

## Product image

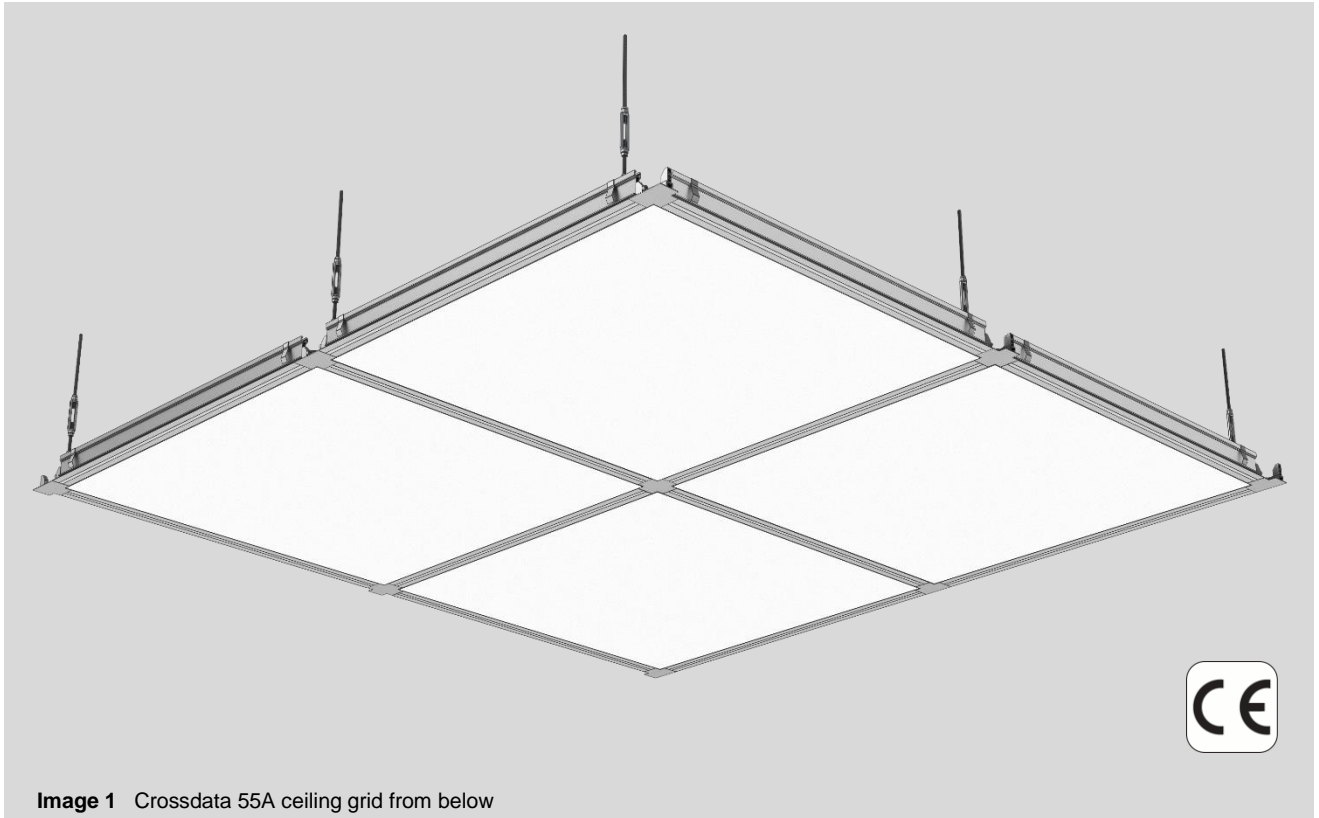


Image 1 Crossdata 55A ceiling grid from below

## Fields of application

- Data centers
- Microelectronics and semiconductor industries
- Microsystems technologies, precision engineering
- Surface treatment technologies



- Easy to clean
- Good resistance against numerous detergents and disinfectants from the VAH-List (Verband für Angewandte Hygiene)



Walkable version available

## Lindner quality-standards

Lindner metal ceilings are produced in accordance with the highest international standards. Lindner ceiling systems comply with EN 13964 and EN 1090 Part 2 and Part 3, quality standard according to the technical regulations of TAIM (Verband Industrieller Metalldeckenhersteller TAIM e.V.).

