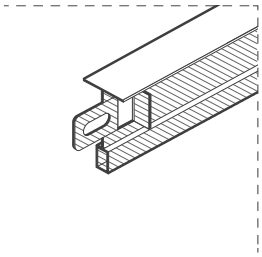
DESCRIPTION

The THU structure composed of primary and secondary T-shaped profiles allows the suspension of insulation panels of varying sizes and materials (plasterboard, wood, etc.).

The profiles are made of galvanised steel and the visible part is covered in coating that is pre-lacquered in different colours.

The metallic structure is made up of 3.7 m die-cut primary profiles, upon which the 1.2 and 0.6 m secondary profiles are supported. The profiles are 24 mm wide and come in two profile heights: 33 or 38 mm.



MATERIAL

Profiles made of S250GD + Z100 galvanised steel or steel of similar characteristics and a galvanised aluminium sheet to cover the exposed coloured part.

ADD-ONS (removable ceiling construction)

1) Suspension system
The structure is suspended from the framework by means of special right-angled hanger parts. This system fixes and stabilises the supporting profiles of the insulating panels that rest on them.

2) Perimeter profile
For the points where it meets partitions there is a 24 mm angle profile that can be used as a solution for perimeter finishes.

3) Threaded rod set
A set of parts comprising 1 m of threaded rod, two nuts and washers. This system ensures its attachment to the framework and the ceiling itself.

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PROPERTIES

Mechanical tests conducted by AIMME / AIDIMMEfor load-bearing capacity classification

THU T24 profile bending test (height tested system: primary 38 mm, secondary 1.20 of 38 mm and secondary 0.6 of 33 mm): To determine the classification, a deflection of the profile system of no more than 2.4 mm or L/500 ≤ 4 mm according to the deviation established for class 1 by EN 13964 is considered, obtaining as a result 9.16 kg/m2 for a 2.4 mm deflection and a maximum of 14.8 kg/m2 for a deflection of up to 4 mm.

- The maximum load indicated is in kg/m2 for a standardised gap of 1200 mm between suspension hanger parts and between primary profiles. The weight of the profile system itself is taken into account in the calculation but not other supplementary or signalling elements.

THU T24 profile bending test, 38 mm height (UNE-EN 13964): 10 bending tests are performed on THU T24 profiles 38 mm high with a span length of 1500 mm for a Class 2 deflection (L/300 = 5 mm).

- Maximum permitted permanent deflection = 0.20 mm
- Average permanent deflection = 0.147 mm
- Flexural rigidity (EI) (Class 2) = 15.9 x 108 N·mm2
- Permissible bending moment (Class 2) = 26.5·103 N·mm

THU T24 profile bending test, 33 mm height (UNE-EN 13964): 10 bending tests are performed on THU T24 profiles 33 mm high with a span length of 1500 mm for a Class 2 deflection (L/300 = 5 mm).

- Maximum permitted permanent deflection = 0.20 mm
- Average permanent deflection = 0.14 mm
- Flexural rigidity EI (Class 2) = 9.56x108 N·mm2
- Permissible bending moment (Class 2) = 8.87x103 N·mm

Reaction to Fire test at AFITI (UNE-EN 13501-1:2019)

THU T24 Profiles: Euroclass A1. Non-combustible product (no contribution to fire), with low quantity and speed of smoke emission and does not produce inflamed droplets or particles.

UPDATED VERSION

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