

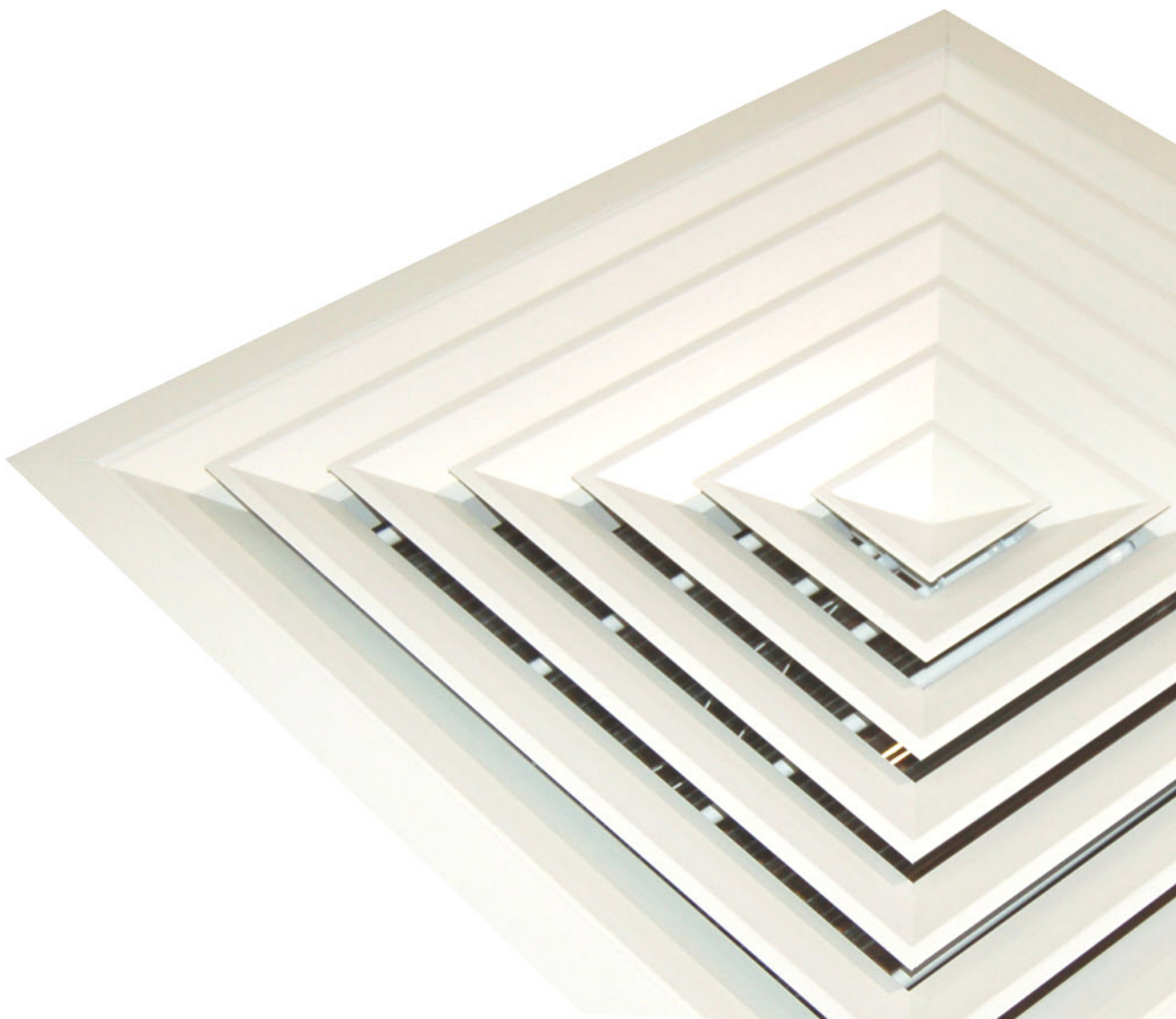


2012 product line

Grilles

Diffusers

External Louvres

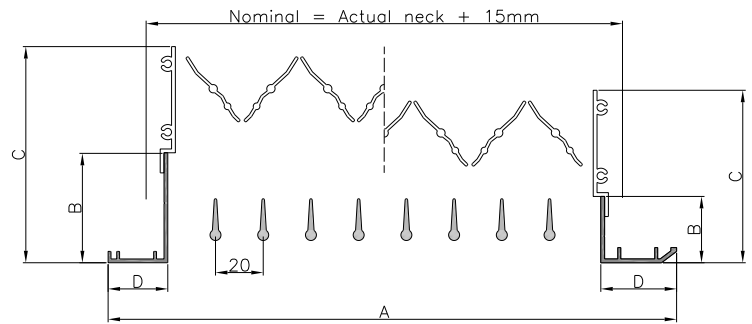
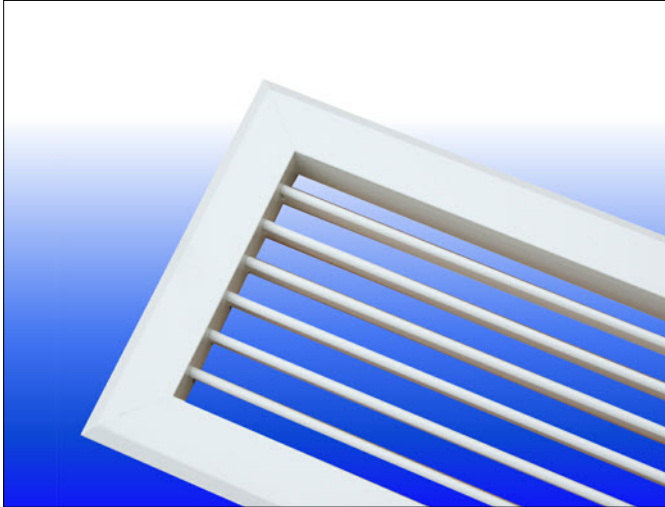


Grille & diffuser range

Single deflection and fixed blade grilles

Single deflection grilles have a single bank of fully adjustable blades for throw adjustment in one plane.

Fixed blade grilles have the blade pack fixed at either 0°, 15° or 45°.

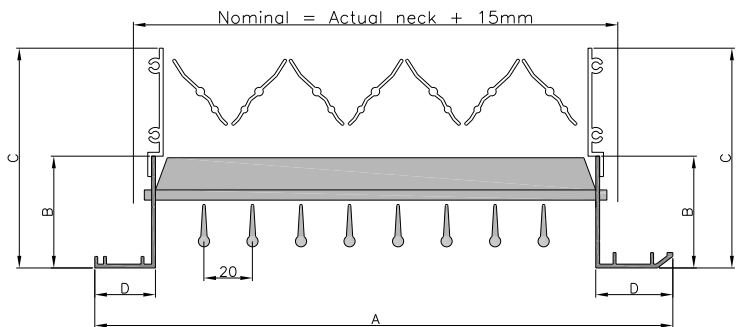
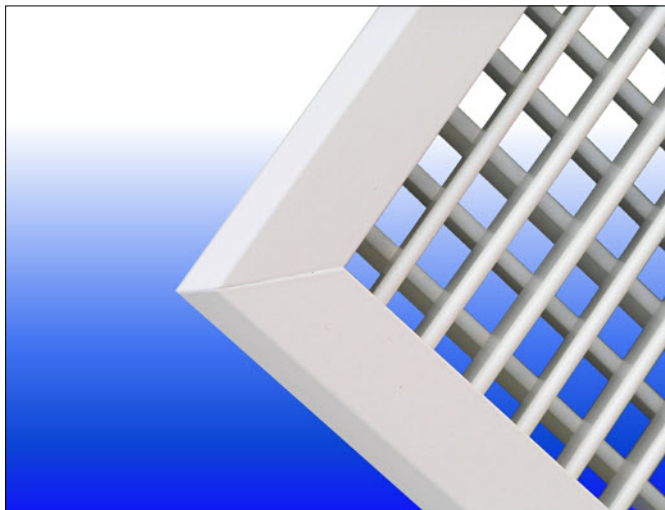


	25mm flat (Opt)
A	Nominal + 30mm
B	46mm
C	90mm
D	25mm

	32mm bevelled (Std)
A	Nominal + 45mm
B	28mm
C	72mm
D	32mm

Double deflection grilles

Double deflection grilles add a second set of adjustable blades, set at 90° to the first set. This allows throw adjustment in both planes, allowing greater throw adjustment than single deflection grilles.