### Technical data

	Non walkable	Walkable
<b>Standard ceiling grid <sup>1)</sup></b>	1200 x 1200 mm	1200 x 1200 mm
<b>Maximum suspension distance <sup>2)</sup></b> (Suspended field dimensions)	1200 x 1200 mm	1200 x 1200 mm
<b>Maximum suspension height</b>	from 250 mm	from 250 mm
<b>System weight <sup>3)</sup></b>	up to 25 kg/m <sup>2</sup>	up to 50 kg/m <sup>2</sup>
<b>System height</b>	80 mm	80 mm
<b>Visible grid width</b>	55 mm	55 mm
<b>Maximum distributed load <sup>4)</sup></b>	-	150 kg/m <sup>2</sup>
<b>Maximum point load <sup>4)</sup></b>	-	150 kg per suspended field
<b>Maximum point load on bottom side <sup>5)</sup></b>	200 kg	65 kg
<b>Fire protection classification</b>	F0	F0
<b>Width of joints</b>	ca. 3 mm	ca. 3 mm
<b>Serviceability</b>	from below	from below or from top

1) Customised grid dimensions on request

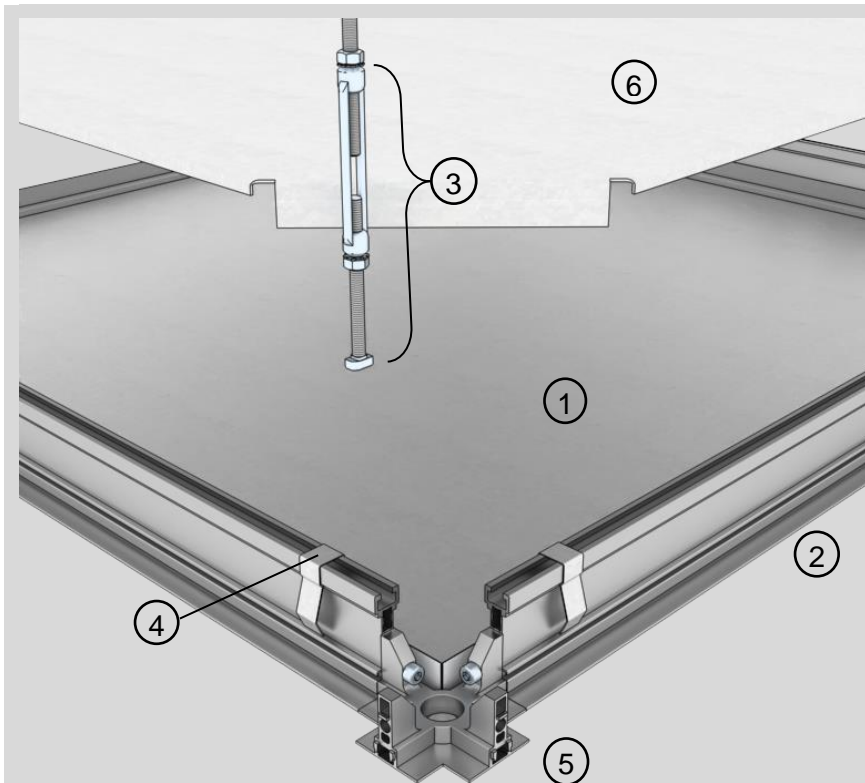
2) Depending on dead load and additional loads

