



MESHdesign Light Filigree Expanded Metal

Expanded metal offers numerous design options: diamond and square meshes are available in different sizes. The meshes of MESHdesign Light are especially filigree. Thus, it has an open appearance in combination with the frameless expanded metal ceiling LMD-St 215. Expanded metal is acoustically effective thanks to acoustic inlays on the rear side.

- almost unlimited diversity of structures, sizes and surfaces
- filigree expanded metal meshes for open appearance
- acoustically effective in combination with sound absorbing inlays



Technical data

Material	steel	
Coating	<u>COLOURline</u> , <u>MOODline</u>	
Definition/Dimensions	<p>As a rule, expanded metal is defined using four dimensions: Example: RM 28 x 10 x 1.5 x 1.0 a) mesh length: 28 mm b) mesh width: 10 mm c) strand width: 1.5 mm d) strand thickness: 1.0 mm</p> <p>Depending on the mesh dimension, expanded metal ceiling elements are available up to a width of 750 mm. The design and the stability of the ceiling construction are influenced by the shape and size of the mesh, the material and its thickness and also by the ceiling system itself. Thus, we recommend to check the project-specific feasibility and to make a sample of the mesh.</p>	
Viewing direction	Another important aesthetic criterion is the viewing direction. Depending on the angle of vision, the expanded metal appears either more or open or more closed.	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>open</p> </div> <div style="text-align: center;"> <p>closed</p> </div> </div>
Mesh arrangement	To maximise the stability and the deflection properties of expanded metal ceiling panels, the mesh arrangement type A should be chosen.	<p>type A</p>



Acoustics

Room acoustics

Room acoustics	Equipped with acoustic inlays, expanded metal ceilings achieve high sound absorption values. In case of expanded metal ceilings with open area exceeding 30%, the mineral wool inlay is decisive as expanded metal is then absolutely sound-permeable.
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Fire protection

Building material class

Building material class	DIN EN 13501-1	A2 - s1, d0
Building material class	ASTM E 84	Class A

Durability

Exposure class	DIN EN 13964	A
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Combinable with

Metal ceilings	<u>LMD-St 215</u>
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Surfaces

RM 12.7 x 6 x 1.5 x 1.0	<p>mesh type: diamond mesh open area: 50 % expanded metal thickness: approx. 3 mm mesh length: 12.7 mm mesh width: 6 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	
RM 16 x 8 x 1.5 x 1.0	<p>mesh type: diamond mesh open area: 62.5 % expanded metal thickness: approx. 3 mm mesh length: 16 mm mesh width: 8 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	
RM 20 x 8 x 1.5 x 1.0	<p>mesh type: diamond mesh open area: 62.5 % expanded metal thickness: approx. 3 mm mesh length: 20 mm mesh width: 8 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	
RM 20 x 10 x 1.5 x 1.0	<p>mesh type: diamond mesh open area: 70 % expanded metal thickness: approx. 3 mm mesh length: 20 mm mesh width: 10 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	



RM 28 x 10 x 1.5 x 1.0	<p>mesh type: diamond mesh open area: 70 % expanded metal thickness: approx. 3 mm mesh length: 28 mm mesh width: 10 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	
RM 28 x 12 x 1.5 x 1.0	<p>mesh type: diamond mesh open area: 75 % expanded metal thickness: approx. 3 mm mesh length: 28 mm mesh width: 12 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	
RM 30 x 12 x 1.5 x 1.0	<p>mesh type: diamond mesh open area: 75 % expanded metal thickness: approx. 3 mm mesh length: 30 mm mesh width: 12 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	
QM 16 x 11 x 1.5 x 1.0	<p>mesh type: square mesh open area: 73 % expanded metal thickness: approx. 3 mm mesh length: 16 mm mesh width: 11 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	
QM 20 x 15 x 1.5 x 1.0	<p>mesh type: square mesh open area: 80 % expanded metal thickness: approx. 3 mm mesh length: 20 mm mesh width: 15 mm strand width: 1.5 mm strand thickness: 1.0 mm</p>	

Project solutions

This product data sheet refers to the standard version of the product mentioned above. We would be happy to work with you to find the right solution for your project. Adapted to your building project, you will receive a perfectly matched system. Project-specific constructions and adaptations can be found in the offer documents.