

MADEL®



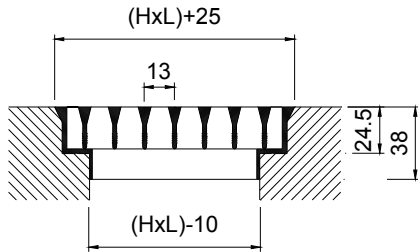
LMT-S linear floor grilles classified H 1,5



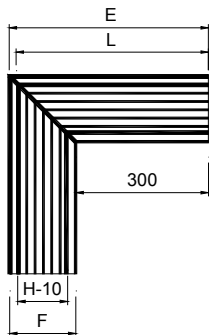
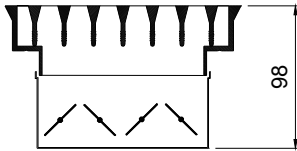
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The **LMT-S** series grilles are designed to be installed on the floor. They are suitable for supply or air return and classified H 1,5 (installation in perimeter areas, only walkable by people) according to test carried out by a credited independent laboratory, in conformity with the standard EN 1253-2.

LMT-S



LMT-S + SP



H	E	L	F
75	400	387.5	100
100	425	412.5	125
125	450	437.5	150
150	475	462.5	175
200	525	512.5	225
250	575	562.5	275
300	625	612.5	325

CLASSIFICATION

- LMT-S** Linear floor grille with end borders and fixed bars at 0° for lengths ≤ 2 m.
- ...-ARI** Grille with an end border on the left side, required to form lines > 2m.
- ...-ARD** Grille with an end border on the right side, required to form lines > 2m.
- ...-INT** Grille without end borders, required to form lines > 4m.

MATERIAL

Extruded aluminium grilles.

ADDITIONAL ACCESSORIES

- SP** Opposed blades volume damper from electro-zinc steel, in black colour. black colour. The damper is operated by an easily accessible key inside the grille.
- A90/LMT-S** Inactive grille without end borders, making a 90° angle.

FIXING SYSTEMS

- 1) Hold directly on the floor.

FINISHES

AA Matt silver anodised.

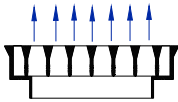
SPECIFICATION TEXT

Supply and mounting of linear floor grille with fixed bars at 0° parallels to the largest side series **LMT-S AA dim. LxH**, constructed from aluminium and anodised in matt silver **AA**. H 1,5 classification in conformity with the standard EN 1253-2. Manufacturer **MADEL**.

LMT-S

FREE FACE AREA m2.

H \ L	150	200	250	300	350	400	450	500	600	700	800	900	1000
75	0,004	0,006	0,007	0,009	0,010	0,012	0,014	0,015	0,019	0,022	0,025	0,028	0,032
100	0,006	0,008	0,010	0,013	0,015	0,017	0,020	0,022	0,027	0,031	0,036	0,041	0,045
150	0,010	0,014	0,018	0,023	0,026	0,030	0,034	0,038	0,046	0,054	0,062	0,070	0,078
200	0,014	0,019	0,025	0,031	0,036	0,041	0,046	0,052	0,063	0,073	0,084	0,095	0,106
250	0,018	0,025	0,031	0,039	0,045	0,052	0,059	0,065	0,079	0,093	0,106	0,120	0,133
300	0,022	0,030	0,038	0,047	0,054	0,063	0,071	0,079	0,095	0,112	0,128	0,145	0,161



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
2	3.5

Determination of air flow.
Measuring the Vf in different points of the grille, we find the Vfmed.

$Q \text{ (l/s)} = V_{\text{fmed}} \text{ (m/s)} * A_{\text{free}} \text{ (m}^2) * 1000$
 $Q \text{ (m}^3\text{/h)} = V_{\text{fmed}} \text{ (m/s)} * A_{\text{free}} \text{ (m}^2) * 3600$

