



Incorporating



Grilles & Diffusers

Series LGFR Reinforced linear grilles

- Reinforced linear grille designed to withstand moderate loads and impacts.
- Perfect for installations like sports halls or low level vents.
- 0°, 15° and 45° blade profiles.
- Full range of finishes including powder coating to any RAL or BS colour.



Series 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°, 6mm blades.

0°, 3mm 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 300mm.



Design features

Material	Extruded aluminium
Frame	Standard: 32BD - 32mm bevelled deep Optional: 25F - 25mm flat Tray frame
Sizes	Minimum: 100mm x 50mm Maximum: 2900mm x 2900mm
Fixings	Standard: None Optional: See page 8
Finish	Standard: Satin anodised (AA5) Optional: See page 10
Mass/m² face area	See technical specifications on next page
Free area	See technical specifications on next page

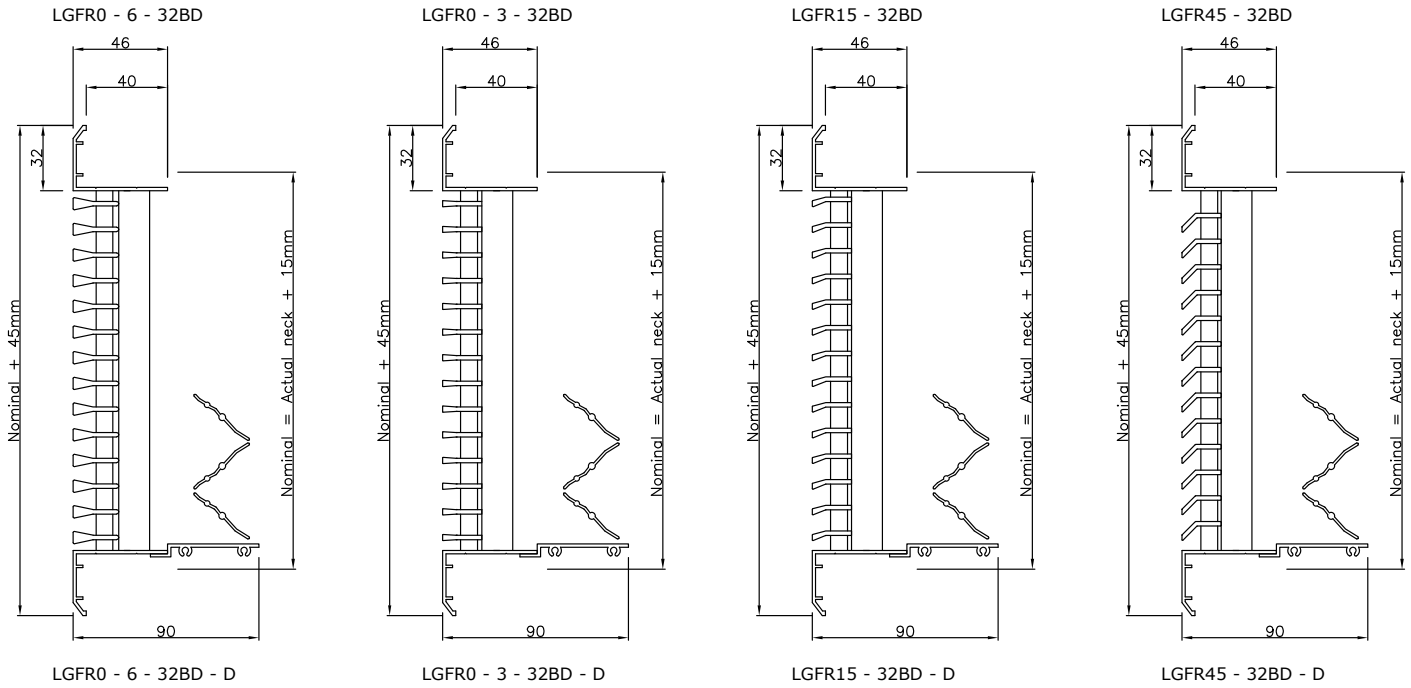
Quality assurance

HVC Supplies (Stourbridge) Ltd is an ISO 9001 certified company.

