



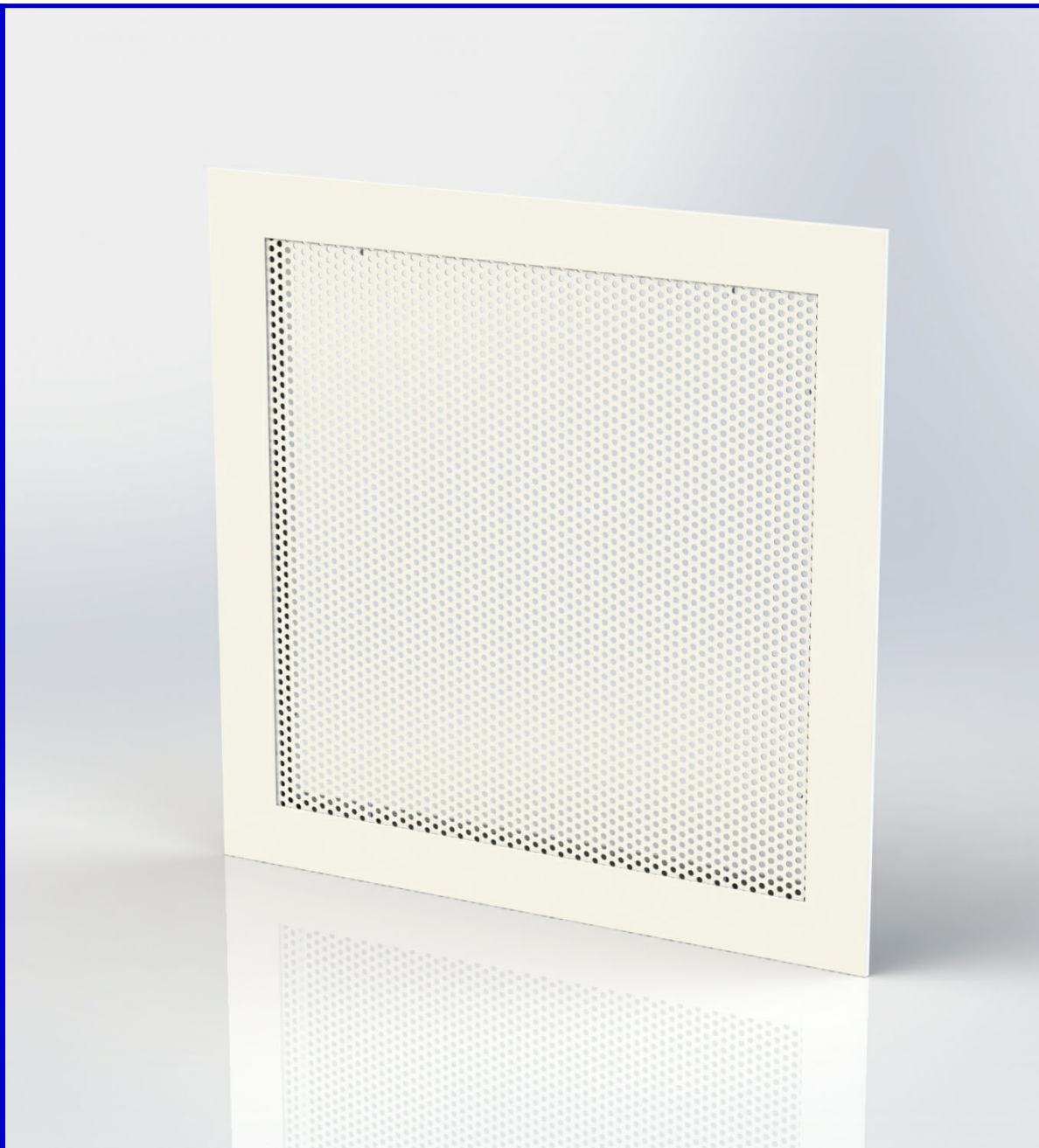
Incorporating



Grilles & Diffusers

Series PPG Perforated plate grilles

- Tamper resistant grille suitable for extract or supply functions
- Perforated fascia plate creates stable throw, perfect for areas requiring clean zones like operating theatres
- 595mm x 595mm overall, tile replacer size grilles held in stock for immediate despatch

