



Incorporating



Grilles & Diffusers

Series CB

Curved blade grilles / Eye-lash diffusers

- Architectural appearance
- Highly adjustable supply grille capable of a variety of throw types
- 5 blow patterns to suit every installation
- Opposed blade dampers available
- Full range of finishes including satin anodised as standard



Series CB

Designed primarily as a supply diffuser, Series CB curved blade grilles provide an unconventional appearance with excellent diffusion capabilities, allowing narrow or wide throws to be created, in multiple directions.

Available in 5 throw formats, and with a range of options including opposed blade dampers and concealed fixings.



Design features

Material	Extruded aluminium frame and blades
Frame	Standard: 32BS - 32mm bevelled small Optional: 25F - 25mm flat SML - Surface mounted
Sizes	Minimum: 100mm x 50mm (CB1 only) Maximum single unit: 2900mm x 2900mm
Fixings	Standard: None Optional: See page 7
Finish	Standard: Satin anodised (AA5) Optional: See page 10
Mass/m² face area	8.5kg 16.5kg including opposed blade damper
Free area	Approx 90% maximum

Quality assurance

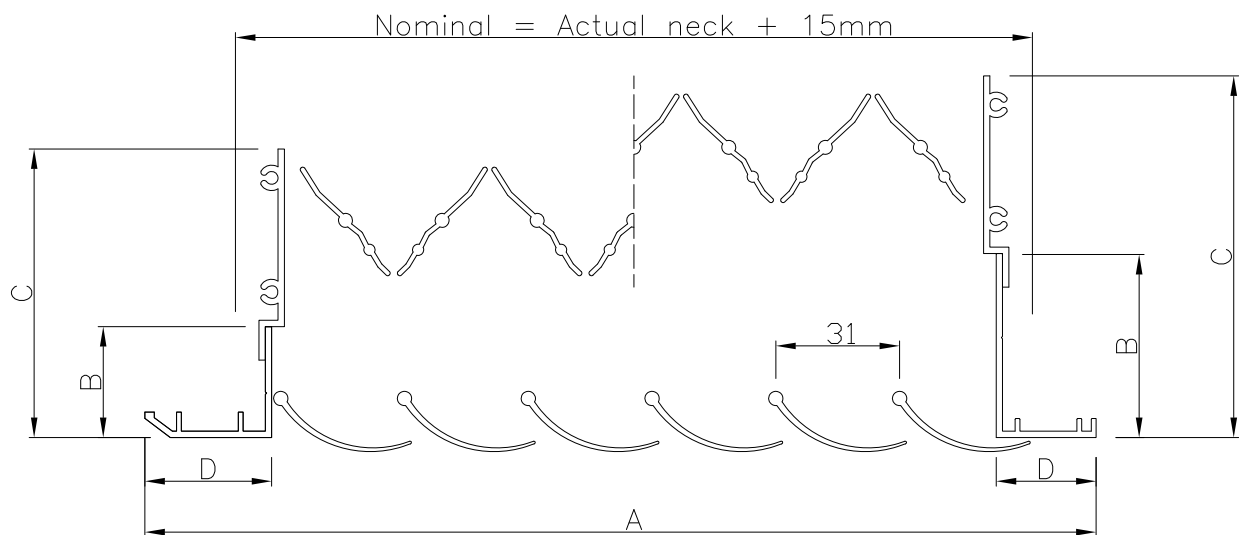
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Assessed to ISO 9001
Cert/Ref No. 1186

