

Active Heavy Duty Floor Grille

Linea HD

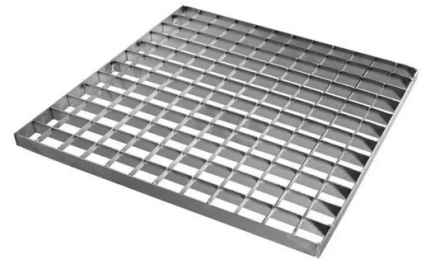
At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



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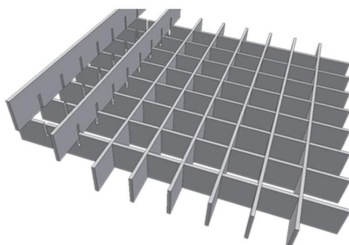
LINEA HD grille has been specifically designed for mounting in a heavy duty raised access floor, suitable for computer rooms or other areas where floor supply is advantageous. It is suitable for meeting the stringent point loading and safety factor requirements for these areas. High precision tolerances mean that the units can be interchanged with any manufacturers' tiles and due to its unique construction the grilles can be supplied with varying thickness to adapt to different manufacturers' flooring systems. Available with or without dampers and also with a range of bar thickness' and spacings.

Features

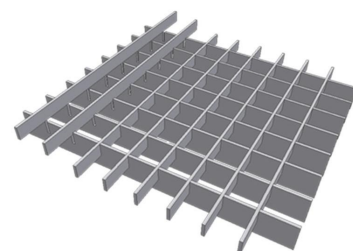
- Designed for commercial and industrial applications where heavy foot traffic is experienced.
- Tested to, and complied with, BS EN 13264-2001 Ventilation for Buildings - Floor mounted Air Terminal Devices - Test for Structural Classification - Extra Heavy Structural Class.
- Suitable for most pedestal flooring systems.
- Improved additional strength design.
- Easy "Drop in" installation.
- Linea HD are generally made from Steel S235JR UNI EN 10025; pressure locked are also made in aluminium or stainless steel.

Finish

- Heavy duty galvanised finish as standard.
- Powder or anti-static nylonic coating options available on request.



PRESSURE-LOCKED CROSS-PRESSED
EQUAL FLATS



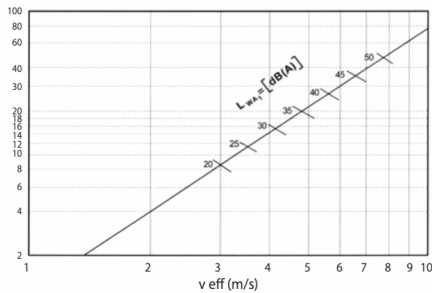
PRESSURE-LOCKED PRESSED

Sizes

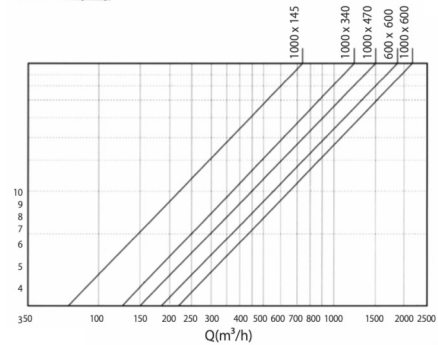
Unit Size	Effective Area
1000x145	0,063
1000x340	0,132
1000x470	0,2
600x600	0,148
1000x600	0,269

Custom sizes are available, please contact your agent

Technical Specification



Al O2 (m)