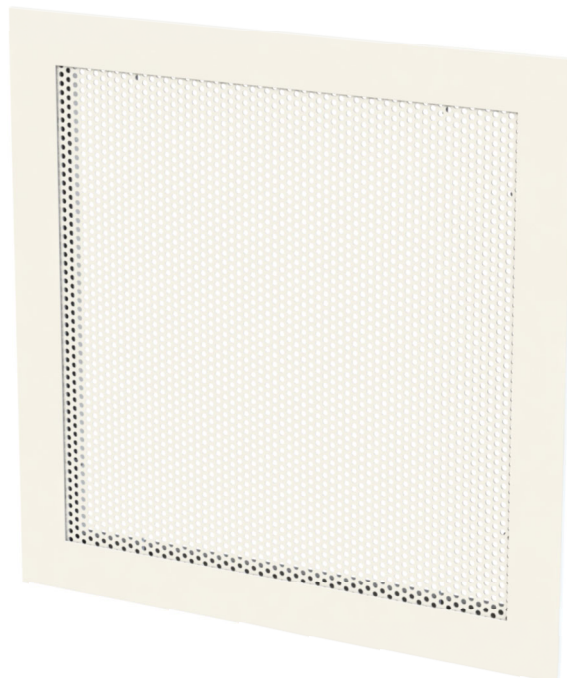


Series PPG

Perforated plate grilles are versatile air terminals, suitable for use in both extract and supply applications.

Making use of a perforated steel core, perforated plate grilles are useful where tamper resistance is required, or where a stable linear throw needs to be created, for example in an operating theatre where clean zones of supplied air are created.

If a specific throw type is required, concealed matt black deflector plates can be installed behind the core to direct supplied air in the directions required. If to be used for extract, or if a specific throw is not required, deflector plates will not be fitted.



Design features

Material	Aluminium frame
	Perforated galvanised steel core
Frame	Standard: 30FE - 30mm flat
	Optional: 37BE - 37mm bevelled
	50FE - 50mm flat
	SMS - Surface mounted small
Sizes	Minimum: 100mm x 100mm
	Maximum: 2000mm x 1000mm
Fixings	Standard: None
	Optional: See page 6
Finish	Standard: Satin anodised (AA5) frame, galvanised steel core
	Optional: See page 8
Mass/m² face area	6 kg
	14 kg including opposed blade damper
Free area	32 %

Quality assurance

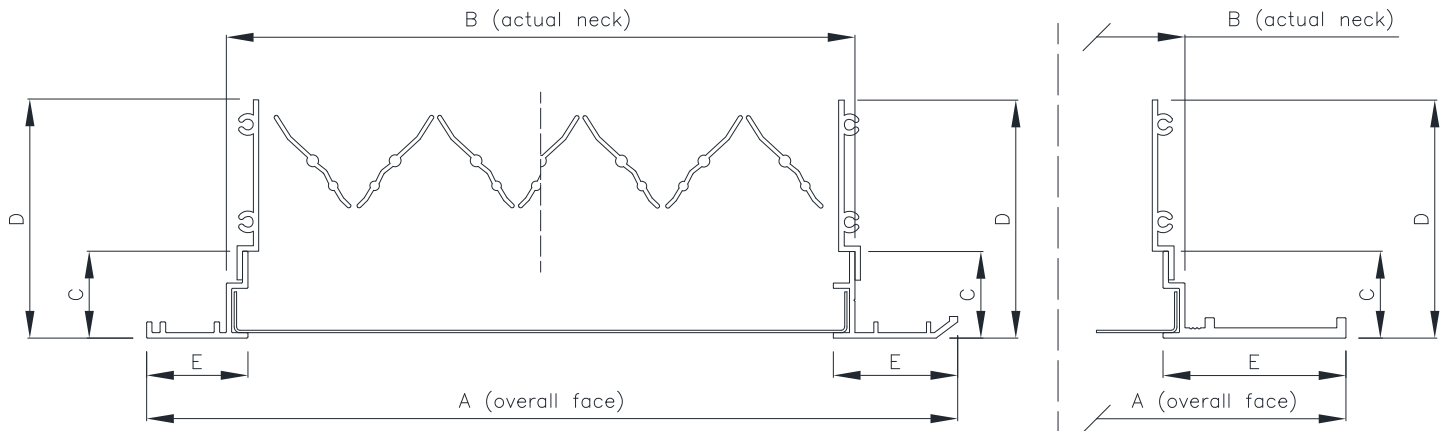
HVC Supplies (Stourbridge) Ltd is an ISO 9001 certified company.