Technical drawings

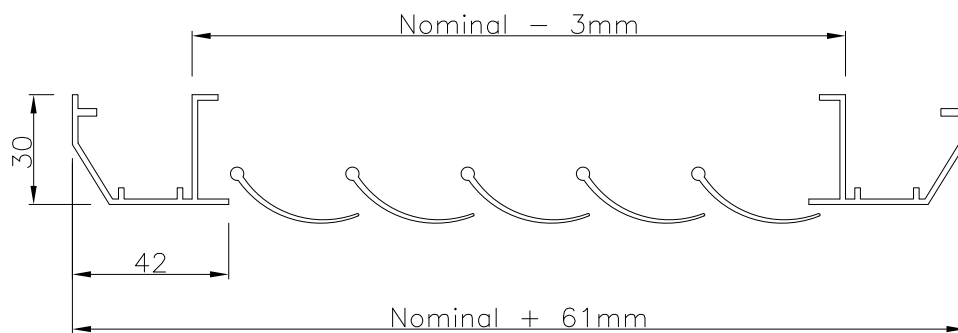
Standard



32BS: 32mm bevelled small	
A	Nominal + 45mm
B	28mm
C	72mm
D	32mm

25F: 25mm flat	
A	Nominal + 30mm
B	46mm
C	90mm
D	25mm

Surface mounted

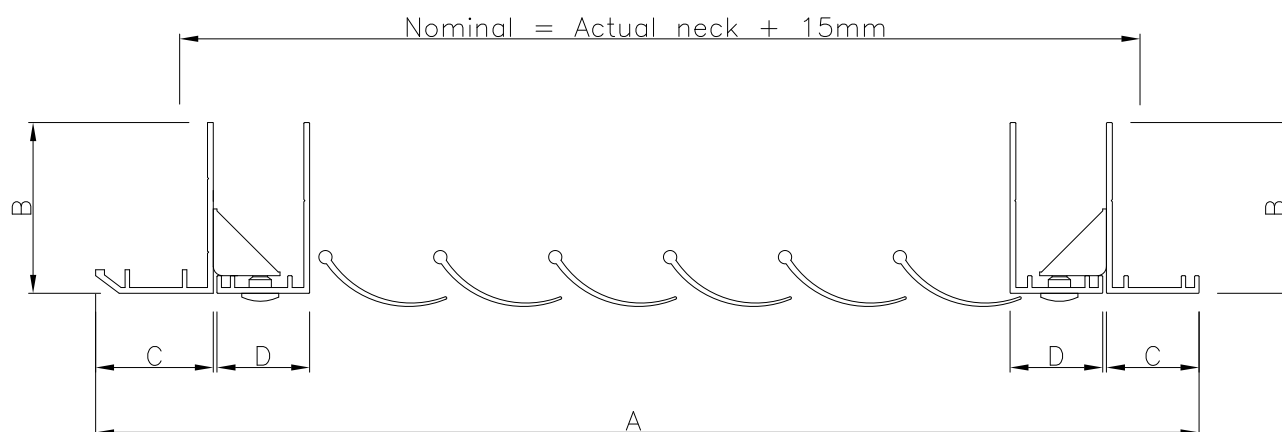


Removable core

Fitted with spring loaded quarter turn fasteners, the outer frame has angle brackets fixed to the inside of the neck.

The inner removable frame holds the chrome plated, slotted head studs, for removal with a flathead screwdriver.

