

PROLINE 600L

LAY-IN METAL CEILING



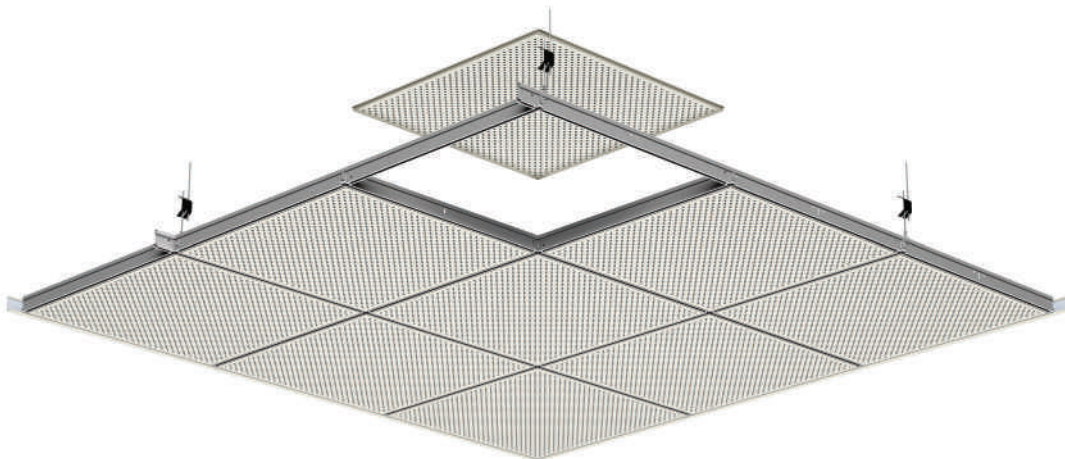
SYSTEM DESCRIPTION

Proline 600L Lay-in System creates a modular arrangement with the tiles laying into standard 15mm or 24mm Exposed Tee grid system. Combining the ease of installation afforded by interlocking grid systems and the ease accessibility to services by simply lifting the tiles into the void space, the Proline 600L Exposed System provides an economic solution to many ceiling requirements.



FEATURES

- Stability of interlocking exposed grid
- Easy lift-up access to void
- Clean, modular ceiling appearance
- Durable, washable, smooth polyester coating
- Lights and grilles can be easily integrated



VISUAL CHARACTERISTICS

DIMENSION: 600x600mm standard and other modules can be produced upon request.

MATERIAL: Aluminum 0.5mm up to 1.2mm, or Galvanized Steel 0.5mm up to 1mm, or Stainless Steel (mirror or brush finish).

SURFACE FINISH: Pre-painted stove enameled polyester finish, or Factory applied powder-coated finish (post-coated).

TEXTURE: Flat smooth surface free from blemishes.

TILE DEPTH:
- 10mm for recessed type
- 8mm for flush type

EDGE DETAIL:
- Square Edge

PERFORATION OPTIONS: Plain or Perforated (standard 1.8mm diameter holes). Any other pattern can be produced upon request.

COLOR: Proline standard white color. Other colors and finishes are available upon request.

TECHNICAL CHARACTERISTICS

LIGHT REFLECTANCE:
LR = 70 – 90% (ASTM E 1477)



ACOUSTIC PROPERTY:
NRC = 0.7 – 0.9 (ASTM C423)
[perforated tile with acoustic inlay]



FIRE CLASSIFICATION:
Class 1 Surface Spread of Flame
(BS 476: Part 6 and 7)



CORROSION RESISTANCE:
Salt spray tested for 1000 hours
corrosion protection
(ASTM B 117-73)



HUMIDITY RESISTANCE:
HR = 95%



ANTI- MICROBIAL: Hygienic coating can be provided upon request, having an excellent anti-bacterial properties (JIS Z 2801:2000)



CLEANABILITY: Washable by applying any household mild detergent like soap or window cleaner on the ceiling surface then wiping it with a clean soft cloth.