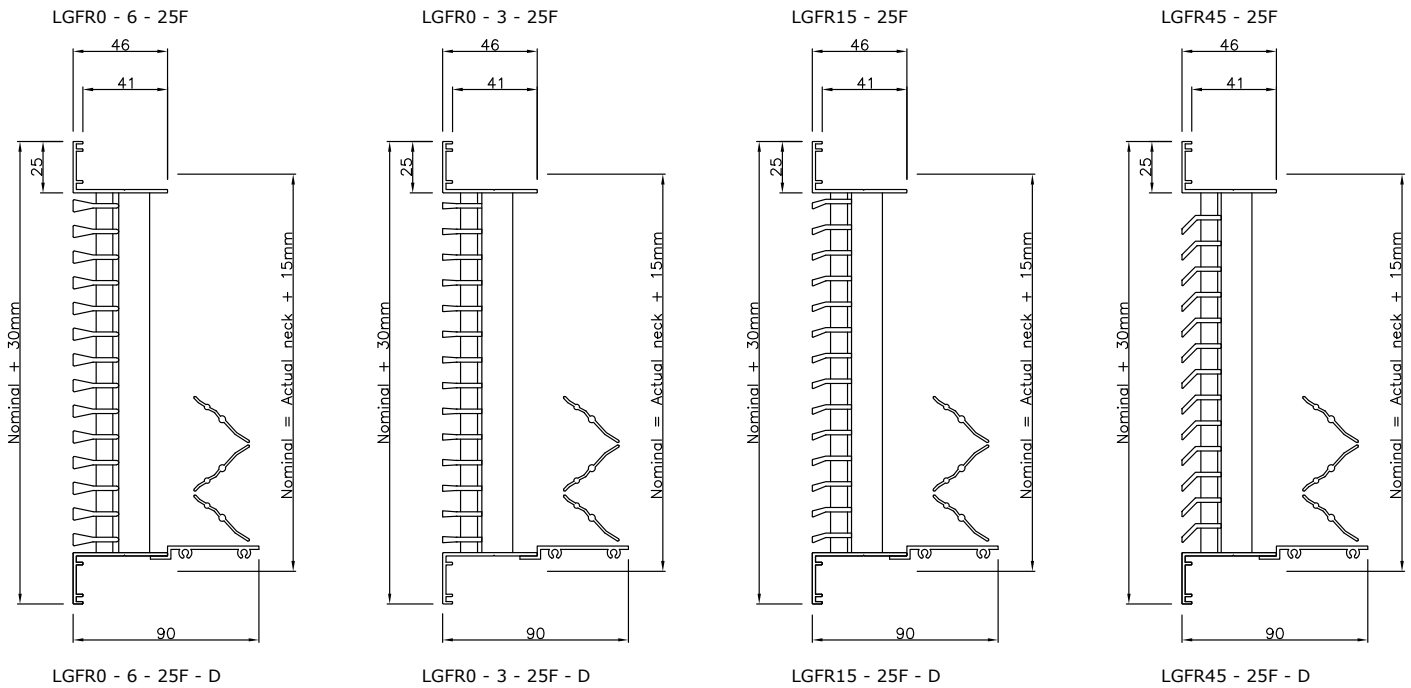


Assessed to ISO 9001
Cert/Ref No. 1186

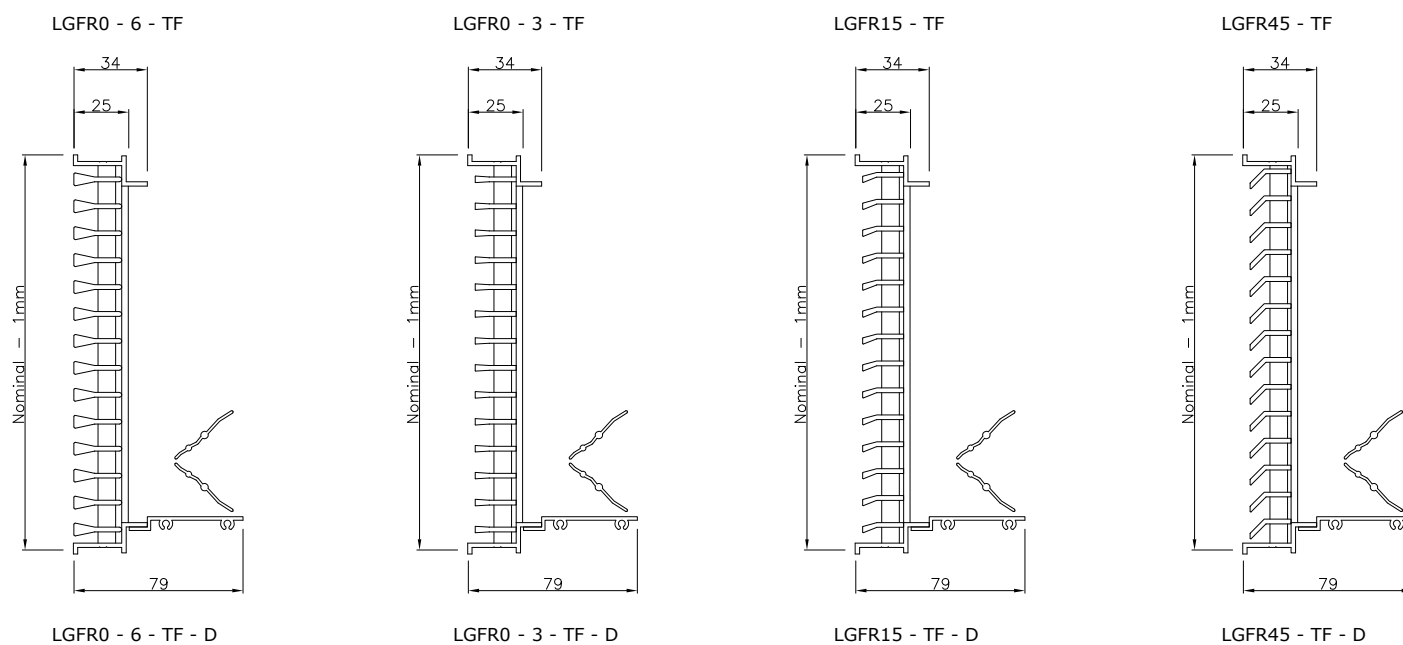
Technical drawings - 32BD frame (standard)



Technical drawings - 25F frame



Technical drawings - TF (tray frame)



Technical specifications

Series	Free area	Mass/m ² face area
LGFR0 - 3	76%	10.0 kg
LGFR0 - 6	52%	14.1 kg
LGFR15	74%	10.1 kg
LGFR45	54%	10.5 kg

Removable core - Twin frame

