

Product image

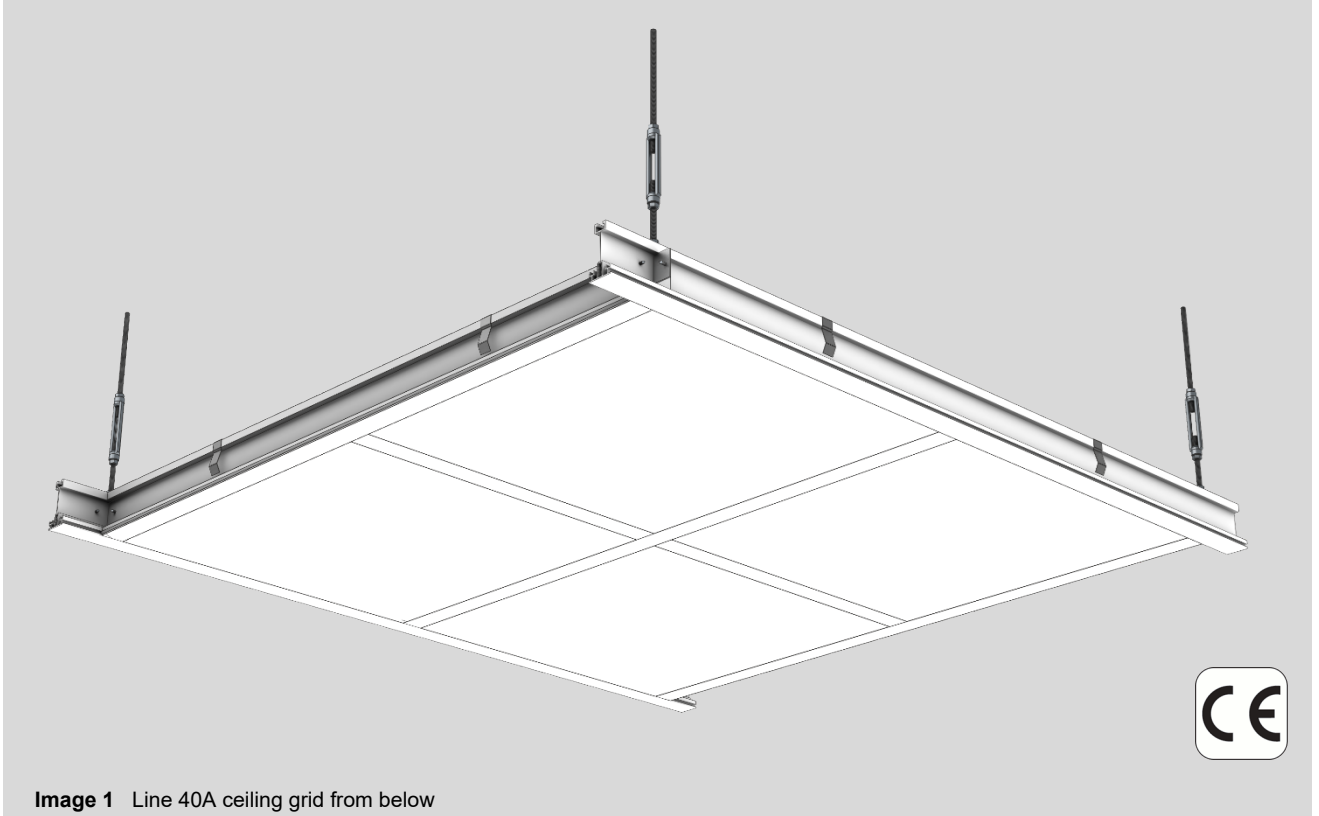


Image 1 Line 40A ceiling grid from below

Fields of application

- Pharmaceutical production facilities
- Medical engineering
- 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)



Very low joint permeability coefficient,
High air tightness



GMP suitability

Certification/Standards

Ceiling system according to EN 13964.

Quality standard according to the technical standards of TAIM
(Verband Industrieller Metalldeckenhersteller TAIM e.V.).