	25mm flat (Opt)
A	Nominal + 30mm
B	46mm
C	90mm
D	25mm

	32mm bevelled (Std)
A	Nominal + 45mm
B	46mm
C	90mm
D	32mm

Stock product

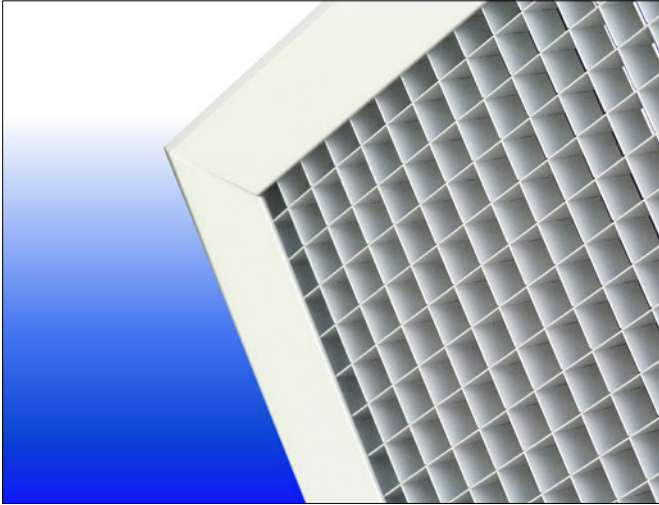
The following sizes are kept in stock for quick delivery.
Satin anodised and RAL9010 available.

150², 200², 250², 300², 350², 400², 450², 500²

200 x 150, 300 x 150, 300 x 200, 400 x 200

Egg crate grilles

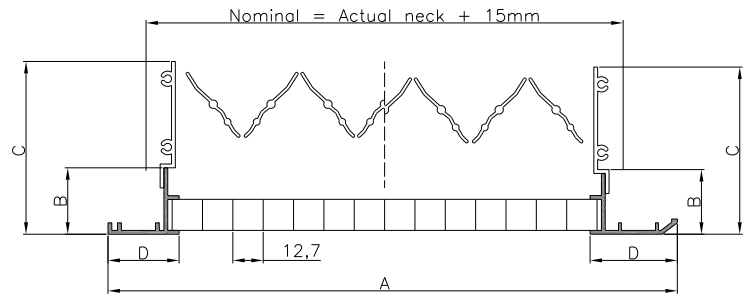
The industry standard extract grille, egg crate grilles have a free area of around 90%, meaning they can handle large air volumes with minimal pressure drops or noise generation.



Stock product

The following sizes are kept in stock for quick delivery. RAL9010 finish, with and without opposed blade dampers.

150², 200², 250², 300², 350², 400², 450², 500², 595² Overall face

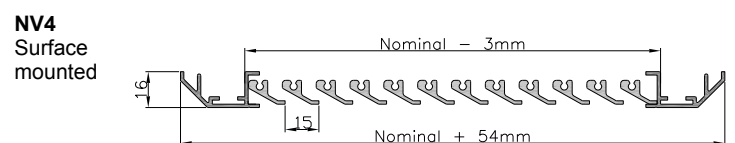
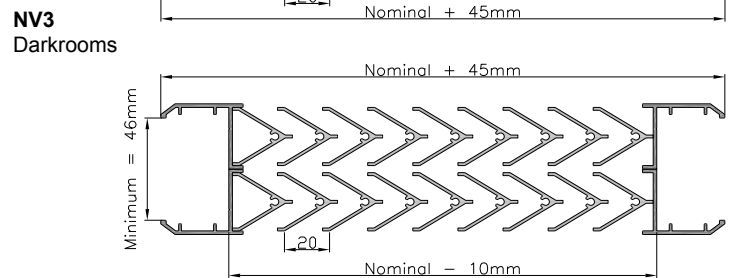
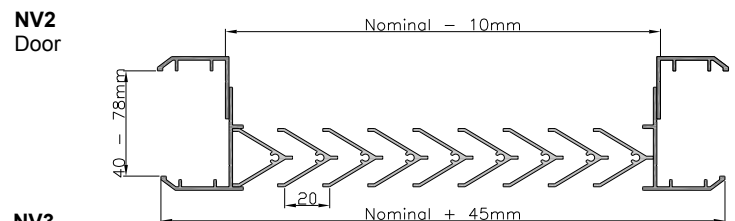
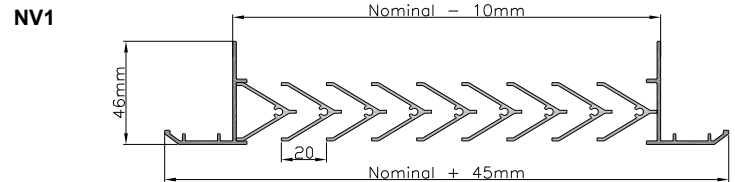


	30mm flat (Opt)
A	Nominal + 30mm
B	28mm
C	72mm
D	30mm

	37mm bevelled (Std)
A	Nominal + 45mm
B	28mm
C	70mm
D	37mm

Non vision grilles

Designed to block line of sight from all angles (NV4 from most), non vision grilles are used where privacy must be maintained, like bathrooms and doctors surgeries.

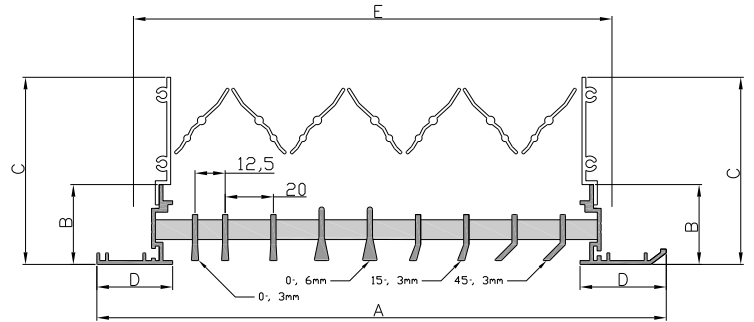
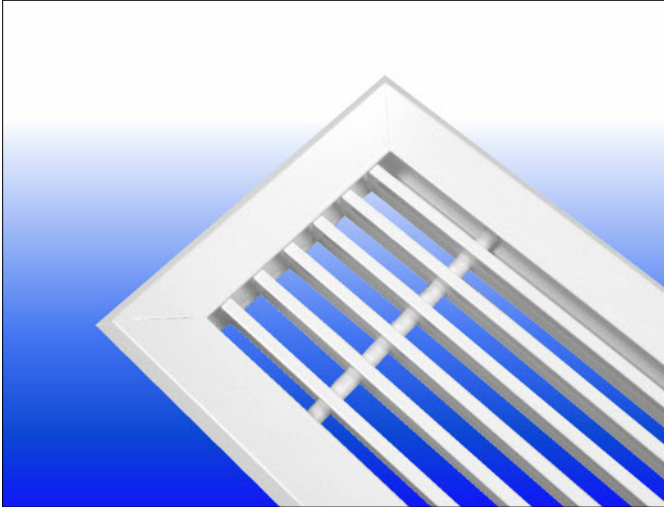


Linear bar grilles

An extremely versatile grille series. Blade profiles include 0° with 3mm or 6mm tops, 15° and 45°, all of which can be set on a 12.5mm or 20mm blade pitch.

Other options like removable and hinged cores are also available.

If required a reinforced linear bar grille can be offered, for use in floors or walls where impact resistance is required.



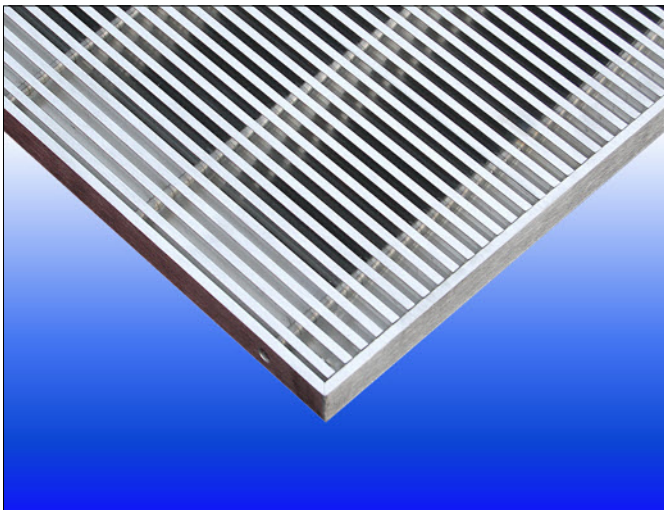
	31mm flat flange (Opt)
A	Nominal + 30mm
B	33mm
C	76mm
D	31mm
E	Actual neck + 15mm

	36mm bevelled (Std)
A	Nominal + 45mm
B	33mm
C	76mm
D	36mm
E	Actual neck + 9mm

Computer room floor grilles - BS Heavy Grade

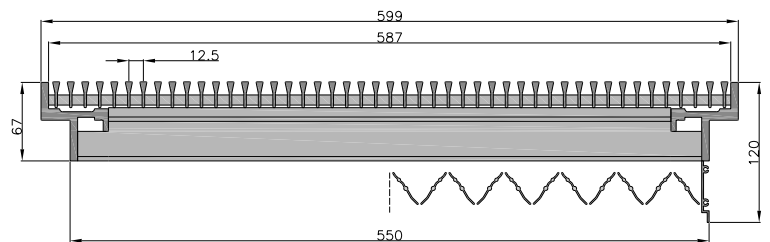
Designed to suit raised access flooring systems, computer room floor grilles have been tested to BS EN 13264:2001.