Recently introduced and replacing quarter turn brackets, cage nut brackets are now standard with removable core grilles. The cage nut is a steel bracket with fitted floating cage nut, which allows for easier fitment of the removable core.

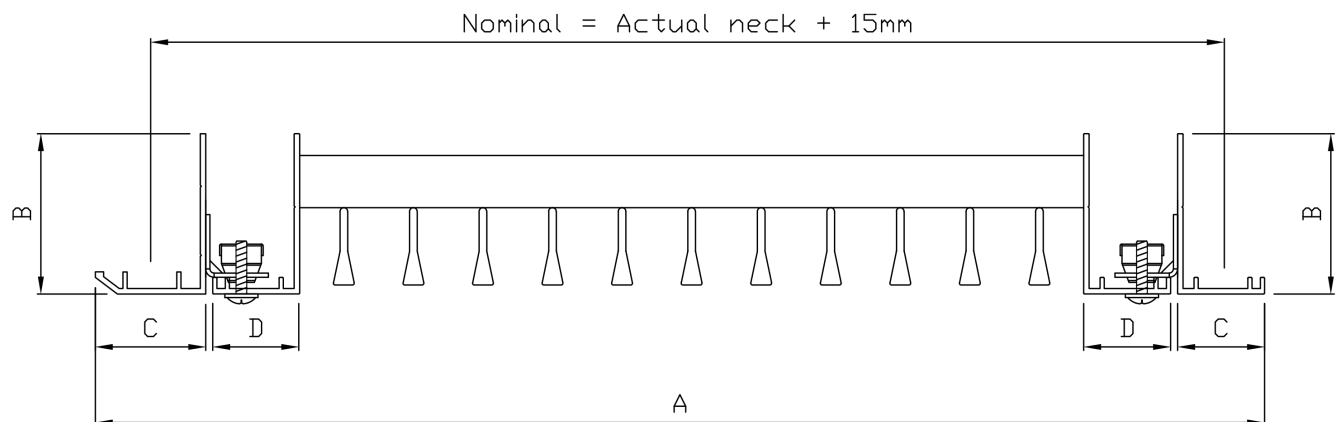
The inner removable frame holds the M4 flanged head machine screw, for removal with a pozi screwdriver, as standard.

