
LAY-IN SYSTEM

I System

Modular ceiling consisting of visible lay-in profiles and removable ceiling panels optionally with integrated light modules. The DROP panels have exterior dimension of 600x600 mm, the visible ceiling area measures 585x585 mm in combination with the T15 profiles and 575x575 mm if the T24 profiles are chosen. The FLAT panels also have exterior dimensions of 600x600 mm, the visible ceiling area measures 575x575 mm.

The system provides a fire resistance of ½ hour according to NBN 713.020.

II Materials

The ceiling panels are made from 0.52mm zinc galvanised steel with a minimum 100g/m² zinc coat using the Sendzimir process. The ceiling is fully compliant with fire safety requirements, i.e. with class A1 in accordance with NEN 6065 (contribution to fire propagation) and NEN 6066 (smoke diffusion in the event of fire with construction materials), in compliance with the results in accordance with British Standard BS 476, part 7.

The Stretch panels are made from zinc galvanised expanded steel, type Q10 with an opening of 8x10 mm.

The ALPHA panels are made from 3mm thermo-molded synthetic material. These panels are fire class M2.

III Fabrication

The DROP panels have an 8 mm recess as a result of which, upon fitting a shadow joint is produced with an 8mm width and an 8mm depth.

The FLAT panels have a 2mm recess on the edges. This recess ensures a level plane transition between the tiles and the T profile, producing a smooth even ceiling as the final result.

The panels are manufactured in compliance with BS 8290 part 2 : 1991, Regulations Guide n°2 published by the 'Suspended Ceilings Association', TAIM and AFNOR NFP 68-203-1.

IV Finish

Standard, the Ceilux panels are available in metallic silver or white. Other colours and perforation patterns available on request.

The panels and finishing profiles are pre-painted, resulting in a finer coating and a higher quality degree of finish of the perforations. This also serves to ensure that the materials used are less susceptible to all manner of imprints. In addition, both the panels and the finishing profiles are covered in a foil that is easy to remove in order to prevent any damage whilst simultaneously guaranteeing a perfect finish when being fitted.

During manufacturing, colour values are measured in accordance with ISO 7724-2 and ISO 7224-3 allowing for a maximum colour deviation which is not permitted to go beyond $\Delta E=1$.

Standard, the perforated panels are fitted out with a bonded acoustic membrane.

V Perforation patterns

Perforation pattern R10: round perforation 1.5mm
mutual distance 2.5 mm
free pass-through of 6 %
non-perforated edge 10 cm

Perforation pattern R: round perforation 1.5mm
mutual distance 2.5mm
free pass-through of 11%

Perforation pattern Rd: round perforation 1.5 mm in a diagonal pattern
mutual distance 2.5 mm
free pass-through of 22 %
non-perforated edge 5 mm

Perforation pattern Q: square perforation 4 mm
mutual distance of 5 mm
free pass-through of 30 %
non-perforated edge 2.5 mm

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Stretch panel Q10: 8x10mm holes.

Optionally, these panels can be covered with an insulation mat that can be turned to face the panel by either the white or the black face.

Other perforation patterns on request.

Alpha panel: The ALPHA panels are made from 3mm thermos-molded synthetic material. Available in 3 different versions:

- H (corner panel)
- M (middle panel)
- L (side panel)

VI Suspension structure and load-bearing structure

The lay-in structure that has a 15 or 24 mm flange width, consists of a 3600mm main profile onto which a series of 600mm and 1200mm cross-sectional profile sections are joined up using a "click-in" system. The suspenders are to be put in place in observance of a maximum 1200mm interspace. The insert profiles are suspended using suspension wires. The suspension wire of 3m (Ø 4mm) can be cut and folded into the desired length.

Drop tiles are available with T15 or T24 profiles, the Flat tiles are used with T-24 profiles.

The ceiling is levelled out by way of adjusting springs.

VII Edge finishing

Wall mounts can be banded using :

- straight edge 0.8mm steel C-profiles. Optionally, the C-profile is supplied with tension springs that ensure the tile is properly pressed up against the edge banding.
- folded edge 0.8mm steel L-profiles.

All edge banding profiles are supplied in stretches of 3m length.

As the DROP tiles have an 8mm recess, due care must be taken to mount the edge profiles 8mm below the load-bearing structure. To counterbalance the difference in height between the cross-sectional profile and the edge finishing, optionally a levelling cube can be put in place.

VIII Light modules

All light modules come with a lasered tile (identical colour and fabrication) to the effect that the light fitting is in perfect keeping with the ceiling. This serves to fully integrate the lighting fixtures into the ceiling, making up one a single uninterrupted solid whole.

All light modules have been designed in compliance with European standards and 60598. The light modules are pre-cabled and provided with a GST-3 or GST-5 plug.

All light modules are mounted on the load-bearing structure by way of an adjustable overcrossing to prevent the tiles from sagging. All light modules are mounted "trimless" into the ceiling.

IX Air diffusers

The Ceilux product line offers 2 types of swirl diffusers:

Ventilo

The swirling effect is produced by 12 or 24 blades, mounted in a circular shape. Tiles come pre-mounted. The tiles allow for the climate control fittings to be integrated into the ceiling without any interfering elements. Additionally, plenums can be provide with a diameter of 160mm or 200mm.

Nozzle

The nozzle grid is provided with 36 or 64 round, adjustable diffusers in a straight pattern. Additionally, plenums can be provide with a diameter of 160mm or 200mm.

Halo

The Halo is equipped with a central adjustable circular diffuser featuring a sleek and minimalist design, integrated into a ceiling tile. The Halo is available with a connection for air ducts with a diameter of 160 or 200 mm.

Optionally, a volume control damper can be installed.

More information on our air diffusers can be provided upon simple request.

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X Installation

The ceiling is to be installed in compliance with DIN 18168.

The customer and/or fitter is to make sure that the Ceilux products are mounted and secured in the approved manner and in compliance with the seller's instructions and recommendations as shown in the specification sheet amongst other sources. The customer and/or fitter is presumed to be familiar with said specifications. If no copy was supplied, the specification sheet will be provided on first request. In case specific requirements are made with regard to mounting, fire resistance, etc... the buyer/fitter is to contact Ceilux beforehand for written technical guidelines. If the buyer/fitter fails to contact Ceilux on any such matters, Ceilux shall be absolved from all and any liability.