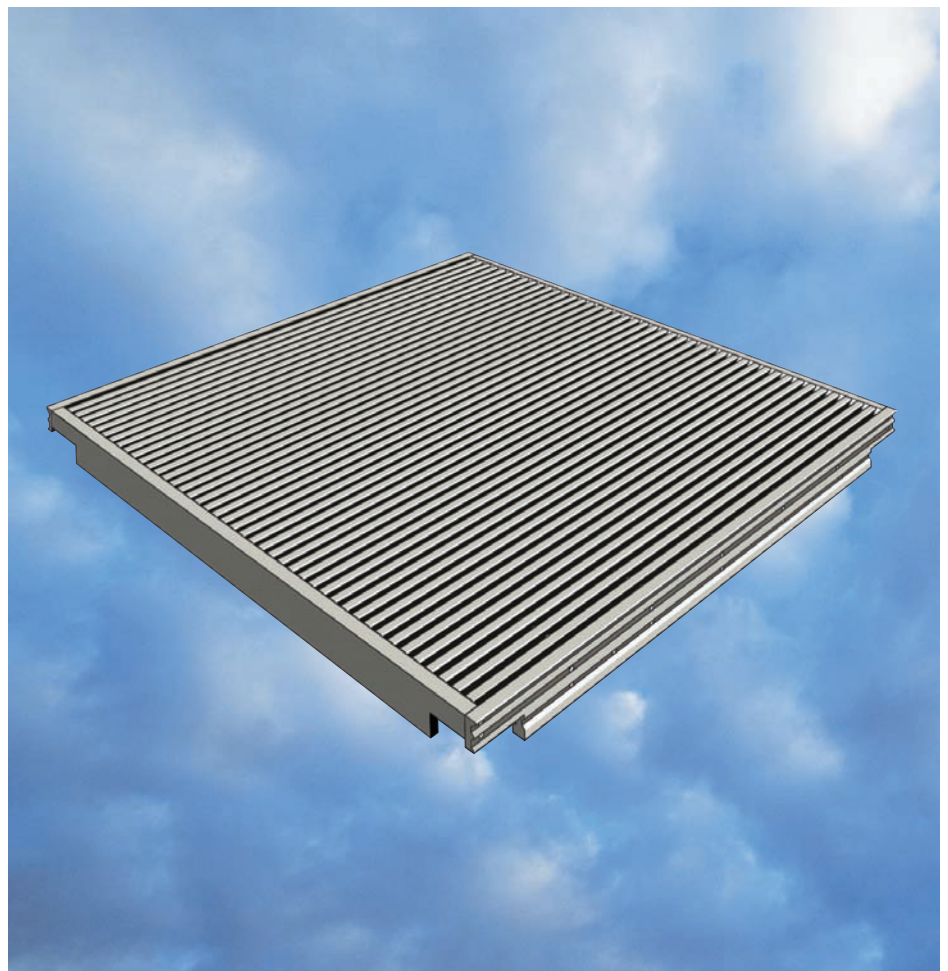


# Panel Floor Grilles

Model CDA  
Heavy-Duty Tile Replacement

## Features

- Model CDA – Heavy / Extra Heavy Duty Panel Floor Grille
- High Free Area (43%)
- 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](http://www.ruskinuk.co.uk)

### Model CDA

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#### 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 (43%) 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 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.