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



32BD: 32mm bevelled large

A	Nominal + 45mm
B	46mm
C	32mm
D	25mm

25F: 25mm flat

A	Nominal + 30mm
B	46mm
C	25mm
D	25mm

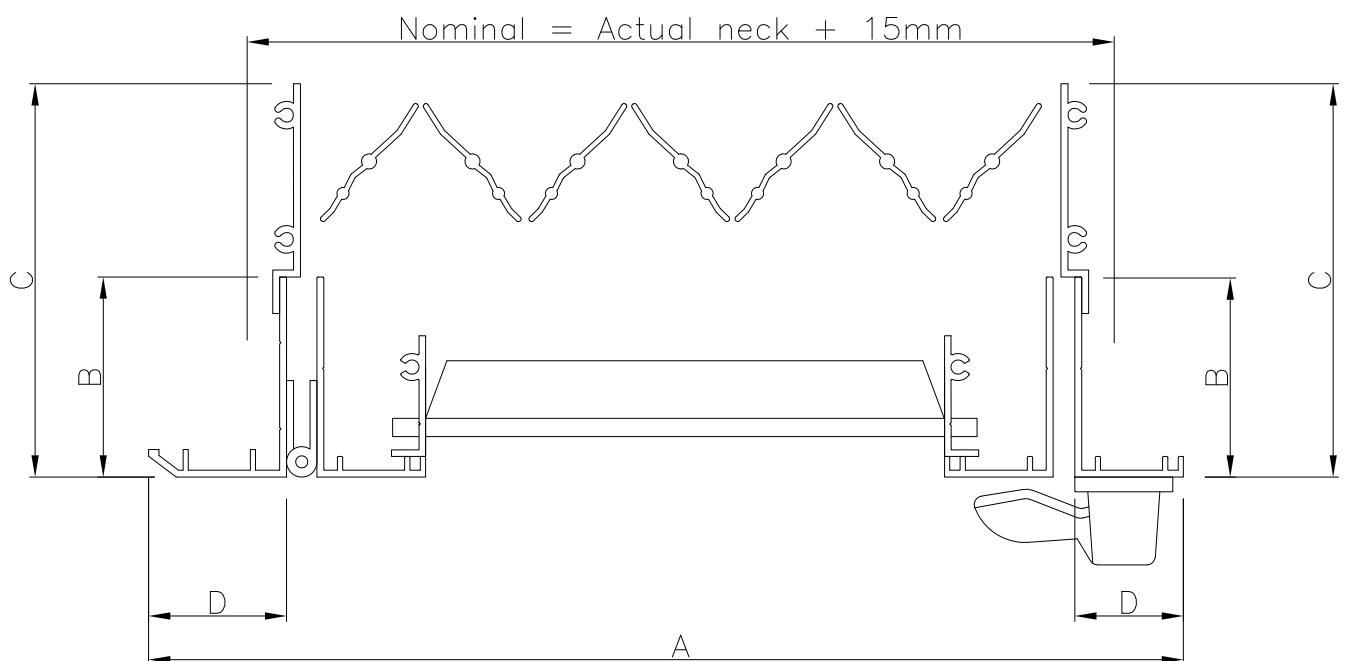
Hinged core

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 a chrome plated cam fastener as standard, bolts are optional.

Ordering code for type shown here: HC-CAM



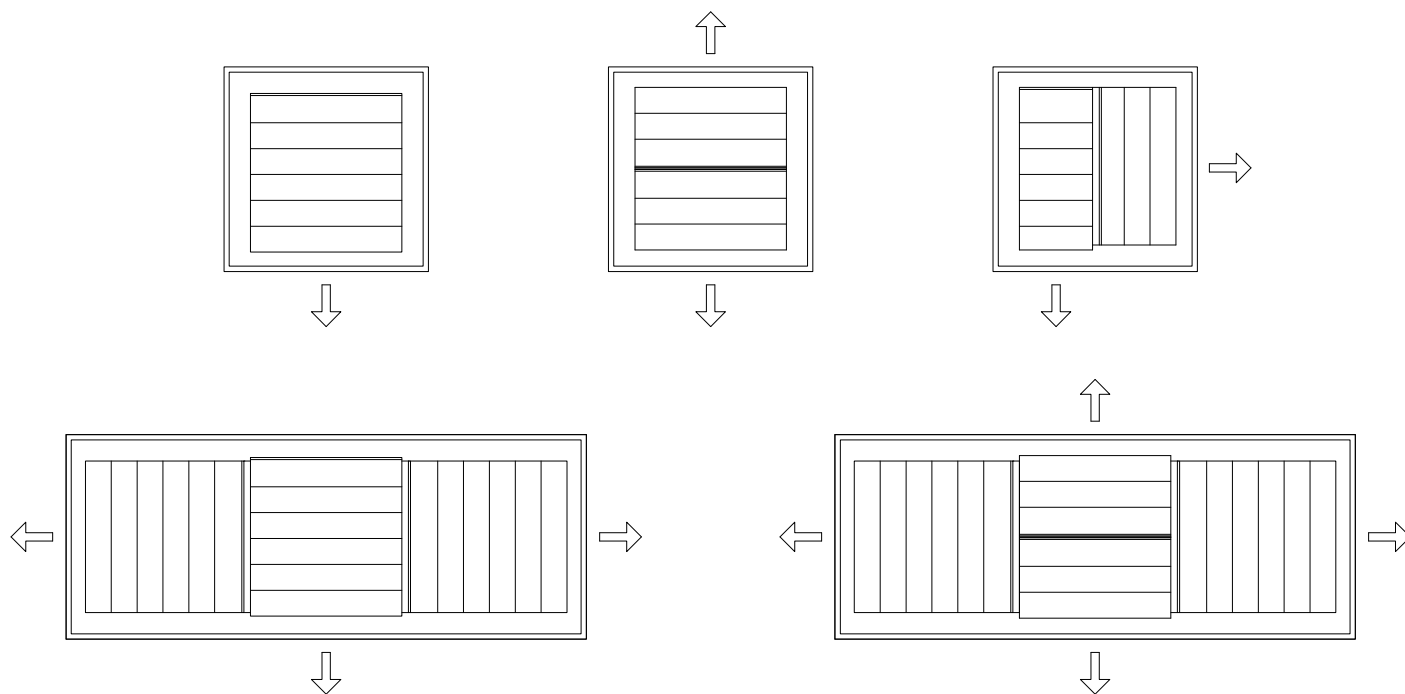
32BD: 32mm bevelled large	
A	Nominal + 45mm
B	46mm
C	90mm
D	32mm