Manufactured from extruded aluminium throughout, the grilles have supreme strength, yet are lightweight enough to allow one man to lift and fit comfortably.



Stock product

600mm² units are kept in stock for quick delivery.

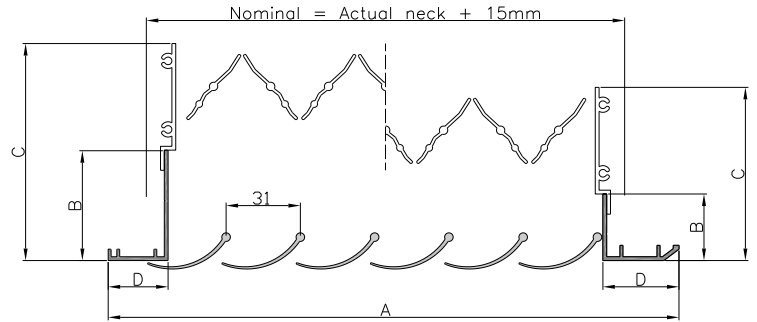


Grille & diffuser range continued

Curved blade (eyelash) grilles

Curved blade grilles have an unconventional appearance, and allow throw adjustment thanks to the single bank of individually adjustable blades.

1, 2, 3 and 4 way blow set ups available.



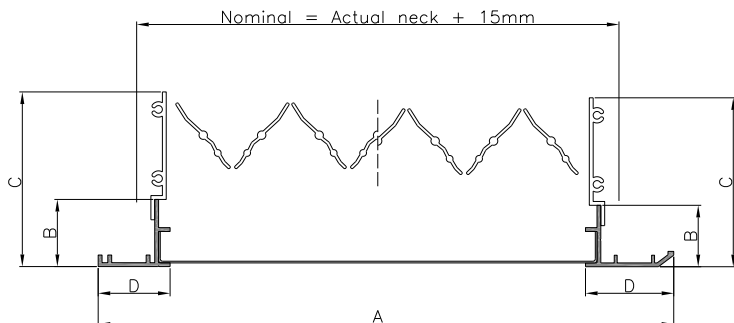
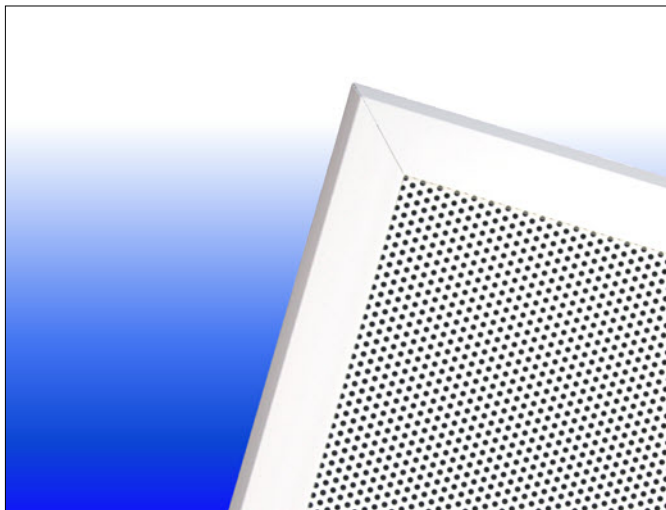
	25mm flat (Opt)
A	Nominal + 30mm
B	46mm
C	90mm
D	25mm

	32mm bevelled (Std)
A	Nominal + 45mm
B	28mm
C	72mm
D	32mm

Perforated plate grilles

Perforated plate grilles use a perforated steel core, to create a tamper resistant unit providing a stable downward throw, perfect for laboratories, hospital operating theatres etc.

Deflector plates can be fitted behind the face to allow different blow patterns to be created.



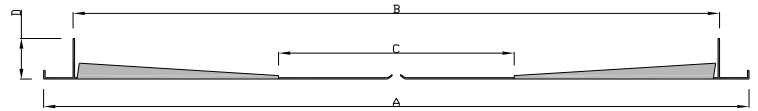
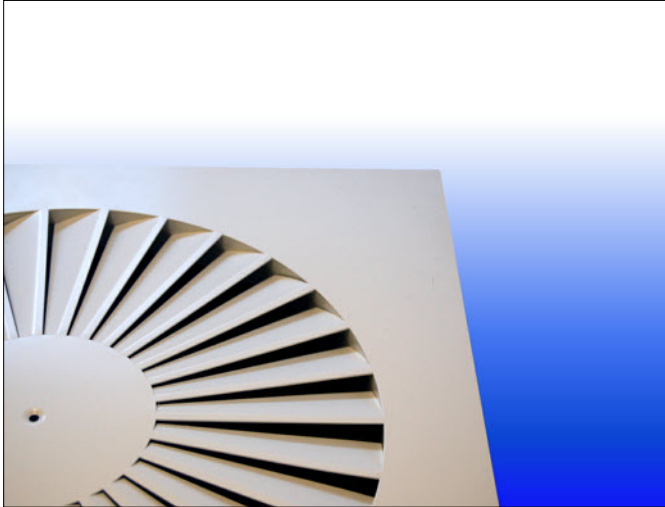
	30mm flat flange (Opt)
A	Nominal + 30mm
B	28mm
C	72mm
D	30mm

	37mm bevelled (Std)
A	Nominal + 45mm
B	28mm
C	70mm
D	37mm

Grille & diffuser range continued

Fixed blade swirl diffusers

Fixed blade swirl diffusers are extremely effective diffusion units. They create a downward throw of swirling air which rapidly pulls in surrounding air, mixing the supplied and resident air very effectively.

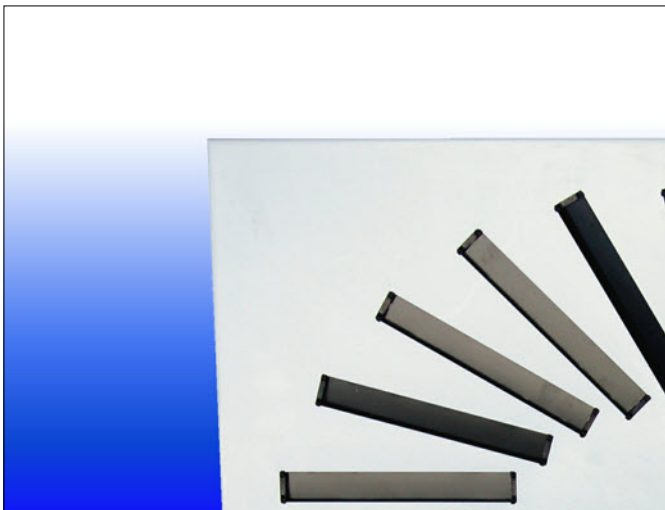


SWF	A (mm)	B (mm)	C (mm)	D (mm)
1	595	254	80	40
2	595	356	100	40
3	595	457	160	40
4	595	533	200	40

Adjustable blade swirl diffusers

Just like their fixed counterparts, adjustable swirls are extremely effective diffusion units.

Instead of pressed blades fixed at an angle, these have individually adjustable, matt black deflector blades set behind the face. This allows clockwise, anti-clockwise or straight down throws to be created.



Stock product

Adjustable blade swirl diffusers are kept in stock for quick delivery, RAL9010 finish.

SWA	A (mm)	B (mm)	C (mm)
1	595	537	240

Dimensions explained on fixed swirl diagram.

