

MADEL



LMT-MISS reduced frame at 15 linear grilles



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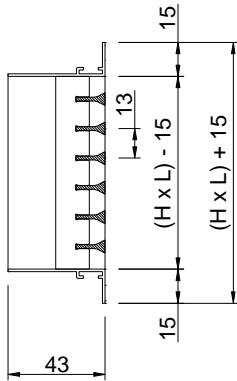
The **LMT-MISS** series grilles are designed to be used in air-conditioning, ventilation and heating.

The distance between the blades and the thickness of them give great strength and an aesthetic appearance which makes them ideal for living rooms and locations where decorative factors are of prime importance.

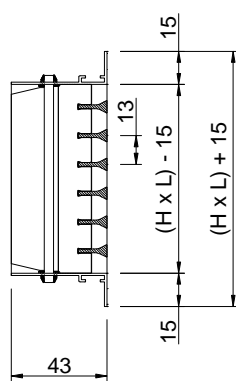
They are suitable for supply and extraction in particular or for use in air curtains. They can be placed in ceilings and walls.

CLASSIFICATION

LMT-MISS



LMT-MISS-DD



LMT-MISS Grille with end borders and fixed bars at 0°. Suitable for lengths ≤ 2 m.

LMT-MISS-15 Grille LMT with fixed bars at 15°.

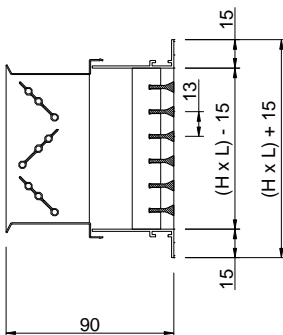
...-DD LMT grille with individually adjustable rear blades, parallels to the shortest side.

...-ARI Grille with an end border on the left side, required to form lines > 2 m.

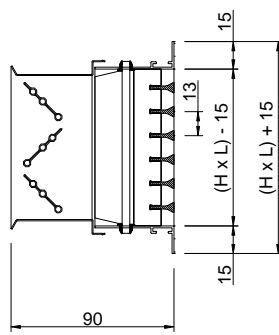
...-ARD Grille with an end border on the right side, required to form lines > 2 m.

...-INT Grille without end borders, required to form lines > 4 m.

LMT-MISS+SP



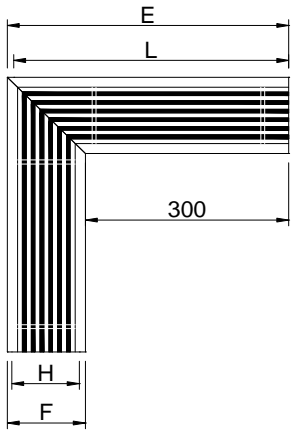
LMT-MISS-DD+SP



MATERIAL

Extruded aluminium grille. All the grilles are provided with seal on the back of the frame in order that the perimeter in contact with walls, ceiling, ducts, etc... is airtight.

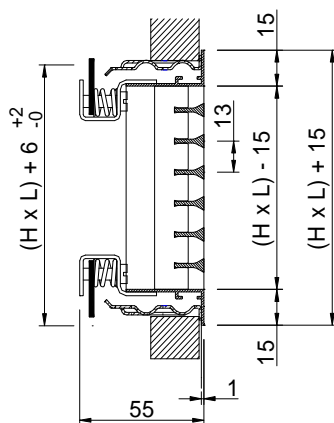
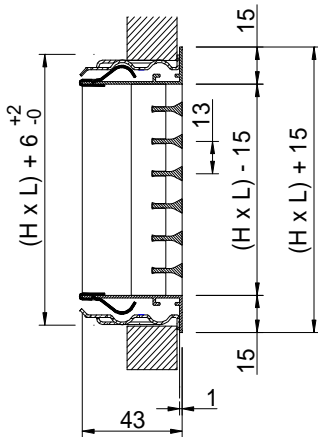
A90/LMT-MISS