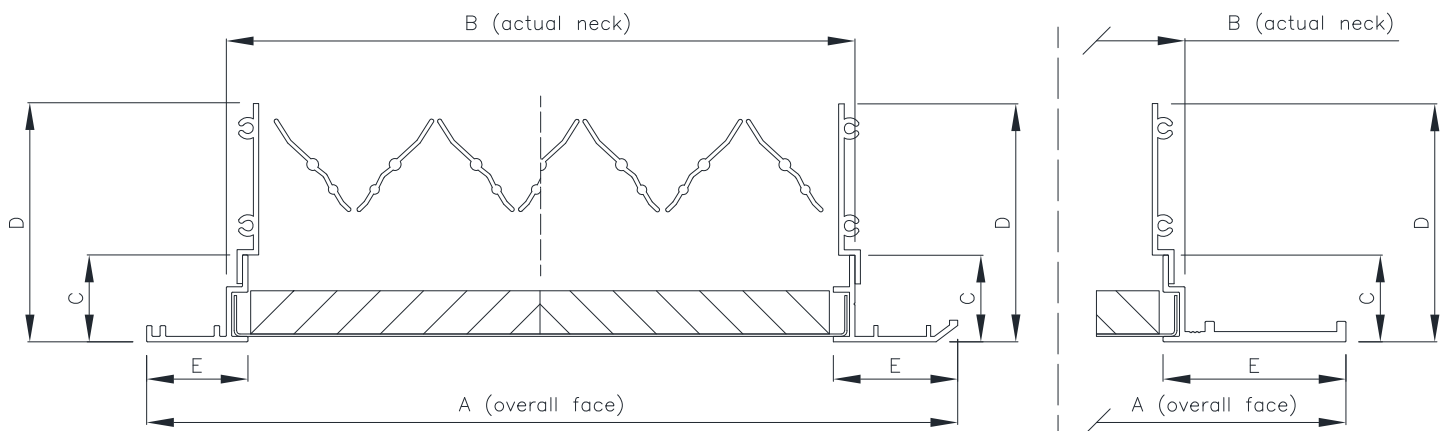
Assessed to ISO 9001
Cert/Ref No. 1186

Technical drawings

PPG (supply or extract application)



PPG (supply application, with matte black deflector plate/s)



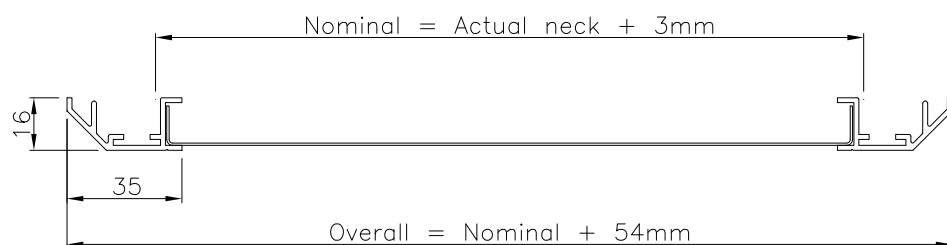
30FE: 30mm flat (standard)	
A	Nominal + 40mm
B	Nominal - 7mm
C	25mm
D	70mm
E	30mm

37BE: 37mm bevelled (optional)	
A	Nominal + 45mm
B	Nominal - 15mm
C	25mm
D	70mm
E	37mm

50FE: 50mm flat (optional)	
A	Nominal + 80mm
B	Nominal - 15mm
C	25mm
D	70mm
E	54mm

Please note: If a tile replacer size is required, for example 595mm x 595mm or 1195mm x 595mm, a 30FE 30mm flat frame should be specified.

Surface mounted



Stocked sizes

Perforated plate grilles sized 595mm x 595mm overall size (tile replacer size), in a 30mm flat frame are held in stock in RAL9010 finish, available for immediate despatch.