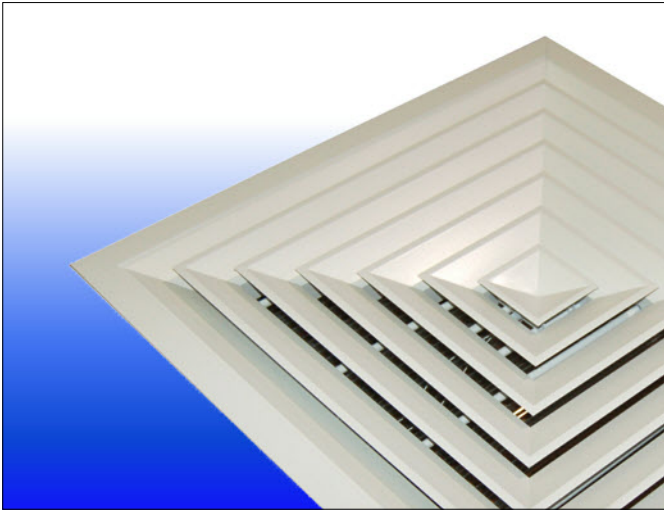
Dimension B describes diameter between outermost points of deflector blades. Not a small spigot as with fixed swirls.

Ceiling diffusers

A consistently popular product, ceiling diffusers are found in almost every commercial building.

Made from extruded aluminium throughout, ceiling diffusers are guaranteed to be rattle free, unlike some cheaper pressed models.

All sizes under 1200mm x 1200mm have a spring-loaded removable core as standard.

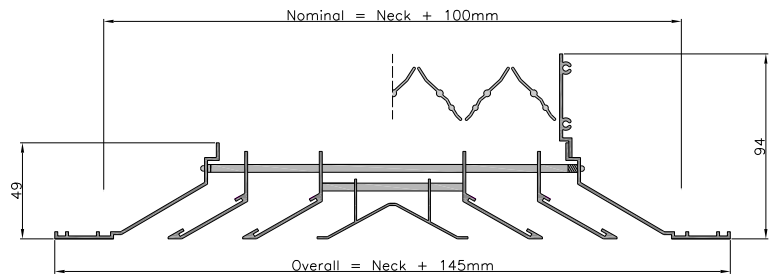


Stock product

The following sizes of four way blow ceiling diffuser are kept in stock for quick delivery.

RAL9010 finish, with and without opposed blade dampers.

150², 200², 225², 250², 300², 375², 595² Overall face

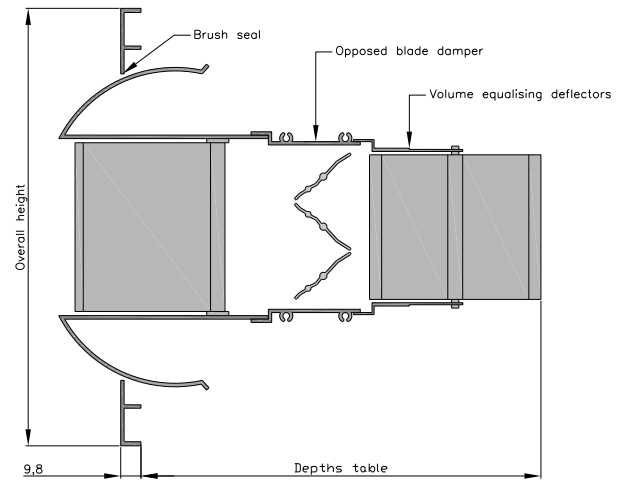


Drum jet diffusers

Providing an exceptionally long throw, drum jet diffusers are supply units capable of handling large air volumes whilst also giving maximum control over throw direction.

Stock product

All sizes shown in the table are kept in stock for quick delivery, in both RAL9010 and satin anodised finish.



Size	Nominal (mm)		Overall (mm)		Depth	Depth c/w OBD	Depth c/w OBD & VED
	W	H	W	H			
A	244	164	297	208	62	106	194
B	321		373				
C	473		525				
D	625		678				
E	524	259	576	303	100	144	232
F	651		703				
G	778		830				
H	905		957				

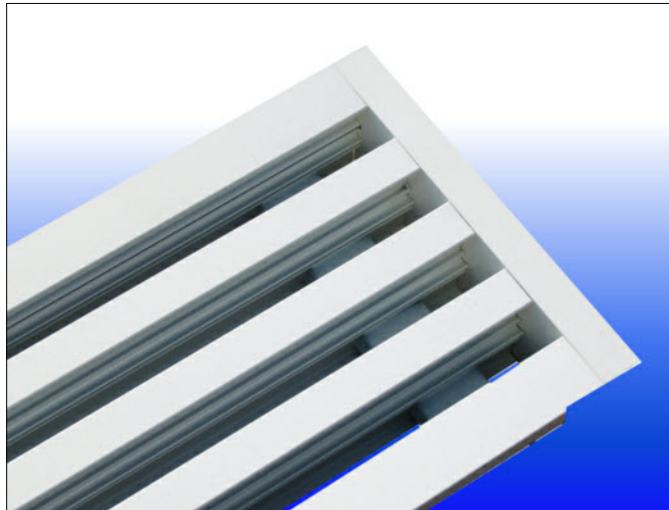
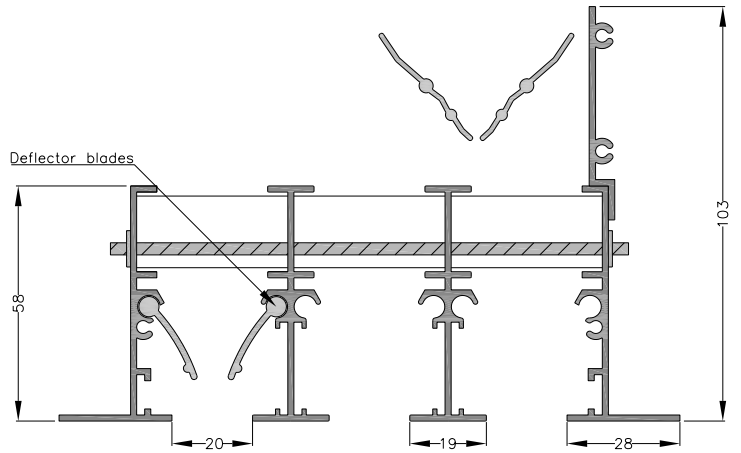
Grille & diffuser range continued

Linear slot diffusers

Commonly seen in commercial installations, runs of unlimited lengths can be created using multiple linear slot diffusers.

When used for supply, matt black internal deflector blades can be specified enabling throw adjustment. End caps and pressure equalising grids can also be specified.

Slot boxes to suit can also be supplied.

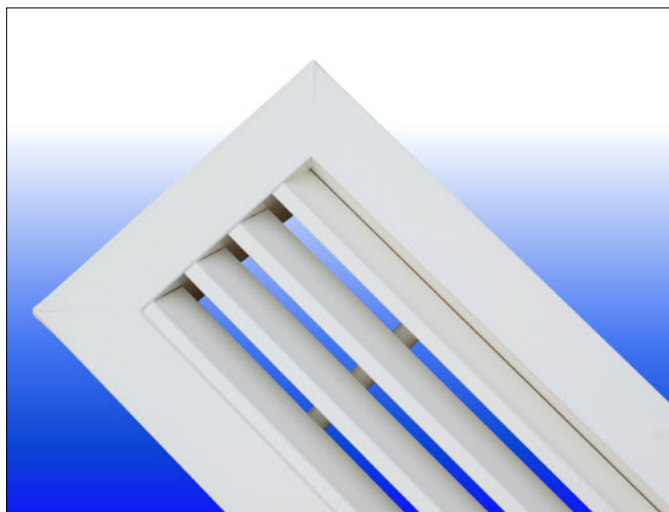
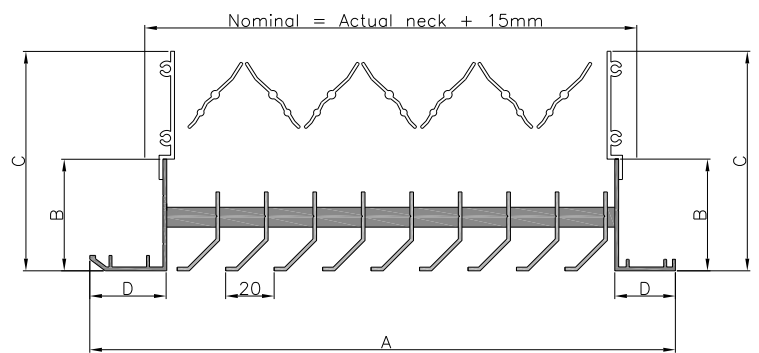


Slot number	Overall face (mm)	Actual neck (mm)
1	76	40
2	115	78
3	154	117
4	193	155
5	232	193
6	271	232
7	310	270
8	349	309

Linear ceiling diffusers

Much like linear bar grilles in construction, linear ceiling diffusers use a larger 45° blade set at a 20mm pitch. This creates a large free area for high air volumes, whilst also having the blade surface to deflect air effectively.