Technical data

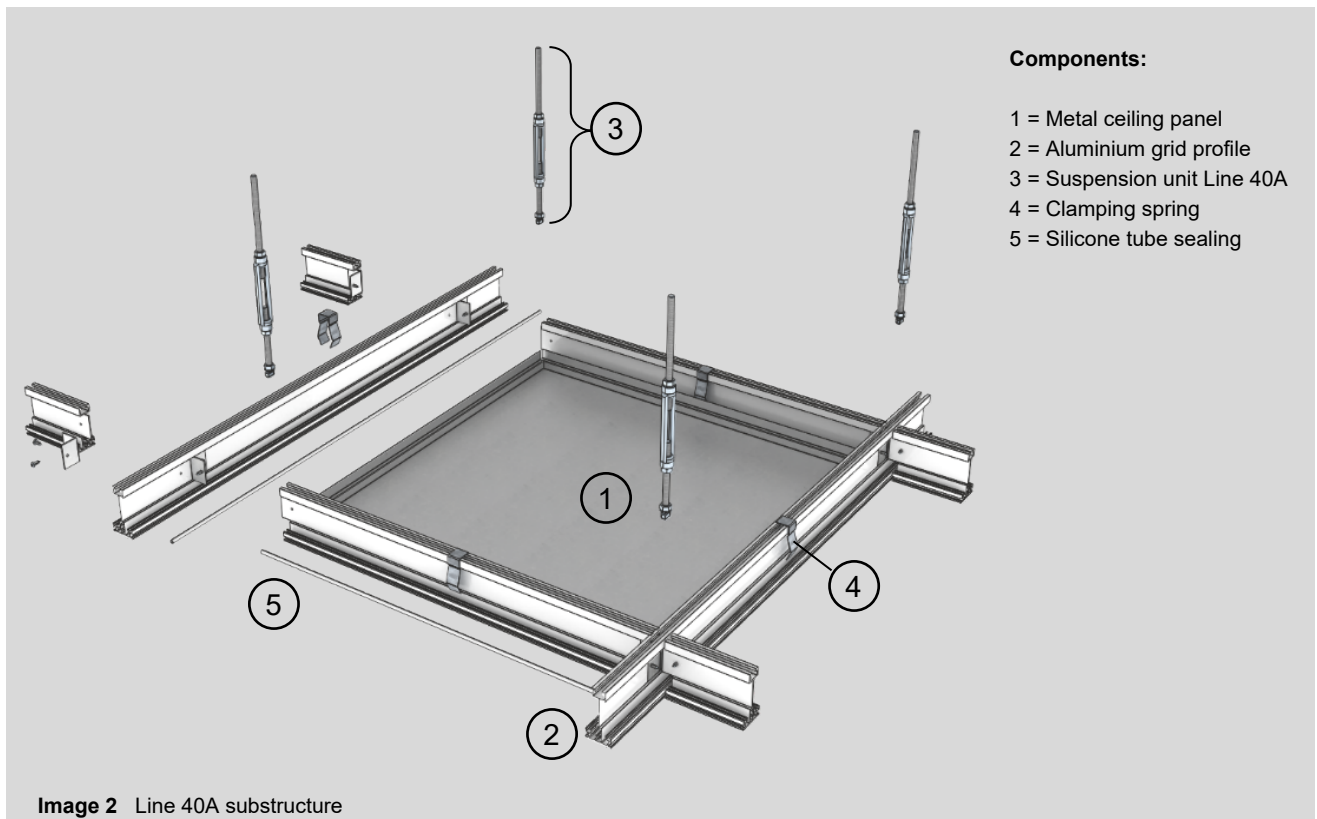
| | |
|----------------------------------------------------------------------------------|----------------------------|
| | not walkable |
| Standard grid ¹⁾ | 665 x 665 mm |
| Clear dimension between grid | 625 x 625 mm |
| Maximum suspension distance ²⁾ (Suspended field dimensions) | 1330 x 1330 mm |
| Maximum suspension height | from 250 mm |
| System weight ³⁾ | up to 15 kg/m ² |
| System height | 80 mm |
| Visible width of grid profiles | 40 mm |
| Fire protection classification | F0 |
| Width of joints | appr. 0,5 mm to 1,0 mm |
| Serviceability | from below |

¹⁾ Customised grid dimensions on request

²⁾ Depending on dead load and additional loads

³⁾ Depending on system requirements, weight without additional installations

Substructure



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 40A excels in high air tightness and is easy to clean and disinfect. GMP- and DIN EN ISO 14644 suitable design. The surface is even, flush, suitable for flush installation and does not contain any outgassing or particle emitting materials. An FDA-compliant silicone tube sealing ensures the high air tightness of the ceiling joints.

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. |
| Edging of ceiling panel | Z-shaped (for flush installation) |
| Surface | <ul style="list-style-type: none"> • 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. Powder coated surface. FDA-compliant silicone tube sealing included.

③ Suspension unit Line 40A

Consisting of:

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|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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 silicone tube sealings (Pos. 5).

⑤ Silicone tube sealing

FDA-compliant silicone tube sealing to ensure a high level of air tightness. According to the requirements of air tightness, one or two tube sealings can be installed per side.

Connectors (no image)

Cross connector made of Aluminium. Longitudinal and corner connectors made of galvanised steel.

Wall connection options (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

| | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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. |

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.