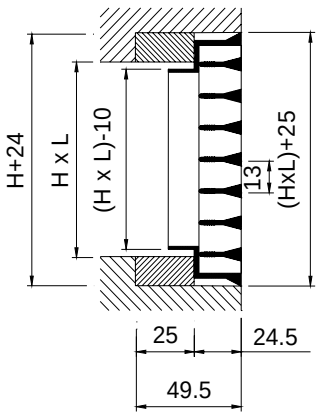
Approved by an Independent Laboratory UNE-EN 12538:2

LMT-SW linear grilles

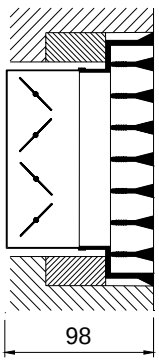
MADEL®

The **LMT-SW** 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.

LMT-SW+CW



LMT-SW+ SP



CLASSIFICATION

LMT-SW Linear grille with fixed bars at 0º designed for levelled false ceiling. Suitable 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.
CW Wooden mounting frame.

FIXING SYSTEMS

1) LMT-SW are supplied with a special screws for fixing the grille to CW frame.

FINISHES

AA Matt silver anodised.
M9016 Painted in white similar to RAL 9016.
RAL… Painted in other RAL.

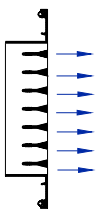
SPECIFICATION TEXT

Supply and mounting of linear grille for levelled false ceiling with fixed bars at 0º parallels to the largest side series **LMT-SW+CW AA dim. LxH**, constructed from aluminium and anodised in matt silver **AA**, fixing by screws and mounting frame **CW**. Manufacturer **MADEL**.

LMT-SW

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 (l/s) = Vfmed (m/s) * Afree (m2) * 1000
Q (m3/h) = Vfmed (m/s) * Afree (m2) * 3600

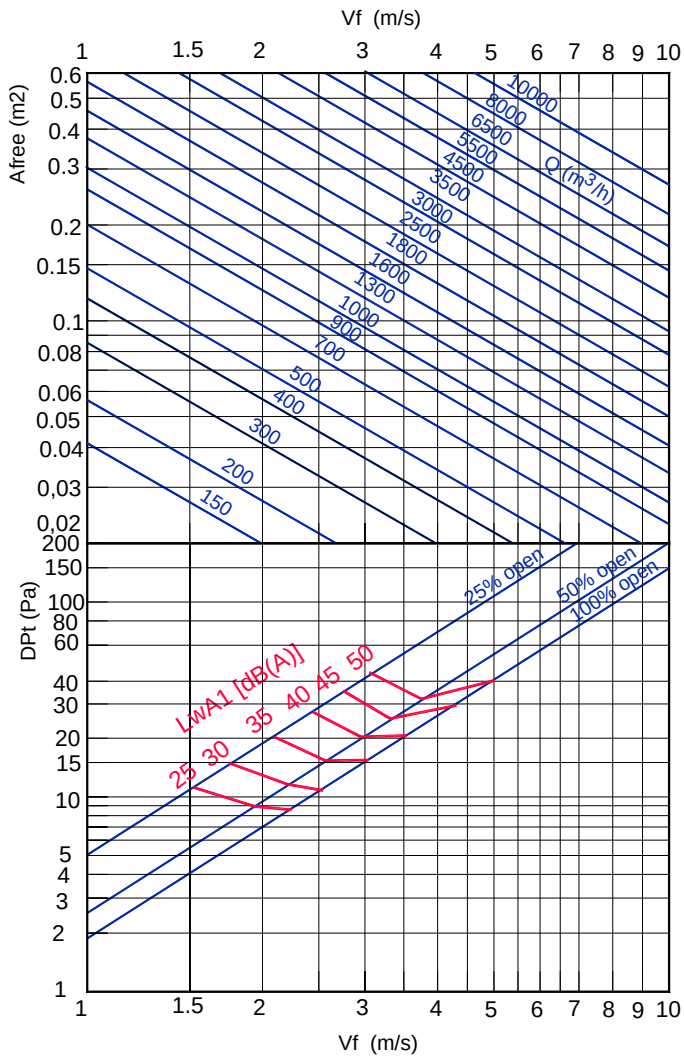
CORRECTION FACTOR FOR Lwa1.