Available in one or two way blow models, with two ways having an equal or unequal split.



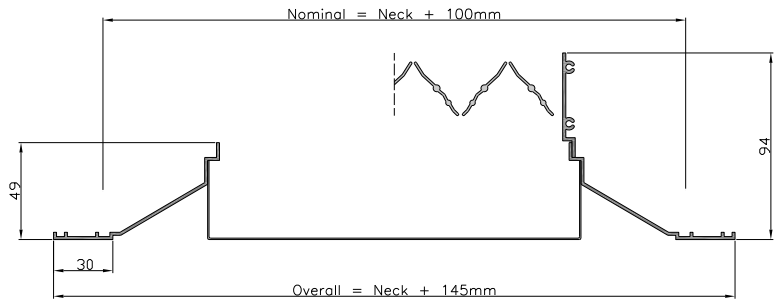
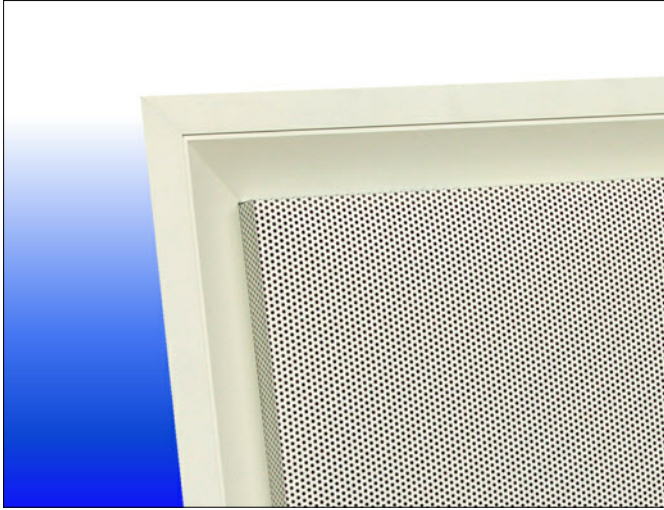
	32mm bevelled (Opt)
A	Nominal + 45mm
B	46mm
C	91mm
D	32mm

	25mm flat flange (Std)
A	Nominal + 30mm
B	46mm
C	91mm
D	25mm

Perforated plate diffusers

Using the same outer frame as standard louvre faced ceiling diffusers, perforated plate diffusers are tamper resistant, and create a stable throw creating areas of clean supplied air.

This is in contrast to other units like ceiling diffusers which are designed to mix supplied and resident air as quickly as possible.



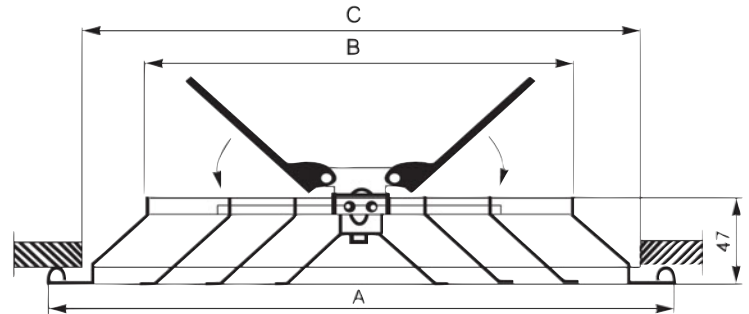
Small format circular diffusers

Series SFCDA

Circular diffusers are suitable for use in large open plan areas requiring high changeover rates, like arenas and exhibition halls.

Stock product

All sizes shown in the table are kept in stock for quick delivery, in both RAL9010 and satin anodised finish.

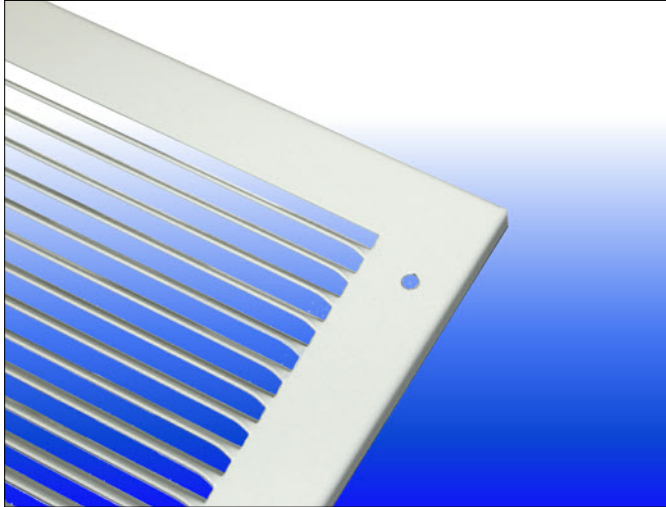


SIZE	DIMENSIONS (mm)		
	A	B	C
150	257	149	225
200	307	199	275
250	357	249	325
300	407	299	375
350	457	349	425

Grille & diffuser range continued

Pressed steel grilles, diffusers and registers

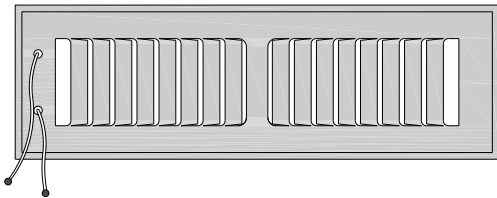
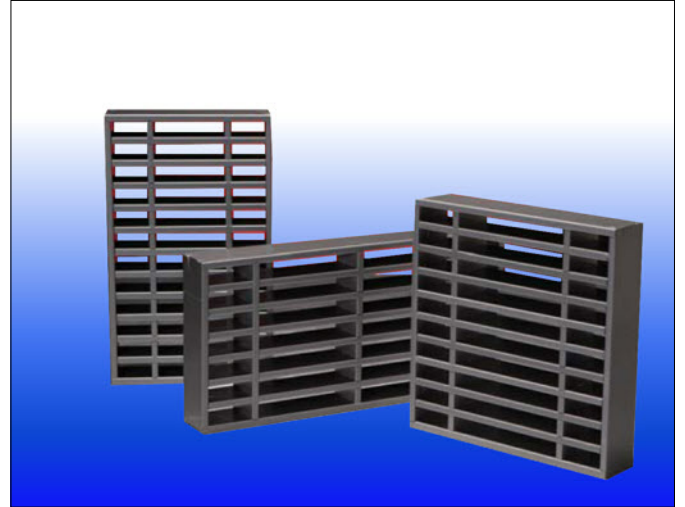
A cost effective type of grille, normally used in domestic warm air heating systems. Can also be used in fire doors in conjunction with intumescent fire blocks or slimline fire dampers.



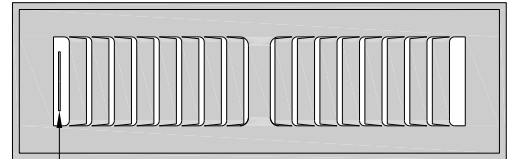
Intumescent fire blocks

Fire rated for 1 hour, intumescent fire blocks expand quickly when exposed to flames to create a barrier through which fire and smoke cannot pass.

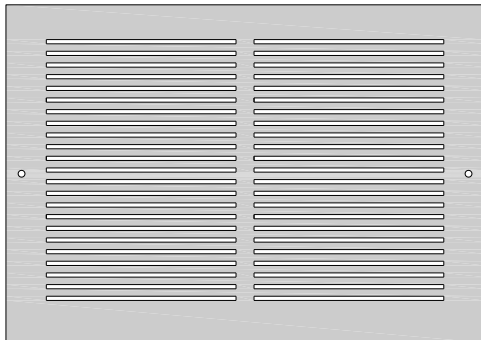
The intumescent material is covered with a smooth finish to help prevent dust build up and aiding cleaning.