Product code: PPG - 595mm x 595mm O/A - 30FE - RAL9010

Removable core

Recently introduced and replacing quarter turn brackets, cage nut brackets are now standard with removable core grilles. Comprising a steel bracket with fitted floating cage nut, allowing easier removal and replacement of the removable core.

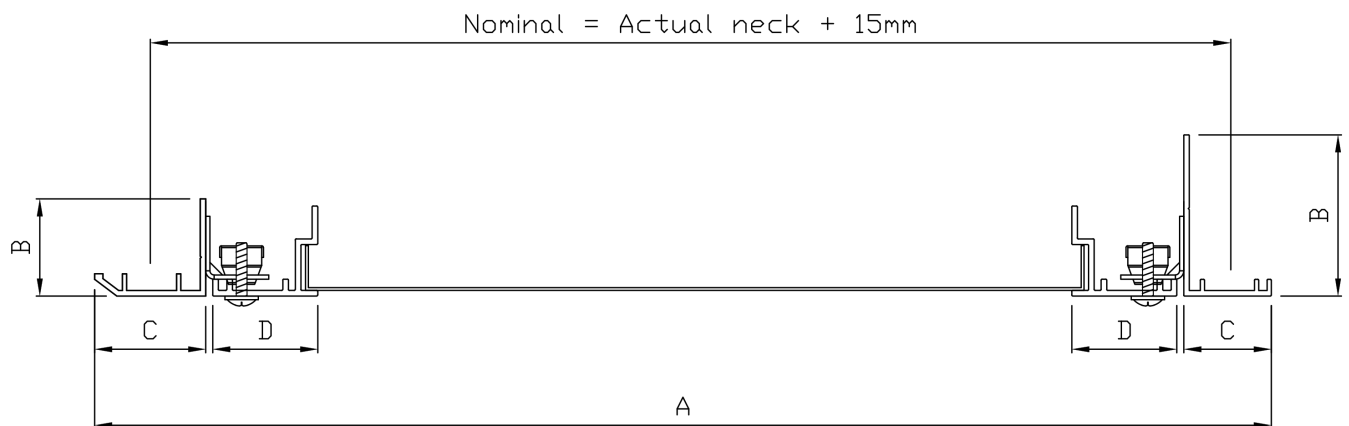
The inner removable frame holds the M4 flanged head machine screw, for removal with a pozi screwdriver, as standard.

Other fixing types are available e.g. allen keys or thumb turn screws.

Please note: Images show grille with the optional 32BS frame.



Ordering code for type shown here: RC-CN



32BS: 32mm bevelled (optional)	
A	Nominal + 45mm
B	28mm
C	32mm
D	30mm

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

Hinged core

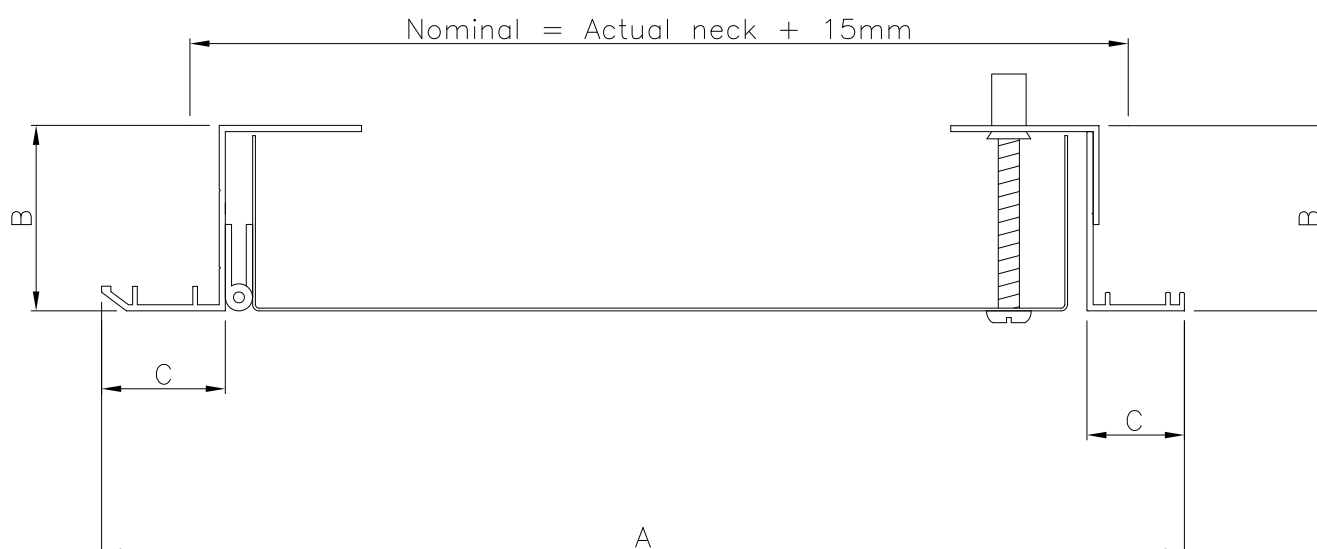
Enabling the core to hinge outwards may be preferable to it being fully removable.

