



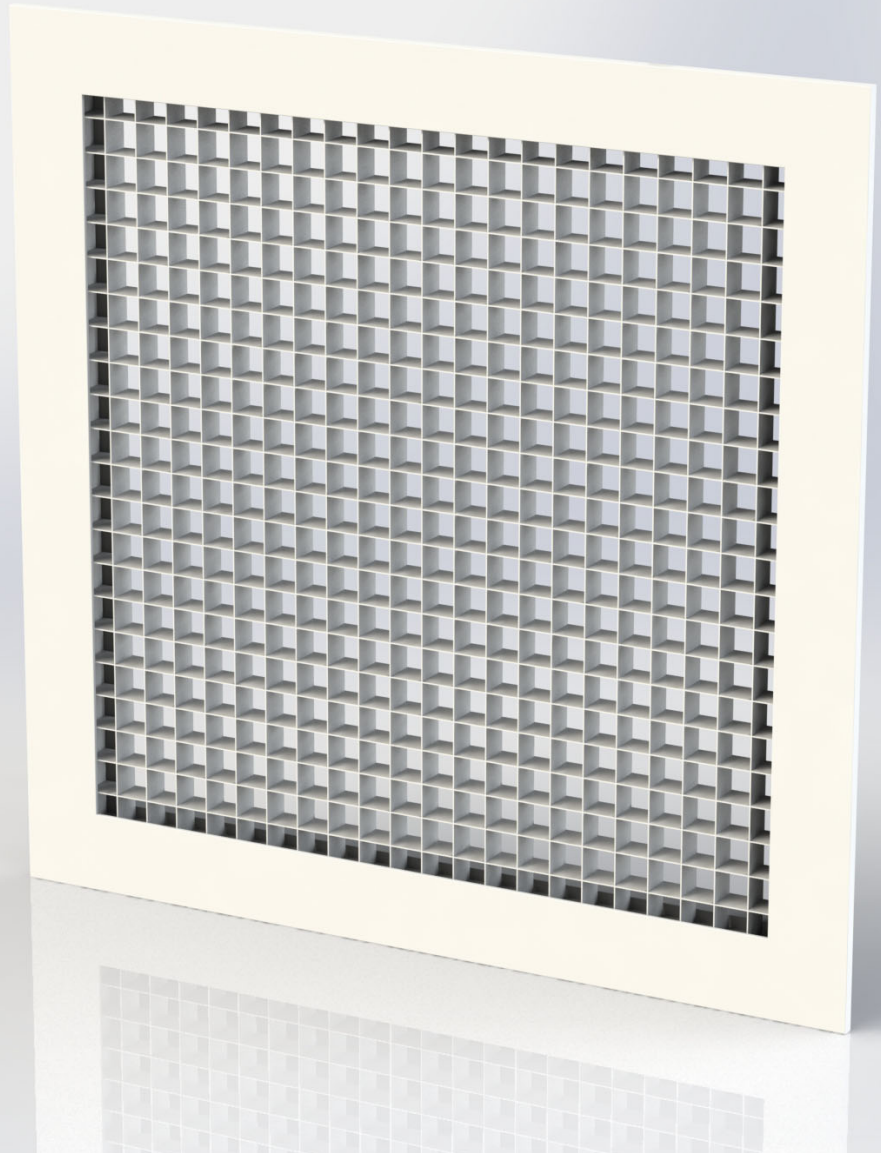
Incorporating



Grilles & Diffusers

Series ECG Egg crate grilles

- Industry standard extract grille
- Standard 0° core or optional 45°
- High performance with minimum pressure drops and noise generation
- Hinged and removable cores
- Popular sizes held in stock for immediate despatch



