

## LMT-SHD linear floor grilles

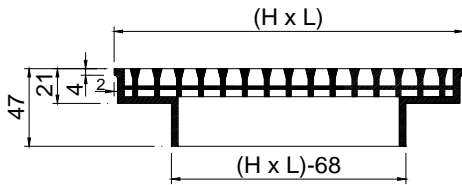
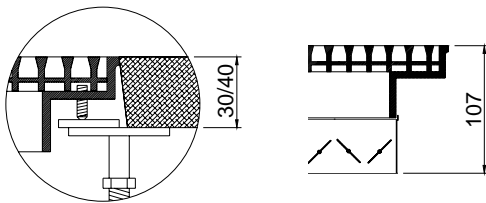


MADEL®

Les grilles de la série **LMT-SHD** ont été conçues pour être utilisées dans les installations de ventilation, chauffage et d'air conditionné.

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.

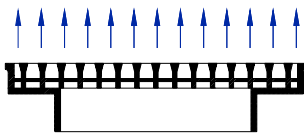
Manufacturer **MADEL**.

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

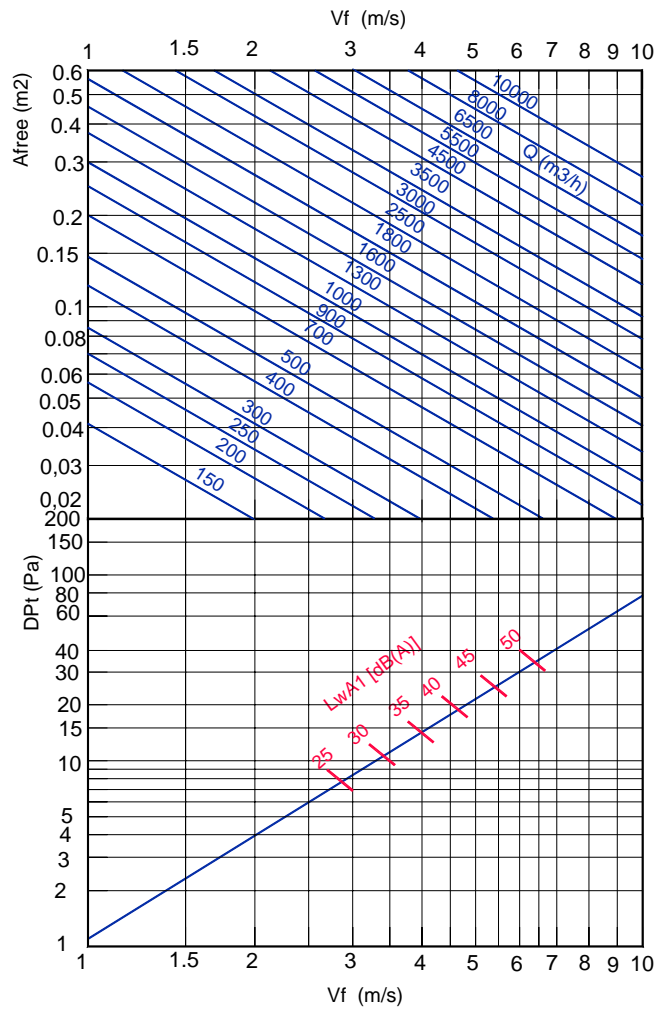
Determination of air flow.

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

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

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

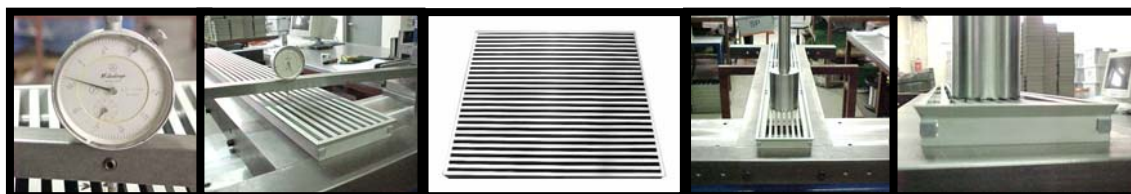
FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.





## Grille LMT-SHD: L15 Class

According to load test on the european norm EN-1253-2



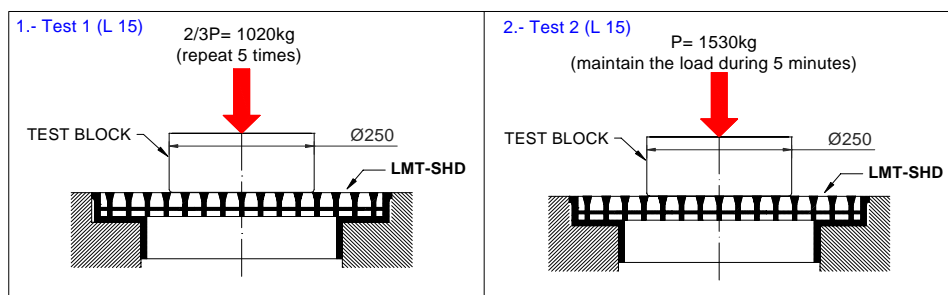
### 1. - OBJECTIVE OF TEST

Classify floor grilles or floor diffusers in accordance to load test corresponding to the European norm EN-1253-2, with the objective of determine the right places for its installation.

### 2. - TEST PROCEDURE

Apply the load vertically, through the test block, on a most unfavourable point of grilles or diffuser. Exist two tests:

Class	Load test P (2)		Permanent deformation f to 2/3 P (1)
	kN	Kg	
L 15	15	1530	2/500 (0.4%) of the free opening (AL) but not more of 2.0mm



### 3. - PLACES OF INSTALLATION

**Class L15:** Zone with traffic of light vehicles, excluded the fork-lift trucks from bracket, used in commercial areas.