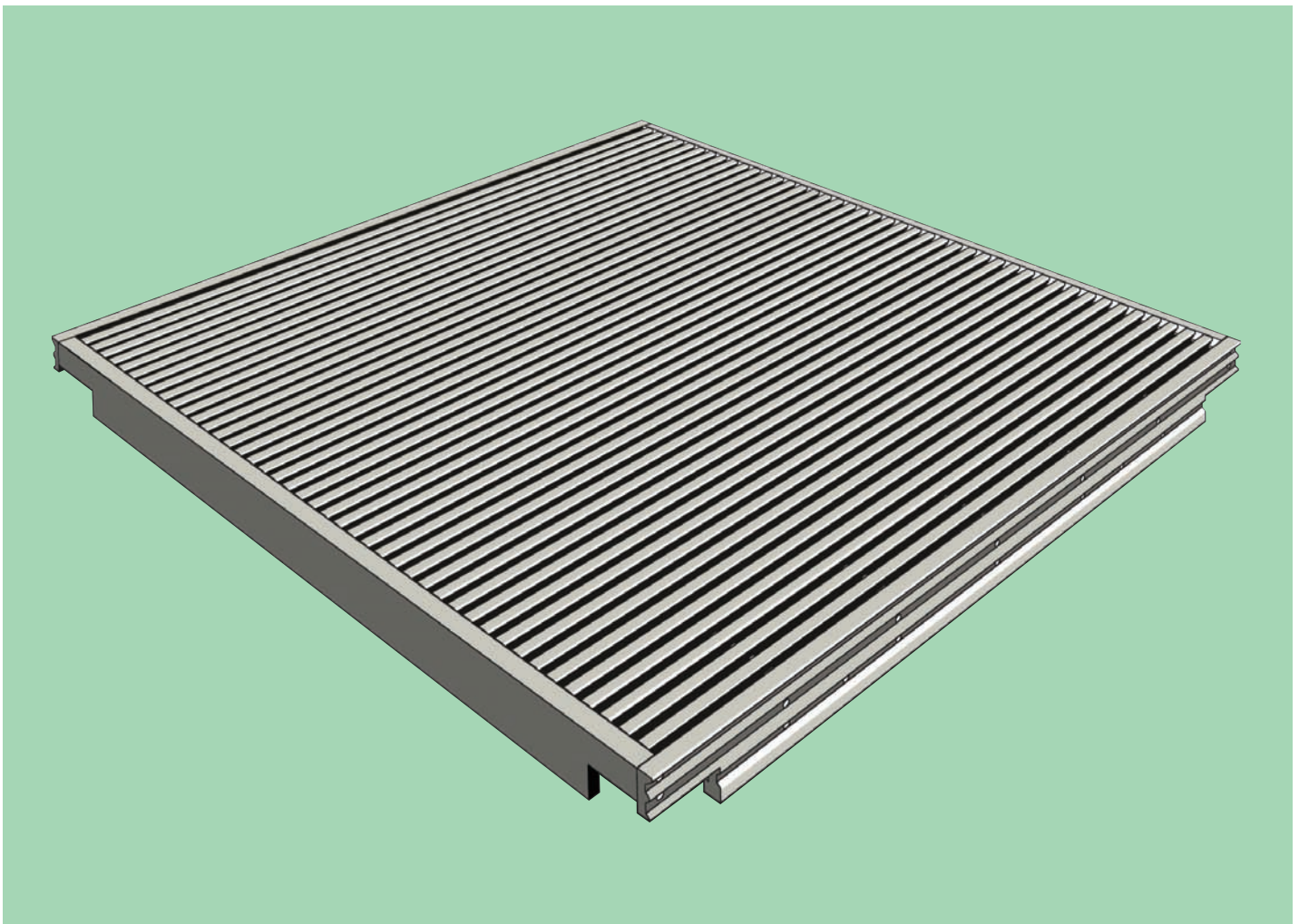
Relocation of the grille to another area is simply carried out by lifting and moving the entire floor grille to the desired new position. (Lifting handles are available at extra cost).

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

Without Hit and Miss Damper				
Volume (l/s)	Total Pressure (Pa)	Free Area Velocity (m/s)	Duct Velocity (m/s)	Noise Level (NR, L <sub>w</sub> )
200	3	1.22	0.53	21
300	5	2.16	0.93	22
400	11	2.86	1.23	29
500	15	3.33	1.43	31
600	21	4.18	1.81	39
700	25	4.54	1.95	42
800	38	5.16	2.22	47
900	50	6.09	2.62	51
1000	58	6.92	2.98	52

All Technical Data on 599 x 599mm Grille

### With Hit and Miss Damper

Volume (l/s)	Total Pressure (Pa)	Free Area Velocity (m/s)	Duct Velocity (m/s)	Noise Level (NR, L <sub>w</sub> )
200	3	1.35	0.58	20
300	9	2.03	0.87	24
400	17	2.86	1.23	33
500	23	3.28	1.41	38
600	32	3.92	1.68	44
700	44	4.66	2.01	49
800	62	5.16	2.22	54
900	79	6.22	2.68	58

