



LMD-St 700 BWS

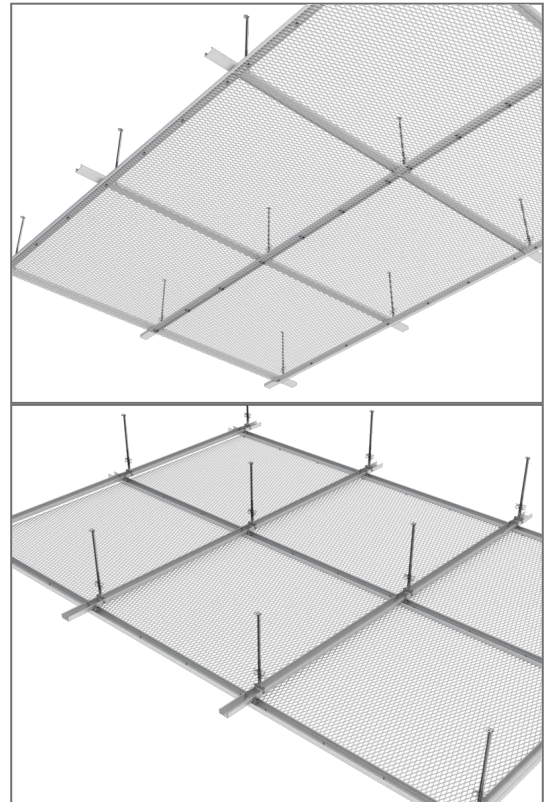
Expanded Metal Ceiling directly fixed, Ball-Impact Resistant

When installed, the system with tested ball-impact resistance creates an almost seamless appearance. The expanded metal is directly screwed to the suspension channels. A large number of expanded metal meshes is available and offers many design options. If a clear view into the ceiling void is required, meshes with high open areas are available. In this case, fixtures can also be installed in the ceiling void.

- expanded metal ceiling with tested ball-impact resistance inclusive integrated luminaire
- homogeneous ceiling surface due to concealed substructure
- many design possibilities thanks to different tested mesh types and sizes
- the possibility to see – to a greater or lesser extent – into the ceiling void depends on the mesh or the requirement
- installation of illumination or further fixtures in the ceiling void is possible in case of a high open area

Examples for areas of application

Businesses, Recreation and Culture: Sports Halls and Gymnasiums, Stadiums and arenas



TAIM

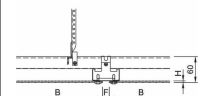
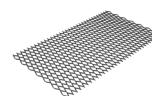


Ceiling elements

LMD-St 700 BWS Typ 1

diamond mesh 42 x 16 x 3.0 x 2.0

Length (L)	256 - 2976 mm
Width (B)	210 - 1470 mm
Height (H)	6 mm
Joint width (F)	10 mm

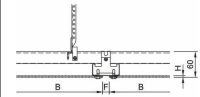
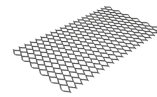


LMD-St 700 BWS Typ 2



diamond mesh 50 x 25 x 3.0 x 2.0

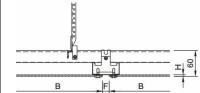
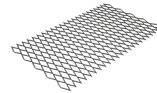
Length (L)	250 - 2975 mm
Width (B)	200 - 1450 mm
Height (H)	6 mm
Joint width (F)	10 mm



LMD-St 700 BWS Typ 3

diamond mesh 62 x 23 x 3.0 x 2.5

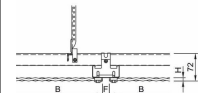
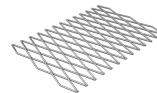
Length (L)	253 - 2990 mm
Width (B)	248 - 1488 mm
Height (H)	6 mm
Joint width (F)	10 mm



LMD-St 700 BWS Typ 4

diamond mesh 115 x 40 x 9.0 x 2.0

Length (L)	280 - 2960 mm
Width (B)	230 - 1380 mm
Height (H)	18 mm
Joint width (F)	10 mm



Technical details

Technical Details

Material	galvanised sheet steel
Serviceability	removable, depending on fastener
Possible wall connections	L-angle U-profile
Weight	10 - 12 kg/m ²

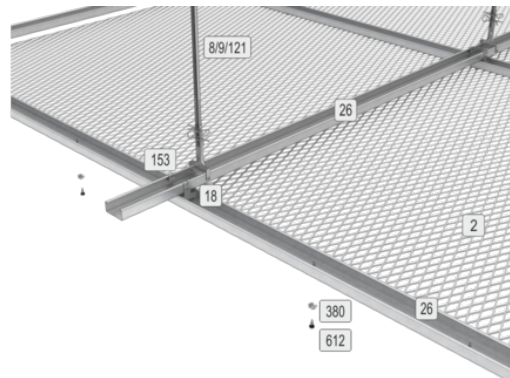
Notice: Weight without fixtures/installations