Series ECG

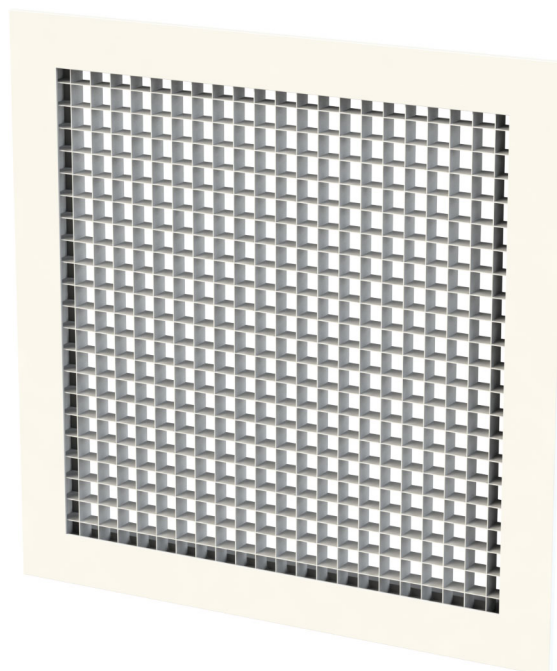
Series ECG egg crate grilles are the industry standard extract grille.

Comprising a core with over 90% free area with vanes parallel to airflow, egg crate grilles are capable of handling huge air volumes with minimal noise generation or pressure drop. Ideal for areas requiring high changeover rates like restaurant kitchens, painting booths etc.

With a similar high free area but with sight blocking properties, and the ability to give an angled throw if used for supply, a 45° core is available, as are a range of further options including removable or hinged cores to facilitate easy maintenance.

We hold large quantities of popular sizes of ECG in stock, giving us the capability to supply even the largest orders on a next day basis.

For non standard sizes, units are manufactured to order.



Design features

Material	Aluminium frame and core
Frame	Standard: 30FE - 30mm flat Optional: 37BE - 37mm bevelled 50FE - 50mm flat SMS - Surface mounted small
Sizes	Minimum: 100mm x 50mm 150mm width/height with hinged/removable core Maximum: 2900mm x 2900mm Maximum core size is 1300mm x 1300mm, above this mullions will be used
Fixings	Standard: None Optional: See page 6
Finish	Standard: Satin anodised (AA5) frame (not with 50FE), mill aluminium core Optional: See page 8 Stock units are powder coated RAL9010
Mass/m² face area	4 kg 12 kg including opposed blade damper
Free area	Approx 90%

Quality assurance

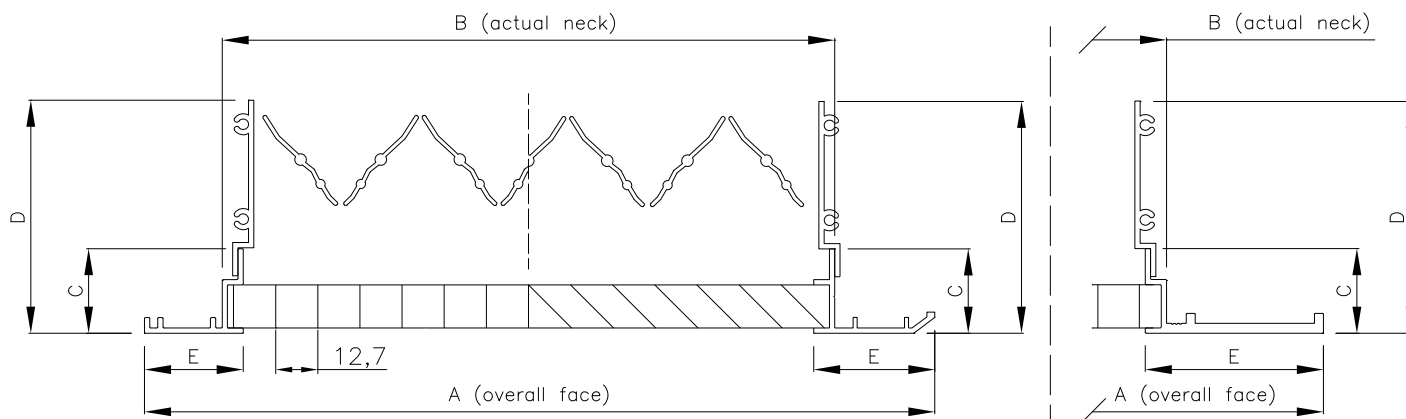
HVC Supplies (Stourbridge) Ltd is an ISO9001 certified company



