

## Chapter 1: GENERAL

**1.1 RELEVANT STANDARDS**

*TS EN 13964 Suspended ceilings - Required properties and test methods*

*TS EN ISO 11654 Sound Absorbers Used in Buildings - Sound Absorption Rating*

*TS EN 13501-1 Building Products and Building Elements, Fire Classification - Part 1: Using Data Obtained from Fire Behavior Experiments Classification*

*TS EN 485-1 Aluminum and Aluminum Alloys Tape Strip and Sheet - Part 1: Technical Conditions for Inspection and Delivery*

*TS EN 755-1 Aluminum and Aluminum Alloys - Extruded Wire Bar/Rods, Pipes and Profiles - Part 1: Technical Inspection and Delivery Conditions*

**1.2 SYSTEM DESCRIPTION**

**0.40-0.70 mm thick, minimum 20 micron electrostatic powder coated (polyester)**  
Honeycomb ceiling system in the form of 60x60 cm or 60x120 cm modules formed by combining aluminum panels to form cells of 15x15 cm in size. Honeycomb ceiling modules placed on galvanized steel T carrier profiles with 15 mm flange width from the top.

## CHAPTER 2: PRODUCT

**2.1 PANEL**

\_\_\_\_\_m2 nordic premium Open-cell Honeycomb Ceiling:

**Panel Size: Modules measuring 600 x 600 mm or 600x1200 mm Cell Size: 50x50mm – 75x75mm – 100x100mm Honeycomb-looking aluminum panels in 150x150mm square cells or 50mmx150mm, 50mmx200mm rectangular cells.**

**While it can be supplied ready-assembled and formed into cells, the profiles forming the panel may also need to be combined separately.**

**Profile height forming the panel: 40mm or 50mm high, h:40-50mm and width 10mm or 15mm.**

**2.2 CARRIER SYSTEM**

It should be a grid system created by interlocking perforated 3600mm long main carrier profiles and 1200mm and 600mm long secondary carrier profiles at right angles at certain intervals according to the panel size, in a way and color compatible with the honeycomb cells.

The distance between the points where the suspension wires are hung on the main carrier is maximum 1200mm. Main carriers are made of galvanized steel with a thickness of 0.35 mm, dimensions of 15x38 mm and a length of 3600 mm for the T15 system.

**3: ADDITIONAL FEATURES****3.1 EDGE PROFILES**

- Min. L section corner profile with 0.40mm thickness and 23 x 23 mm dimensions • Min. Stepped Z section corner profile with dimensions of 16 x 8 x 16 x 23 mm, 0.50 mm thick

**3.4 COATING**

The coating is coated with durable polyester-based electrostatic powder coating process, min. 60 micron thickness or min. It is made pre-painted with a thickness of 20 microns. (In accordance with EN TAIM ASTM standards)

**3.5 APPLICATION**

All materials must be carried out in accordance with current standards and manufacturer's recommendations:

A. L or Z type brackets are mounted on opposite walls. Screwing the bracket to the wall is done every 35-40cm maximum. The surfaces on which these edge profiles are mounted must be smooth to avoid deformations due to indentations and protrusions.

B. In places where the weight of the suspended ceiling is high, the carrier profiles should be hung at a maximum of 300 mm from the angle bracket, as the edge profiles will not carry too much load.

C. T15 main carrier profile is hung on the upper floor with a steel dowel using hanging tongs and hanging wire. Sub-carriers joined at right angles to this main carrier are connected to obtain the desired tiling size. Max. It should be hung at 600mm, and the other main carrier should be hung at every 600mm or 1200mm, depending on the desired tile size on the ceiling. Attachments should be used where the main carrier profiles are to be continued longitudinally.

D. After the 3600mm main carrier is combined with the 1200mm secondary carrier and each 1200mm secondary carrier is combined with the 600mm carriers, the suspended ceiling tile is formed and previously prepared cell or honeycomb-like square modules are placed on this square form.

E. When hanging the carrier with the suspension wire, a solid connection should be obtained by bending the wire around it at least three times.

F. Rivets and screw heads should not be visible.

G. No connection will be made to the electrical and mechanical system during installation.

H. Plumbing vents and fixtures will be placed in their places. (Spaces will be left in accordance with the requests of the relevant contractors.)

I. Opening of installation and armature holes on the ceiling is within the scope of the contractor.

**3.6 IMAGE**