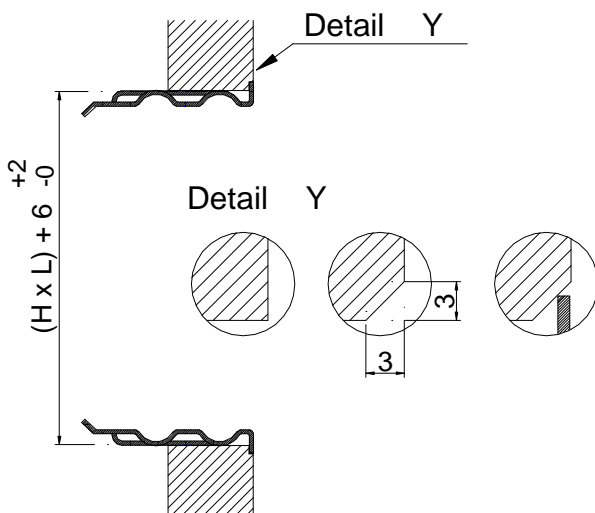
H	E	L	F
75	390	383	90
100	415	408	115
125	440	433	140
150	465	458	165
200	515	508	215
250	565	558	265
300	615	608	315

(S)

(O)



Mounting frame CSS instructions



ACCESSORIES

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

A90/LMT-MISS Inactive grille without end borders, making a 90° angle.

PMIS Plenum box with circular connection.

FIXING SYSTEMS

(S) Clips. It requires mounting frame CSS.

(O) Hidden screw. It requires mounting frame CSS.

FINISHES

AA Matt silver anodised.

M9016 Painted in white similar to RAL 9016.

RAL... Painted in other RAL.

RAL...LMT-DD Painted in other RAL. Rear blades in black colour.

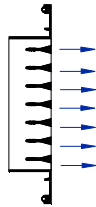
SPECIFICATION TEXT

Supply and mounting of linear grille with reduced frame at 15 mm and fixed bars at 0° parallels to the largest side series **LMT-MISS+SP+CSS (S) M9016 dim. LxH**, constructed from aluminium paint in white **M9016** with opposed blades volume damper from electro-zinc steel in black colour **SP**, invisible fixing by clips **(S)** and mounting frame **CSS**.
 Manufacturer **MADEL**.

LMT-MISS

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
350	0,026	0,036	0,046	0,056	0,066	0,076	0,085	0,095	0,115	0,135	0,155	0,174	0,194
400	0,030	0,041	0,052	0,064	0,075	0,086	0,098	0,109	0,131	0,154	0,177	0,199	0,222
450	0,034	0,046	0,059	0,072	0,084	0,097	0,110	0,122	0,148	0,173	0,198	0,224	0,249
500	0,038	0,052	0,066	0,080	0,094	0,108	0,122	0,136	0,164	0,192	0,220	0,249	0,277



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.

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

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

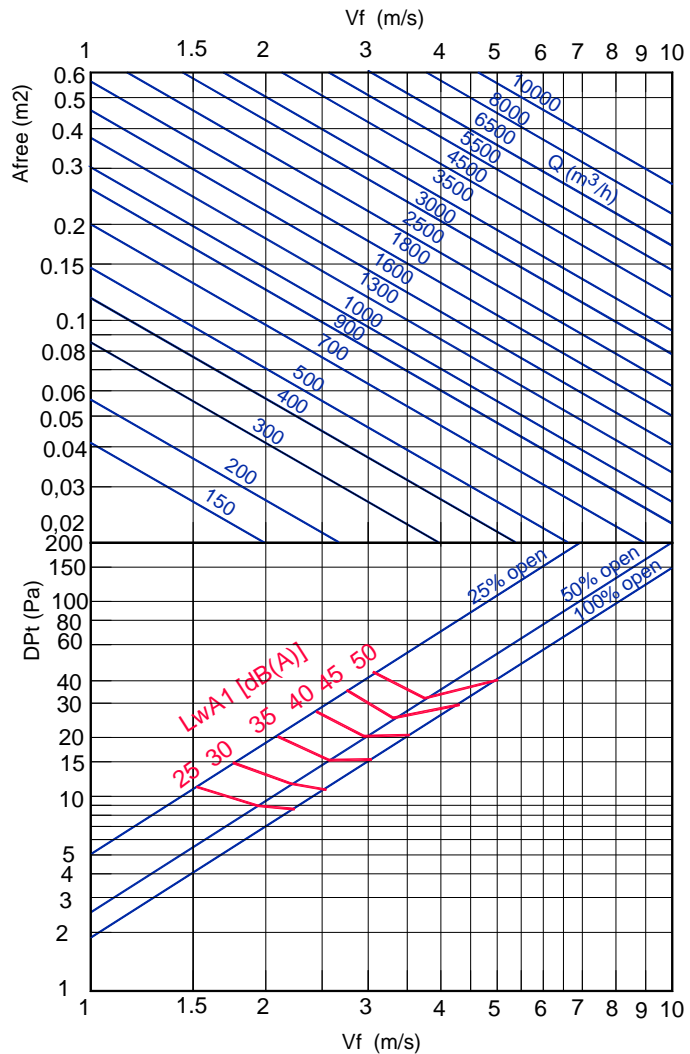
CORRECTION FACTOR FOR Lwa1.