Assessed to ISO 9001
Cert/Ref no. 1186

Technical drawings

Standard



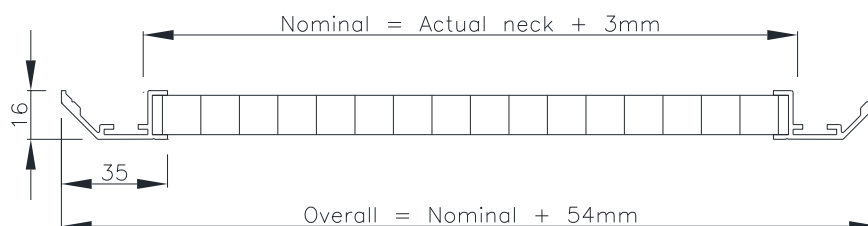
30FE: 30mm flat (standard)	
A	Nominal + 40mm
B	Nominal - 7mm
C	25mm
D	70mm
E	30mm

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

Note: For tile replacement sizes e.g. 595mm x 595mm overall or 1195mm x 595mm overall, a 30FE 30mm flat frame should be specified.

Surface mounted



Stocked sizes

The following sizes of Series ECG egg crate grilles are held in stock, with and without fitted opposed blade dampers, in RAL9010 finish and with pre-punched fixing holes, available for immediate despatch.

150mm x 150mm
200mm x 200mm
250mm x 250mm
300mm x 300mm
350mm x 350mm
400mm x 400mm
450mm x 450mm
500mm x 500mm
555mm x 555mm (595mm x 595mm overall face size tile replacer)

Tile replacer sizes have no fixing holes.

All sizes are nominal unless stated.

Product codes: ECG - 30FE - (FH) - RAL9010
(grille only)

ECG - 30FE - (FH) - D - RAL9010
(grille complete with fitted opposed blade damper)

Options

Removable core

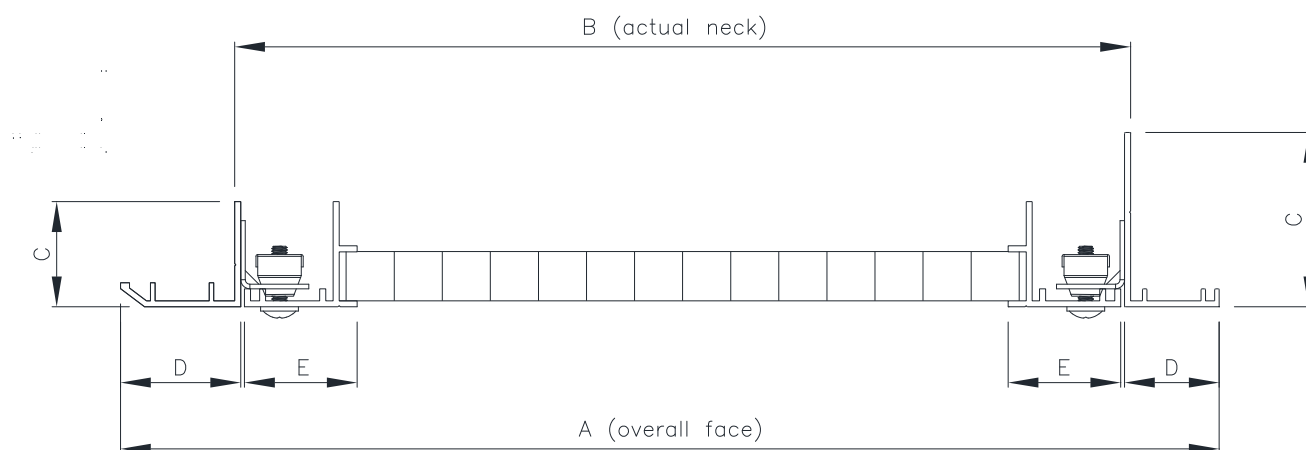
Giving unrestricted access through the grille, removable cores greatly enhance functionality.

