

## LMT-MINI reduced frame linear grilles



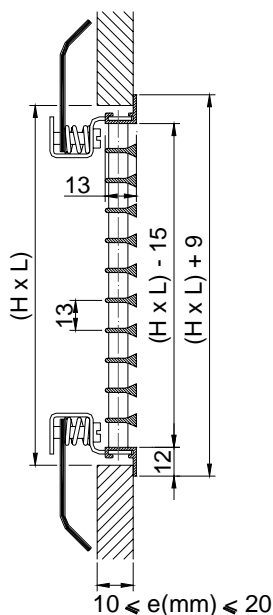
MADEL®

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

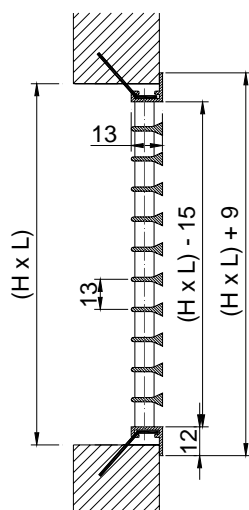
Reduced frame linear grilles at 12 mm. The distance between the blades and the thickness of them give great strength and an aesthetic appearance which makes them ideal for living rooms and locations where decorative factors are of prime importance.

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

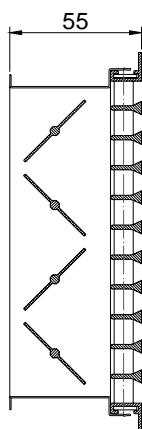
### LMT-MINI (O)



### LMT-MINI (P)



### LMT-MINI + SP



## CLASSIFICATION

**LMT-MINI** Grille with end borders and fixed bars at  $0^\circ$ . Suitable for lengths  $\leq 2$  m.

**...-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.

## MATERIAL

Extruded aluminium grille.

## ADDITIONAL 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.

## FIXING SYSTEMS

**(P)** Sidepieces to fix in place.

**(O)** Hidden screw.

## FINISHES

**AA** Matt silver anodised.

**M9016** Painted in white similar to RAL 9016.

**R9010** Painted in white RAL 9010.

**RAL...** Painted in other RAL.

## SPECIFICATION TEXT

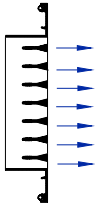
Supply and mounting of reduced frame linear grille at  $12$  mm with fixed bars at  $0^\circ$  parallels to the largest side serie **LMT-MINI+SP (P) AA dim. LxH**, constructed from aluminium and anodised in matt silver **AA** with opposed blades volume damper from electro-zinc steel in black colour **SP**, fixing by sidepieces **(P)**.

Manufacturer **MADEL**.

## LMT-MINI

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.

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

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

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.

