



LMD-DS 320

Metal Canopy Ceiling in Filigree Optics

The ceiling panels of the metal canopy ceiling LMD-DS 320 can be operated without tools. The optionally angled edges and the variable arrangement as single module provide for filigree optics. The large-sized ceiling panels allow a view to the exposed concrete. Moreover, this cost-effective ceiling system impresses with an easy and quick installation. Fixtures can independently be installed between the metal canopy ceilings.

- design freedom thanks to an individual arrangement of canopies and an exposed concrete
- flexible room planings are possible
- large-sized ceiling panels optionally with 90° or 65° turn-up
- 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

Examples for areas of application

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

Businesses, Recreation and Culture: Museums and Exhibitions, Shopping Centres, Sales Areas, Banks, Cinema and multiplex cinemas, Stadiums and arenas, Places of Assembly

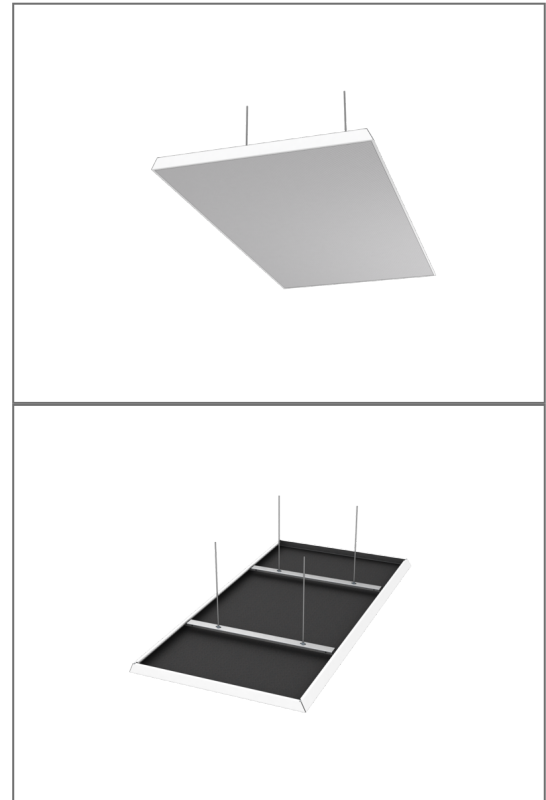
Transport: Train Stations, Airports

Public Areas: Entrance Areas

Hotels and Gastronomy: Hotels and Resorts

Education: Library, Higher education institutions and universities, Schools

Public Institutions: Courts and prisons, Government and municipal buildings



TAIM

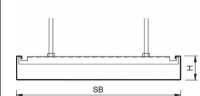


Ceiling elements

LMD-DS 320 Typ 1

90° turn-up as individual, border or central panel

Length (L)	500 - 3000 mm
Width (B)	400 - 1250 mm
Height (H)	50 mm
Canopy length (SL)	variable
Canopy width (SB)	400 - 1250 mm

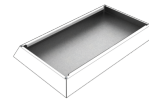




LMD-DS 320 Typ 2

65° turn-up as individual panel

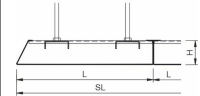
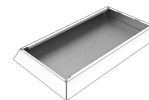
Length (L)	500 - 3000 mm
Width (B)	400 - 1250 mm
Height (H)	50 mm
Canopy length (SL)	variable
Canopy width (SB)	400 - 1250 mm



LMD-DS 320 Typ 3

65° turn-up as border panel for extension on short side

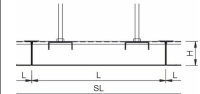
Length (L)	500 - 3000 mm
Width (B)	400 - 1250 mm
Height (H)	50 mm
Canopy length (SL)	variable
Canopy width (SB)	400 - 1250 mm



LMD-DS 320 Typ 4

65° turn-up as central panel for extension on short side

Length (L)	500 - 3000 mm
Width (B)	400 - 1250 mm
Height (H)	50 mm
Canopy length (SL)	variable
Canopy width (SB)	400 - 1250 mm



Technical details

Technical Details

Material	galvanised sheet steel
Serviceability	removable without tools
Weight	10 - 12 kg/m ²

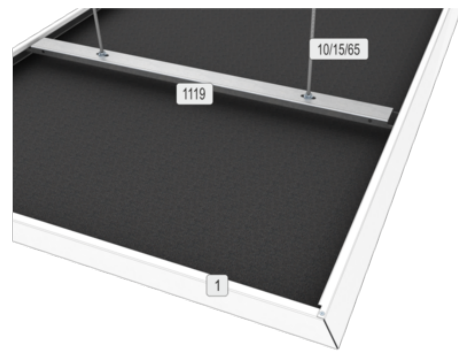
Notice: Weight without fixtures/installations

Component list

Bauteile



1	ceiling panel
10/15/65	threaded rod suspension
1119	hook-on profile 16/320



Acoustics

Room acoustics

Sound absorber class	ISO 11654		E - A
Noise Reduction Coefficient	ASTM C 423	NRC	0.15 - 1.25
Evaluated Sound Absorption Coeff.	ISO 11654	α_w	0.15 - 1.00

Notice: The acoustics of canopy ceilings are rated using the equivalent sound absorption area in accordance with DIN EN ISO 354.

The evaluation of α_w and NRC can only be carried out in dependence and therefore is only an orientation value.

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	24.60 %
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

Outstanding



Circularity: All components can be reused/ refurbished

Life Cycle Assessment: EPD according to ISO 14025 and EN 15804

Cradle to Cradle Certified®: C2C Certified® Gold

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 SPREADline - Scattered Perforations
Design surfaces	TOUCHdesign Lunar - 3D Hammered

Additional equipment

Additional equipment

Acoustic inlays	Acustica - Acoustic fabric inlay Insula - Mineral wool inlay in acoustic foil Calma - Glass yarn inlay in textile cover
Ventilation components	AirBox E - Exhaust air elements AirBox S - Supply air elements
Luminaires	IS 17 - Integrated luminaire for general areas IS 22 - Integrated luminaire for monitor workstations



QZI - Recessed luminaire for metal ceilings

Heating and cooling function

System with integrated heating and cooling technology available:
[Plafotherm® DS 320 - Heated and Chilled Canopy Ceiling in Filigree Optics](#)

Certification

Certificates

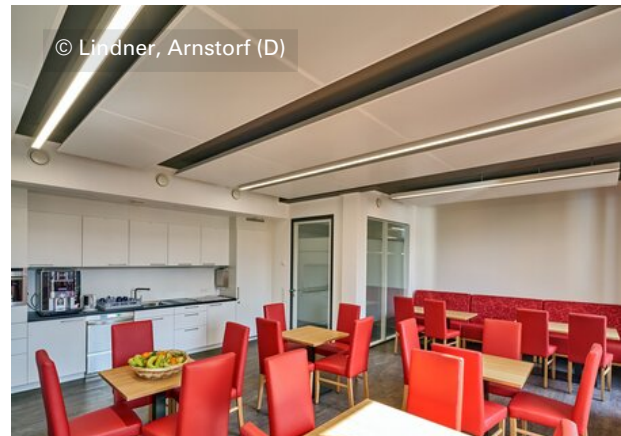
CE marking

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.