Zinc plated M4 cross-headed machine screws in the inner core mate with cage nuts held by angle brackets inside the outer frame.

Cage nuts give far greater tolerance to screw misalignment than regular nut-inserts, thus ensuring cores can always be refitted easily.

Ordering code: RC-CN

Notes: Minimum width/height 150mm



32BS: 32mm bevelled (optional)	
A	Nominal + 45mm
B	Nominal - 7mm
C	28mm
D	32mm
E	30mm

25F: 25mm flat (standard)	
A	Nominal + 30mm
B	Nominal - 7mm
C	46mm
D	25mm
E	30mm

Options

Hinged core

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

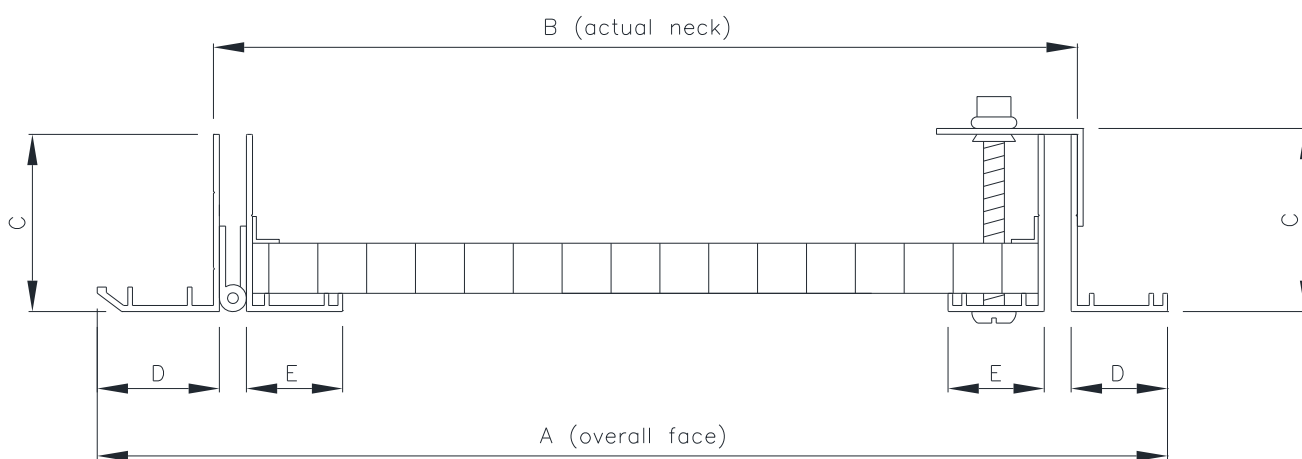
The full length piano hinge at one side is discreet, and gives minimal loss of core area.

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

Chrome plated cam fasteners are optional instead of bolts.

Ordering code: HC-BLT (for type shown)

Notes: Minimum width/height 150mm



32BD: 32mm bevelled (optional)	
A	Nominal + 45mm
B	Nominal - 7mm
C	28mm
D	32mm
E	30mm

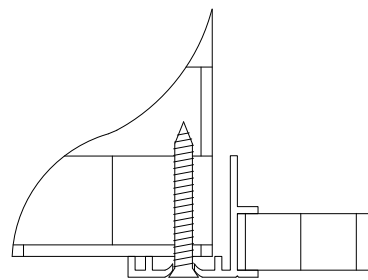
25F: 25mm flat (standard)	
A	Nominal + 30mm
B	Nominal - 7mm
C	46mm
D	25mm
E	30mm

Fixings

Countersunk fixing holes: FH

Countersunk fixing holes can be punched into the outer frame.