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.

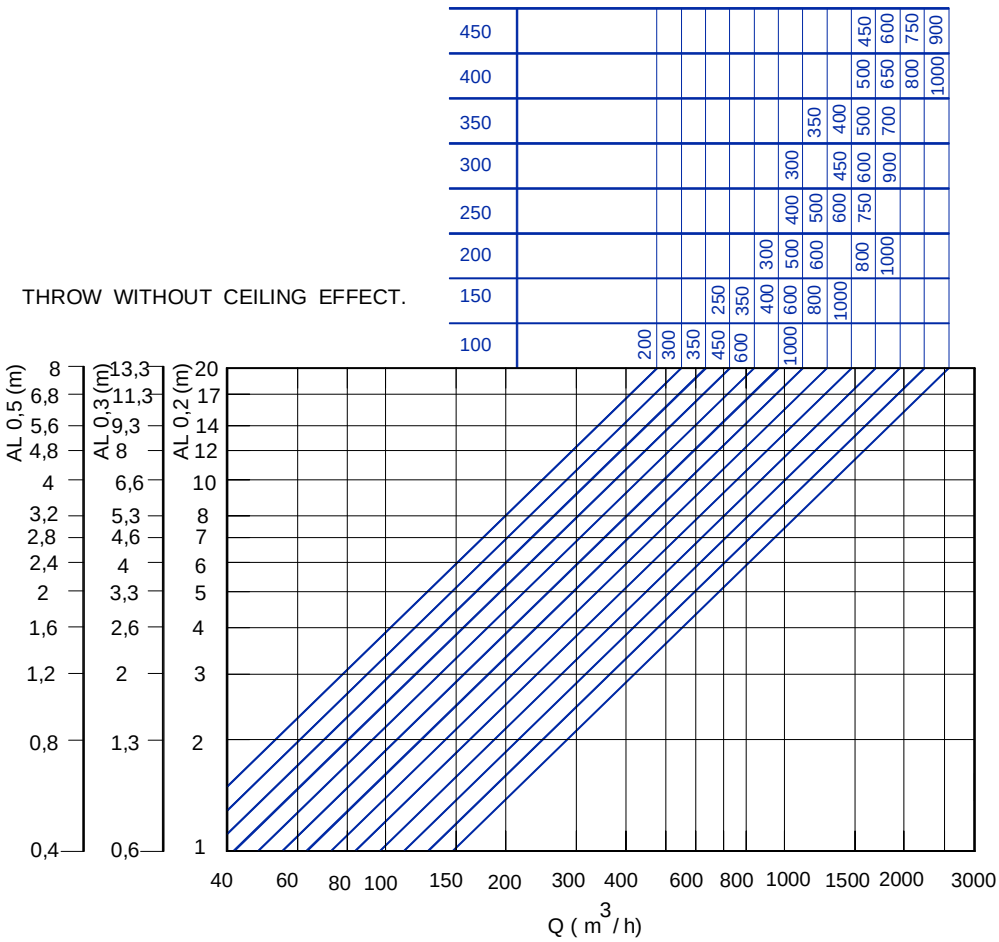
Lwa = Lwa1 + Kf

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



LMT-SW

THROW WITHOUT CEILING EFFECT.



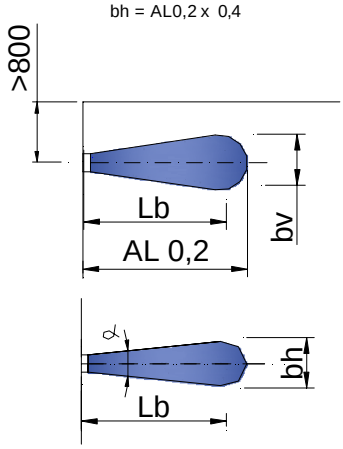
POSITION OF BLADES 0°
WITHOUT CEILING EFFECT.

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