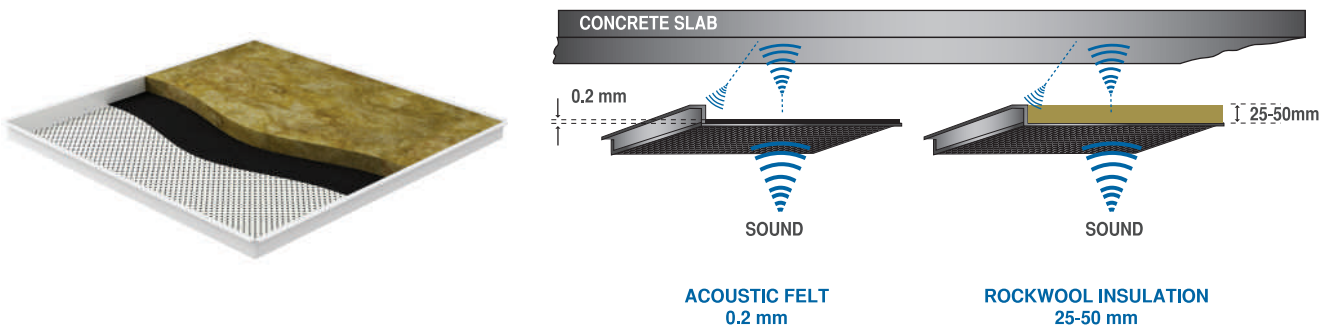


GREEN BUILDING MATERIAL: Fully recyclable and environmentally friendly.



ACOUSTIC INSULATION

The Proline panels are provided with non-woven, non-flammable, acoustic black felt glued over the whole perforated area. The Acoustic Felt is a sound absorption layer of 0.2mm thick having NRC 0.7 to 0.9. Its sound absorption performance is tested in accordance with ASTM C423-90a. Additionally, Rockwool Insulation pads 25-50 mm thick and 40-110 kg/m³ density can be fitted inside the Proline panels to provide high performance of acoustic insulation, thermal insulation, and fire protection.



Proline acoustic products are classified under ASTM E1264 the american standard classification for acoustical ceiling products.

COATING

Option (A) Continuous coil-coating process ensuring uniform coating thickness and adhesion. Two layered polyester finish in a nominal thickness of 20 microns: front side with a full primer and finish coat, the back side with a primer coat.

Option (B) Electro-statically polyester powder coating from 70 to 90 microns applied after manufacturing to cover all exposed edges.

SAFETY LOGISTICS

1. STORAGE

Proline standard tiles are generally packed in cartons, which must be stored no more than four cartons high. They must be stacked in a vertical way and must be kept in a dry storage area. Particular care should be taken when moving cartons by hand. Weights of cartons vary depending on the tile types and sizes, therefore some cartons may require more than one person to carry them.

