



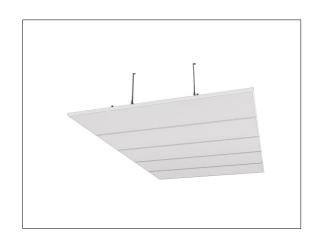
Plafotherm® DS 312

Heated and Chilled Canopy Ceiling without frame

Product description

The frameless metal canopy ceiling can freely be arranged in your rooms and offers individual design options. Thanks to the open construction, it can easily be installed and impresses with high heating/cooling capacities and sound absorption. This canopy ceiling combines pleasant room climate with impressive acoustics. The ceiling panels can be removed without the need for any tools. With this economic canopy, you can flexibly combine thermally active and passive areas. The exposed concrete between the canopy ceilings can be used for installations.

- heating/cooling by means of radiation and convection creates a pleasant room climate
- flexibility thanks to the combination of thermally active and passive areas
- high heating/cooling capacity and sound absorption due to the open construction
- design freedom thanks to an individual arrangement of canopies and an exposed concrete
- slim, filigree look without circumferential frame
- easy maintenance option due to ceiling panels that can be individually operated without tools
- independent installation of luminaires and fixtures possible between canopy ceilings
- · easy and quick installation
- cost-effective canopy ceiling as economic solution
- · hygienic and easy to clean















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.





Table of types

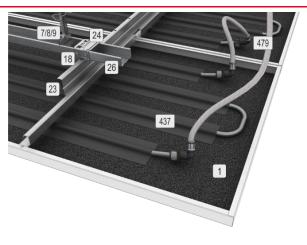
Plafotherm [®] DS 312	type 1		
Hook-On			in the state of th
Length (L)	1,000 - 2,000 mm		100
Width (B)	200 - 1,250 mm		L/SL I
Height (H)	30 mm		
Canopy length (SL)	depending on requirements		
Canopy width (SB)	1,000 - 2,000 mm		
Plafotherm [®] DS 312	type 2		
Hook-On			Генера
Length (L)	1,000 - 3,000 mm		100000000000000000000000000000000000000
Width (B)	200 - 1,250 mm		
Height (H)	50 mm		<u> </u>
Canopy length (SL)	depending on requirements		L/SL
Canopy width (SB)	1,000 - 3,000 mm		

Technical properties

Material ceiling panel	galvanised sheet steel
System weight	approx. 12 - 15 kg/m² (without fixtures/installations)
Serviceability	removable without tools

Component list

1	metal ceiling panel
7/8/9	vernier suspension
18	self-tapping screw trapezoidal head
23	Z-hook-on profile 48
24	cross connector for suspension channel 60 to Z-hook-on profile 48
26	suspension channel 60
437	heating and cooling coil
479	PlafoTube® connecting/connection hose



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Acoustics

Room acoustics			
Equivalent sound absorption area per canopy	EN ISO 354		
Rated sound absorption coefficient	DIN EN ISO 354	α _w	up to 1.00
Sound absorption class	DIN EN ISO 11654		up to A
Noise Reduction Coefficient	ASTM C 423	NRC	up to 0.95
Notice	The evaluation of α _w and and therefore is only an		carried out in dependence

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	Α
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HVAC

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3				
Heating and cooling technology	Plafotherm [®] V2A	Plafotherm [®] Cu	Plafotherm® Cu Acoustic	Plafotherm [®] Activation Board
Nominal cooling capacity (10 K) according to EN 14240 in relation to the active area	135 W/m²	139 W/m²	127 W/m²	162 W/m²
Nominal heating capacity (15 K) according to EN 14037:2003 in relation to the active area	163 W/m²	167 W/m²	155 W/m²	199 W/m²

Sustainability

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Product self-declaration	A self-declaration according to ISO 14021 is available. The self-declaration provides extensive information about all environmental effects of the product. It can be used in the planning or tender phase to assess all sustainability-relevant aspects. It serves as a data basis for building certification systems such as LEED, DGNB and BREEAM
EPD (environmental product declaration)	The product has a specific EPD according to the valid standards. (EN 15804/ ISO 14025)
Circular Economy	The product is Cradle to Cradle Certified [®] Silver. By implementing the Circular Economy ideology we avoid waste, toxic substances and environmental pollution. The aim is to achieve a technical cycle, which ensures the separation and the complete re-use of all materials.





Surfaces

Powder coatings	COLOURline – Powder coating MOODline – Powder coating, deep matt ARTline – Decorative powder coating GRAPHICline – Digital print
Perforations	BASICline – Standard perforations REGULARline – Further perforations SPREADline – Customised perforations

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	Acustica – Acoustic fabric inlay Insula – Mineral wool inlay in acoustic foil
Hydraulic components	PlafoTube® MQC – Connecting/Connection hose with MultiQuickConnect Fittings – Distribution system
Luminaires	Lindner luminaires and luminaires from other manufacturers possible IS 17 – Integrated Luminaire for general areas IS 22 – Integrated Luminaire for monitor work stations QZI – Integrated luminaire with cell louvres

Applications



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