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: Images show grille with the optional 32BZ frame.

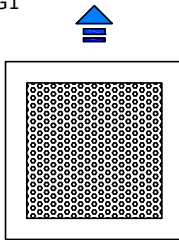


32BZ: 32mm bevelled Z (optional)	
A	Nominal + 45mm
B	48mm
C	32mm
D	25mm

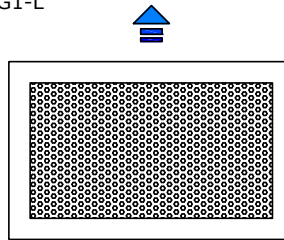
25F: 25mm flat (standard)	
A	Nominal + 30mm
B	48mm
C	25mm
D	25mm

Throw patterns

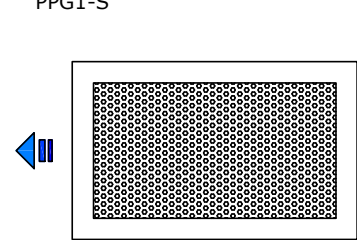
PPG1



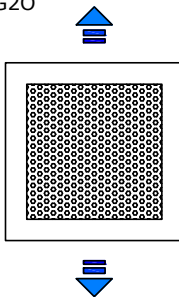
PPG1-L



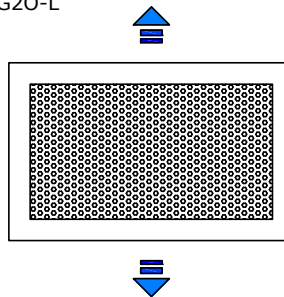
PPG1-S



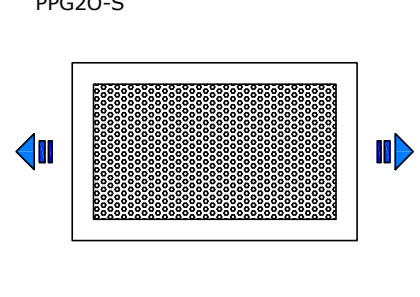
PPG2O



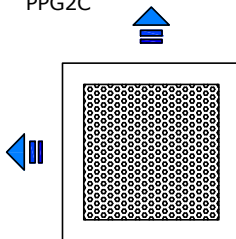
PPG2O-L



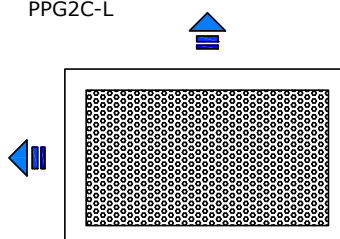
PPG2O-S



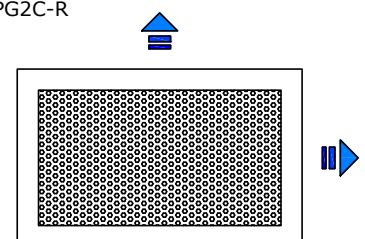
PPG2C



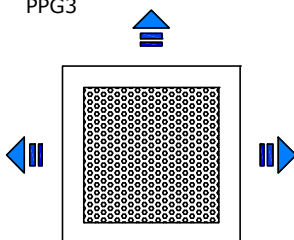
PPG2C-L



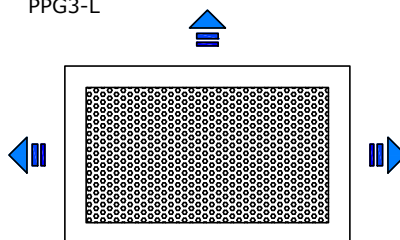
PPG2C-R



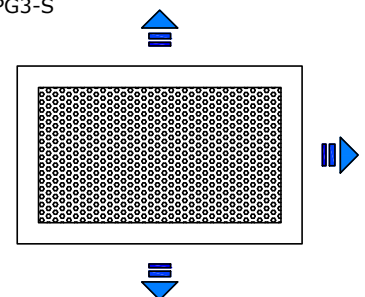
PPG3



