

SAS System 130

Suspended Ceiling System Draft Specification

(Alugrid-Q, Emac 130 Grid System, T15 and T24)

The suspended ceiling shall comprise of SAS system 130 lay-in ceiling tiles supported by 1508 / 1516 / 1519 / 2616* Alugrid-Q proprietary Patented Shadowline threaded suspension system and / or Emac 130 T-Grid systems, allowing access to the ceiling void and easy location and relocation of partitioning.

The tiles shall be manufactured from Zintec mild steel with an electrostatically applied smooth polyester powder finish to RAL9010 white/special colour*

All products shall be manufactured to BS476 Part 6 1989 and Part 7 1987 of the Building Regulations to meet Class O Fire Propagation and Surface Spread of Flame.

The tiles shall be (size) X mm
Plain / Perforated*
Plain Border / Overall Perforation*

Perforation reference to give an open area of %.

An tissue faced acoustic pad with a density of Kg/m³ and a thickness of mm shall be fitted into the back of each tile with tear resistant aluminium foil / 0.6 gauge steel backing plate*

Specific tiles will be supplied with factory formed apertures to allow easy integration of light fittings and services. Apertures within perforated tiles shall be set within a square or rectangular plain zone. Where required, additional support will be given to lighting fittings and other services using stiffeners within the tile and / or Emac hangers / Emac channels fixed to the systems secondary grid.

Aperture Dimensions
..... X mm
..... X mm
..... X mm

Stiffeners required Yes / No*

Alugrid-Q comprised galvanised Emac steel carriers with an extruded aluminium shadowline threadform section locked together to form a modular grid with all junctions machined to create mitred birdsmouth intersections on the grid face. Finished face to be polyester powder coated to RAL9010 White / Special colour*

Suspension is provided by galvanised steel Emac adjustable hanger assemblies fixed direct to the structure soffit at 1500mm maximum centres from a suitable top fixing.

Perimeter shadowgap (type TCA0184) / channel type 108) used in conjunction with hold down wedges type 109 should be used to support full and cut tiles.

For junctions / perimeters with plasterboard, SAS aluminium extrusion type TCA0128 / TRU-TJ-1508 / TRU-SJ-T1508* should be used.

Acoustic Performance - Absorption

For perforated tiles with mineral wool infills the random incidence sound absorption coefficients (ISO) when tested in accordance with BS3638 the sound absorption shall be:

| Frequency Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
|-----------------|------|------|------|------|------|------|------|
| Coefficient (1) | 0.33 | 0.88 | 0.72 | 0.82 | 0.92 | 0.91 | 0.84 |
| Coefficient | | | | | | | |

(1) Sound absorption based on perforation type 2516 with a 8mm, 80Kg/m³ acoustic infill.

Acoustic Performance - Attenuation

When tested in accordance with BS2750 Part 9 the sound attenuation shall be dB normalised level difference Dnc,w.

Thermal Insulation

Each infill shall be capable of achieving thermal conductivity of not more than 0.36 W/m²°C

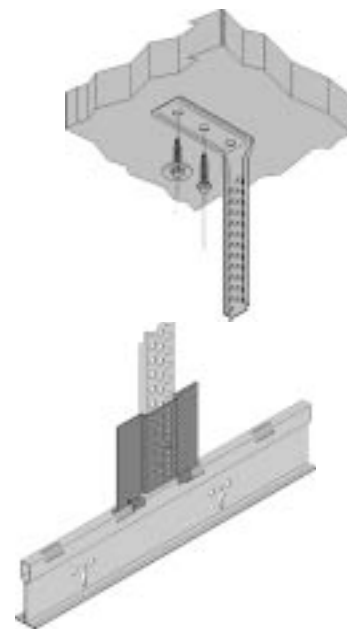
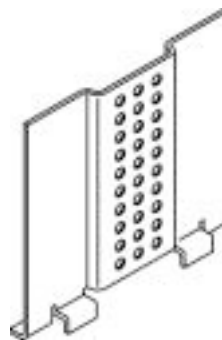
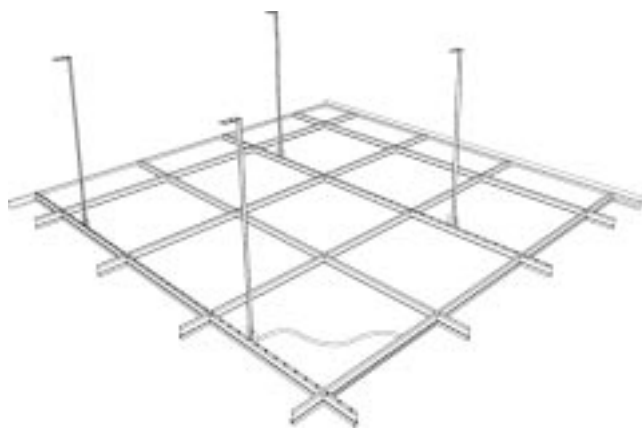
Installation

The whole system to be installed in accordance with the recommendations of BS8290 Part 3: 1991 Code of Practice on Installation and Maintenance and the current Codes of Practice.