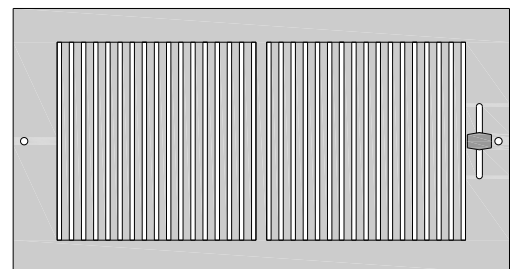
**Pressed steel ceiling diffuser
No.28 Type B**
Incorporates a cord operated damper



Pressed steel floor diffuser
Incorporates a roller operated damper



Pressed steel grille
No damper

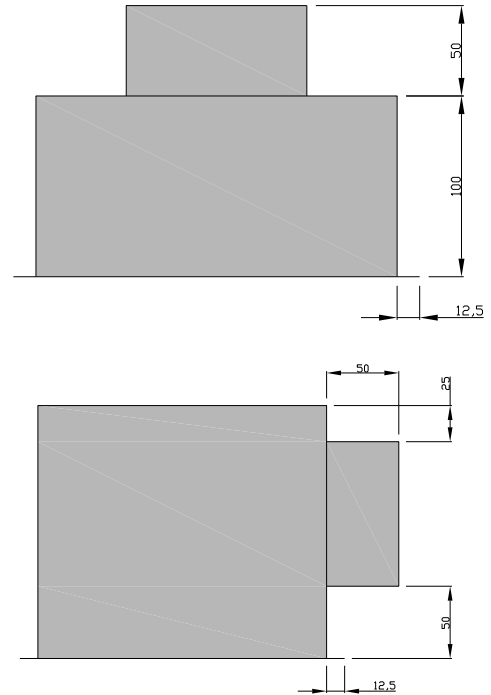
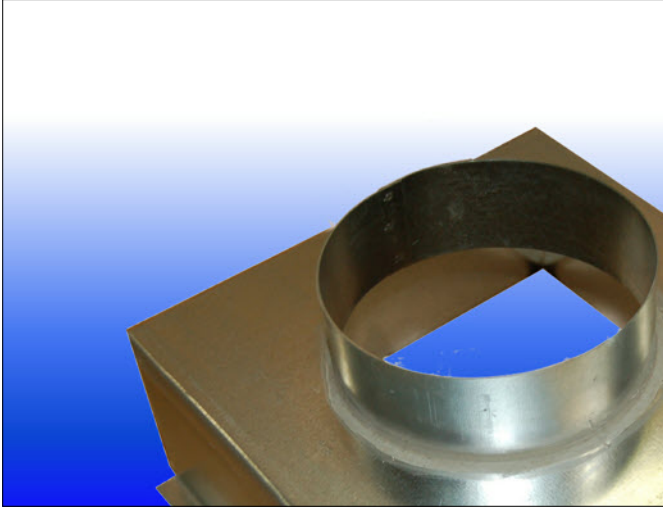


Pressed steel register
Incorporates a lever operated damper

Plenum boxes

Although not a grille or diffuser, plenum boxes are just as integral in the majority of ventilation systems.

Fire rated plenum boxes are available.



Grille & diffuser options

Polyester powder coating

The majority of grilles and diffusers shown in the catalogue can be polyester powder coated to any RAL or BS colour.

Some products cannot be powder coated due to plastic parts etc. Please see the table.

Nylon coating

A specialist finish, nylon coating is used in favour of polyester coating where extreme durability or resistance to static electricity build up is needed.

These qualities mean computer room floor grilles are often nylon coated, as static electricity build-ups in data centres can be disastrous.

Opposed blade dampers

Fitted to the rear of many grilles and diffusers, opposed blade dampers are used to trim the airflow through the terminal.

Suitable for use in supply or extract situations.

Please see the table for which products can be fitted with OBDs.

Grille/Diffuser type	PPC	OBD	Notes
Single deflection	✓	✓	
Fixed blade	✓	✓	
Double deflection	✓	✓	
Egg crate	✓	✓	
Non vision	✓	✓	
Curved blade	✓	✓	
Perforated plate	✓	✓	
Linear bar	✓	✓	
Computer room floor	✓	✓	
Pressed steel grille	✓	✗	
Pressed steel register	✗	✗	Includes damper
Pressed steel diffuser	✗	✗	Includes damper
Ceiling diffuser	✓	✓	
Drum jet	✓	✓	
Linear slot	✓	✓	
Linear ceiling	✓	✓	
Circular diffuser	✓	✗	Includes butterfly damper
Fixed swirl	✓	✗	
Adjustable swirl	✗	✗	RAL9010 only

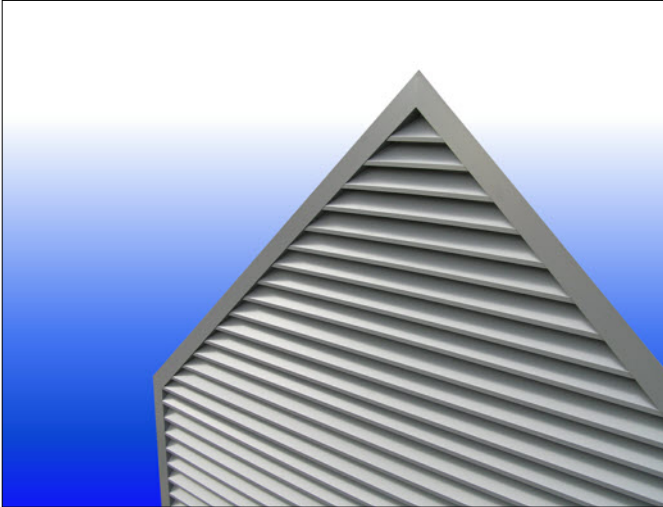
External louvre range

Standard single bank louvres

38mm, 50mm and 75mm pitch single bank louvres.

Single bank of blades provide good protection against rain ingress, whilst preserving 50% free area for high airflow.

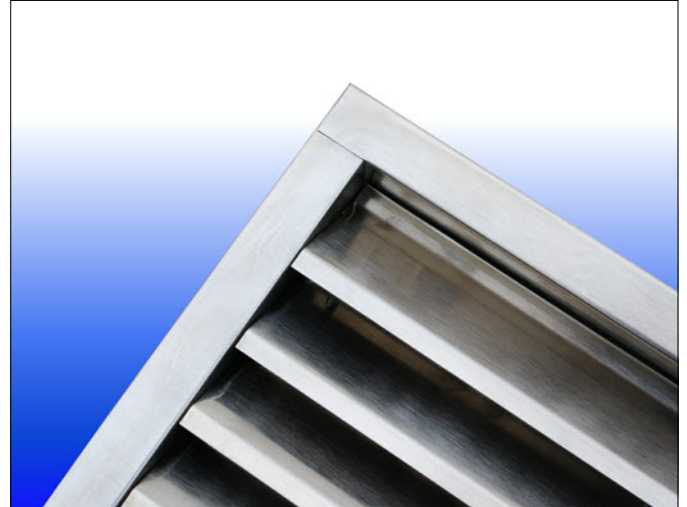
Flanged, reversed frame, recessed frame and concealed (not on 38 pitch) units available. Bird and insect mesh optional.



Stainless steel & galvanised louvres

Bespoke made to order, stainless and galvanised louvres can be made to replicate a regular format or custom made to your own dimensions.

Grades of stainless available are 430, 316 and 304.

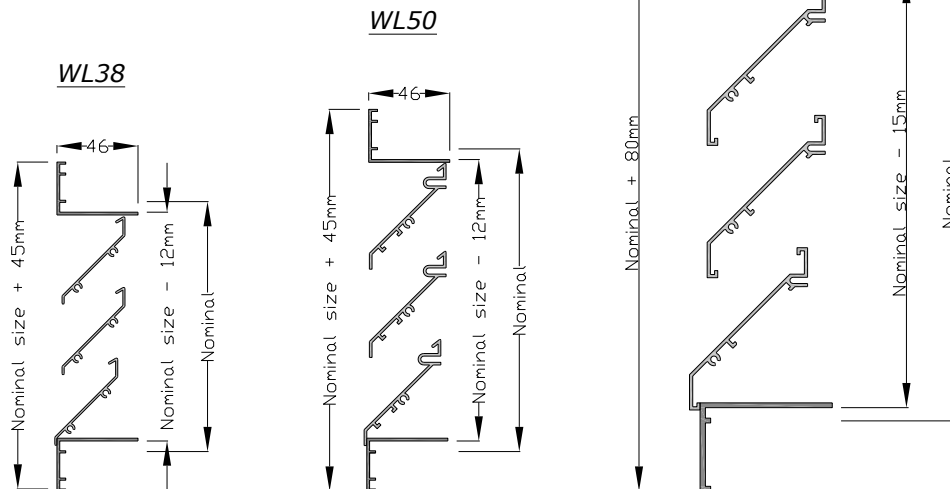


Stock product

The following sizes of 38mm pitch standard louvre are kept in stock for quick delivery.