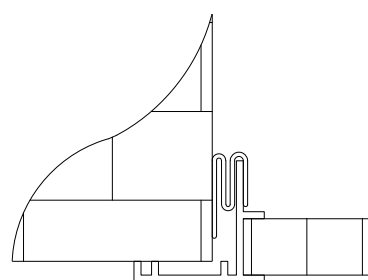
Self tapping screws in the same finish as the grille are provided as standard.



Push-in sprung clips: SC

Sprung clips which are compressed between the aperture and grille neck, holding the grille in place.

This fixing method is not suitable for use in ceilings.

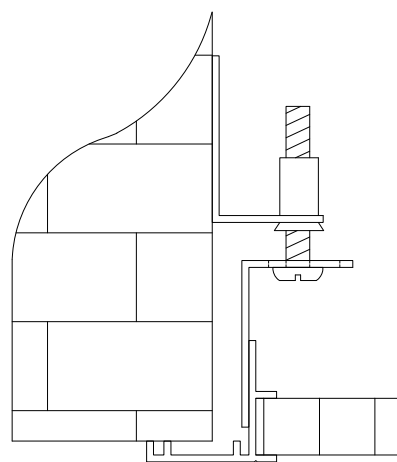


Concealed fixings: CF

Comprising 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.

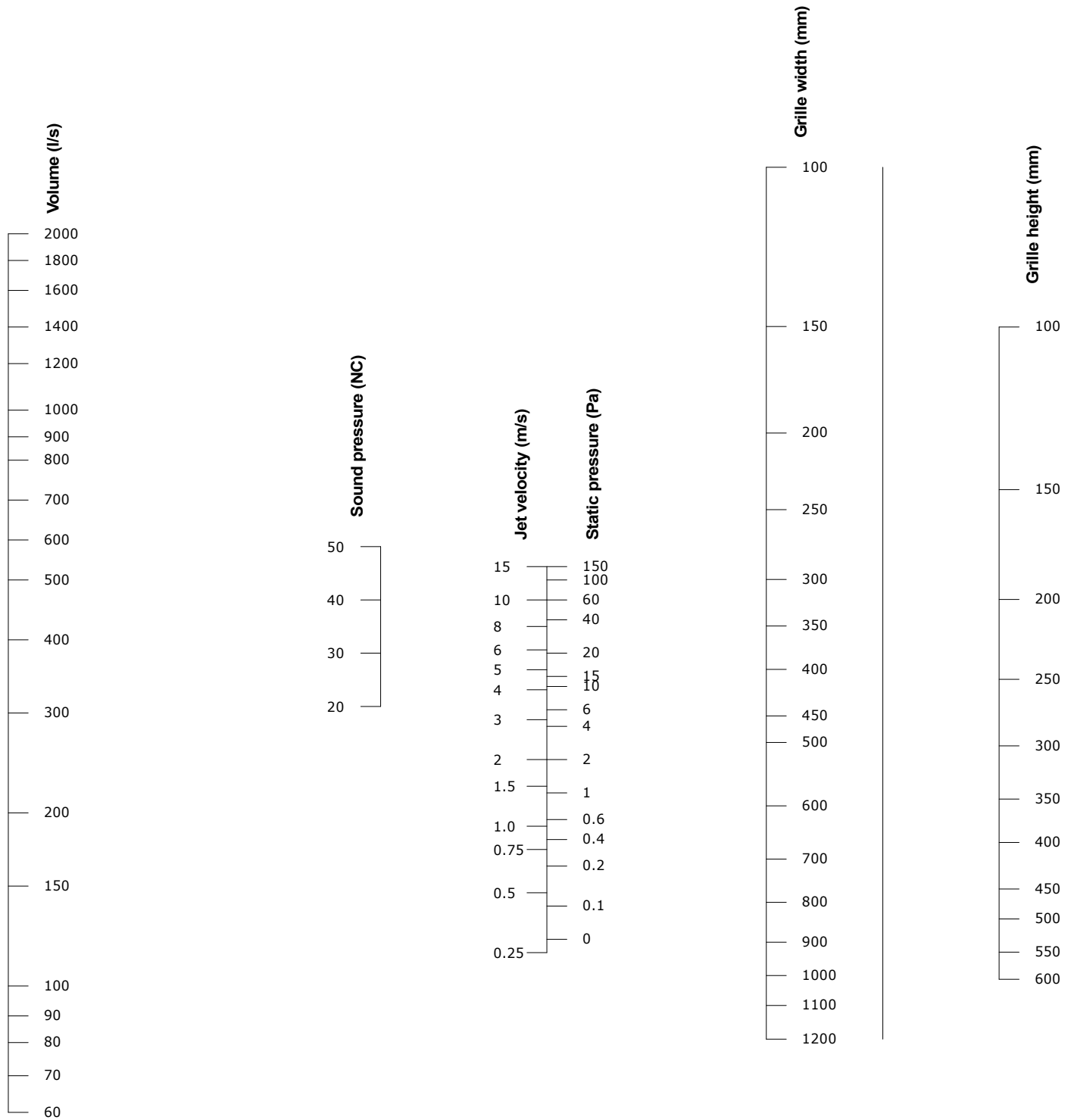
Factory supplied bolts can then be used to pull the grille securely into place.



