



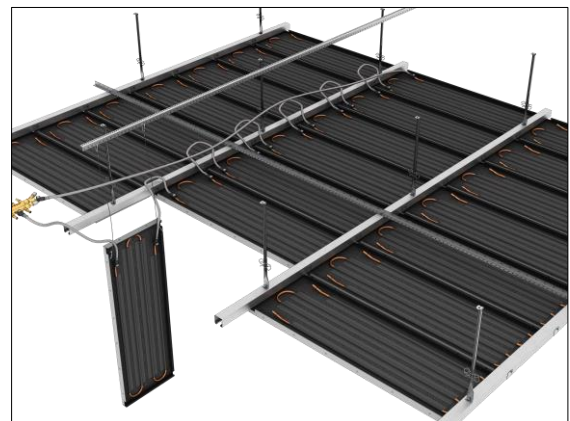
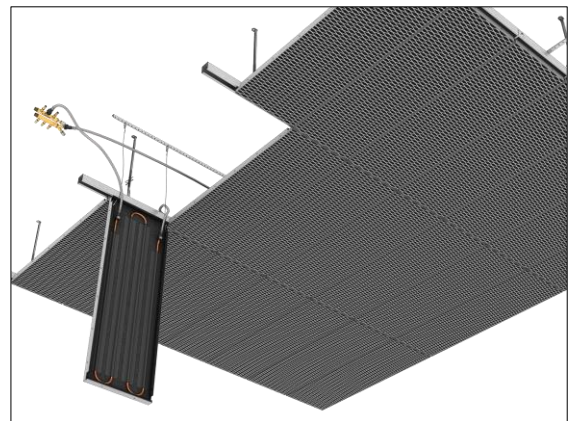
Plafotherm® St 213

Heated and Chilled Expanded Metal Ceiling with accentuated joints

Product description

For maintenance works in the ceiling void, the Hook-On ceiling panels of this expanded metal ceiling can be removed without the need for any tools. Accentuated joints create a homogeneous ceiling surface. Thanks to integrated heating/cooling technologies, an ideal room climate is achieved – a combination of thermally active and passive areas is possible. A multitude of different meshes offers versatile design options.

- heating/cooling by means of radiation creates a pleasant room climate
- flexibility thanks to the combination of thermally active and passive areas
- homogeneous ceiling surface due to concealed substructure
- ceiling layout with accentuated joints in both directions possible
- many design possibilities thanks to different mesh types, shapes and sizes
- easy maintenance option due to ceiling panels that can be individually operated without tools



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.




Ceiling elements

Plafotherm® St 213 type 12		 
Hook-On, expanded metal placed on frame		
Length (L)	500 - 2,500 mm	
Width (B)	200 - 625 mm	
Height (H)	40 - 44 mm	
Joint width (F)	10, 15, 20, 25, 30 mm	

Technical data

Material ceiling panel	galvanised sheet steel
Weight	approx. 21 - 23 kg/m ² (without fixtures/installations)
Serviceability	removable without tools
Wall connection options	L-angle, shadow gap trim, open wall connection

Component list

2	expanded metal 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	
437	heating and cooling coil	
479	PlafoTube® connecting/connection hose	
534	spacer for double hook-on profile 54	
592	double hook-on profile 54	

Acoustics

Room acoustics

Rated sound absorption coefficient	DIN EN ISO 11654	α_w	0.45 (LM) - 0.50 (L)
Sound absorption class	DIN EN ISO 11654		D
Noise Reduction Coefficient	ASTM C 423	NRC	0.60 - 0.65

Fire protection

Building material class

Building material class	DIN EN 13501-1	A2 - s1, d0
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Durability

Exposure class	DIN EN 13964	A
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HVAC

Heating and cooling

Heating and cooling technology	Plafotherm® Cu	Plafotherm® Cu circumferential 150 mm open joint
Nominal cooling capacity (10 K) according to EN 14240 in relation to the active area	96.6 W/m ²	117 W/m ²
Nominal heating capacity (15 K) according to EN 14037:2003 in relation to the active area	122 W/m ²	129 W/m ²

Sustainability

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

Surfaces

Powder coatings	<u>COLOURline – Powder coating</u> <u>MOODline – Powder coating, deep matt</u>
Expanded metal	<u>MESHdesign – Standard expanded metal</u>

Certification

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).

Additional equipment

Acoustic inlays	<u>Acustica – Acoustic fabric inlay</u> <u>Insula – Mineral wool inlay in acoustic foil</u>
Ventilation components	<u>AirBox S – Supply air elements</u> <u>AirBox E – Exhaust air elements</u>
Hydraulic components	<u>PlafoTube® MQC – Connecting/Connection hose with MultiQuickConnect</u> <u>Fittings – Distribution system</u>
Luminaires	Lindner luminaires and luminaires from other manufacturers possible <u>LK 73 – Light channel</u>



Applications