Mill finish, powder coating to RAL/BS colour optional.

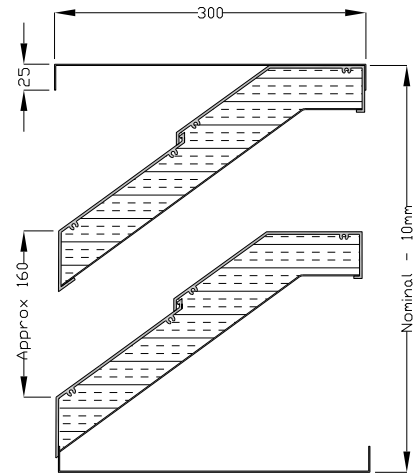
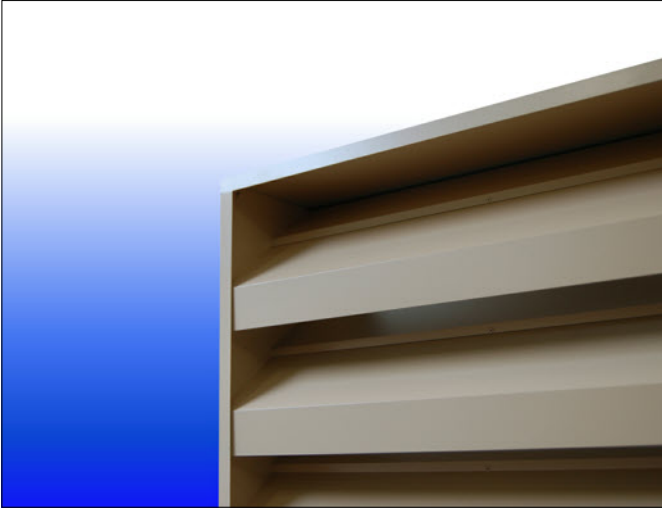
150², 200², 250², 300², 350², 400², 450²,
500², 550², 600², 700², 800², 900², 1000²



Acoustic louvres

Using a two part hollow aluminium blade forming a cavity which is then filled with mineral wool, acoustic louvres prevent noise transfer without impeding airflow.

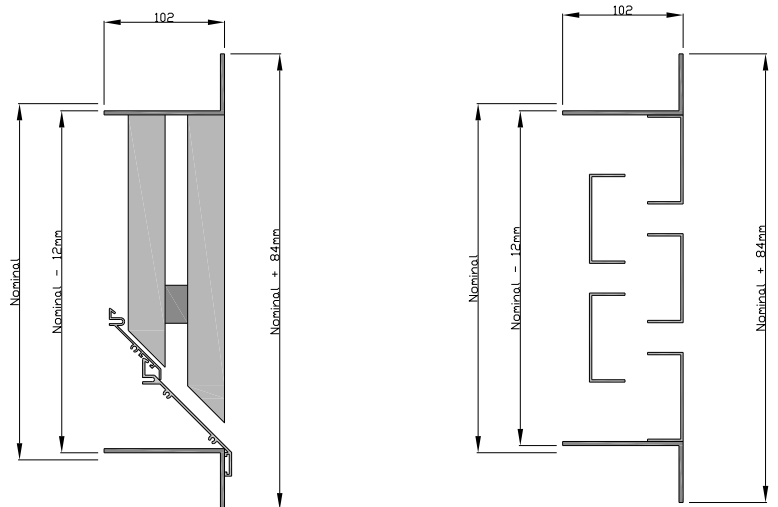
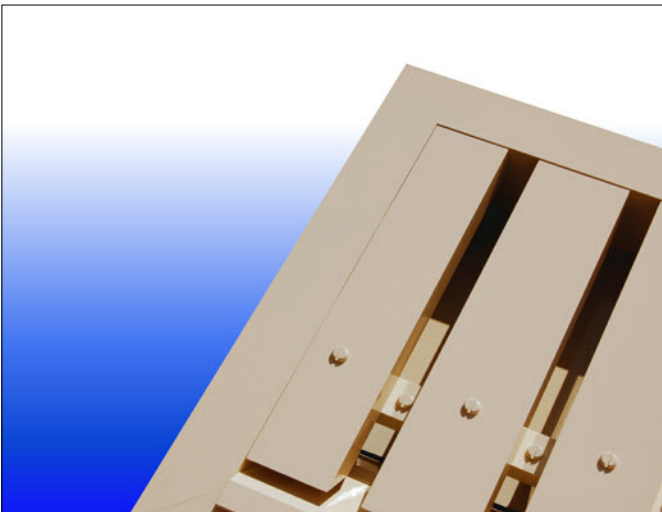
Available in 150mm, 300mm (standard) and 600mm deep models.



Sand trap louvres

Designed to be the first stage of filtration, sand trap louvres catch and collect airborne particles like sand and grit which would otherwise clog up finer filters inside the ventilation system.

Constructed from two banks of interlocking vertical channels, all straight paths through the unit are eliminated. Any caught material then falls onto the slanted cill and is ejected through the front of the louvre.

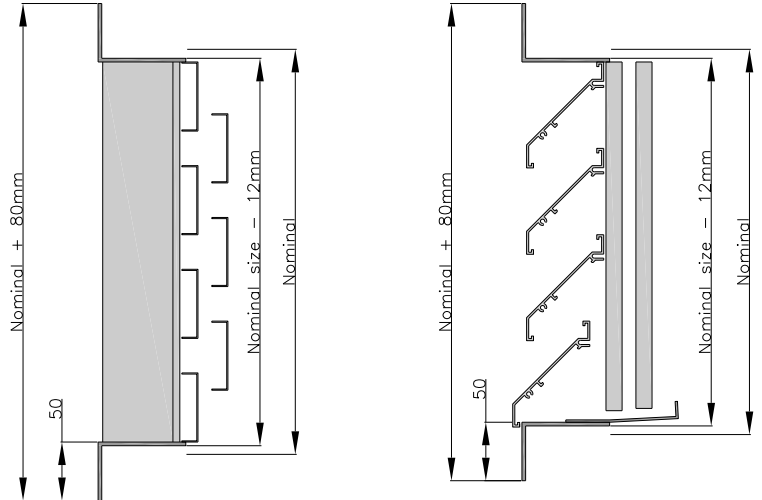
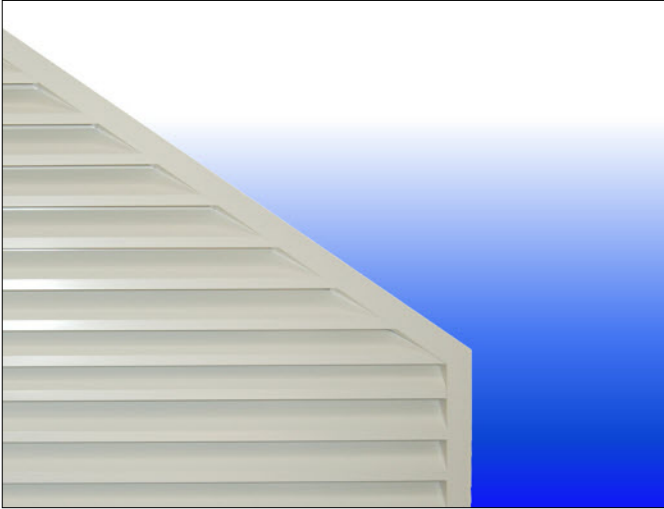


External louvre range

High performance louvres - Class A

With the addition of two banks of vertical channels behind a standard louvre, high performance louvres have been tested to confirmed to give Class A levels of rain protection at velocities up to 0.5m/s.