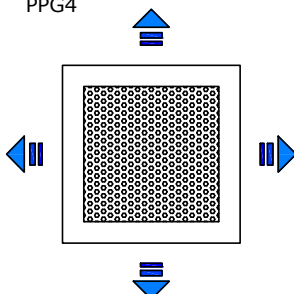
PPG3-L



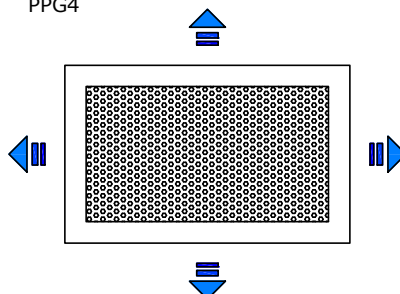
PPG3-S



PPG4



PPG4

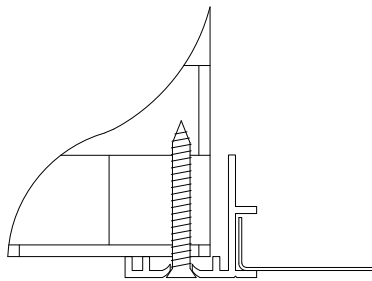


Fixings

Countersunk fixing holes: Code suffix FH

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

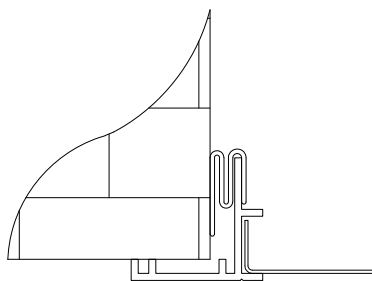
Self tapping screws in the same finish as the grille are provided as standard.



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 fixing method is not suitable for use in ceilings.



Concealed fixings: Code suffix CF

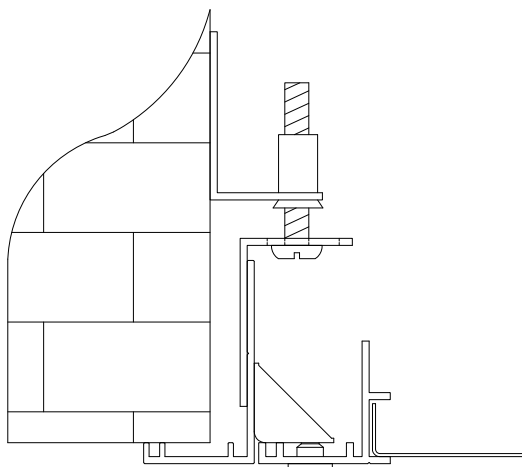
Recently redesigned, concealed fixings comprise two small lengths of aluminium angle, one with a punched slot, the other with a factory fitted nutsert.

The punched bracket should be fitted to the grille neck, and the bracket with nutsert fixed to the inside of the plenum, duct or builderswork opening.