Component list

Bauteile



2	expanded metal ceiling panel
8/9/121	vernier suspension
18	self-tapping screw trapezoidal head
26	suspension channel 60
153	armature angle for suspension channel 60
380	safety clamp
612	drilling screw
1086	blind rivet nut truss head (optional for pos. 612)
1087	hexagonal head screw (optional for pos. 612)



Acoustics

Room acoustics

Sound absorber class	ISO 11654		E - A
Noise Reduction Coefficient	ASTM C 423	NRC	0.15 - 0.90
Evaluated Sound Absorption Coeff.	ISO 11654	α_w	0.15 - 1.00

Fire protection

Building material class

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

Static

Statics

Ball-impact resistance	EN 13964	1A 2A 3A
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Durability

Durability

Exposure class	EN 13964	A
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Sustainability

Declarations

EPD (Environmental Product Declaration)	The product has a verified EPD in compliance with the applicable standards. (ISO 14025/EN 15804)
Circular Economy	Cradle to Cradle Certified® Gold
French VOC Regulation	Emission class A+



Product Self-Declaration

A self-declaration in accordance with ISO 14021 is available. This contains extensive environmental information for planning, tenders and building certifications (LEED, DGNB, EU taxonomy).

Key figures

Recycled content	24.30 %
Indoor air measurement EN 16516 options	< 5 µg/m³
Formaldehyde emissions	< 3 µg/m³

Evidence

Indoor Air Comfort	Accomplished
Indoor Air Comfort Gold	Accomplished
AgBB	Accomplished
BREEAM International	Conform
LEED v4	Conform
DGNB	Conform

Green Level Certificate

Outstanding 

Circularity: All components can be reused/ refurbished

Life Cycle Assessment: EPD according to ISO 14025 and EN 15804

Cradle to Cradle Certified®: C2C Certified® Gold

Surfaces

Surfaces

Powder coatings	COLOURline - Powder Coating MOODline - Powder Coating Deep Matt
Expanded metal	MESHdesign - Standard Expanded Metal

Additional equipment

Additional equipment

Acoustic inlays	Acustica - Acoustic fabric inlay Calma - Glass yarn inlay in textile cover
Luminaires	SHL 298 - Luminaire for sports halls SYS 298 - Luminaire for sports halls
Inspection hatches	LMD-RK 20 - Inspection hatch expanded metal

Certification

Certificates



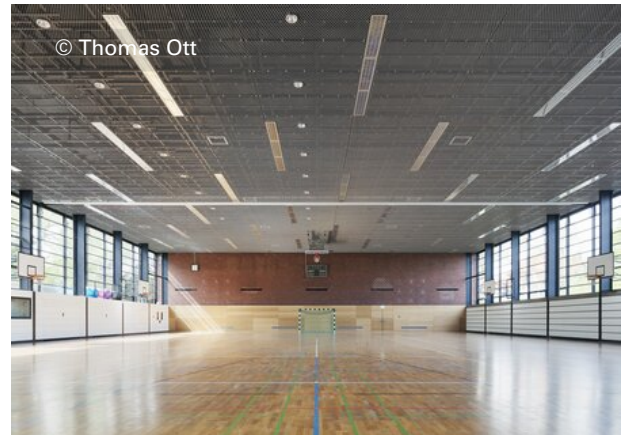
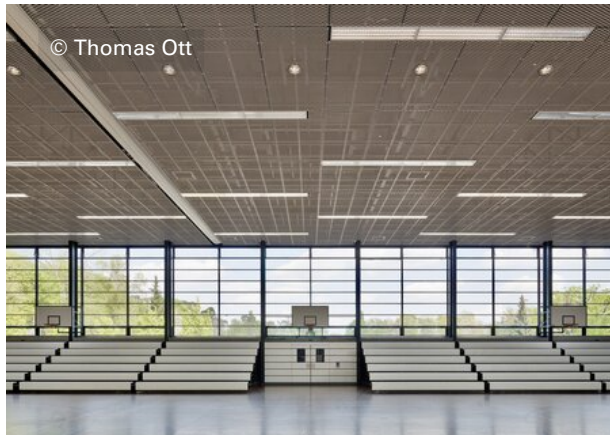
CE marking

The ceiling system is a harmonised construction product acc. to regulation (EU) No. 305/2011 (Construction Products Regulation) and EN 13964: Suspended ceilings - Requirements and test methods.

TAIM e.V.

The ceiling system fulfils the requirements of the "Technical Manual Metal Ceilings" (TMMC) of TAIM e.V. (Association of Industrial Metal Ceiling Manufacturers).

Applications



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.