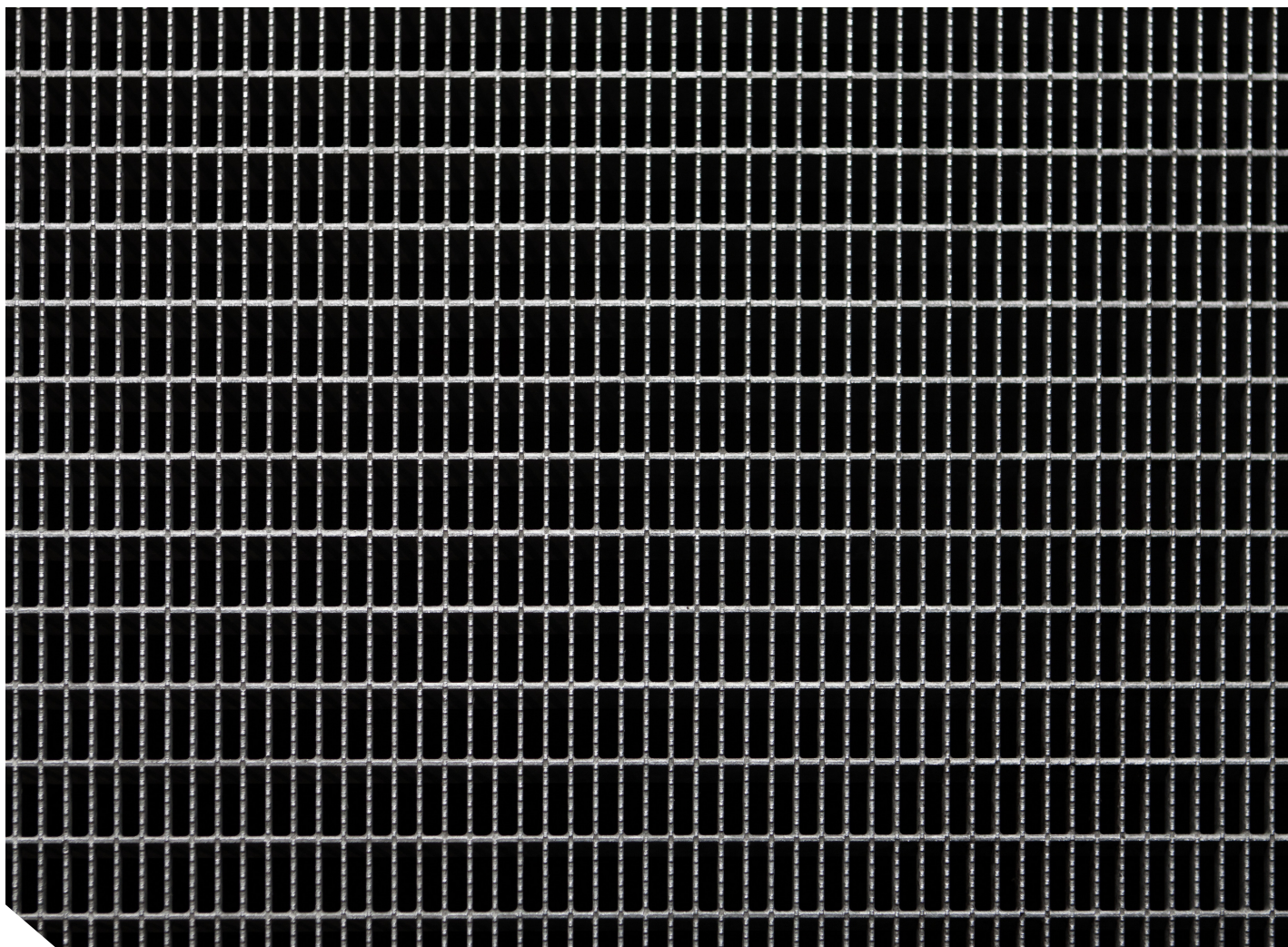
Load Test



Safety load test	8,0 kN static load trough 25 x 25 mm	Passed
Impact load test	40 kg sand bag @ 1 mt	Passed
Dynamic load test	7,5 kN load 50 passes of wheel	Passed

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Installation

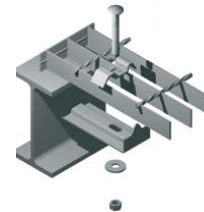
Supplied in a galvanized finish BS EN ISO 1461

HOLDING DOWN CLIPS

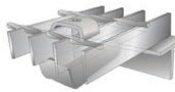
BEARING BAR CENTRES:
11, 15, 17mm
for bottom fixing



