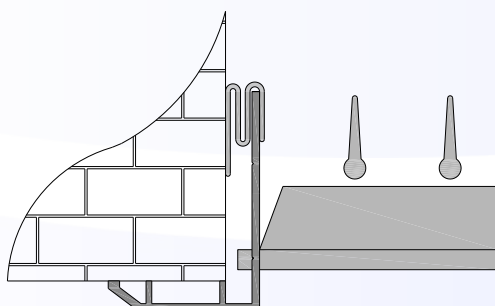
Countersunk fixing holes: Code suffix FH

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



Concealed fixings: Code suffix CF

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.

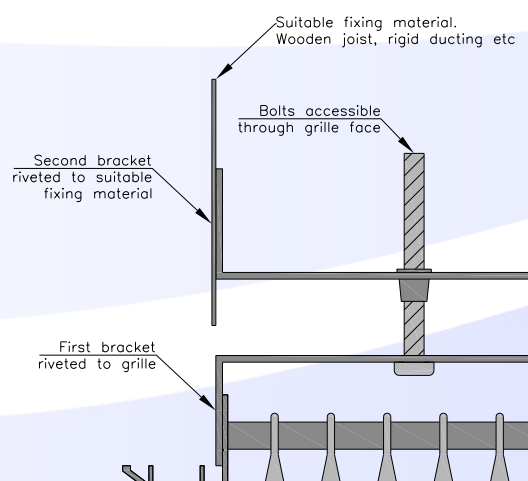


Push-in clip method: Code suffix PC

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

This method has the advantage of requiring no drilling or bolting, for maximum ease and causing no damage to walls.

Please note this fitting method is not suitable for use in ceilings.



Goalpost method: Code suffix GB

Normally used on linear slot diffusers, HVC has made this effective fixing method available to a wider range of grilles with the addition of a second bracket.

It enables the whole grille to be fully supported by, and removable from the plenum.

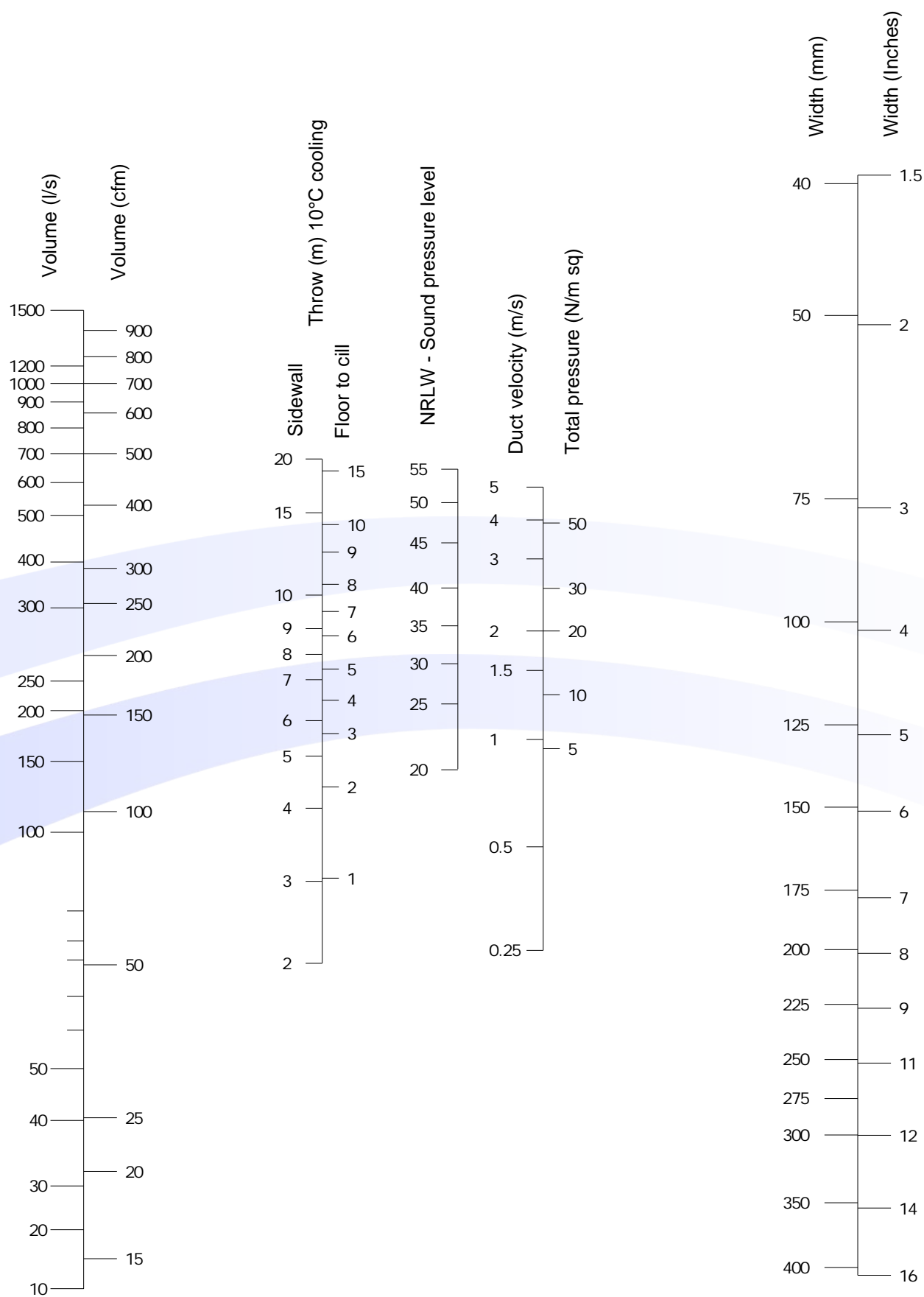
This method is only suitable for linear grilles with 0° blade, single / double deflection grilles, egg crate grilles, curved blade grilles, and any other grille with the removable or hinged core option specified.

