

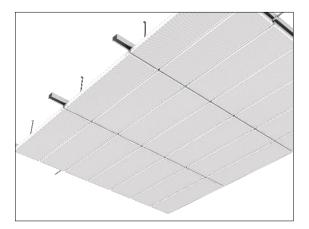


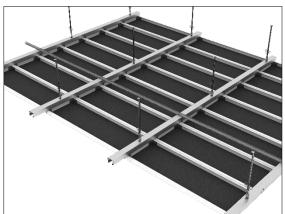
LMD-E 213 BWS

Hook-On ceiling, ball-impact resistant

This Hook-On ceiling is successfully tested for ball-impact resistance according to DIN EN 13964 annex D class 1A - 3A and is a safe choice for sports halls, swimming pools or similar. The system is visually characterised by accentuated joints in both directions along the ceiling panels and a concealed substructure. Different ceiling panels are available that can be removed or swung down and slid.

- · hook-on ceiling with tested ball-impact resistance
- homogeneous ceiling surface due to concealed substructure
- ceiling layout with accentuated joints in both directions possible
- maintenance option due to ceiling panels that can be individually operated, swung down and slid
- perforations with max. 3 mm diameter and max. 30 % open area
- hygienic and easy to clean





















Ceiling elements

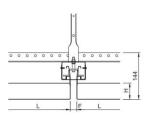
LMD-E 213 BWS	Type 1		
Hook-On, aluminium			ľ
Length (L)	500 - 1,230 mm		
Width (B)	200 - 1,230 mm		4
Height (H)	50 mm		
Joint width (F)	20, 25, 30 mm		
LMD-E 213 BWS	Type 2		
Hook-On, Swing	-Down and slide option, aluminium		
Length (L)	500 - 1,230 mm		
Width (B)	200 - 1,230 mm		4
Height (H)	50 mm		
Joint width (F)	20, 25, 30 mm		
LMD-E 213 BWS	Type 3		
Hook-On, alumir	nium/steel		
Length (L)	500 - 2,500 mm		
Width (B)	200 - 500 mm		
Height (H)	50 mm		
Joint width (F)	20, 25, 30 mm		
LMD-E 213 BWS	Type 4		
Hook-On, Swing	-Down and slide option, aluminium/steel		
Length (L)	500 - 2,500 mm		
Width (B)	200 - 500 mm		T E T T T T T T T T
Height (H)	50 mm	_	
Joint width (F)	20, 25, 30 mm		
LMD-E 213 BWS	Type 5		
Hook-On, steel			ľ
Length (L)	500 - 3,000 mm		
Width (B)	200 - 800 mm		4
Height (H)	50 mm		
Joint width (F)	20, 25, 30 mm		





LMD-E 213 BWS Type 6		
Hook-On, Swing-Down and slide option, steel		
Length (L)	500 - 3,000 mm	
Width (B)	200 - 800 mm	
Height (H)	50 mm	
Joint width (F)	20, 25, 30 mm	



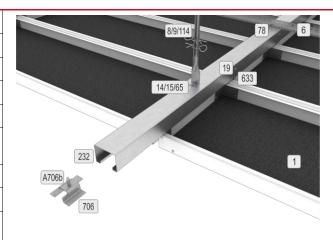


Technical data

Material	galvanised sheet steel
Weight	approx. 10 - 12 kg/m² (without fixtures/installations)
Serviceability	swing-down and slide option or removable
Wall connection options	U-profile

Component list

1	ceiling panel
6	L-profile 28
8/9/114	vernier suspension
14/15/65	screwing
19	self-drilling screw fillister head
78	self-drilling screw hexagon head with flange
232	double hook-on profile 54/BWS
633	spacer for double hook-on profile 54/BWS
706	hold-down clip for double hook-on profile 54/BWS
A706b	set screw with hexagon socket



Acoustics

Room acoustics			
Rated sound absorption coefficient	DIN EN ISO 11654	α_{w}	0.15 - 1.00
Sound absorber class	DIN EN ISO 11654		E - A
Noise Reduction Coefficient	ASTM C 423	NRC	0.15 - 0.95





Fire protection

Building material class		
Building material class (COLOURline A1)	DIN EN 13501-1	A1
Building material class (COLOURline)	DIN EN 13501-1	A2 - s1, d0
Building material class	ASTM E 84	Class A
Fire stability		
Fire stability	EN 13501-2	30 minutes

Durability

Exposure class	DIN EN 13964	A
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Sustainability

Product self-declaration	Self-declaration according to ISO 14021
Environmental product declaration	EPD according to EN 15804 / ISO 14025
Circular Economy	Cradle to Cradle Certified® Gold
French VOC Regulation	Emission class A+

Statics

Ball-Impact Resistance		
Ball-Impact Resistance LMD-E 213 BWS Type 1, aluminium	DIN EN 13964	class 1A
Ball-Impact Resistance LMD-E 213 BWS Type 2, aluminium	DIN EN 13964	class 1A
Ball-Impact Resistance LMD-E 213 BWS Type 3, aluminium	DIN EN 13964	class 2A
Ball-Impact Resistance LMD-E 213 BWS Type 3, steel	DIN EN 13964	class 1A
Ball-Impact Resistance LMD-E 213 BWS Type 4, aluminium	DIN EN 13964	class 2A
Ball-Impact Resistance LMD-E 213 BWS Type 4, steel	DIN EN 13964	class 1A
Ball-Impact Resistance LMD-E 213 BWS Type 5, steel	DIN EN 13964	class 3A
Ball-Impact Resistance LMD-E 213 BWS Type 6, steel	DIN EN 13964	class 3A
Seismic Safety		
Seismic Safety	qualification according to AC 156/Eu	urocode/SIA 261

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	ation

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).

Surfaces

Powder coatings	COLOURline - Powder coating COLOURline A1 - Powder coating non-combustible MOODline - Powder coating, deep matt ARTline - Decorative powder coating GRAPHICline - Digital print
Perforation	BASICline - Standard perforations REGULARline - Further perforations SPREADline - Scattered perforations
Functional coatings	Meteo - Corrosion protection coating

Additional equipment

Acoustic inlays	Acustica - Acoustic fabric inlay Insula - Mineral wool inlay in acoustic foil Calma - Glass yarn inlay in textile cover
Luminaires	SHL 298 - Recessed/Surface-Mounted Luminaire for sports halls SYS 298 - Recessed/Surface-Mounted Luminaire for sports halls

Application examples



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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.