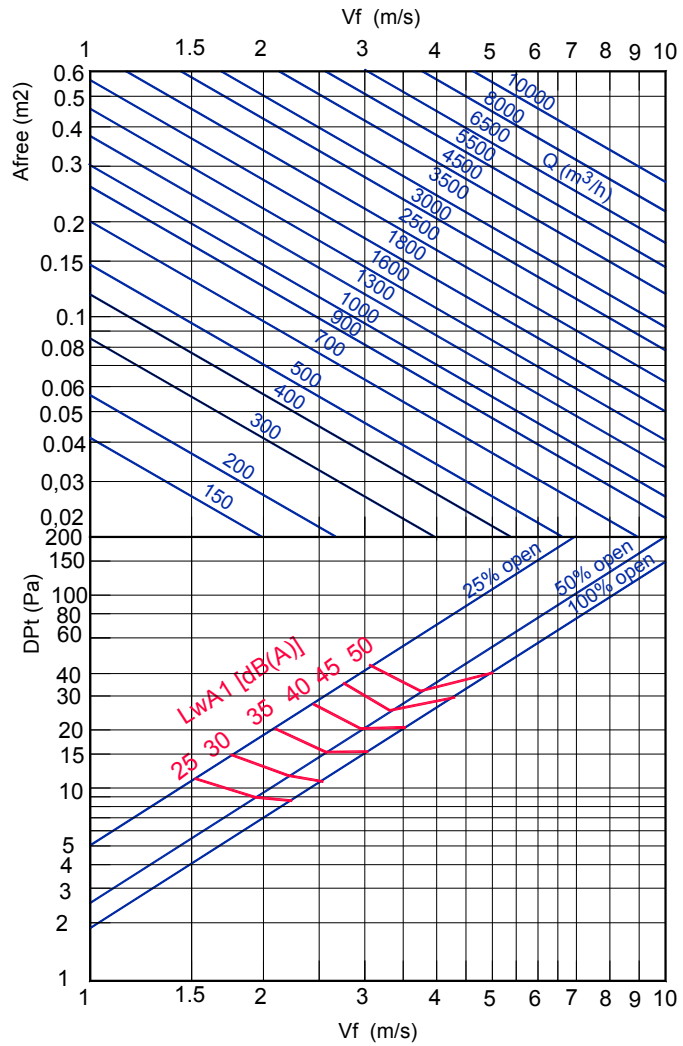
CORRECTION FACTOR FOR Lwa1.

Afree m2	0,01	0,02	0,05	0,1	0,2	0,4
Lwa1(kf)	-9	-6	-3	-	+4	+7

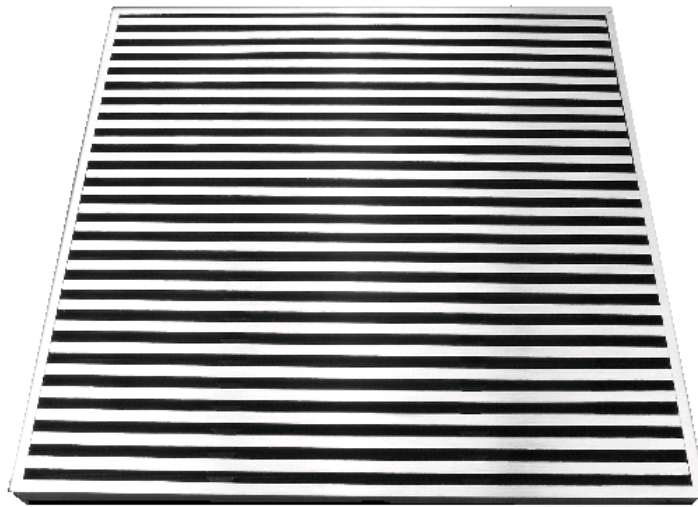
Weighted noise level related to
Afree = 0,1m2.

$L_{\text{wa}} = L_{\text{wa1}} + K_{\text{f}}$

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



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LMT-SHD linear floor grilles



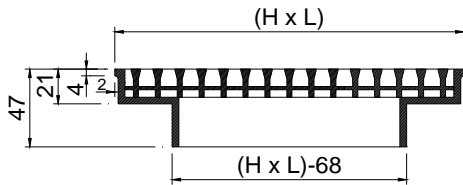
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The **LMT-SHD** series grilles are designed to be used in air-conditioning, ventilation and heating.

Suitable for mounting in raised access floors on any applications where heavy foot or equipment traffic is to be experienced.