Other M4 fixing types are available for use with allen keys, or with a larger head for removal by hand.

Outer frame will be either 32BD 32mm bevelled frame or 25F 25mm flat, inner frame will be 25F 25mm flat.

Please note: The images to the right hand side show a Series LG linear bar grille.

Ordering code for type shown here: RC-CN



32BD: 32mm bevelled (standard)	
A	Nominal + 45mm
B	46mm
C	32mm
D	25mm
E	40mm

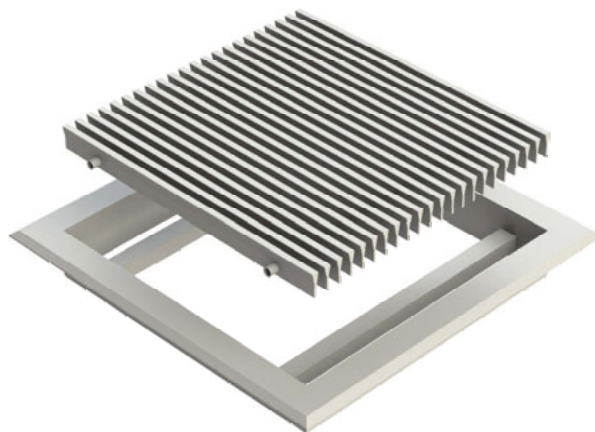
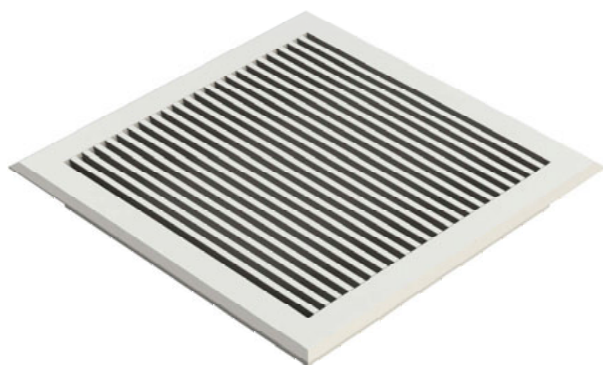
25F: 25mm flat (optional)	
A	Nominal + 30mm
B	46mm
C	25mm
D	25mm
E	41mm

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.

Ordering code for type shown here: RC-LI



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.

