



Plafotherm® B 100

Linear Heated and Chilled Post Cap Ceiling

This cost-effective system with visible linear post caps comfortably heats and cools your room by means of radiation. This chilled ceiling system with low construction height can be adapted to building shapes and combined with thermally passive components. Partitions can be fastened to linear post cap – thus, flexible room layouts are possible. The post cap can also be used for the integration of installations. For maintenance works in the ceiling void, each ceiling panel can be removed or swung down.

- heating/cooling by means of radiation creates a pleasant room climate
- flexibility thanks to the combination of thermally active and passive areas
- visible linear post caps as design elements
- individual room layout thanks to the possibility to fasten partitions to post caps
- post caps can be used for technical installations or luminaires
- space-saving ceiling system with low construction height
- round, curved building shapes can be realised thanks to radially installed post caps and trapezoidal ceiling panels
- easy maintenance option due to ceiling panels that can be individually operated, swung down and slid
- cost-effective chilled ceiling system as economic solution
- hygienic and easy to clean

Examples for areas of application

Work: Facilities for Meetings, Conventions and Conferences, Office buildings, Common Rooms, Stage and Studio Rooms, Broadcasting Rooms, Television Studios

Education: School of Higher Education, Schools, Research Rooms

Public Institutions: Court Houses, Government Buildings, Court Houses, Government Buildings

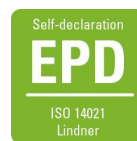
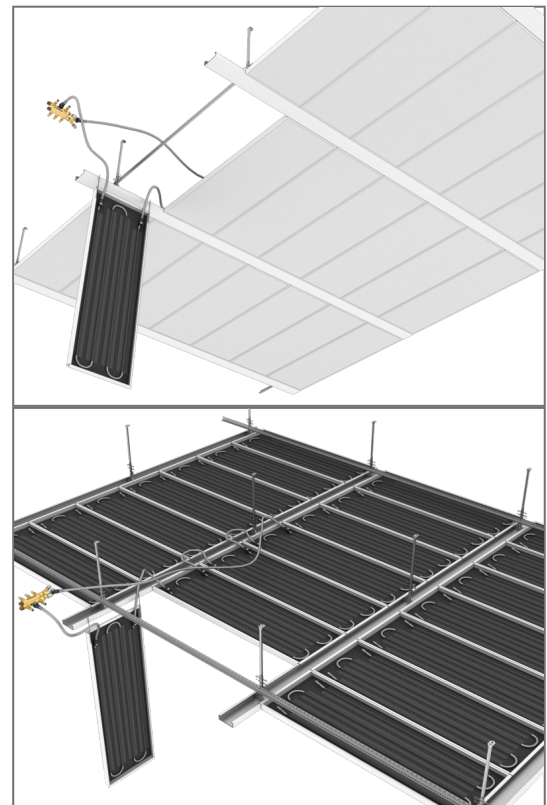
Transport: Train Stations, Airports

Hotels and Gastronomy: Restaurants and Canteens, Hotels and Resorts

Public Areas: Entrance Areas

Industry: Production Facilities

Businesses, Recreation and Culture: Banks, Cinemas and Theatres, Stadiums, Places of Assembly



Ceiling elements

Plafotherm® B 100 Typ 2

Lay-In with Hook-On edge

Length (L)	500 - 3000 mm
Width (B)	200 - 1250 mm
Height	30 mm, 50 mm
Joint width (F)	Butt joint, 1 mm, 3 mm, 5 mm



Plafotherm® B 100 Typ 3

Lay-In with Hook-On notch

Length (L)	500 - 3000 mm
Width (B)	200 - 1250 mm
Height	30 mm, 50 mm
Joint width (F)	3 mm

Plafotherm® B 100 Typ 6

Lay-In, Swing-Down and slide option on short side

Length (L)	500 - 2000 mm 2001 - 3000 mm
Width (B)	200 - 1250 mm 200 - 850 mm
Height (H)	30 mm 50 mm
Joint width (F)	3 mm

Technical details

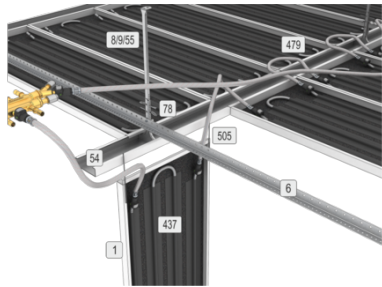
Technical data

Material	galvanised sheet steel (ceiling element)
Serviceability	swing-down and slide option removable without tools
Possible wall connections	L-angle shadow gap trim open wall connection
Weight	14 - 16 kg/m ²

Notice: Weight without fixtures/installations

Component list

Bauteile

1	metal ceiling panel	
6	L-profile 28	
8/9/55	vernier suspension	
54	C-post cap profile	
78	self-drilling screw hexagon head	
437	heating and cooling coil	



479	PlafoTube® connecting/ connection hose
505	fit-up aid

Acoustics

Room acoustics

Sound absorber class	ISO 11654		D - B
Noise Reduction Coefficient	ASTM C 423	NRC	0.60 - 0.80
Evaluated Sound Absorption Coeff.	ISO 11654	α_w	0.45 - 0.80

Fire protection

Building material class

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

Fire stability

Fire stability	NBN 713.020	45 minutes
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HVAC

Heizen und Kühlen

Heating and cooling technology		Plafotherm® V2A Plafotherm® Cu Plafotherm® Cu Acoustic
Nominal Cooling Capacity (10 K) in relation to the active area	DIN EN 14240	109 W/m ² 112 W/m ² 102 W/m ²
Nominal Heating Capacity (15 K) in relation to the active area	DIN EN 14037:2003	123 W/m ² 126 W/m ² 118 W/m ²

Durability

Durability

Exposure class	DIN EN 13964	A
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Sustainability

Declarations




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).
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® Silver
French VOC Regulation	Emission class A+

Key figures

Recycled content	46.80 %
Indoor air measurement EN 16516 options	< 5 µg/m ³
Emission of formaldehyde	9.50 µg/m ³

Evidence

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

Green Level Certificate	<div style="background-color: #4CAF50; color: white; padding: 5px; display: inline-block; border-radius: 10px;"> Outstanding  </div> Circularity: All components can be reused/ refurbished Life Cycle Assessment: EPD according to ISO 14025 and EN 15804 Cradle to Cradle Certified®: C2C Certified® Silver
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Surfaces

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



Additional equipment

Additional equipment

<p>Longitudinal sound reduction</p>	<p>System with tested longitudinal sound reduction is available: Plafotherm® B 100 SD - Linear Heated and Chilled Post Cap Ceiling, Longitudinally Sound-Reduced</p>
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Certification

Certificates

<p>CE marking</p>	<p>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.</p>
<p>TAIM e.V.</p>	<p>The ceiling system fulfils the requirements of the "Technical Manual Metal Ceilings" (TMMC) of TAIM e.V. (Association of Industrial Metal Ceiling Manufacturers).</p>

Applications

Anwendungsbeispiele