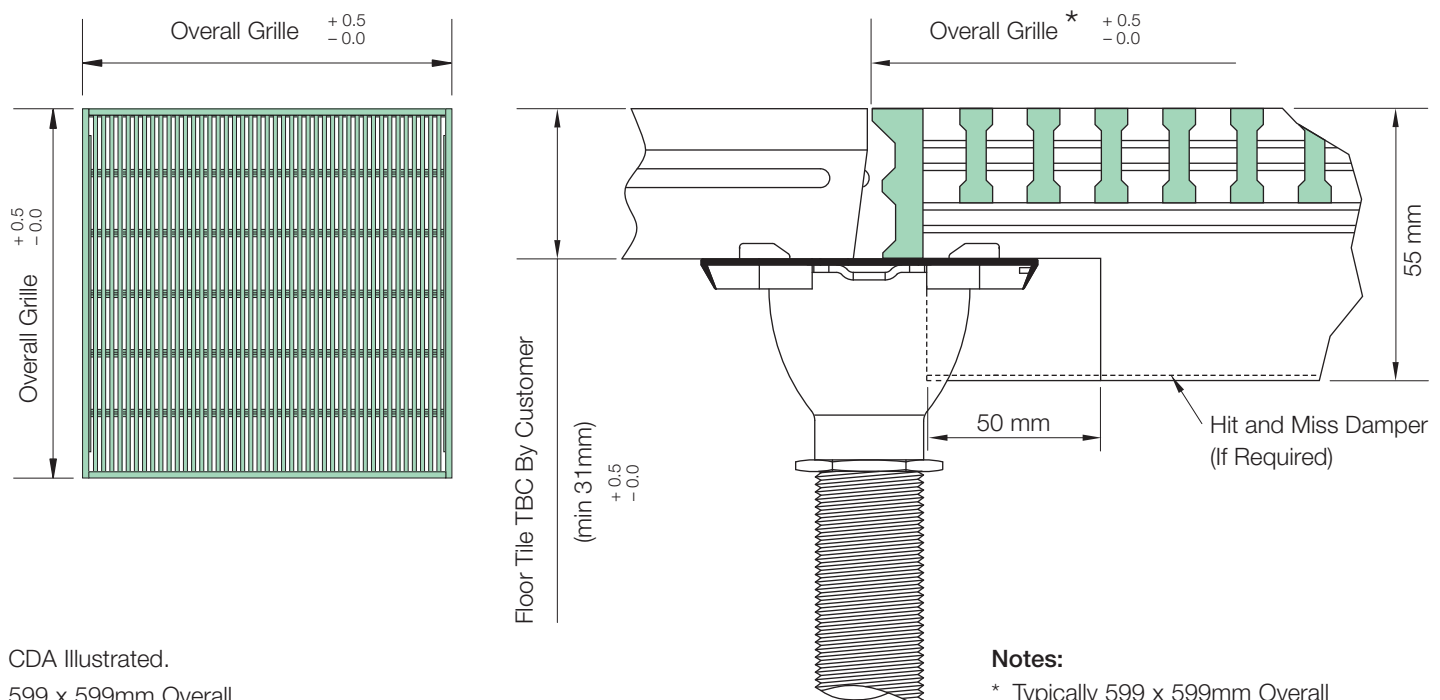
All Technical Data on 599 x 599mm Grille

### Application

Structural Class	Typical Application
<b>Heavy</b>	Computer rooms, telephone exchanges, public areas, control rooms.  <b>Load</b> 4.5kN over 25mm x 25mm area.
<b>Extra Heavy</b>	Computer rooms with heavy equipment and other special applications.  <b>Load</b> 4.5kN over 25mm x 25mm area and 11.0kN over 4 off 25mm x 25mm area.

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



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**Air Diffusion**  
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Ruskin Air Management Limited  
 is a ISO 9001 and 14001  
 registered company