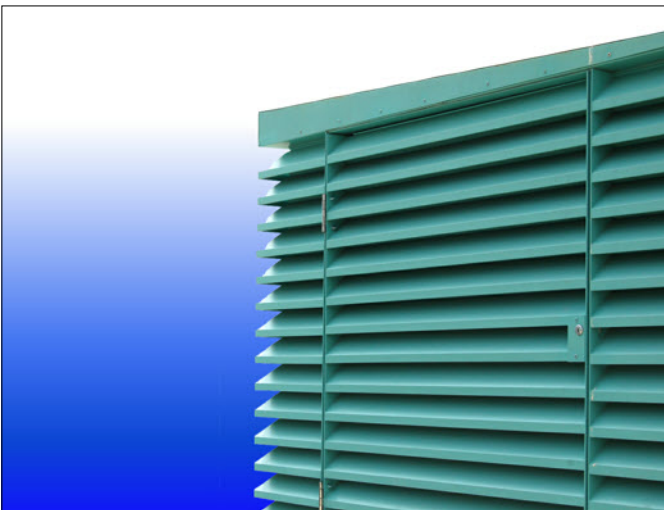
The channels prevent any straight path through the unit, catching any rain or spray which made it past the louvre blades. This caught water then falls onto a special slanted drip cill which quickly ejects it through the louvre face.



Penthouse louvres

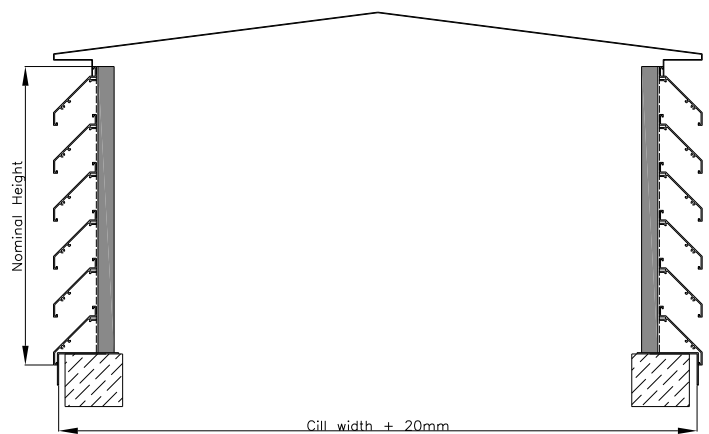
Commonly used in natural ventilation systems, penthouse louvres are perfect for high efficiency installations, like the new generation of school buildings and hospitals.

Class A Penthouse Louvres can be manufactured using the same blade arrangement as high performance louvres shown above.



Options include:

- Doors.
- Internal dividers (insulated or un-insulated).
- Flat, single slant, double slant and HIP roofs.



External louvre options

Polyester powder coating

All louvres shown in the catalogue can be polyester powder coated to any RAL or BS colour.

Nylon coating

A specialist finish, nylon coating is used in favour of polyester coating where extreme durability or resistance to static electricity build up is needed.

Fixing methods

Although normally drilled on site, louvres can be supplied with face fixing holes in the flange, or rear mounted fixing lugs.

Bird mesh

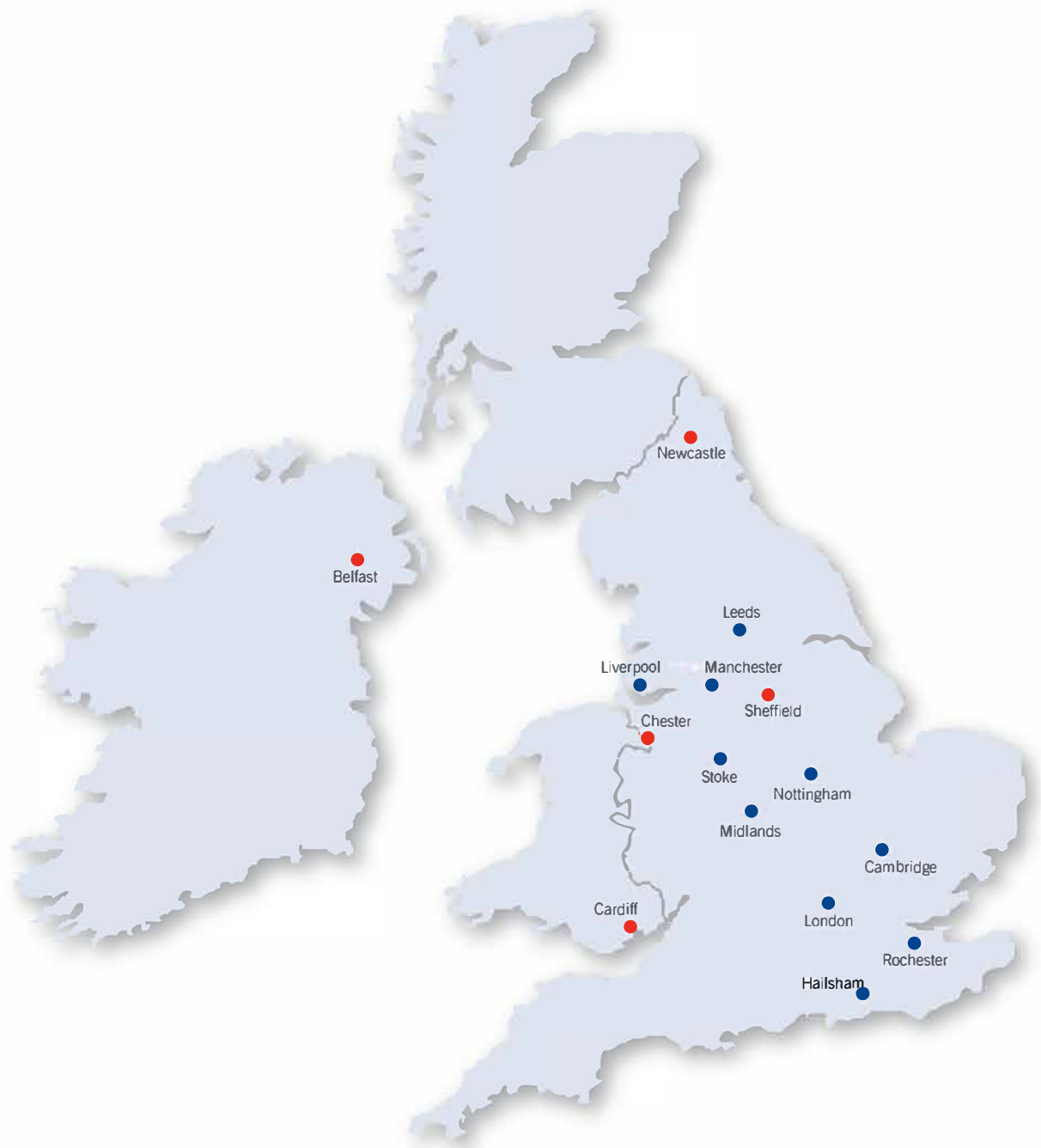
Screwed to the back of louvre blades, bird mesh prevents large objects like leaves, rubbish and birds being able to penetrate the louvre.

Bird mesh has no real effect on airflow.

Insect mesh

With much smaller gaps than bird mesh, insect mesh prevents all but the smallest objects penetrating the louvre. The vast majority of insects and debris are caught.

Insect mesh will reduce a louvre's free area.



Head Office and Midlands Branch:
Heath Mill Road, Wombourne,
Wolverhampton, West Midlands, WV5 8AP
Tel: (01902) 895161
Fax: (01902) 892045

Hailsham Branch:
Unit 7, Diplocks Way,
Hailsham, East Sussex, BN27 3JF
Tel: (01323) 847910
Fax: (01323) 847928

Stoke Branch:
Unit 2 Meadowside Works,
Sandback Road, Cobridge,
Stoke On Trent, Staffordshire ST6 2DG
Tel: (01782) 274000
Fax: (01782) 274145

Nottingham Branch:
Unit 7A, Blenheim Court,
Blenheim Industrial Estate,
Nottingham NG6 8WA
Tel: (0115) 979 4527
Fax: (0115) 976 1742

London Branch:
Unit 1, Elm Lea Trading Estate,
Leaside Road, Tottenham,
London, N17 0XR
Tel: (020) 88039622
Fax: (020) 88039154

Rochester Branch:
2 Stirling Park, Laker Road,
Rochester, Kent, ME1 3QR
Tel: (01634) 672730
Fax: (01634) 686290

Manchester Branch:
Pilsworth Way,
Pilsworth Road, Bury, BL9 8RE
Tel: (0161) 796 8226
Fax: (0161) 766 7724

Leeds Branch:
Unit 4 Copley Hill Trade Estate,
Whitehall Road,
Leeds, LS12
Tel: (01132) 341971
Fax: (01132) 445327

Liverpool Branch:
Unit C1 Kingfisher Business Park,
Hawthorne Road, Bootle,
Merseyside, L20 6PF
Tel: (01519) 228933
Fax: (01519) 442769

Distributors:
Chester, Newcastle, Cardiff, Sheffield,
Belfast