BEARING BAR CENTRES:
22, 25, 30, 34mm
for top or bottom fixing



BEARING OR TRANSVERSE
BAR CENTRES:
11mm U-clip
for top or bottom fixing



ALTERNATIVE METHOD:
HILTI (X-FCM-M grating disk)
shot fired into flange of
supporting steelwork



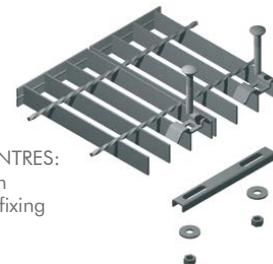
CONNECTING CLIPS

Double clamp fastener to
avoid trip-up edges with the
grating projections of two
or more consecutive panel

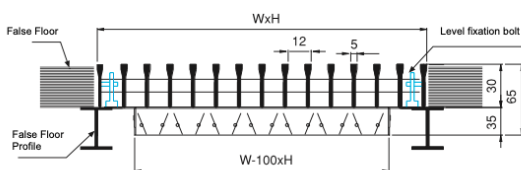


BEARING BAR CENTRES:
11, 15, 17mm
for bottom fixing

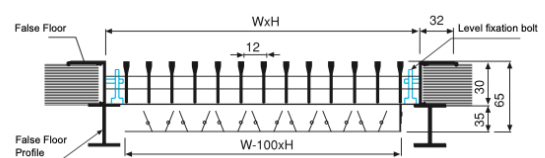
BEARING BAR CENTRES:
22, 25, 30, 34mm
for top or bottom fixing



Installation without frame with damper



Installation with frame with damper



Accessories

Linea HD

OD calibration damper
 OD calibration damper with fins with opposing movement

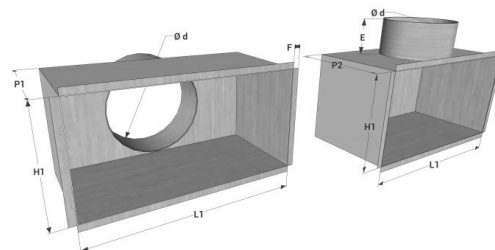


Installation sub frame



Plenum box

- Can be used for both supply and extract air
- Easy-to-detach the grilles for access to the plenum
- Same box used for several type of grilles
- Special lip bend allow an easy clips mounting of all grilles model



All dimensions are expressed in mm.

model L1 x H1	upper air connection			side air connection			E	F	model L1 x H1	upper air connection			side air connection			E	F
	P1	n° connection	Ø d	P2	n° connection	Ø d				P1	n° connection	Ø d	P2	n° connection	Ø d		
200x100	200	1	98	200	1	98	80	12	1000x200	200	2	198	300	2	198	80	12
300x100	200	1	98	200	1	98	80	12	300x300	200	1	248	350	1	248	80	12
400x100	200	2	98	200	2	98	80	12	400x300	200	1	248	350	1	248	80	12
500x100	200	2	98	200	2	98	80	12	500x300	200	1	248	350	1	248	80	12
600x100	200	2	98	200	2	98	80	12	600x300	200	2	198	350	2	248	80	12
800x100	200	2	98	200	2	98	80	12	800x300	200	2	248	350	2	248	80	12
200x200	200	1	198	300	1	198	80	12	1000x300	200	2	248	350	2	248	80	12
300x200	200	1	198	300	1	198	80	12	400x400	200	1	298	350	1	298	80	12
400x200	200	1	198	300	1	198	80	12	500x400	200	1	298	350	1	298	80	12
500x200	200	1	198	300	1	198	80	12	600x400	200	2	198	350	2	248	80	12
600x200	200	2	198	300	2	198	80	12	800x400	200	2	298	350	2	298	80	12
800x200	200	2	198	300	2	198	80	12	1000x400	200	2	298	400	2	298	80	12
560x560	-	-	-	300	1	248	80	12									

SELECTION GUIDE										
Spigot Velocity (m/s)	1,5	2	2,5	3	3,5	4	4,5	5	6	
Pressure Drop (Pa)	2	4	6	8	12	16	20	28	36	

*The pressure drop given is for supply diffuser with damper fully open.
 When the diffuser is installed with plenum box the pressure loss of the box has to be added to the diffuser.



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