3) Depending on system requirements, weight without additional installations

4) Either a distributed load or a point load may be applied

5) Only when using HALFEN screw type HS 20/12, M8, 4.6

### Substructure



#### List of components:

- 1 = Metal ceiling-panel
- 2 = Ceiling grid profile Crossdata 55A
- 3 = Suspension unit Crossdata 55A
- 4 = Clamping spring
- 5 = Aluminum joint connector
- 6 = Walkable sheet steel (optional)

Image 2 Crossdata 55A substructure

### General description

Metal ceiling panels with coated surface, resting on a suspended Aluminium grid with closable groove on the cleanroom side and connectors made of a zinc alloy, produced in accordance with European Norms and TAIM-standard. The ceiling system Crossdata 55A excels in high flexibility and is easy to clean. DIN EN ISO 14644 suitable design. The surface does not contain any outgassing or particle emitting materials. The ceiling joints are optionally sealed with a clean room suitable sealant.

Statements of Qualification and Validation of Air Permeability on request.

#### ① Metal ceiling panel

<b>Size and material</b>	Lindner ceiling panel, dimensions according to grid, made of galvanised sheet steel. Optionally made of Aluminium. Applied sealing tape included.
<b>Edging of ceiling panel</b>	L-shaped
<b>Surface</b>	Powder coated according to RAL or other common colour systems
<b>Gloss level</b>	appr. 20E (RAL 9010)
<b>Serviceability</b>	Ceiling panels are removable.

#### ② Ceiling grid

Made of extruded aluminium. Surface anodized or powder-coated. Connecting parts made of galvanised steel. Grid profiles with closable groove on the cleanroom side to take certain hammer-head screws or T-slot nuts.

#### ③ Suspension unit Crossdata 55A

##### Consisting of:

Suspension bolt made of galvanised steel.
Turnbuckle L/R forged from galvanised steel according to DIN 1480 – for continuous height adjustment of the overall system.
Threaded rod made of galvanised steel for suspension from a concrete ceiling or a steel framework. Length according to suspension height.

#### ④ Clamping spring

Clamping spring to keep the ceiling panels in position when resting on the grid. Made of spring steel. To ensure a high level of air tightness the ceiling panels are pressed against the all-sided sealing tape (see also Pos. 1).

#### ⑤ Joint Connector

Die-cast joint connectors in X-, T- and L-form for connecting strip grids made of zinc alloy. 90° corners are produced using L-shaped connectors.

The X-shaped nodes have a closed opening for sprinklers, which can be easily opened if necessary with the help of an auxiliary tool.

**⑥ Walkable sheet steel (optional)**

To create a walkable ceiling cavity. Dimensions according to grid, thickness depending on load requirements.

**Wall connection angle (no image)**

Wall angle to connect the ceiling system to partitions, concrete walls, etc. Different designs available. Made of galvanised steel, optionally made of Aluminium.

## Additional equipment / installations

<b>Light fixtures</b>	Installation of recessed lights and luminaires from Lindner or from other manufacturers <sup>1)</sup> is possible.
<b>Air conditioning components</b>	The ceiling system is compatible with Filter Fan Units / air supply exhausts / air grilles and other air conditioning components.
<b>Other</b>	Sprinklers, smoke detectors or media ducts can be set through the joint connectors or the ceiling panels.

<sup>1)</sup> Situation-related clarification necessary

Installation components, such as, luminaires or air outlets can be integrated flush with the system depending on the project situation.

## Manufacturing tolerances

Lindner metal ceilings are produced in accordance with the requirements of EN 13964 as well as the TAIM technical regulations (Verband Industrieller Metalldeckenhersteller TAIM e.V. - [www.taim.info](http://www.taim.info)).

This data sheet refers to the standard version of the above-mentioned ceiling system. Project-specific remarks and adaptations can be found in addition to the tender documents.

## Installation and use

The assembly and use shall be in accordance with the manufacturer's guidelines and the technical regulations of the TAIM.