

Isoleco 1000 and 2000 – acoustic hygienic suspended ceiling



Product	Dimensions mm		Thickness mm	Weight Kg/m ²
Isoleco 1000	600	600	25	2.0
	1200	600	25	2.0
Isoleco 2000	600	600	48.5	4.4
	1200	600	48.5	4.4
	1200	1200	48.5	4.4
different dimensions can be supplied on request				

Product Description Isoleco types 1000 and 2000 are acoustic hygienic suspended ceilings consisting of a self-supporting core of high-quality sound-absorbing glass wool, which is enclosed completely tightly and seamlessly in Tedlar film and therefore can be cleaned perfectly. Isoleco type 1000 and 2000 is suitable for indoor use.

Properties

- Excellent sound absorption (sound absorption class B)
- Suitable for use in rooms with a very high and/or strongly changing relative humidity
- It doesn't form a feeding ground for mould and bacteria and it is inorganic, amorphous and germ-free
- Cannot be penetrated by micro-organisms and they will not negatively affect it
- Antistatic, UV-resistant, can withstand a large variety of chemicals and doesn't cause or boost corrosion
- Durable high reflectance and colorfast
- Self-supporting under all climate conditions
- Bending strength in accordance with EN 13964:2004: 1/C/1.9N.
- Diffusion resistance figure of the plastic film: 2.7
- Reflection capacity: reflectance (γ value): 0.72
- Fire, fire safety:
 - base material (glass wool) is non-flammable in accordance with ISO 1182,
 - product as a whole (with film) is fire-proof
- Fire propagation:
 - contribution to flashover in accordance with NEN 6065: class 1 (report available)
 - flame spread in accordance with NEN 6065: class 1 (report available)
- Smoke development: in accordance with NEN 6066: 6
- European Standard classification: EN 13501-1: B, S2, d0
- Complies with: HACCP (Hazard Analysis and Critical Control Point)

Application

Industry and utility construction and specific applications are the chemical, pharmaceutical and food sectors, cleanrooms, industrial kitchens, operation theatres, bottling plants and breweries

Versions/ Material

Isoleco type 1000: ceiling elements with a thickness of 25 mm in different module sizes suitable for various standard visible assembly systems with a flange width of at least 24 mm and a section height of 38 mm; sections in the colour of the standard suspended ceiling sections; stainless steel assembly springs

Isoleco type 2000: ceiling elements with a thickness of 48.5 mm in different module sizes suitable for a specially developed suspension system consisting of anodised aluminium assembly profiles where each ceiling element is clamped into place around as a continuous whole to guarantee hygienic properties; core made of a glass wool panel that has been equipped on the visible side with acoustic open fibreglass

Isoleco 1000/2000 fitting panels: plastic panel that has a special plastic film on one side
Accessories: assembly springs, side sections, lighting fittings and repair tape

Sound Absorption

Measured in accordance with : EN ISO 354



Maintenance

Industry and utility construction Isoleco 1000 and Isoleco 2000 can resist being dusted, vacuum cleaned and wiped.

Cleaning the Isoleco 1000 suspended ceiling:

- Clean manually: the ceiling can be cleaned with lukewarm water in which a neutral cleaner has been dissolved.
- Spraying and extraction cleaning: if using this cleaning method, a combined water-suctioning and pump device is used that has a special spraying nozzle; water with a slightly alkaline cleaner is sprayed against the ceiling and immediately suctioned off; basically no water is spilled with this method.
- Foam cleaning: a slightly alkaline foam cleaner is sprayed against the ceiling using a foam sprayer; the ceiling is sprayed clean after the prescribed soaking time.

Cleaning the Isoleco 2000 suspended ceiling:

- High-pressure cleaning (only Isoleco 2000 H, available on request): with hot water at 60 bar at most with a smooth jet sprayer. The minimum spraying distance is 30 cm. Spray using a cleaner and rinse afterwards using clean water;
- Foam cleaning: spray against the ceiling using a foam sprayer; spray the ceiling clean after the prescribed soaking time using hot or cold water;
- Foamatic foam cleaner: spray the ceiling with a special foam sprayer using a cleaner that is especially suitable for this. After the prescribed soaking time, suction off the foam with the dirt from the ceiling using a suction machine