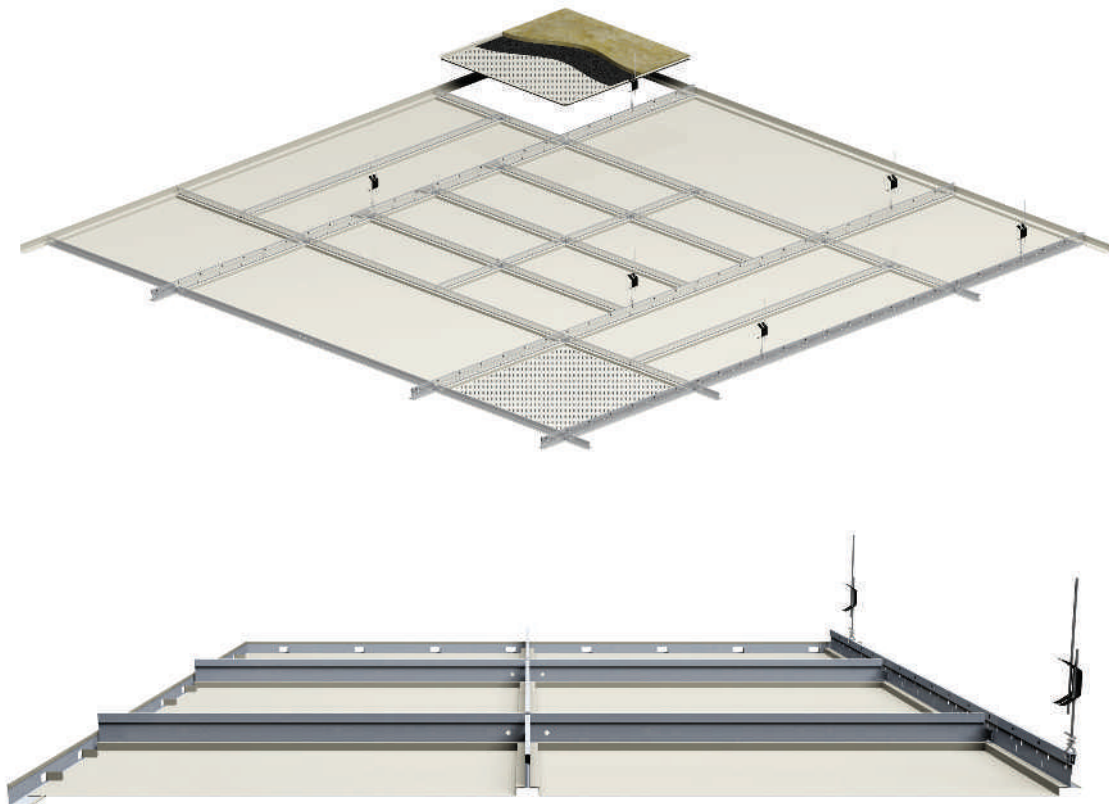
2. HANDLING

Immediately after installation of the ceiling, we would recommend that any dirt or finger marks be removed with a clean dry cloth. To prevent finger marks soft cotton gloves are recommended for installation of tiles. Care should be taken when handling cut tiles and sharp edges shouldn't be left at workplace.



SUSPENSION SYSTEM

The Proline 600L Lay-in metal ceiling tiles are fixed on suspended metal suspension system with Exposed grid framework. The suspension components consist of main tees 3600, cross tees 1200, cross tees 600, double adjustment clips, and perimeter edge trims. All Proline 600L suspension components are chemically cleaned hot-dip galvanized steel complying with ASTM A653.



GRID SYSTEMS

Option (A) Lay-in **Recessed Type** fixed on 15T or 24T Grid








Option (B) Lay-in **Flush Type** fixed on 15mm Ultraline Grid with white or black groove



Option (C) Lay-in **Flat Type** fixed on 15T or 24T Grid



1		MAIN TEE 3600: GI Steel with aluminum capping used as the main support for the system.
2		CROSS TEE 1200 & 600: GI Steel with aluminum capping interlocked with the Main Tees to form diaphrag bays.
3		DOUBLE ADJUSTMENT CLIP: GI Steel used to adjust the ceiling level suspended by wire hangers @1000mm maximum centers, starting @300mm maximum from walls.
4		HANGING BRACKET: GI Steel fixed to M6 threaded rod hangers used when rigid suspension system is required.
5		EDGE TRIM: L or W shaped fixed to the wall @ 400mm maximum centers, starting @150mm from the adjacent wall. Color and finish to match tile.

INSTALLATION

1. Using a laser, or equivalent, determine ceiling level and secure perimeter edge trim to the wall at 400mm maximum centers.
2. Cut lengths of suspension wire hangers to suit suspension depth, ensuring sufficient length for fixing.
3. Setting out from the center of the room, secure hangers at 1000mm maximum centers to the structural soffit using fixings approved by the architect and determined by load and safety factor considerations. The first hangers are to be no more than 300mm from the wall. Where possible, not less than half tiles should be used at perimeters.
4. To achieve a 600 x 600mm module, install main tees at 1200mm centers. Wire hangers to have a minimum of 3 turns to form a tight coil.
5. Interlock 1200mm cross tees between main tees at 600mm centers and 600mm cross tees centrally between them.
6. Tiles can now be offered into place.
7. Cut perimeter tiles must be retained using wedges spaced at 300mm maximum centers.

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