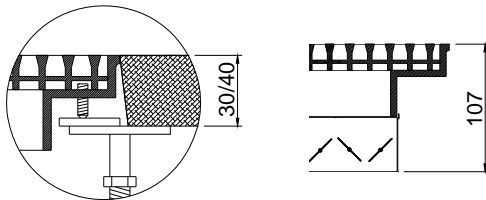
L15 classification (installation in areas with traffic of light vehicles, excluded the forklift trucks, according to test carried out by a credited independent laboratory, in conformity with the standard EN 1253-2).

LMT-SHD



(1)

LMT-SHD + SP-HD



CLASSIFICATION

LMT-SHD Linear floor grille with fixed bars parallels to the largest side (L size).

MATERIAL

The grille is constructed from aluminium.

ADDITIONAL ACCESSORIES

SP-HD Opposed blades volume damper from electro-zinc steel, in black colour. The damper is operated by an easily accessible key inside the grille.

FIXING SYSTEMS

- 1) Supported directly on the floor.
- (A) Adaptable to different floor thickness forwards four screws frontally accessible.

FINISHES

Shadowline - linished finish.

SPECIFICATION TEXT

Supply and mounting of linear floor grille with fixed bars parallels to the largest side series **LMT-SHD dim. LxH**, constructed from aluminium and shadowline – linished finish.

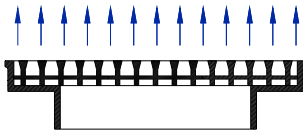
Manufacturer **MADEL**.

L15 classification in conformity with the standard EN 1253-2.

LMT-SHD

FREE FACE AREA m2.

L \ H	145	210	275	340	405	470	535	600
600	0,02	0,037	0,055	0,072	0,089	0,106	0,124	0,141
1000	0,035	0,066	0,096	0,132	0,157	0,187	0,217	0,269



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
1,5	2,5

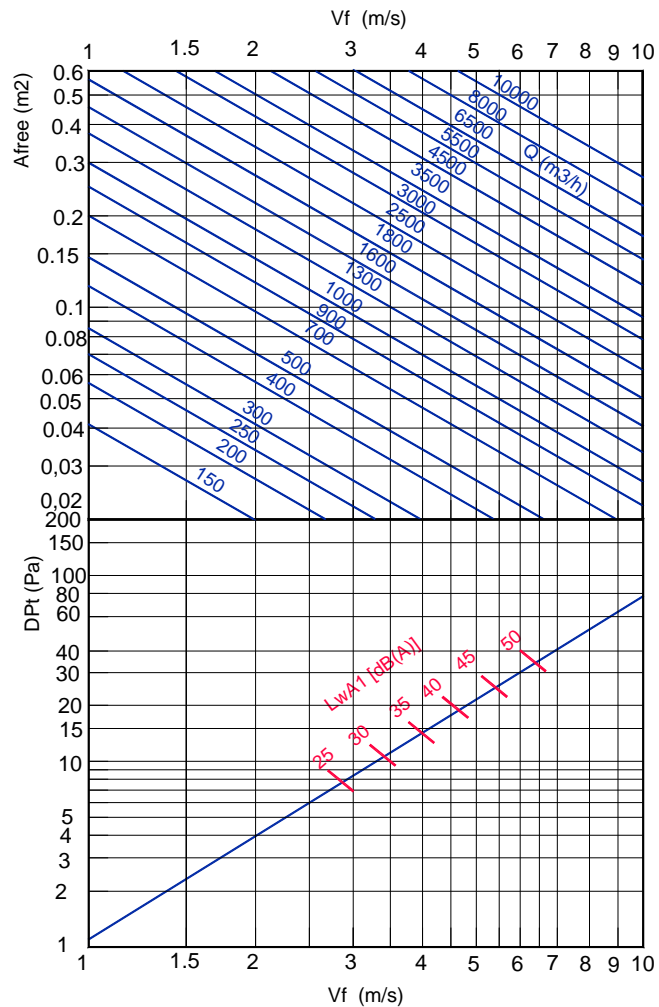
Determination of air flow.

Measuring the V_f in different points of the grille, we find the V_{fmed} .

$$Q \text{ (l/s)} = V_{fmed} \text{ (m/s)} * A_{free} \text{ (m}^2) * 1000$$

$$Q \text{ (m}^3\text{/h)} = V_{fmed} \text{ (m/s)} * A_{free} \text{ (m}^2) * 3600$$

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



LMT-SHD

