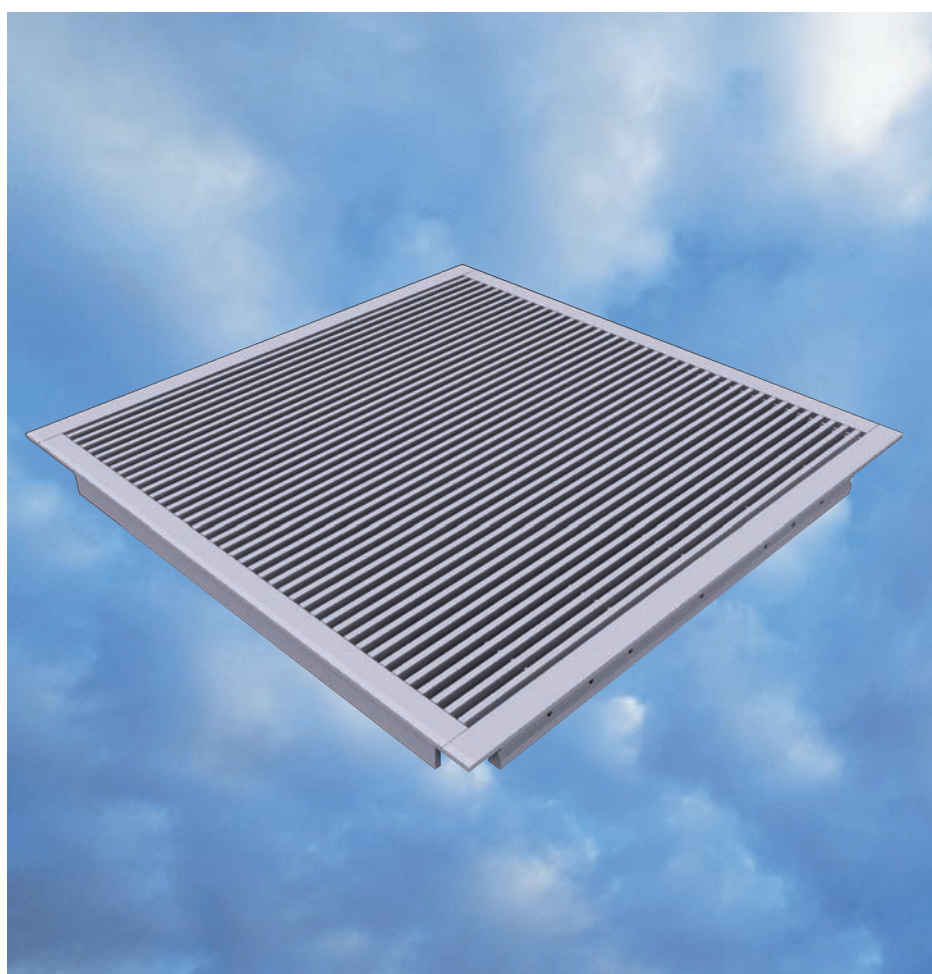


Panel Floor Grilles

Model CDA
Heavy-Duty Tile Replacement

Features

- Model CDA – Heavy / Extra Heavy Duty Panel Floor Grille
- High Free Area (39%)
- Light yet Robust Construction
- Low Profile Depth (55mm including Hit and Miss Damper)



Air Diffusion

Grilles Diffusers Louvres Chilled Beams

Ruskin Air Management Limited
www.ruskinuk.co.uk

Model CDA

Description

Model CDA heavy-duty tile replacement panel floor grille is designed to withstand heavy and extra heavy loadings. Constructed entirely from aluminium extrusions providing both lightness and strength whilst giving a high free area (39%) and enhancing air distribution performance, ideal for use in computer rooms, telephone exchanges, public areas, control rooms and other special applications where heavy loadings are evident. Model CDA is suitable for use on either supply or extract systems and may be fitted with an optional hit and miss damper.

Testing

The grille has been successfully tested without collapse to comply with the single point load specification and structural integrity requirements of British and European test standard BS EN 13264:2001, Heavy / Extra Heavy classification. (Static, impact and rolling load tests).

Finish

Standard finish is brushed aluminium alternatively a black nylon coating, or other colours are available. As a special option a Shadow Line finish may also be provided.

Dimensions

The standard floor grille size is 599mm x 599mm overall, to suit most manufacturers floor panel sizes. Other special sizes are also available.

Standard Installation Method

Each grille incorporates a recessed flange arrangement to allow installation via floor manufacturers raised floor jacks. To ensure a neat installation all grilles are manufactured to match the overall thickness of the corresponding floor panels, including the final finish covering.