25F: 25mm flat	
A	Nominal + 30mm
B	46mm
C	90mm
D	25mm

Blow patterns

Series CB curved blade grilles are available with the following blow patterns:

- **CB1:** 1 way
- **CB20:** 2 way opposed
- **CB2C:** 2 way corner
- **CB3:** 3 way
- **CB4:** 4 way

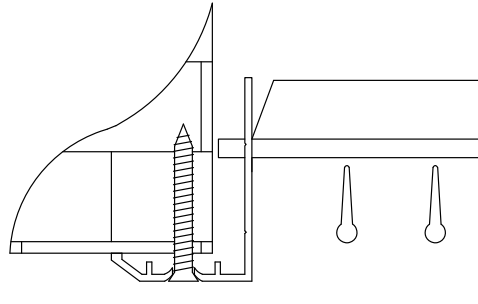


Fixings

Countersunk fixing holes: Code suffix FH

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

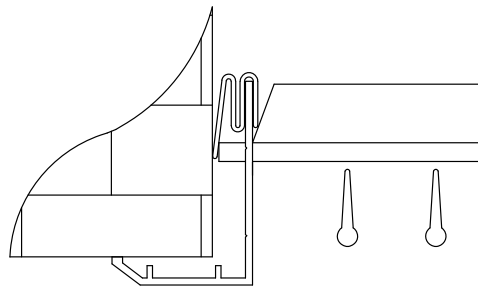
Self tapping screws in the same finish as the grille are provided as standard.



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.

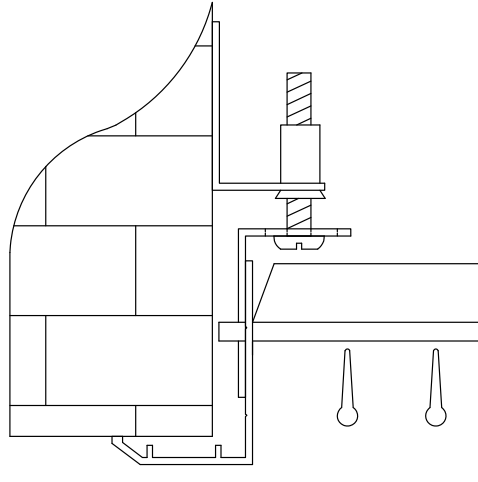


Concealed fixings: Code suffix CF

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.

