Data Sheet

Clean Room Ceiling Line 55A 2.0

Aluminium Grid Ceiling

Product image

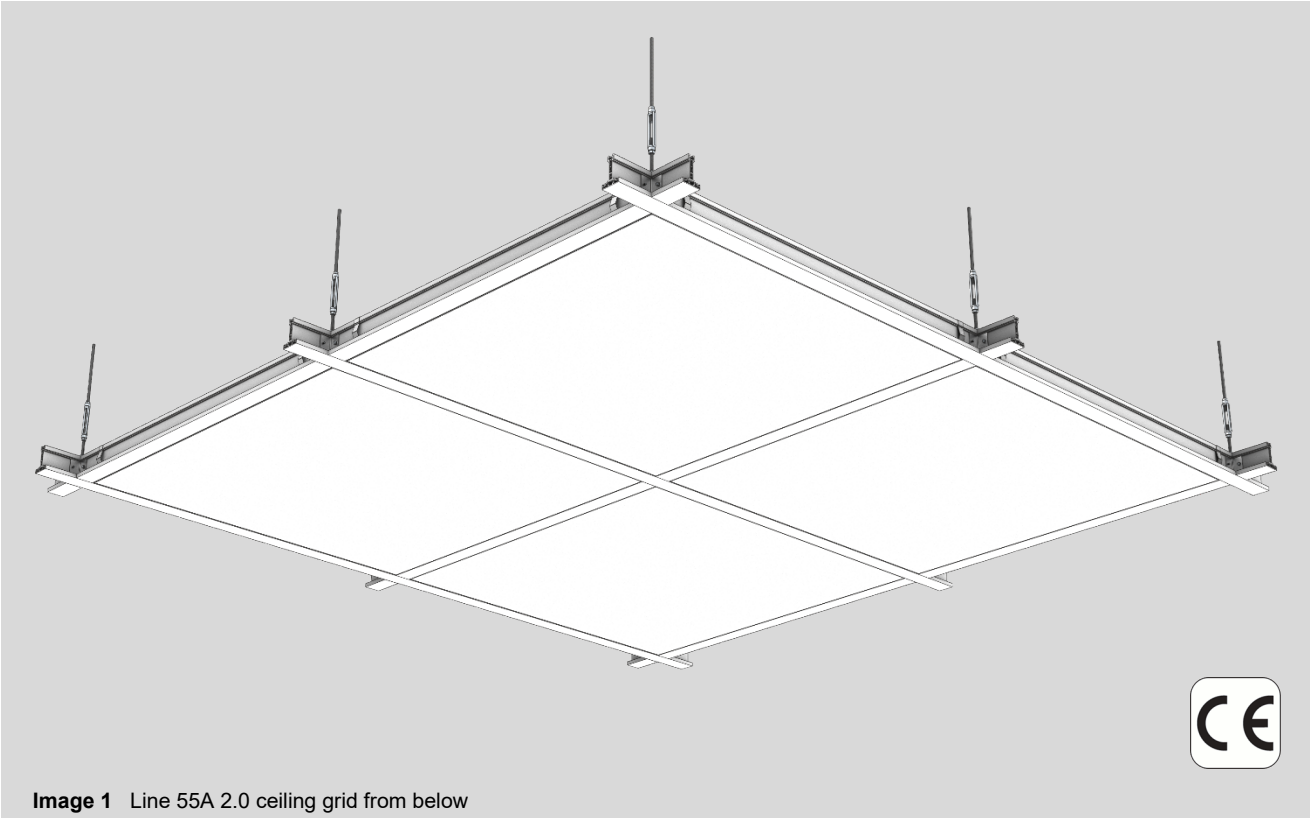

Image 1 Line 55A 2.0 ceiling grid from below

Fields of application

- Pharmaceutical production, medical engineering
- 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 (Verbund für Angewandte Hygiene)

Walkable version available

GMP suitability

Certification/Standards

Ceiling systems according to EN 13964 and EN 1090 part 2 and part 3.
Quality standard according to the technical standards of TAIM
(Verband Industrieller Metalldeckenhersteller TAIM e.V.).

