CLIP-IN SYSTEM

I System

Modular ceiling consisting of a suspension structure, load-bearing profile and clip-out ceiling tiles with or without shadow joint and optionally with integrated light modules. The panels are available in two sizes: 600x600mm and 300x1200mm. 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 panels are disassembled with a special clip-out release spring.
The ALPHA panels are made from 3mm thermo-molded synthetic material. These panels are fire class M2.

III Fabrication

The edges are bevelled on all 4 sides, at a 45° angle over a 5mm space, resulting in a V-groove between the tiles.
The ceiling panels with a shadow joint come with a 90° folded side face, resulting in an adjoining 7mm joint.

IV Finish

Standard, Ceilux panels are available in metallic silver or white. Different colours and perforation patterns available on demand. 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 sees to it 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 ΔE=1.
Standard, the perforated panels are fitted out with a bonded acoustic membrane.

V Perforation patterns

Perforation pattern R10:	round perforation 1.5 mm
	mutual distance 2.5 mm
	free pass-through of 6%
	non-perforated edge 100 mm
Perforation pattern R:	round perforation 1.5 mm in a straight pattern
	mutual distance 2.5 mm
	free pass-through of 11 %
	non-perforated edge 10 mm
Perforation pattern Rd:	round perforation 1.5 mm in a diagonal pattern
	mutual distance 4 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

Other perforation patterns on request.

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ALPHA panel: The ALPHA panels are made from 3mm thermo-molded synthetic material.
Available in 3 different versions: H (corner panel)
M (middle panel)
L (side panel)

Depending on the perforation pattern, each type of panel offers a different acoustic result. The panels were tested in a sound-absorption chamber in accordance with ISO standard 354-1985. Results are available for each type of perforation.

VI Suspension construction and load-bearing structure

Single suspension

The panels are mounted into the clip-in clamping profile by way of 2 by 2 pressure blocks in the side faces of the panels. This clamping profile is made from cold-rolled and zinc galvanised 0.6mm steel and comes in a 4m standard length. Profiles can be joined by way of a clamping profile joint that is to be ordered separately.
The clamping profile is suspended using the suspension set which has a hole on top and 3m length suspension wires (Ø 4mm). These wires are cut to size and folded on site to be suspended using quick-mount hangers with adjusting springs made from zinc-coated steel. The interspace between each suspension point is 1200mm maximum and is dependent on the requirements held out or applicable standards.

Double suspension

To simplify installation, you can opt for a double suspension. The primary structure is suspended using the 4m length suspension wires (Ø 4mm) and a suspension set that holds an integrated adjusting spring (art. 45038).
The clip-in clamping profile is mounted underneath the primary structure using the CeilLink bracket set (art. 45037L).
The maximum clearance between the upper structure is 1500 mm.

VII Edge finishing

The edges can be finished 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.
- 0.8mm steel C-profiles with floating overhang. This profile comes with pressure blocks that are clicked into position inside the clamping profile. On the cross-cut face, small clamping profiles are mounted onto which the special C-profile is clicked into place.

All edge banding profiles are supplied in stretches of 3m length.
- For ceiling islands it's possible to work with half Clip-in profiles for the edge finishing. Using a special bracket, these are suspended at suspension wires or they can be screwed on the adjacent ceiling (plasterboard/MDF)

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 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.

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IX Air diffusers

The Ceilux product line offers 3 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.

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 specification sheet. If no copy was supplied, the specification sheet will be provided on first request. In the event there are specific requirements regarding 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.