

## Chapter 1: GENERAL

**1.1 APPLICABLE 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**

60x60 cm in size, 0.70 mm thick, minimum 20 micron electrostatic powder coated Hidden carrier system suspended ceiling panel made of perforated aluminum plate (EN AW 3000 series) with acoustic fabric coated back side (polyester based) Hidden carrier system that is tightly fitted to triangular cross-section Omega carrier profiles

## CHAPTER 2: PRODUCT

**2.1 PANEL**

\_\_\_\_\_m2 Nordic Clip-in System Suspended Ceiling:

Aluminum or galvanized steel straight edge panels measuring 600 x 600 mm, 0.7 mm thick.

**2.2 CARRIER SYSTEM**

Grid system created by connecting triangular cross-section omega main carrier profiles, one above the other, at right angles to certain intervals according to the panel size.

The distance between the points where the suspension wires are hung on the main carrier is maximum 1200mm. Omega carriers are manufactured from galvanized steel with dimensions of 28.5x30mm, 0.40 or 0.45mm thickness and 3000mm length.

## 3: ADDITIONAL FEATURES

**3.1 EDGE PROFILES**

- Min. L section corner profile with 0.31mm thickness and 22 x 22 mm dimensions •
- Min. Stepped Z section corner with dimensions of 25 x 15 x 25 x 12 mm with 0.50 mm thickness profiles

### 3.2 PERFORATION

The manufacturer produces panels made of aluminum or galvanized steel as fully perforated, leaving a 10 mm natural border on all edges; 15% perforated surface with 2.5 mm hole diameter, with 50mm borders on all edges; 11% perforated surface with 2.5mm hole diameter, with 100mm border on all edges; It can produce a 7% perforated surface with a hole diameter of 2.5mm.

Perforations can be produced with a standard 2.5mm hole diameter as well as 1.8mm hole diameter.

### 3.3 ACOUSTIC

The manufacturer sticks a 0.2mm thick non-woven textile-based black interlining fabric (domestic production or imported Soundtex or Royalin brand) on the back of the panels, or a 5cm thick, 50kg/m<sup>3</sup> density mineral wool mattress can be laid on the back of the panels.

### 3.4 COATING

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

### 3.5 APPLICATION

All materials must be made in accordance with local standards and manufacturer's recommendations:

A. C brackets are mounted on opposite walls. Screwing the C angle bracket to the wall is done at least every 35-40cm. 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 450 mm from the angle bracket, as the edge profiles will not carry too much load.

C. Clip-in omega profile is hung on the upper flooring with a steel dowel using hanging tongs and hanging wire. Omega carriers are tightly connected to each other vertically with a combination clip, one at the top and the other at the bottom. Max. It should be hung at 60cm, while the other omega carrier should be hung at every 60cm or 120cm, depending on the desired tile and panel size on the ceiling. Clip-in inserts should be used where clip-in profiles are desired to be continued longitudinally.

D. Panels should be clamped with a pressure wedge to prevent them from moving inside the bracket.

E. Panels at the edge of the ceiling should be applied to be wider than ½ of the full module.

F. Hanger wire should be stretched before use and its diameter should not be less than 2 mm.

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

H. Rivets and screw heads should not be visible.

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

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

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

3.6 IMAGE