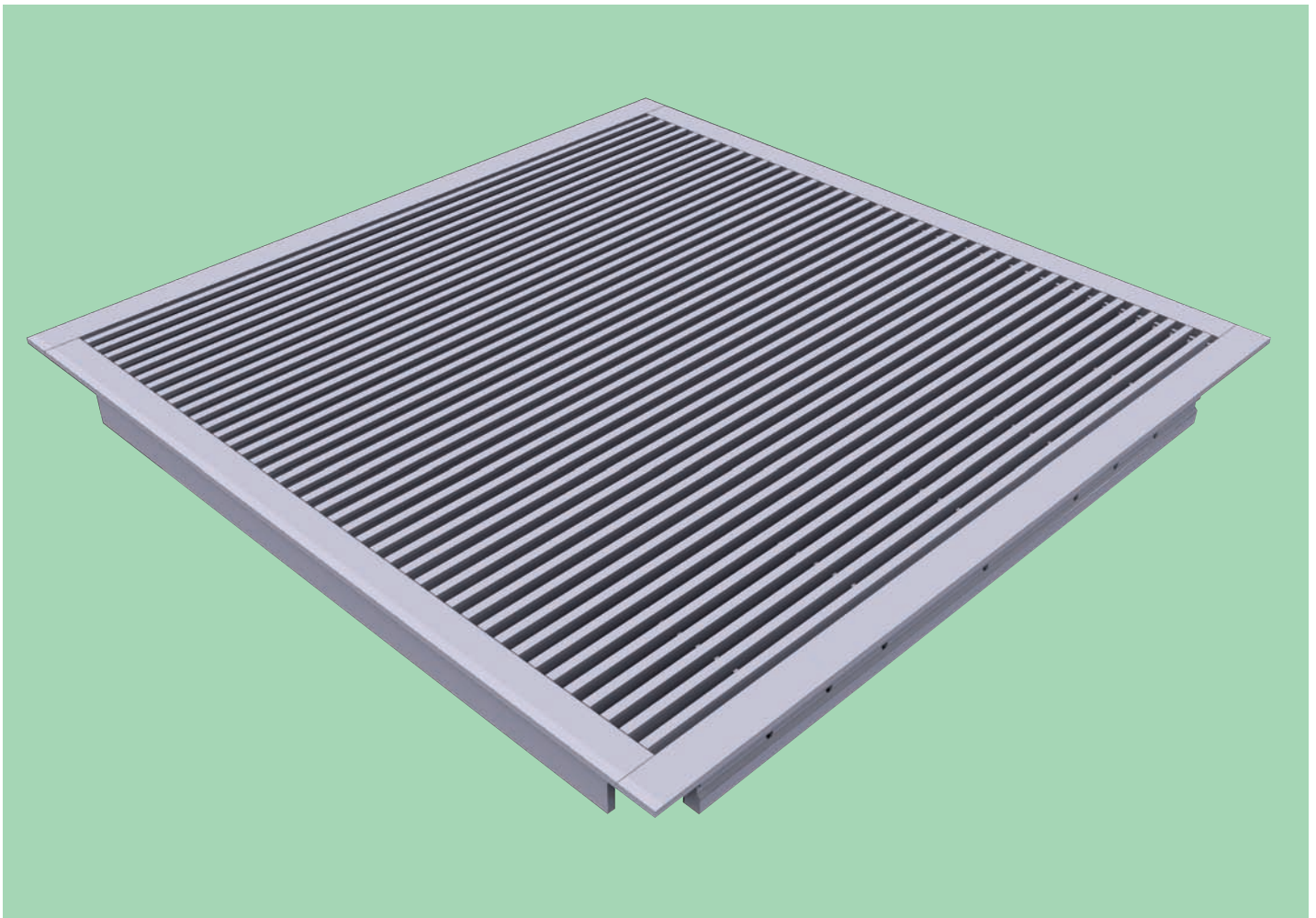
Relocation of the grille to another area is simply carried out by lifting and moving the entire floor grille to the desired new position. (Lifting handles are available at extra cost).

For some projects it is a requirement for safety and insulation that the exposed surfaces of the panel floor grilles are black nylon coated. Other colours are available on request. Earthing terminals can also be supplied as an option.

Model Types

Model CDA-G is supplied as grille only.

Model CDA-HMD is supplied complete with a hit and miss damper, which is adjusted through the grille core.



Performance Guide and Application

Performance Guide

Volume (l/s)	Total Pressure (Pa)	Free Area Velocity (m/s)	Duct Velocity (m/s)	Noise Level (NR, L _w)
200	3	1.29	0.53	22
300	5	2.27	0.93	23
400	12	3.00	1.23	30
500	16	3.49	1.43	33
600	22	4.41	1.81	41
700	26	4.76	1.95	44
800	40	5.41	2.22	49
900	53	6.39	2.62	54
1000	61	7.26	2.98	55

All Technical Data on 599 x 599mm Grille

Without Hit and Miss Damper

Application

Structural Class	Typical Application
Heavy	Computer rooms, telephone exchanges, public areas, control rooms. Load 4.5kN over 25mm x 25mm area.
Extra Heavy	Computer rooms with heavy equipment and other special applications. Load 4.5kN over 25mm x 25mm area.

