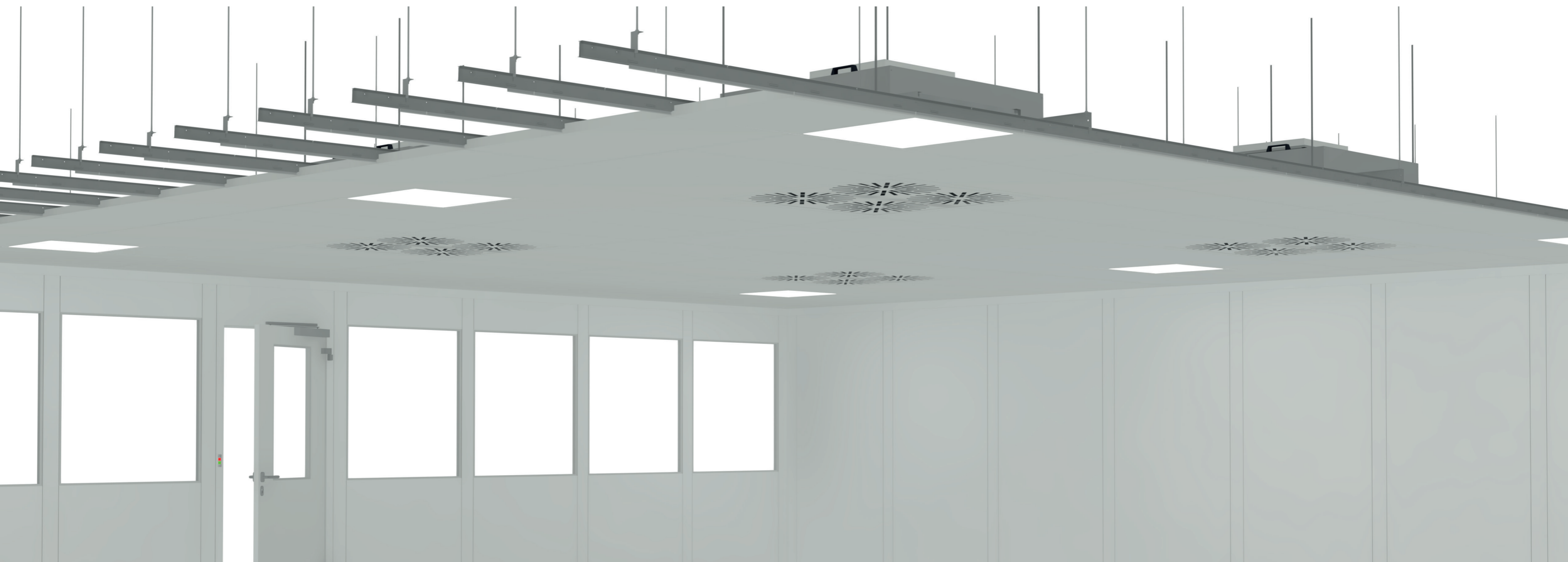# clean-tek®

Cleanroom systems and components

clean-ceil
clamping cassette ceiling

Cleanroom ceiling systems

As a system supplier, clean-tek has various cleanroom ceiling systems developed in-house, all of which are characterised by their flexibility and maximum modularity.

Thanks to in-house production and components that have been tried and tested over many years, the company can offer an optimal cleanroom solution for almost any application.

Since ceiling systems in particular are a key success factor in the construction of clean-rooms, clean-tek has invested decades of development work in its own cleanroom ceiling systems.

The clean-ceil Clamping cassette ceiling is a rational and effective solution for single-shell, non-accessible and absolutely flush flush grid ceilings.

The system is suitable for a wide range of cleanroom concepts and installations of any size.
The standardised grid dimensions ensure customised solutions in every case.