* Delete as applicable

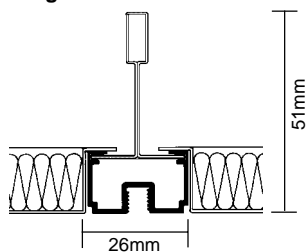


Construction Details

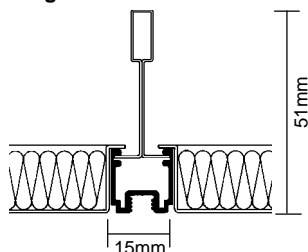


Suspension System

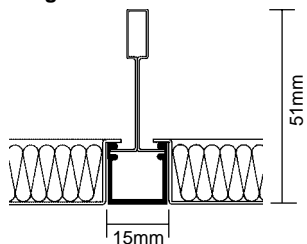
Alugrid-Q 26/16



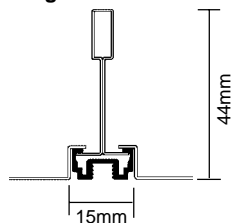
Alugrid-Q 15/16



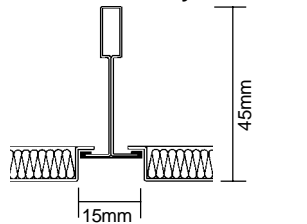
Alugrid-P 15/16



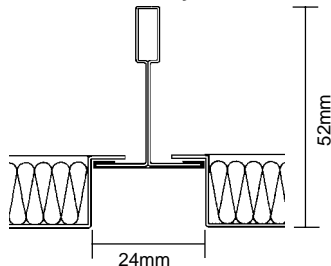
Alugrid-Q 15/08



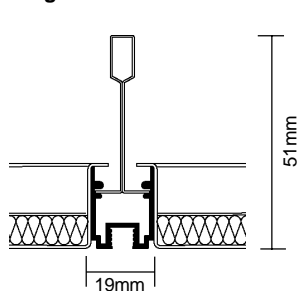
Emac 130 T15 System



Emac 130 T24 System

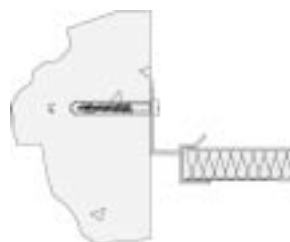


Alugrid-Q 15/19



Notes:

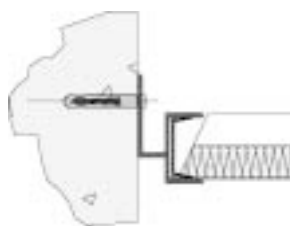
- 1) Tiles are available in a wide range of standard and special sizes, please refer to the SAS System 130 brochure for details.
- 2) A wide range of standard and designer perforation patterns are available please refer to the SAS Perforation Pattern brochure for details.



TCA0184 15mm shadowgap perimeter channel



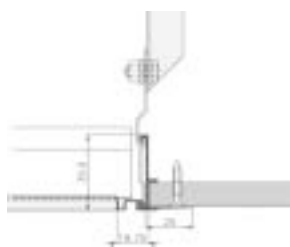
TCA0183 15mm perimeter channel



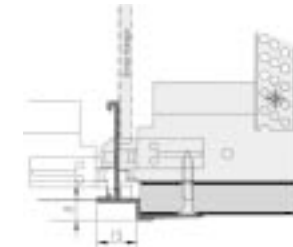
TCA0128 20mm shadowgap perimeter channel



TCA0108 20mm perimeter channel



TRU-TJ-1508 shadowgap perimeter channel



TRU-SJ-T1508 shadowgap perimeter channel

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FM 23840 BS EN ISO 9002
 The product is manufactured to a quality management system BS EN 9002 and is approved by BSI at SAS International Hirwaun and Bridgend.