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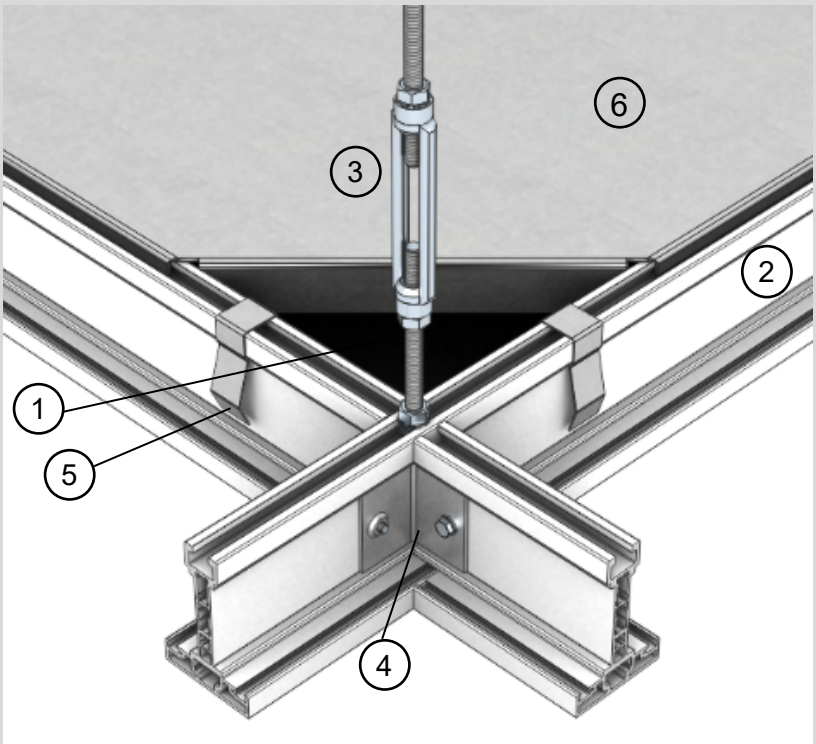
Technical data

	not walkable	walkable
Standard grid [1]	1200 x 1200 mm	1200 x 1200 mm
Maximum suspension distance [2]	2400 x 1200 mm	1200 x 1200 mm
Maximum suspension height	from 250 mm	from 250 mm
System weight [3]	up to 25 kg/m²	up to 50 kg/m²
System height	80 mm	80 mm
Visible width of grid profiles	55 mm	55 mm
Maximum distributed load [4]	-	150 kg/m²
Maximum point load [4]	-	150 kg
Fire protection classification	F0	F0
Width of joints	ca. 3 mm	ca. 3 mm
Serviceability	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

Substructure



Components:

1 = Metal ceiling panel
2 = Aluminium grid profile
3 = Suspension unit Line 55A 2.0
4 = Cross connector angle
5 = Clamping spring
6 = Walkable sheet steel (optional)
7 = Longitudinal connector [1]
8 = Miter connector [1]
9 = Silicone-hose gasket [1] (optional)

[1] – without image, see in chapters below

Image 2 Line 55A 2.0 substructure

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General description

Metal ceiling panels with coated surface, resting on a suspended Aluminium grid, produced in accordance with European Norms and TAIM-standard. The ceiling system Line 55A excels in high air tightness and is easy to clean and disinfect. GMP- and DIN EN ISO 14644 suitable designThe surface is even, flush, suitable for flush installation and 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

Size and material	Lindner ceiling panel, dimensions according to grid, made of galvanised sheet steel. Optionally made of Aluminium. Applied sealing tape included.
Edging of ceiling panel	L-shaped or Z-shaped (for flush installation)
Surface	• Powder coated according to RAL or NCS • Anodised Aluminium
Gloss level	appr. 20E (RAL 9010)
Serviceability	Ceiling panels are removable.

② Ceiling grid

Made of extruded Aluminium, joint connectors made of die cast Aluminium. Powder coated or anodised surface.

③ Suspension unit Line 55A 2.0

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 Standard connector

Special connector made of galvanised steel. For connecting the main and cross profiles.

⑤ 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).

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(6) Walkable sheet steel (optional)

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

(7) Longitudinal connector

Longitudinal connector made of galvanized steel to connect main ceiling grid profiles.

(8) Miter connector

Miter connector made of galvanized steel to create external and internal corners.

(9) FDA-compliant silicone hose gasket (optional)

Optional FDA-compliant silicone hose gasket as an alternative to silicone sealing in areas with a low cleanroom requirement or tightness requirement.

Additional equipment / installations

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

[1)] 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).

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.

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