

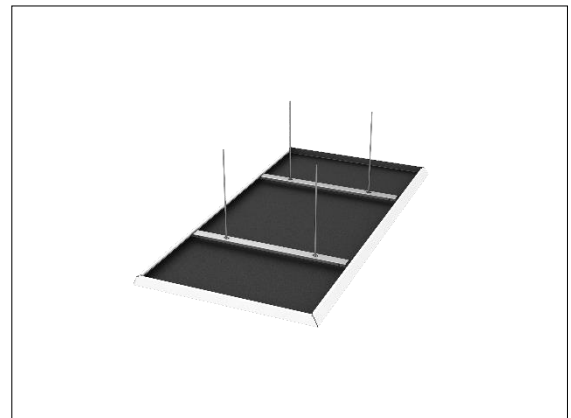
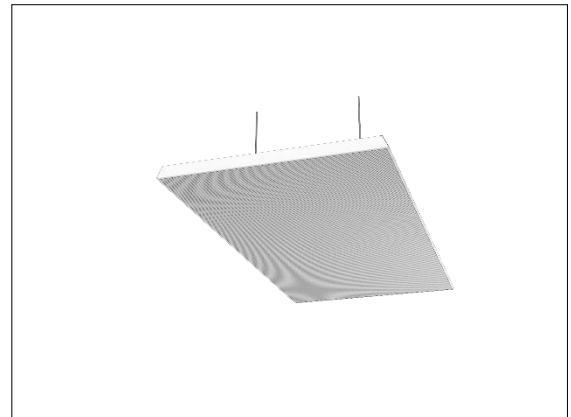


LMD-DS 320

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 plannings 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





Ceiling elements

LMD-DS 320 Type 1

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

| | |
|--------------------|----------------|
| Length (L) | 500 - 3,000 mm |
| Width (B) | 400 - 1,250 mm |
| Height (H) | 50 mm |
| Canopy length (SL) | variable |
| Canopy width (SB) | 400 - 1,250 mm |



LMD-DS 320 Type 2

65° turn-up as individual panel

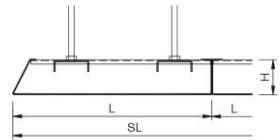
| | |
|--------------------|----------------|
| Length (L) | 500 - 3,000 mm |
| Width (B) | 400 - 1,250 mm |
| Height (H) | 50 mm |
| Canopy length (SL) | variable |
| Canopy width (SB) | 400 - 1,250 mm |



LMD-DS 320 Type 3

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

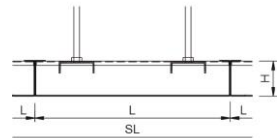
| | |
|--------------------|----------------|
| Length (L) | 500 - 3,000 mm |
| Width (B) | 400 - 1,250 mm |
| Height (H) | 50 mm |
| Canopy length (SL) | variable |
| Canopy width (SB) | 400 - 1,250 mm |



LMD-DS 320 Type 4

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

| | |
|--------------------|----------------|
| Length (L) | 500 - 3,000 mm |
| Width (B) | 400 - 1,250 mm |
| Height (H) | 50 mm |
| Canopy length (SL) | variable |
| Canopy width (SB) | 400 - 1,250 mm |



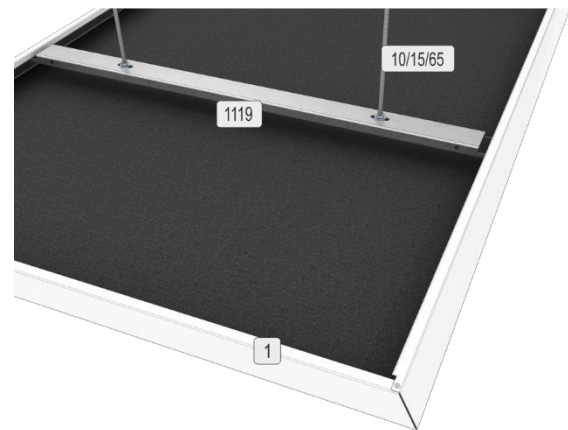


Technical data

| | |
|----------------|--|
| Material | galvanised sheet steel |
| Weight | approx. 10 - 12 kg/m ² (without fixtures/installations) |
| Serviceability | removable without tools |

Component list

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



Acoustics

Room acoustics

| | | | |
|---|--|------------|-------------|
| Equivalent sound absorption area per canopy | DIN EN ISO 354 | | |
| Rated sound absorption coefficient | DIN EN ISO 11654 | α_w | 0.15 - 1.00 |
| Sound absorption class | DIN EN ISO 11654 | | E - A |
| Noise Reduction Coefficient | ASTM C 423 | NRC | 0.15 - 1.25 |
| Notice | 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 | DIN EN 13501-1 | A2 - s1, d0 |
| Building material class | ASTM E 84 | Class A |

Durability

| | | |
|----------------|--------------|---|
| Exposure class | DIN EN 13964 | A |
|----------------|--------------|---|



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

| | |
|----------------|--|
| Seismic safety | qualification according to AC 156/Eurocode/SIA 261 |
|----------------|--|

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). |

Surfaces

| | |
|-----------------|---|
| Powder coatings | <u>COLOURline - Powder coating</u> <u>MOODline - Powder coating, deep matt</u> <u>ARTline - Decorative powder coating</u> <u>GRAPHICline - Digital print</u> |
| Perforation | <u>BASICline - Standard perforations</u> <u>REGULARline - Further perforations</u> <u>SPREADline - Scattered perforations</u> |
| Design surfaces | <u>TOUCHdesign Lunar – 3D hammered</u> <u>TOUCHdesign Paper – 3D crease embossing</u> <u>TOUCHdesign Crystal – 3D crystal embossing</u> <u>TOUCHdesign Pixel – 3D square embossing</u> |

Additional equipment

| | |
|------------------------------|---|
| Acoustic inlays | <u>Acustica - Acoustic fabric inlay</u> <u>Insula - Mineral wool inlay in acoustic foil</u> <u>Calma - Glass yarn inlay in textile cover</u> |
| Ventilation components | <u>AirBox S - Supply air elements</u> <u>AirBox E - Exhaust air elements</u> |
| Luminaires | <u>IS 17 - Integrated luminaire for general areas</u> <u>IS 22 - Integrated luminaire for monitor work stations</u> <u>QZI - Integrated luminaire with cell louvres</u> |
| Heating and cooling function | System with integrated heating and cooling technology is available: <u>Plafotherm® DS 320</u> |



Application examples



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.