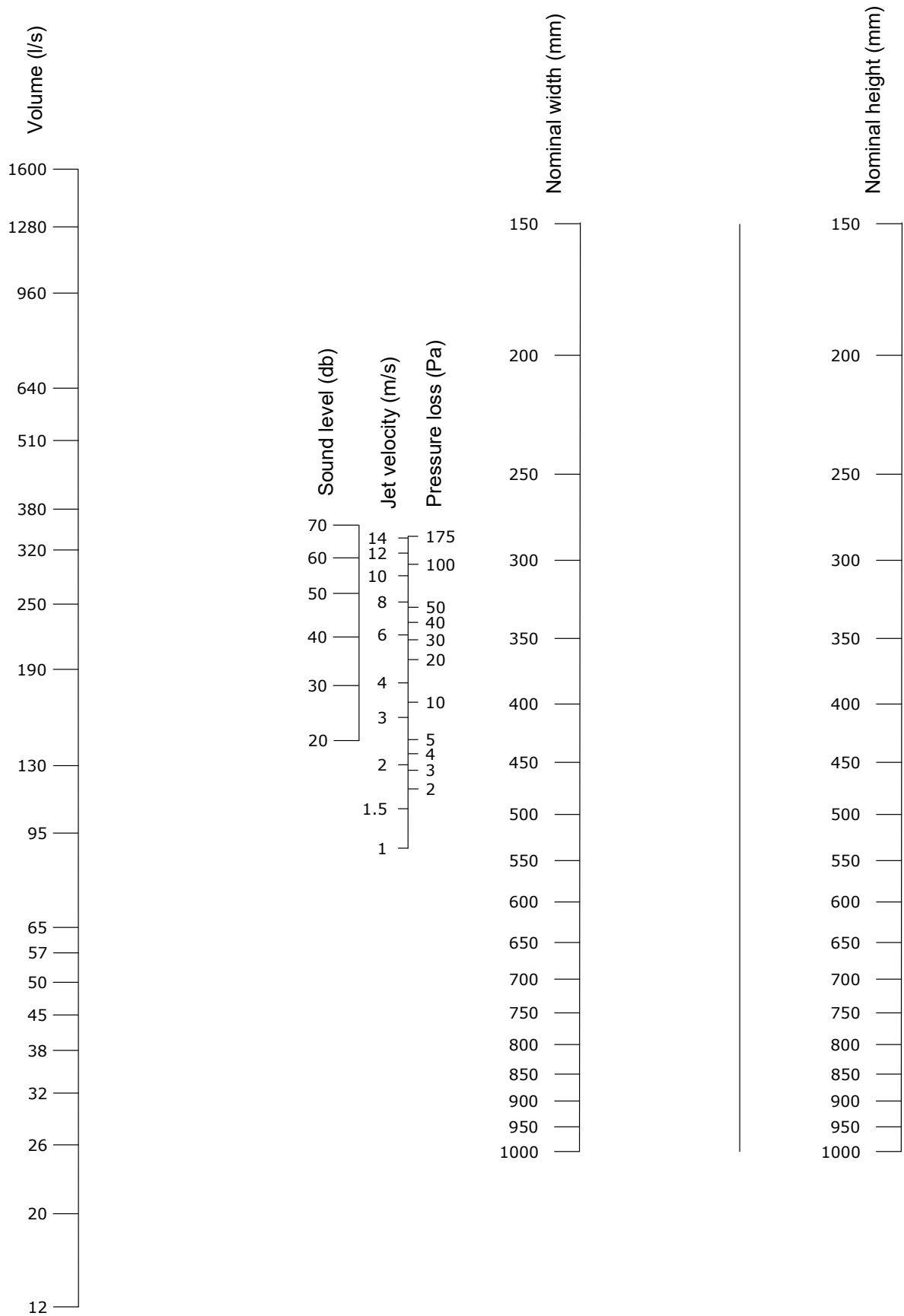
Factory supplied bolts can then be used to pull the grille securely into place.

Important note:

A removable core, type RC-QT must be specified if concealed fixings are required or the fixing will be unusable.



Selection data



Finishes

Satin anodised frame, galvanised steel core (standard)

Polyester powder coating to any RAL or BS colour



Ordering codes

Example

1 - 400 x 400 - PPG - D - 30FE - FH - RAL9010

Codes

1)	Quantity		
2)	Size (mm)	(Width x height)	
3)	Series	PPG	Perforated plate grille
4)	Damper	D	Opposed blade damper fitted
5)	Frame	30FE 37BE 50FE SMS	30mm flat (standard, recommended for tile replacer sizes) 37mm bevelled 50mm flat Surface mounted
6)	Fixings	FH PC CF	Countersunk fixing holes (screws supplied in same finish) Push-in clips (not for use in ceilings) Concealed fixings (require a removable core, type RC-QT to be specified or will be unusable)
7)	Core type	RC-CN HC-BLT HC-CAM	Removable core - Cage nut type (standard method) Hinged core - Bolt type (standard method) Hinged core - Cam fastener (optional)
8)	Finish	SAA RAL... BS...	Satin anodised frame, galvanised steel finish core (standard) 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.

