



LMD-St 312

Hook-On Expanded Metal Ceiling, Free-Spanning

LMD-St 312 is a corridor ceiling with concealed shadow gap and maintenance-friendly ceiling panels. The freely spanned construction enables a good compensation of tolerances on the wall. It can also be combined with plasterboard friezes to incorporate niches and non-parallel corridor walls. Various mesh shapes and sizes offer versatile design options. Depending on the mesh, the ceiling void is more or less visible and can be used for installations in case of a high open area.

- homogeneous ceiling surface due to concealed substructure
- many design possibilities thanks to different mesh types, shapes 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
- freely spanned construction without additional centre suspension
- compensation of tolerances on the wall is possible due to an adjustable wall connection
- can be combined with plasterboard friezes to incorporate niches and non-parallel corridor walls
- easy maintenance option due to ceiling panels that can be individually operated, swung down and slid without tools

Examples for areas of application

Businesses, Recreation and Culture: Shopping Centres, Museums and Exhibitions, Places of Assembly, Banks, Sales Areas, Public Swimming Pools

Work: Assembly Rooms, Common Rooms, Facilities for Meetings, Conventions and Conferences, Office buildings

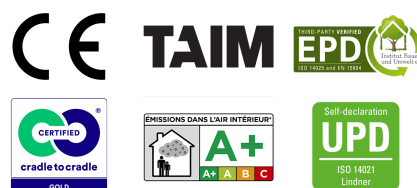
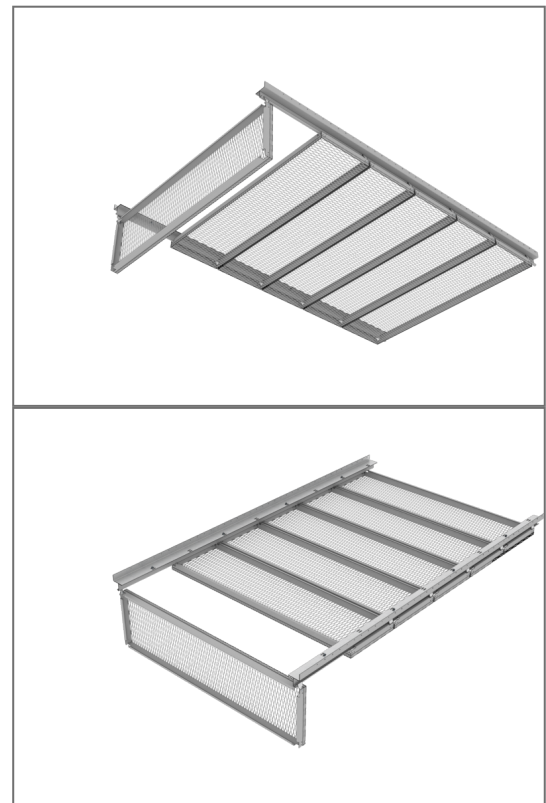
Public Institutions: Courts and prisons, Government and municipal buildings

Education: Library

Transport: Train Stations, Airports

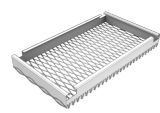
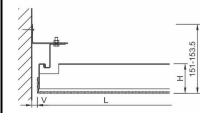
Public Areas: Entrance Areas

Hotels and Gastronomy: Hotels and Resorts




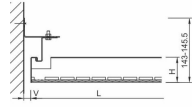
Ceiling elements

LMD-St 312 Typ 3


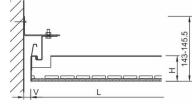
Hook-On, expanded metal turned up		 	
Length (L)	250 - 3000 mm		
Width (B)	200 - 1250 mm		
Height (H)	63.5 - 66 mm		
Adjustment range	10 - 20 mm		

LMD-St 312 Typ 4

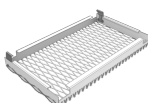
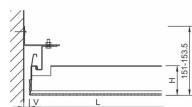


Hook-On, expanded metal bordered		 	
Length (L)	250 - 3000 mm		
Width (B)	200 - 1250 mm		
Height (H)	55.5 - 58 mm		
Adjustment range	10 - 25 mm		


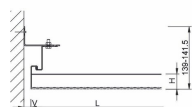
LMD-St 312 Typ 5

Hook-On/Swing-Down and slide option, expanded metal bordered		 	
Length (L)	250 - 3000 mm		
Width (B)	200 - 1250 mm		
Height (H)	55.5 - 58 mm		
Adjustment range	10 - 25 mm		


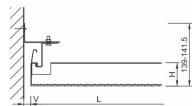
LMD-St 312 Typ 6

Hook-On/Swing-Down and slide option, expanded metal turned up		 	
Length (L)	250 - 3000 mm		
Width (B)	200 - 1250 mm		
Height (H)	63.5 - 66 mm		
Adjustment range	10 - 30 mm		

LMD-St 312 Typ 8

Hook-On, expanded metal placed on frame		 	
Length (L)	250 - 2000 mm		
Width (B)	200 - 625 mm		
Height (H)	33.5 - 36 mm		
Adjustment range	10 - 25 mm		

LMD-St 312 Typ 9

Hook-On/Swing-Down and slide option, expanded metal placed on frame		 	
Length (L)	250 - 2000 mm		
Width (B)	200 - 625 mm		
Height (H)	51.5 - 54 mm		
Adjustment range	10 - 25 mm		

Technical details

Technical Details

Material	galvanised sheet steel
Serviceability	swing-down and slide option without tools removable
Possible wall connections	L-angle hook-on profile



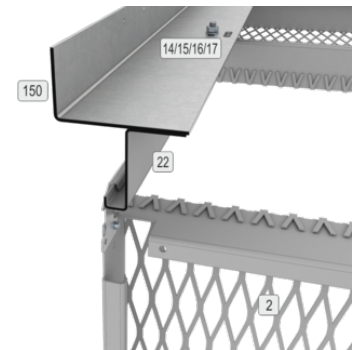
Weight | 14 - 16 kg/m²

Notice: Weight without fixtures/installations

Component list

Bauteile

2	expanded metal ceiling panel
14/15/16/17	screwing
22	Z-hook-on profile 54
150	L-wall profile 43x65



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

Seismic safety	Qualification according to AC 156/Eurocode/SIA 261
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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	<div>Outstanding </div> <p>Circularity: All components can be reused/ refurbished</p> <p>Life Cycle Assessment: EPD according to ISO 14025 and EN 15804</p> <p>Cradle to Cradle Certified®: C2C Certified® Gold</p>
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Surfaces

Surfaces

Powder coatings	COLOURline - Powder Coating MOODline - Powder Coating Deep Matt
Expanded metal	MESHdesign - Standard Expanded Metal MESHdesign Viva - 3D Expanded Metal
Functional coatings	Meteo - Corrosion Protection Coating

Additional equipment

Additional equipment

Acoustic inlays	Acustica - Acoustic fabric inlay Calma - Glass yarn inlay in textile cover
Luminaires	LK 73 - Light channel



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.