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

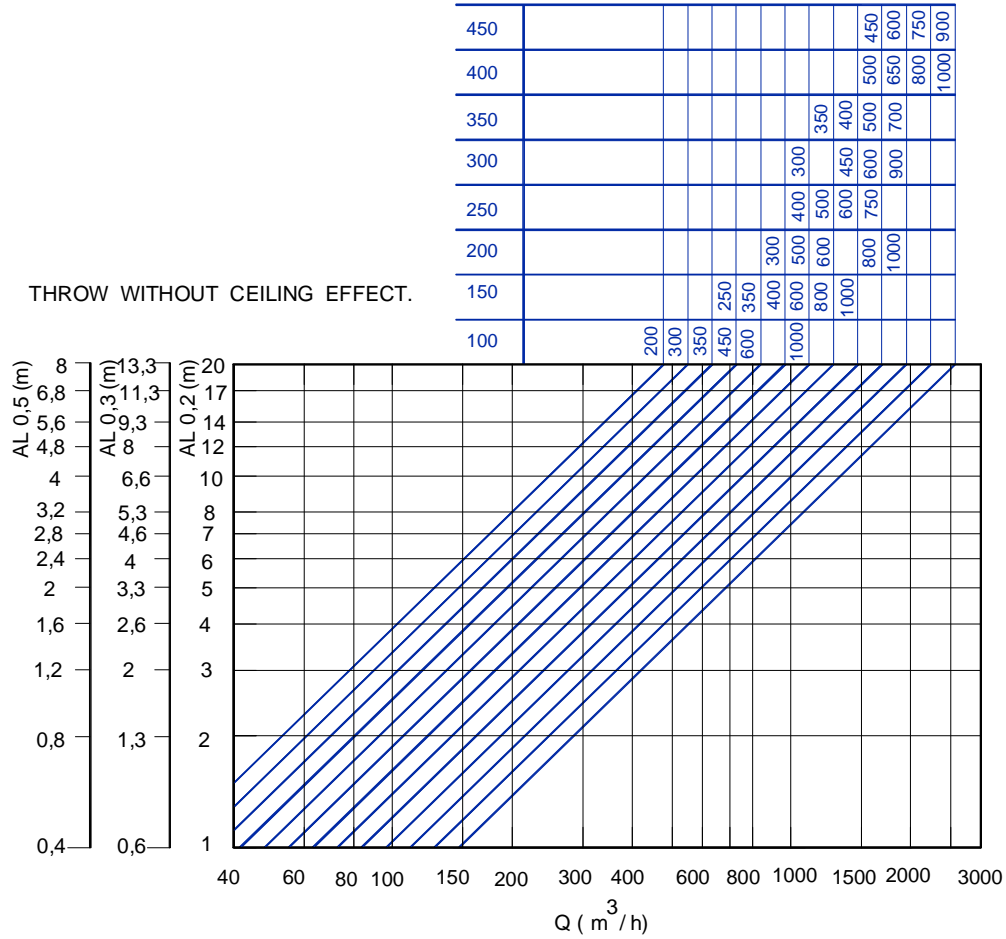
Weighted noise level related to
Afree = 0,1m2.

$$Lwa = Lwa1 + Kf$$

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.

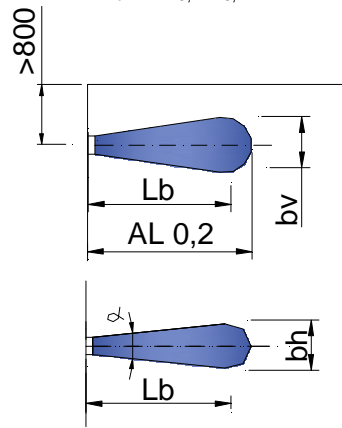


LMT-MISS



POSITION OF BLADES 0° WITHOUT CEILING EFFECT.

AL0,2
 Lb = AL0,2 x 0,53
 bv = AL0,2 x 0,12
 bh = AL0,2 x 0,4



POSITION OF BLADES 0° WITH CEILING EFFECT.

AL'0,2 = AL0,2 x 1,33
 Lb = AL0,2 x 0,7
 bv = AL0,2 x 0,106
 bh = AL0,2 x 0,53