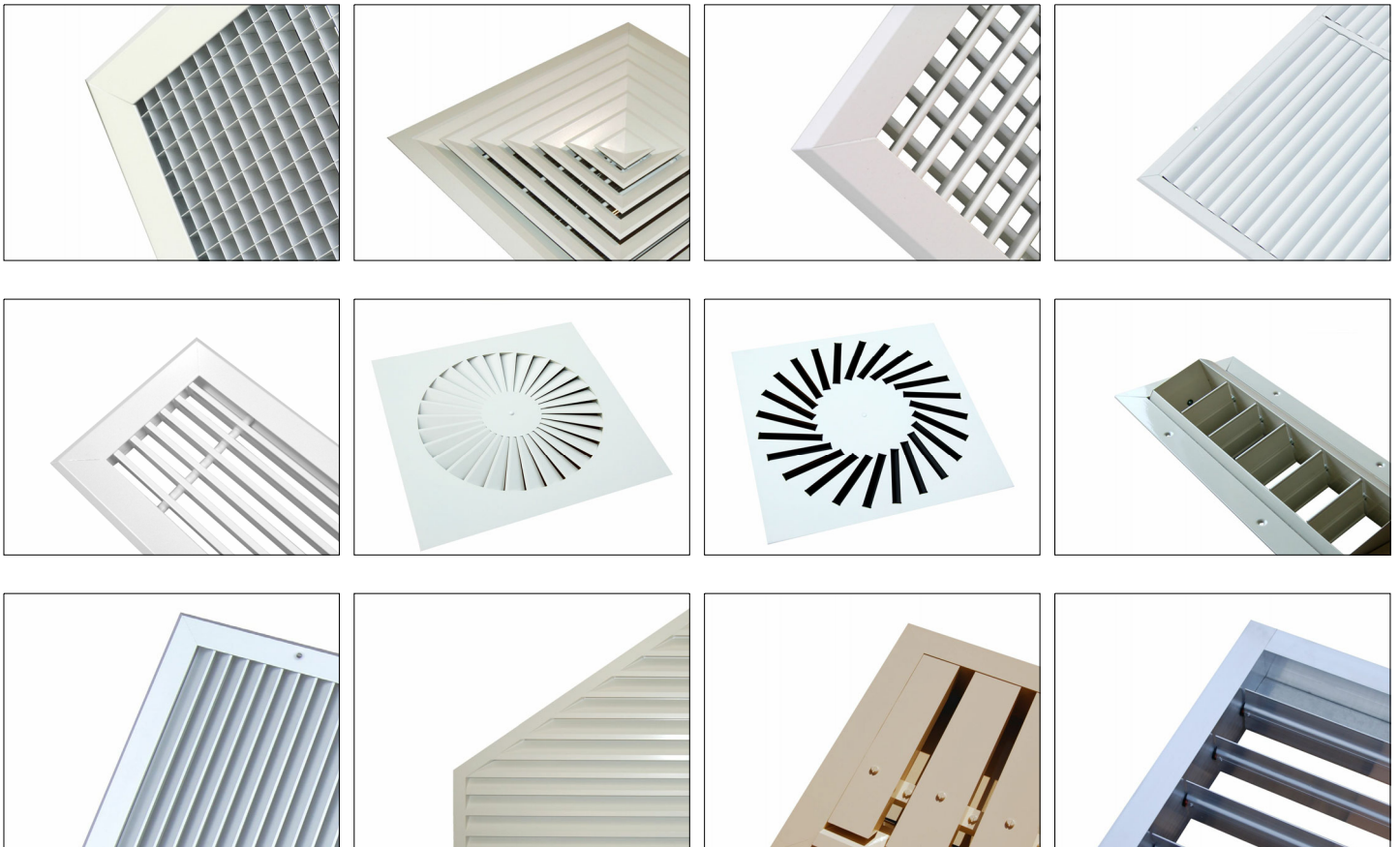
Specification of a hinged or removable core will mean 30FE and 37BE frames cannot be used.
In this instance a standard 25mm flat frame or optional 32mm bevelled frame will be substituted.

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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