The use of high-quality aluminium enables a lightweight construction of high high stability as well as the quick assembly of the complete ceiling system.
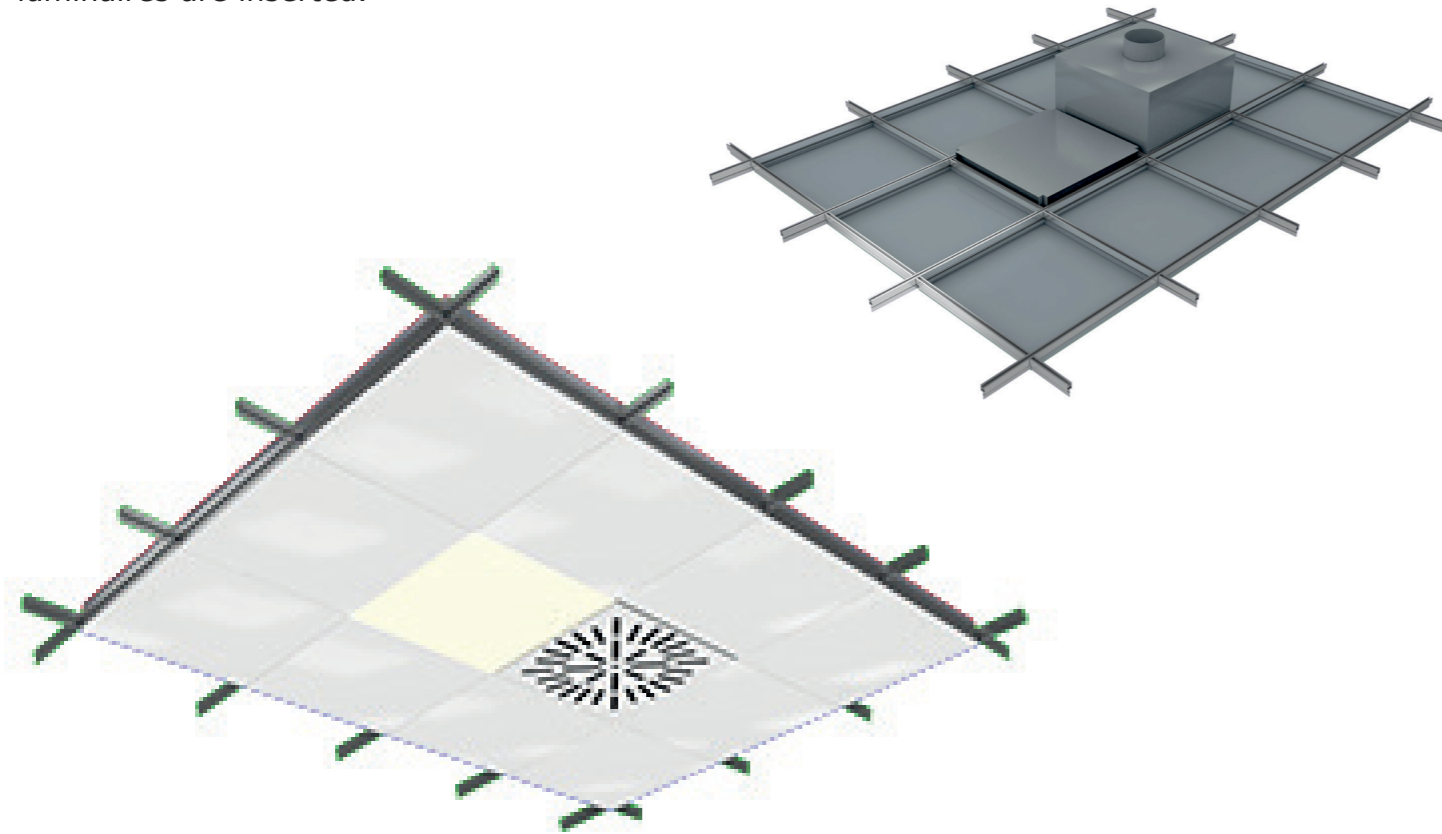
Features and benefits:

- Complies with FDA, GMP, DIN EN ISO and WHO requirements.

- Standardised grid dimensions ensure fast and uncomplicated planning and assembly

- In addition to the standard grid dimensions, individual grid dimensions are also available on request.

- Compatible with all common installation parts

- All elements can be interchanged independently of adjacent panels

- Suitable for all cleanroom classes

- Any cleanroom area can be realised

- Future-proof investment thanks to a 10-year subsequent delivery guarantee for all conversion and supplementary components

- Easy to clean and disinfectant resistant to disinfectants

Construction:

The clean-ceil clamping cassette ceiling is a standardised, non-walkable grid ceiling that can be easily, quickly and without special tools assembled into a stable basic pattern. Then the functional elements such as air outlets, return air grilles, filter fan and luminaires are inserted.

The placement of these built-in parts is individually as required.
Each individual cassette is dismantled on the cleanroom side.