Burgess tiles

Egg crate grilles can be factory fitted into Burgess tiles for easy installation into these systems.

Fitting into other ceiling tile systems is possible. Please contact us for more information.



Finish

Mill aluminium (standard)

Satin anodised (frame only, core mill, not with 50FE)

Polyester powder coating to any RAL/BS colour



Ordering codes

Example

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

Codes

1)	Quantity		
2)	Size (mm)	(Width x height)	
3)	Series	ECG ECG45	Egg crate grille Egg crate grille 45° core (specify blow direction if not a square size)
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 CF SC BT	Countersunk fixing holes (screws supplied in same finish) Concealed fixings (not with 'SMS' frame) Push-in sprung clips (not for use in ceilings, not with 'SMS' frame, formerly PC) Burgess tile compatible frame For other tile systems please contact us
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 Mill RAL... BS...	Satin anodised frame, mill finish core (standard, not with 50FE) Mill aluminium (standard with 50FE) 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.

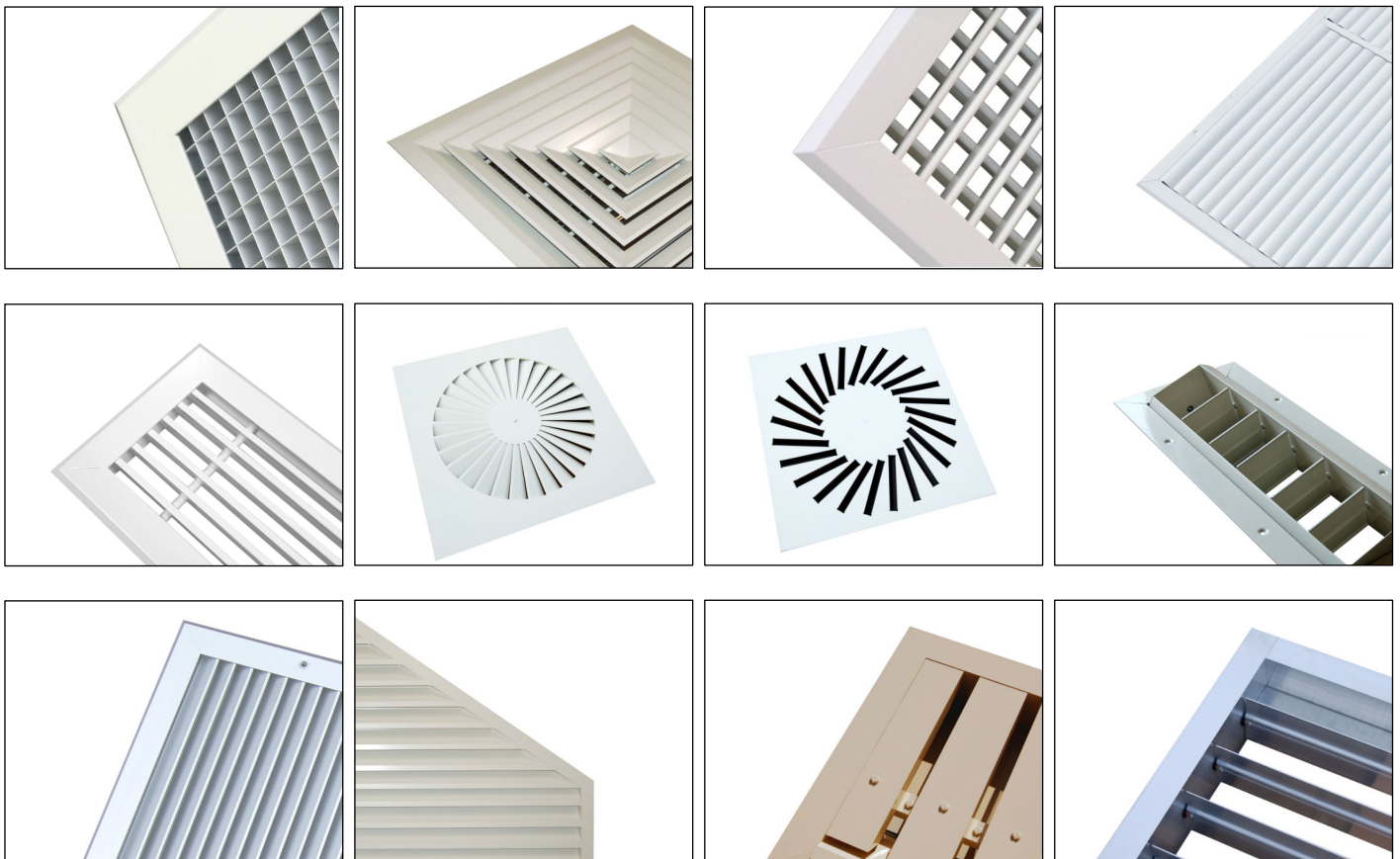
Specification of a hinged or removable core will mean 30FE, 37BE and 50FE frames cannot be used.
In this instance a standard 25mm flat frame, optional 32mm bevelled or 50mm flat frame will be substituted.

HVC & NCA products

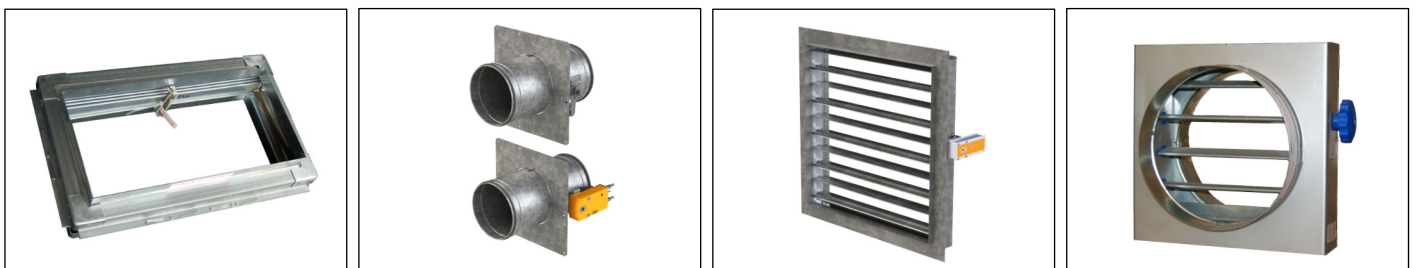
HVC offers the significant advantage of manufacturing both in duct and duct terminal equipment, making us a one stop shop for all your HVAC needs.

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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