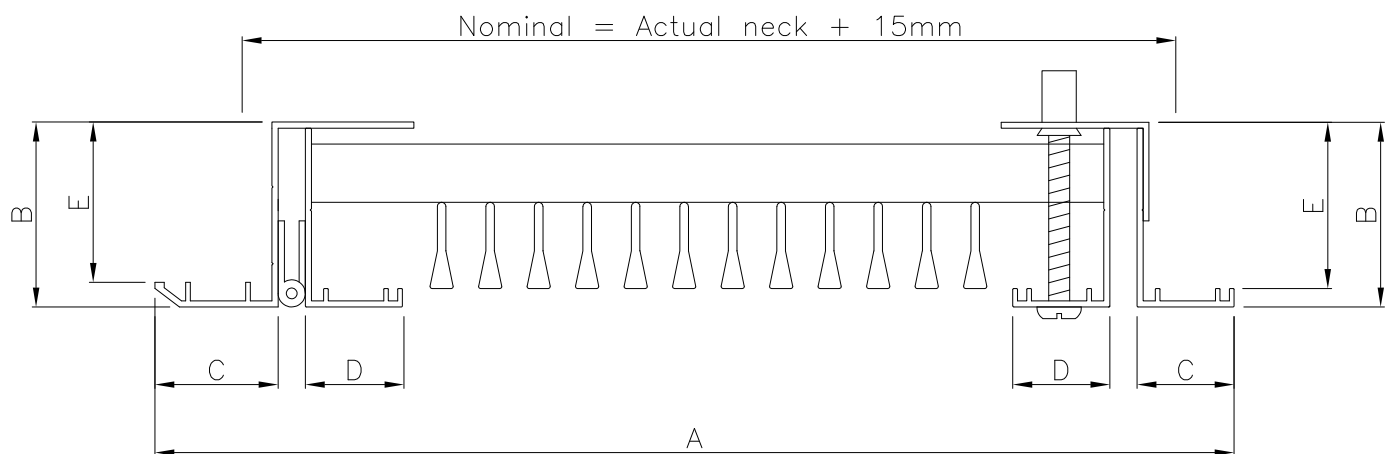
The inner core is held in place by one or more M6 panhead bolts mating with nutserts mounted to a concealed rear frame extension.

Chrome plated cam fasteners are optional instead of bolts.

Please note: The images to the right hand side show a Series LG linear bar grille.



Ordering code for type shown here: HC-BLT



32BZ: 32mm bevelled Z (standard)	
A	Nominal + 45mm
B	48mm
C	32mm
D	25mm
E	41mm

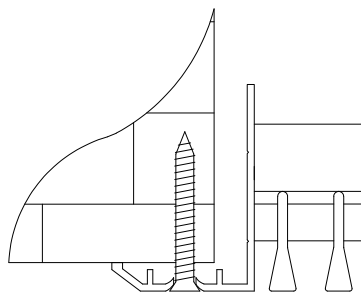
25F: 25mm flat (optional)	
A	Nominal + 30mm
B	48mm
C	25mm
D	25mm
E	43mm

Fixings

Countersunk fixing holes: Code suffix FH

For extremely simple fitting, countersunk fixing holes can be punched into the outer frame.

Self tapping screws in the same finish as the grille are provided as standard.