Material information:

Beam	Aluminium
Non-walkable ceiling panels	Galvanised sheet steel, 1.00 mm Stainless steel 1.4301 (V2A), 1.00 mm Stainless steel 1.4401 (V4A), 1.00 mm Anodised aluminium (EV1)
Colour	*Standard RAL 9010* *Other colours on request*
Coating	Coil coating Powder coating Ground (stainless steel only)
Suspension	Threaded rod with turnbuckle Hot-dip galvanised
Sealing	Cleanroom silicone Alternative: Hybrid sealant
Wall connection	Aluminium powder-coated RAL 9010

Technical data:

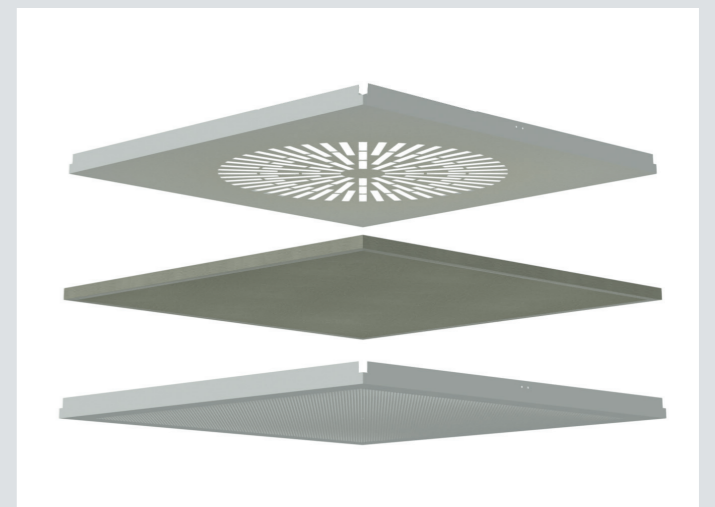| Standard grid	625x625 / 625x1250 mm or 600x600 / 600x1200 mm
Execution	non-walkable
Compressive strength	+ 200 Pa
Weight of ceiling	12 kg/m² non-walkable execution

Installation parts and options:

Air diffusers

Ceiling diffusers are used for the ventilation of the clean room. To guarantee flush installation of each brand, clean-tek also supplies the corresponding adapter frame if required.

clean-tek supplies according to customer requirements:

- Swirl diffusers
- CG diffusers (laminators)
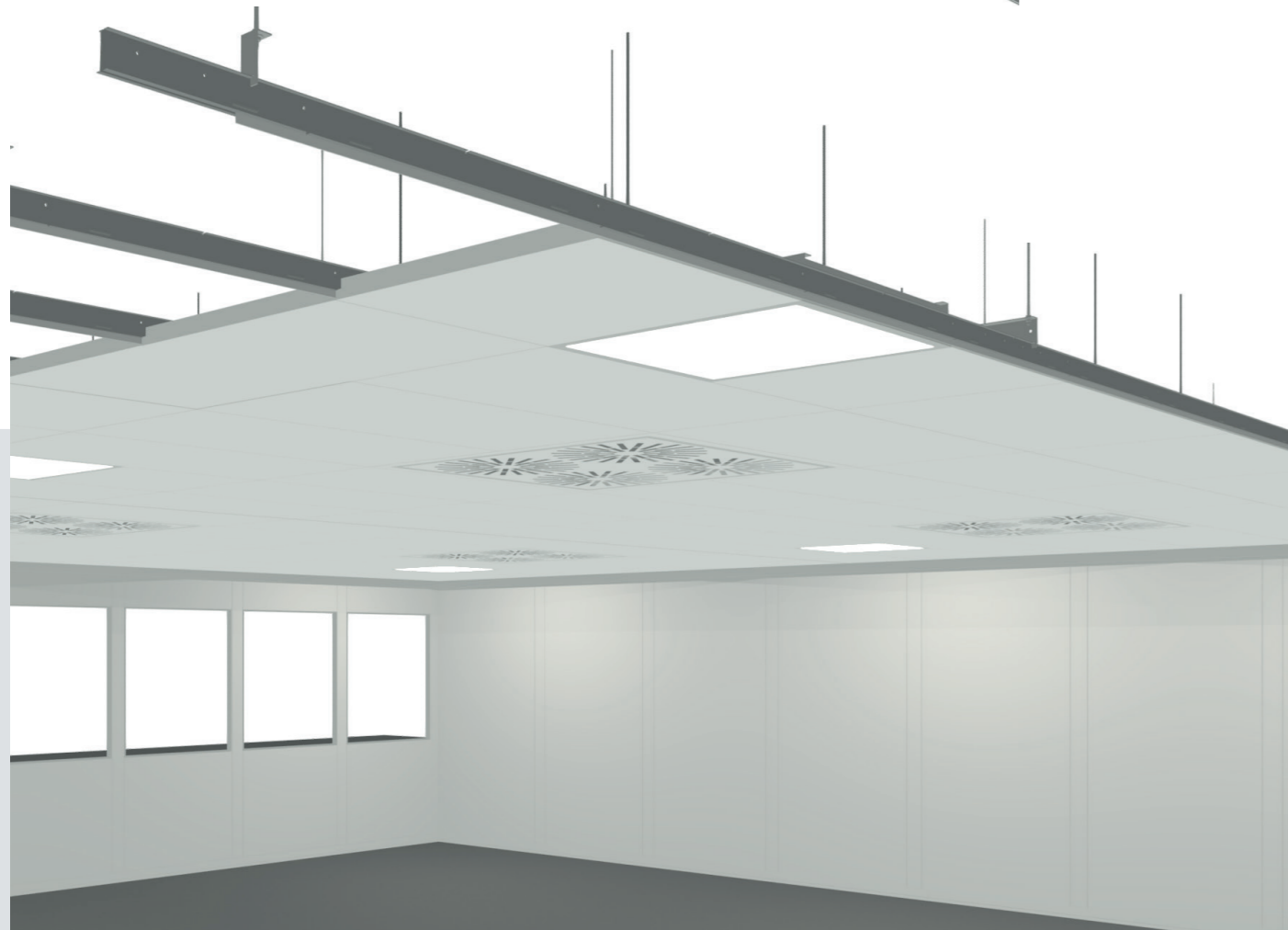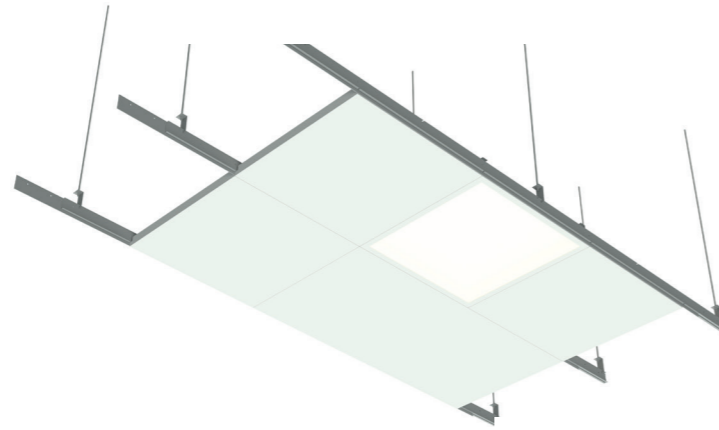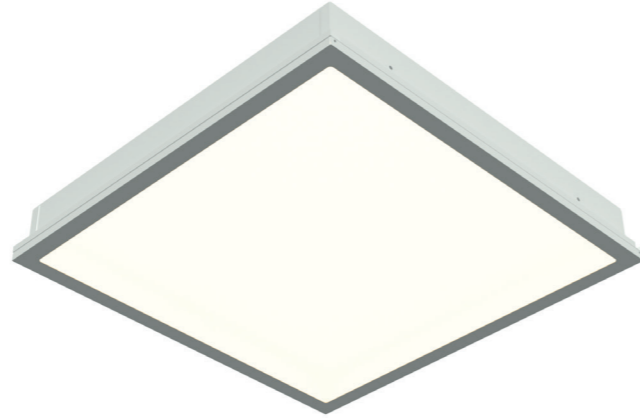- Perforated plates

LED clean-tek luminaires

clean-tek offers its own square LED recessed luminaire, EBL for short, to match the ceiling system.

It can be integrated flush into the clean-ceil ceiling system and is especially suitable for clean rooms with high hygienic requirements.

It is safe for use in damp rooms in accordance with IP 65 specifications.