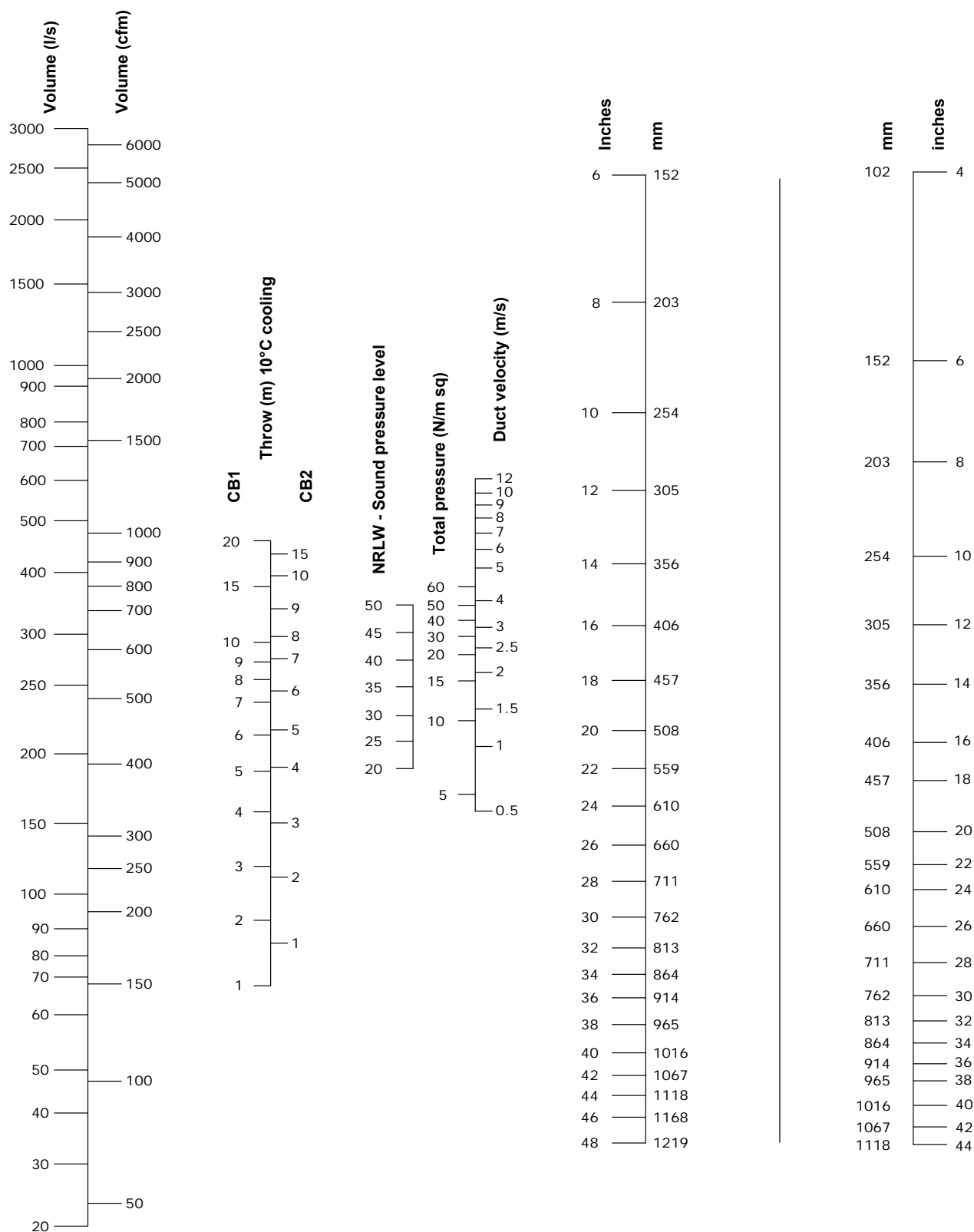


Selection data - CB1 and CB2

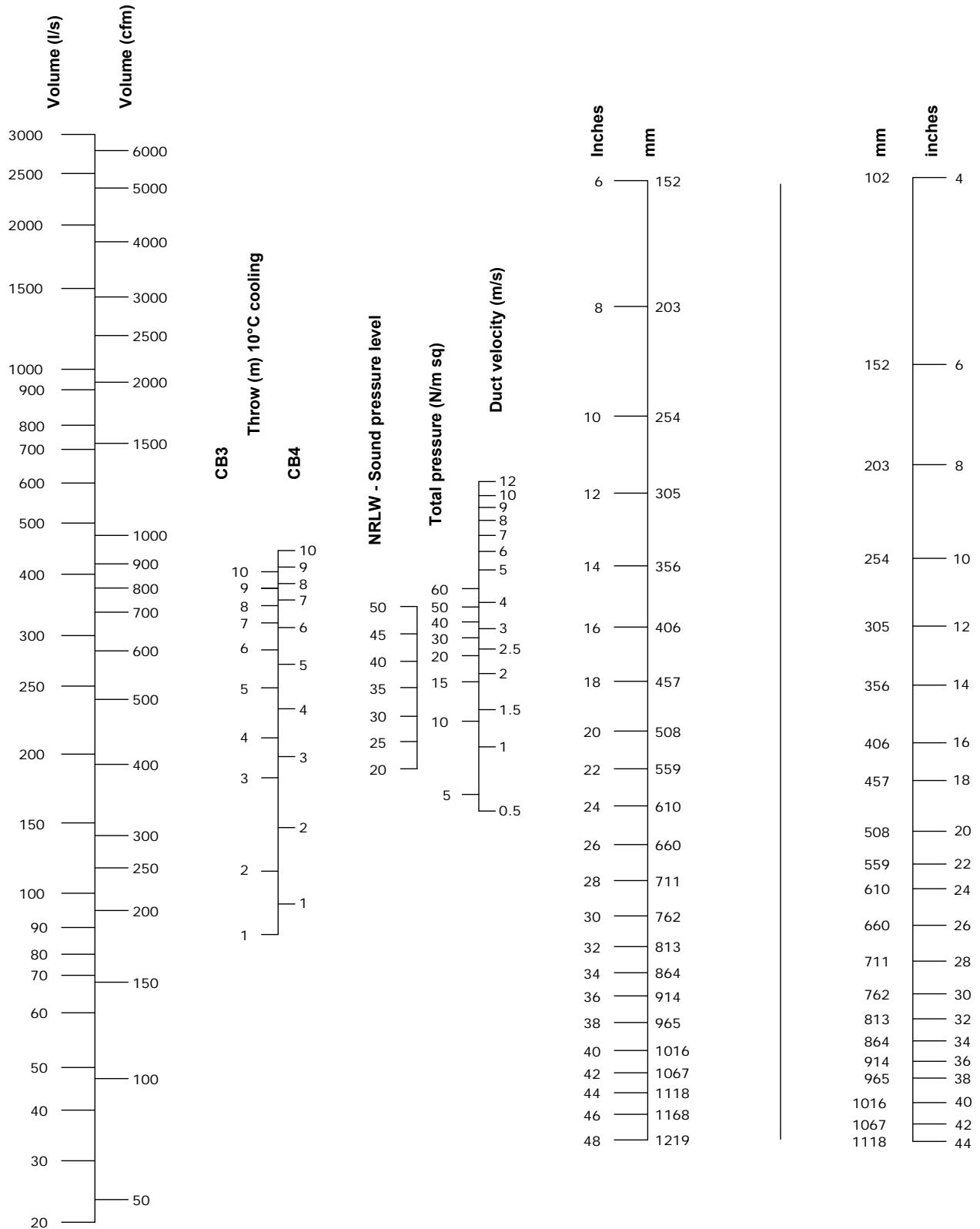
Throw values based on ceiling application.

Sound and pressure levels based upon supply with dampers fully open. Without dampers subtract 2dB and multiply total pressure by 0.9.

For isothermal applications increase throw values by 25%.



Selection data - CB3 and CB4



Finish

Satin anodised (AA5) - Standard

Mill aluminium

Polyester powder coating to any RAL or BS colour



Ordering codes

Example

1 - 400 x 400 - CB1 - D - 32BS - FH - RAL9010

Codes

1)	Quantity		
2)	Size (mm)	(Width x height)	
3)	Series	CB1 CB2O CB2C CB3 CB4	Curved blade grille - 1 way blow Curved blade grille - 2 way opposed blow Curved blade grille - 2 way corner blow Curved blade grille - 3 way blow Curved blade grille - 4 way blow
4)	Damper	D	Opposed blade damper fitted
5)	Frame	32BS 25F SML	32mm small bevelled frame (standard) 25mm flat frame (recommended for lay in ceiling systems) Surface mounted
6)	Fixings	FH PC	Countersunk fixing holes (screws supplied in same finish) Push-in clips (not for use in ceilings)
7)	Core type	RC HC-BLT HC-CAM	Removable core Hinged core - Bolt type (standard method) Hinged core - Cam fastener (optional)
8)	Finish	SAA Mill RAL... BS...	Satin anodised (standard) Mill aluminium Polyester powder coated to RAL... Polyester powder coated to BS...