Selection data

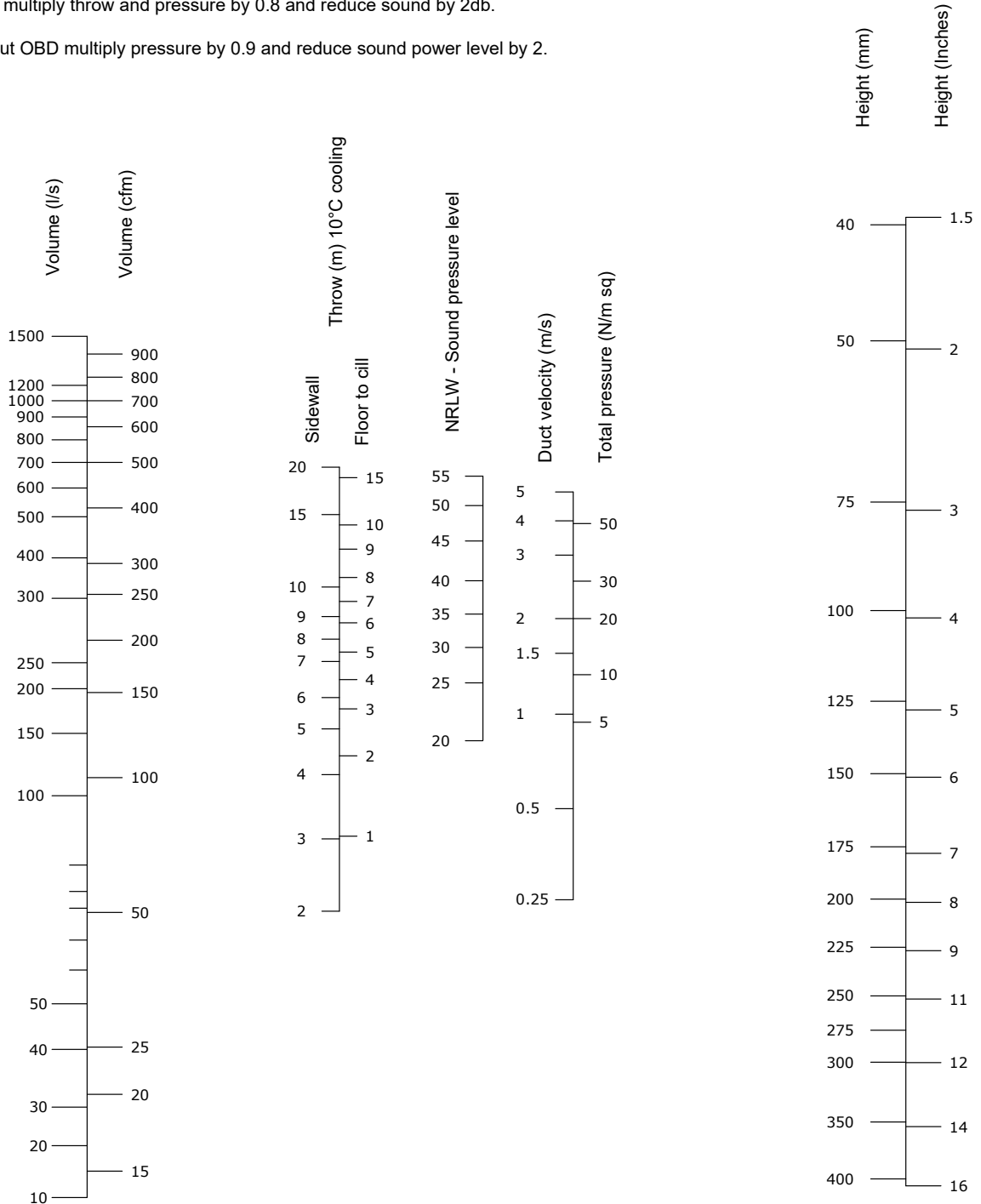
Figures based on 1m wide LGFR0-3-12.5 fitted with OBD.

10°C cooling application with grille not more than 0.5m below ceiling.

For 6mm blade multiply throw and pressure by 1.2 and increase sound by 2db.

For 20mm pitch multiply throw and pressure by 0.8 and reduce sound by 2db.

For grilles without OBD multiply pressure by 0.9 and reduce sound power level by 2.



Finish

Satin anodised (AA5) - Standard

Mill aluminium

Polyester powder coating to any RAL or BS colour



Ordering codes

Example

1 - 400 x 400 - LGFR0 - 6 - D - 32BD - FH - RAL9010

Codes

1)	Quantity		
2)	Size (mm)	(Width x height)	
3)	Series	LGFR0 LGFR15 LGFR45	Linear grille, 0° blades (standard) Linear grille, 15° blades Linear grille, 45° blades
4)	Blade thickness	3 6	3mm blade (only with LGFR0 - optional) 6mm blade (only with LGFR0 - standard)
5)	Damper	D	Opposed blade damper fitted
6)	Frame	32BD 25F TF	32mm bevelled deep (standard) 25mm flat Tray frame
7)	Fixings	FH	Countersunk fixing holes (screws supplied in same finish)
8)	Core type	RC-CN RC-LI HC-BLT HC-CAM	Removable core - Twin frame type (standard method, not available if frame is 'TF' and unsuitable for floor mounting) Removable core - Lay in (no fixings, floor use only) Hinged core - Bolt type (standard method, not available if frame is 'TF' or 'SML') Hinged core - Cam fastener (optional, not available if frame is 'TF' or 'SML')
9)	Finish	SAA Mill RAL... BS...	Satin anodised (standard) Mill aluminium Polyester powder coated to RAL... Polyester powder coated to BS...

Important: Size will be taken to be nominal (hole internal) unless stated otherwise.