All values include for fitted opposed blade dampers.

Throw values based on a 10°C cooling application.

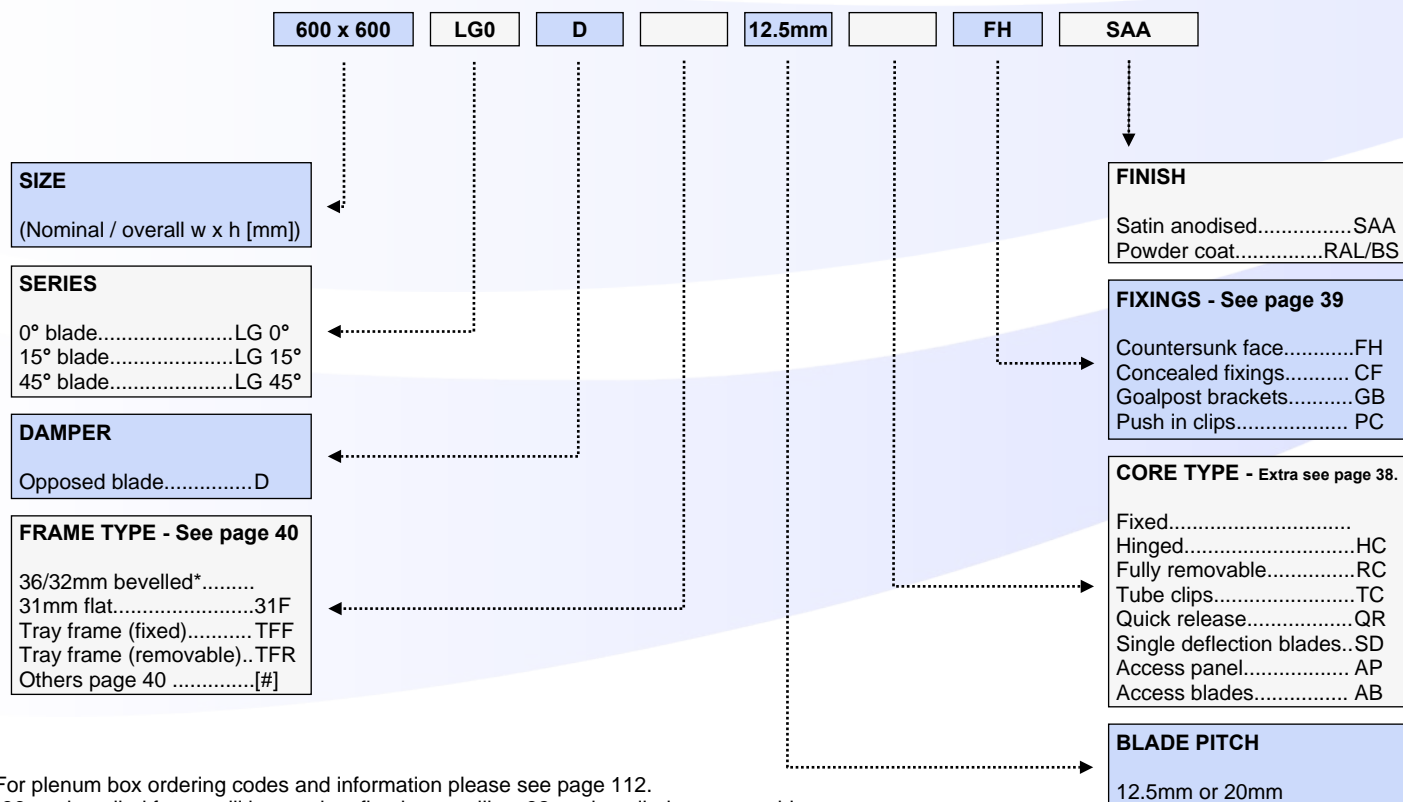
Sidewall throw assumes flat ceiling not more than 0.5m above grilles centre.

Series LG



Grilles

Linear bar



For plenum box ordering codes and information please see page 112.

*36mm bevelled frame will be used on fixed core grilles, 32mm bevelled on removable.



Supplies Ltd

Grilles & diffusers

Louvres

Fire / Fire smoke dampers

Volume control dampers



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Incorporating:



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