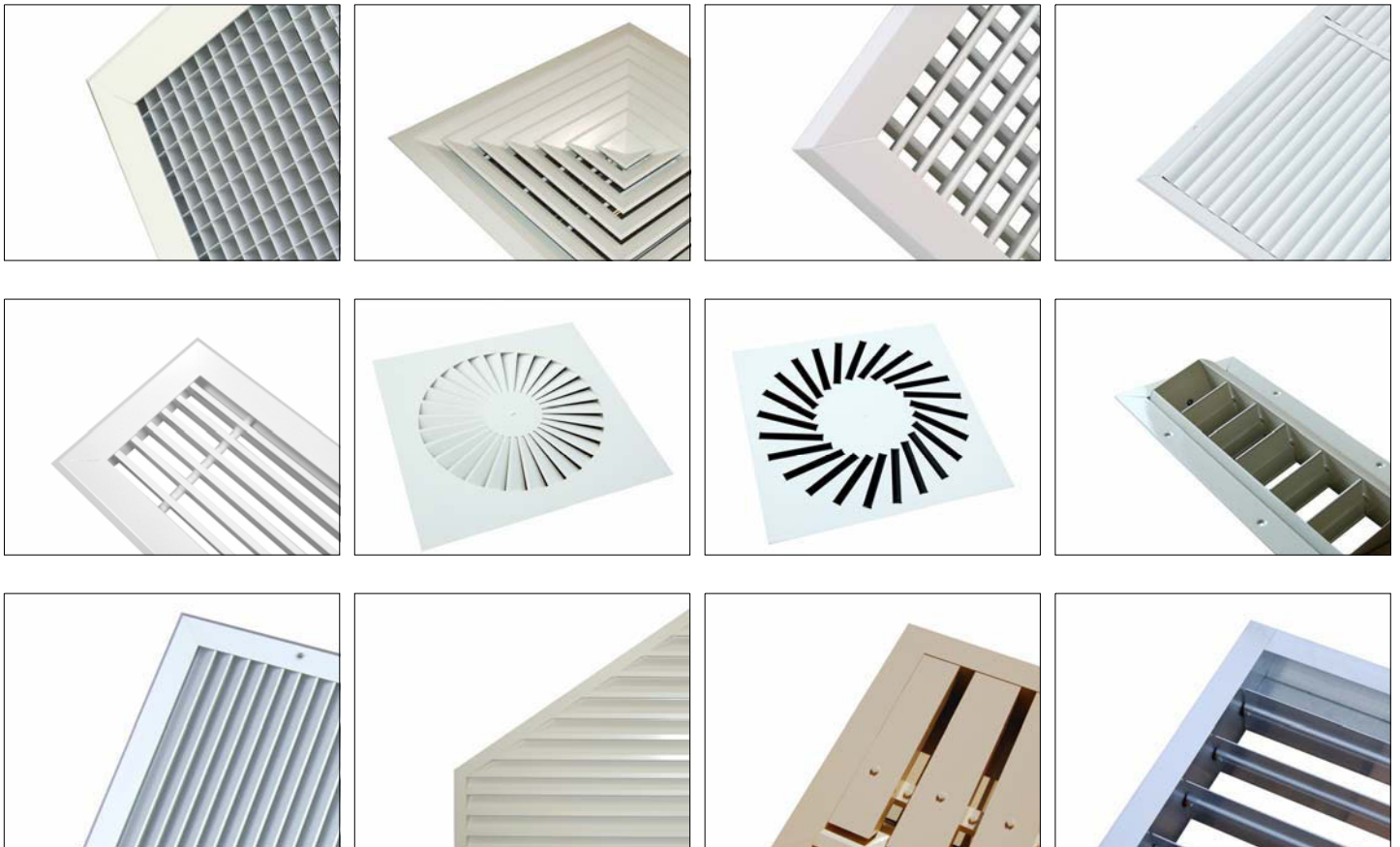
Leave code section blank if no option is required.

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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