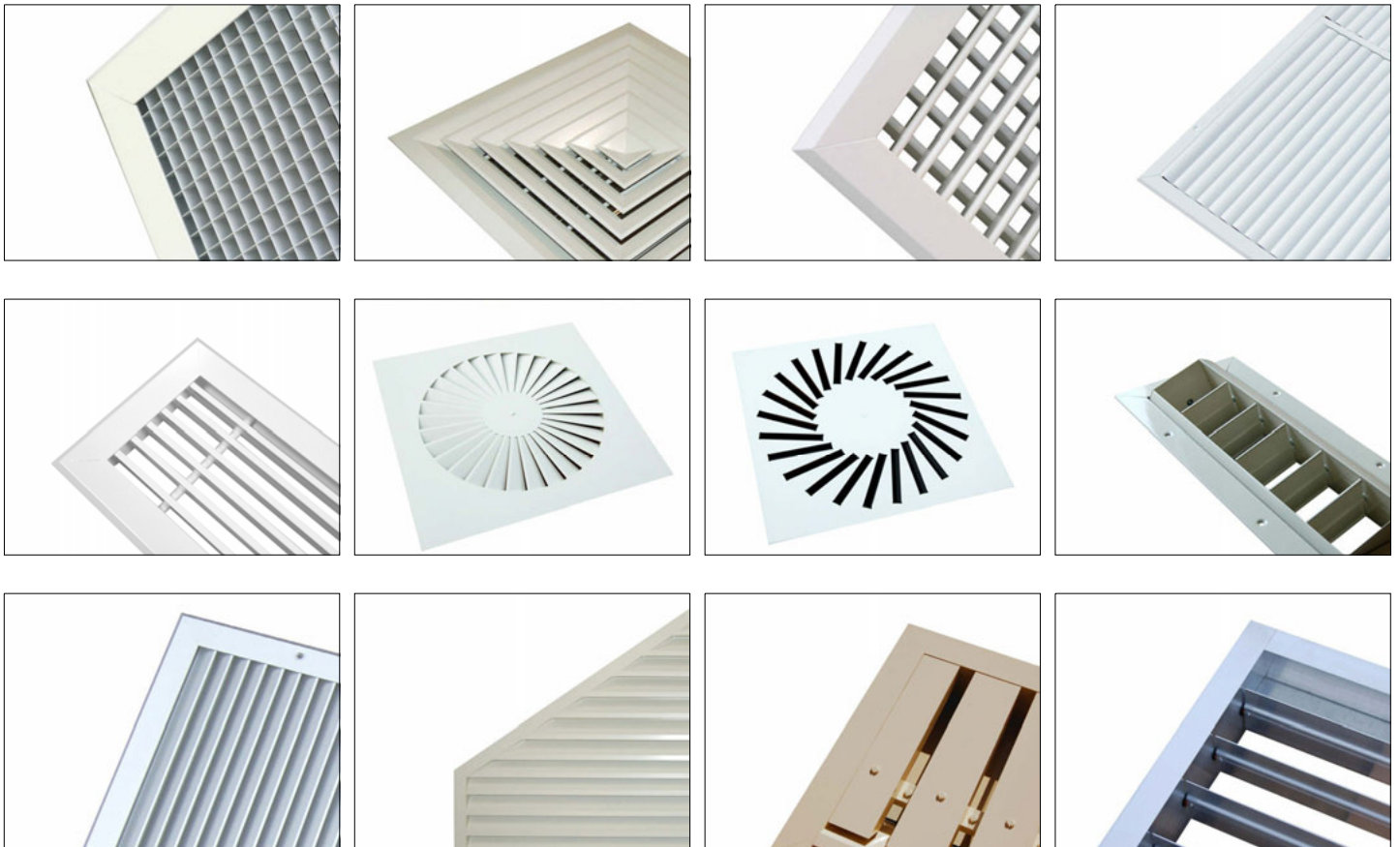
Leave code section blank if no option is required.

HVC & NCA products

HVC offer the significant advantage of manufacturing both in duct and duct terminal equipment, making us a one stop shop for all your HVAC needs.

The products shown below are a selection, not an exhaustive list. Go to www.h-v-c.com for details on all HVC and NCA products.

HVC: Grilles, Diffusers, Louvres and Volume Control Dampers



NCA: Fire and Volume Control Dampers





Assessed to ISO 9001
Cert/Ref No. 1186

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