For the integration of external lighting, the interface must be clarified by means of a detailed drawing.
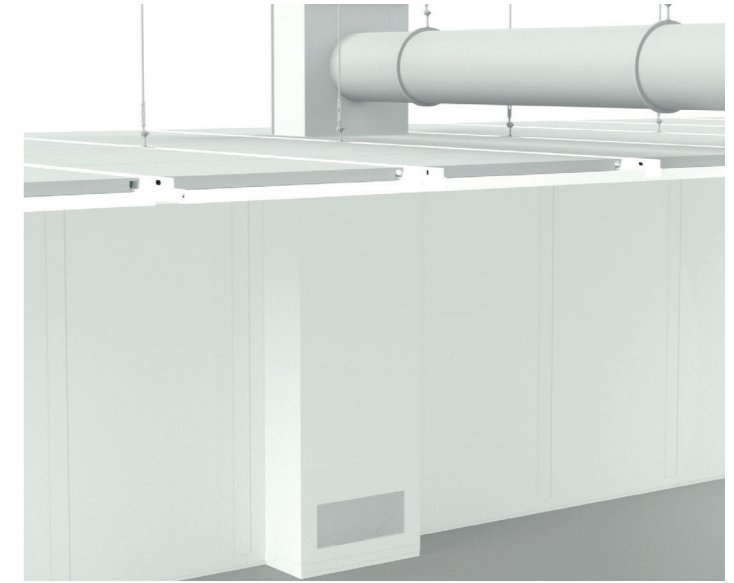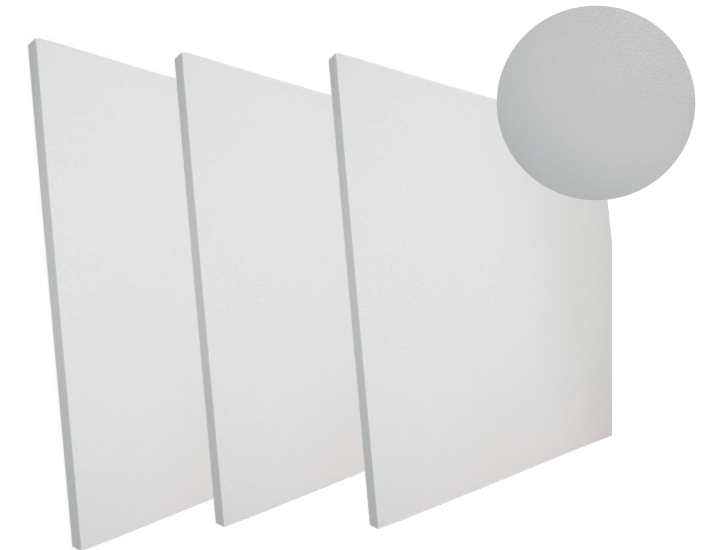
Further options:

Duct routing of return air shafts

After individual planning of the interface between the ceiling system and the ventilation duct, clean-tek also offers return air ducts for integrating the exhaust air to the ventilation system.
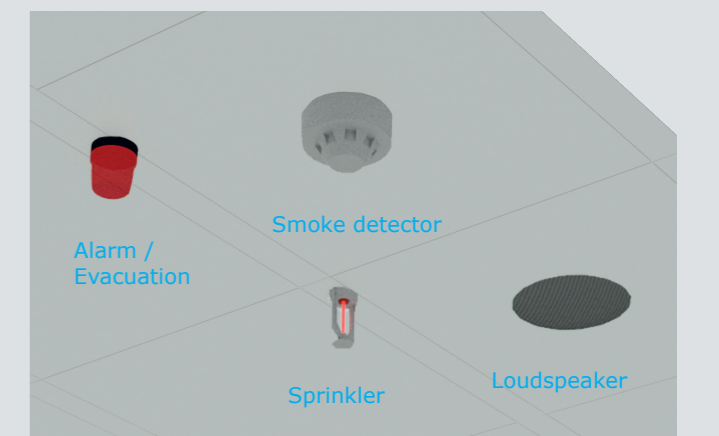
Sound insulation

On request, a special sound insulation panel can be laid in the false ceiling.
The leakage of particles is reliably prevented by the firm sheathing with a suitable plastic foil.

Installation of fire detection equipment

Sprinklers and fire detectors can be integrated at any point in the ceiling panel.

With regard to the design, individual detailed planning is always required.

Smoke detector

Alarm / Evacuation

Sprinkler

Loudspeaker

Clean-tek stands for first-class cleanroom technology from our own production.

As a pioneer in cleanroom technology, clean-tek has played a key role in shaping the development of modern cleanroom technology since 1986.

Tradition, innovation and experience are the values that still characterise clean-tek today and at the same time the key to constant growth and success.

Services

- Engineering, implementation and service of cleanroom systems

- Development of customised special solutions

- In-house production of all essential cleanroom components

- Interface management during the entire project

- Consulting and training

- On request, delivery of turnkey cleanroom systems as a general contractor

- Consultation and training

Products

- Cleanroom ceiling systems

- Cleanroom wall systems

- Cleanroom door systems

- Laminar flow modules

- Weighing units and sampling cabins

- Decontamination showers

- Accessories and components among others:
  - Material pass-throughs
  - Lights
  - Filter fan unit