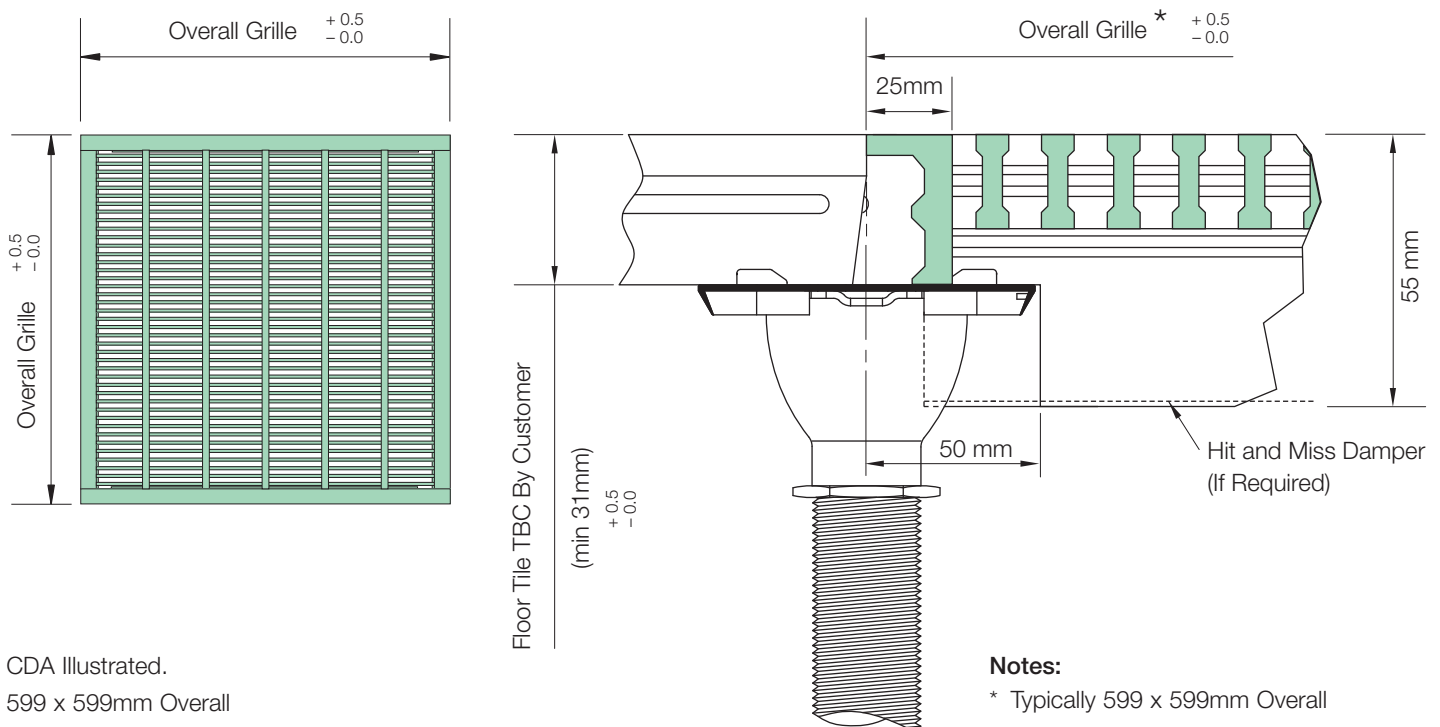
With Hit and Miss Damper

Volume (l/s)	Total Pressure (Pa)	Free Area Velocity (m/s)	Duct Velocity (m/s)	Noise Level (NR, L _w)
200	3	1.41	0.58	22
300	9	2.12	0.87	25
400	18	3.00	1.23	35
500	24	3.49	1.41	40
600	34	4.09	1.68	46
700	46	4.90	2.01	51
800	65	5.41	2.22	56
900	83	6.53	2.68	61

All Technical Data on 599 x 599mm Grille

Weight of Panel Floor Grille CDA = 14Kg (Includes Hit and Miss Damper).

Dimension and Installation Information



CDA Illustrated.
599 x 599mm Overall

Standard Ordering Procedure Example

Model	Fixing	Finish	Tile Depth	Size
CDA-G	F0	5	TBC mm	599 x 599mm
CDA-G without damper	F0 No fixing	5 Standard Brushed Aluminium	Total Tile Thickness including Floor Covering	599mm x 599mm o/all (other sizes to special order)
CDA-HMD with hit and miss damper		94 Black Nylon Coating For special finishes please refer to our Sales Office		

Important Note: All orders must be addressed to Air Diffusion, Ruskin Air Management Limited.

Ruskin Air Management Limited



Stourbridge Road, Bridgnorth, Shropshire,
WV15 5BB England.
Tel: 01746 761921
Fax: 01746 760127
Email: sales@air-diffusion.co.uk
Website: www.air-diffusion.co.uk

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