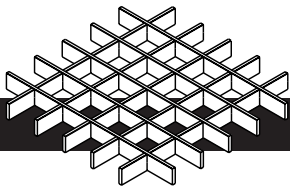
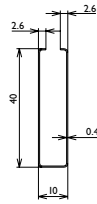
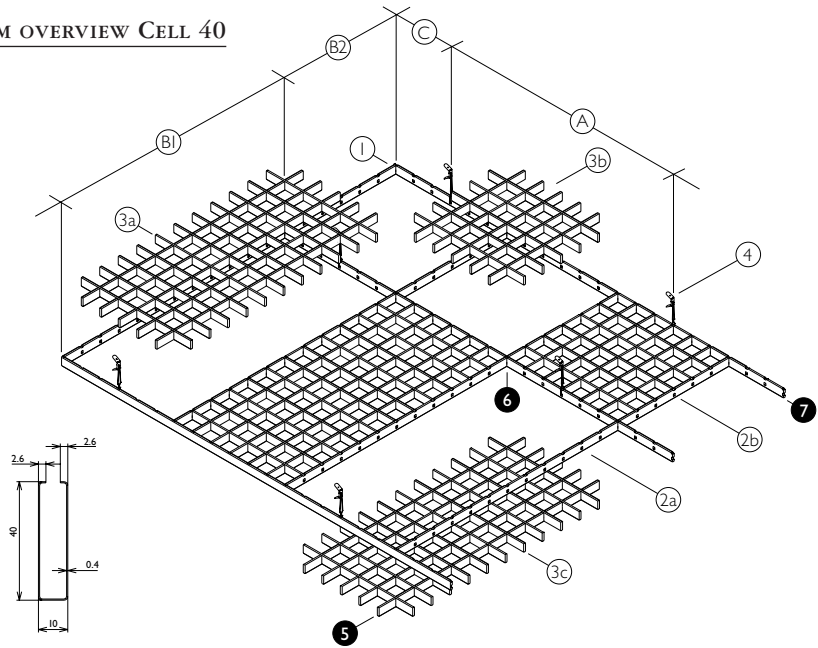


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SYSTEM OVERVIEW CELL 40



SHORT SYSTEM DESCRIPTION

Luxalon® Cell 40 Open Ceilings are assembled from aluminium U-profiles with a width of 10 mm and a height of 40 mm. This economic Cell type features an integrated suspension system, with main and cross runners made from the same profiles as the Cell Tile.

Luxalon® Cell 40 can be classified as a superior Cell Ceiling due to perfect detailing of the connecting U-profiles that are designed not to show oncoated edges. The U-profiles feature return top flanges for good rigidity and to accommodate the sliding clips. All profiles can be cut to length; sliding clips and adaptor brackets allow for standard perimeter finishing of the ceiling.

The Tile-ends can be executed for 2 different installation options;

- Tile-ends with integrated hooks that hook into the main- and cross runners from above. Access is therefore possible by moving the Cell Tile in upward direction

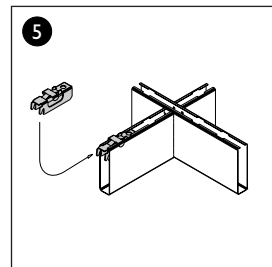
- Clean-cut tile-ends, accepting sliding-clips. This unique solution makes downward accessibility possible

The two different installation options can be combined in one ceiling.

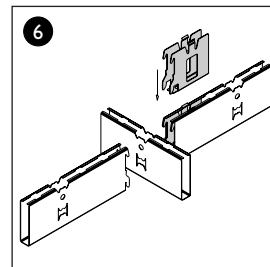
PRACTICAL APPLICATION AREAS

Luxalon® Cell 40 is used in all areas where suspended ceilings are required, but especially in situations where:

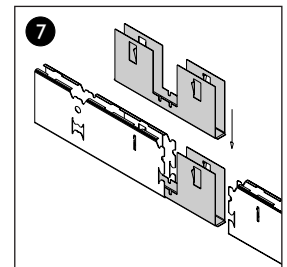
- The original room volume needs to be retained. For optimal air-conditioning or fire-safety
- The utilities in the plenum require regular maintenance and therefore easy access is needed
- The monolithic appearance of the ceiling is to be retained by installing lighting, air-conditioning grills, sprinklers or other services above the open cell. Similarly they can be integrated into the cell structure



Sliding clip

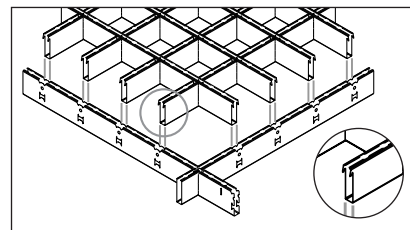


Adaptor bracket

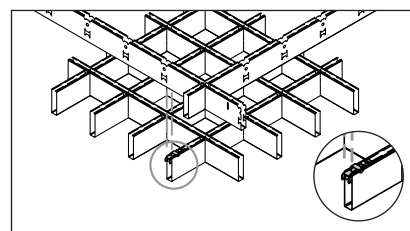


Splice

TWO INSTALLATION OPTIONS



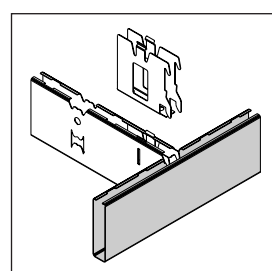
Pre-notched hooks (all around)



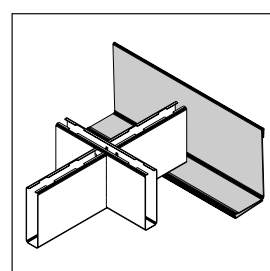
Clean-cut ends + sliding clips (4/tile)

- 1 = Main runner
- 2a = Cross runner 1200
- 2b = Cross runner 600
- 3a = Cell tile 1200 x 600 (pre-notched hooks)
- 3b = Cell tile 600 x 600 (pre-notched hooks)
- 3c = Cell tile 1200 x 600 or 600 x 600 (straight ends, for sliding clip)
- 4 = Cell hanger
- A = 1200 mm (max.)
- B1 = Tile length (standard 1200)
- B2 = Tile length (standard 600)
- C = 300 mm (max.)

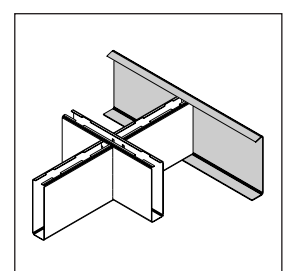
STANDARD PERIMETER OPTIONS



Half-blind runner (2400 mm)



L-edge profile (25 x 50 mm)



Cover profile (10 x 40 mm)

DIMENSIONS

Luxalon® Cell 40 sizes

Modular Tile Size	Profile height	Profile width
1200 x 600	40 mm	10 mm
600 x 600	40 mm	10 mm

MODULES, WEIGHTS AND VIEWING ANGLES

Luxalon® Cell 40

Standard modules	Kg/m ²	Viewing angle
50 x 50	3.8	44°
75 x 75	2.5	31°
86 x 86	2.2	28°
100 x 100	1.9	24°
120 x 120	1.6	20°
150 x 150	1.3	16°
200 x 200	0.9	12°

See also below graphs

Computerised production facilities provide the flexibility to produce alternative Cell modules (rectangular or square) on request. Also tiles in other sizes whilst always retaining the 10 x 40 mm profiles.

MATERIAL REQUIREMENTS PER M²

	Unit	Cell 40 Tiles 1200 x 600	Cell 40 Tiles 600 x 600
Cell 40 tiles	pcs.	1.39	2.78
Main Runners (2400)	lm	0.83	1.67
Cross Runners 1200	lm	1.67	
Cross Runners 600	lm		1.67
Sliding Clips*	pcs	5.56	11.12
Splices	pcs	0.35	0.70
Cell Hangers	pcs	0.69	1.39

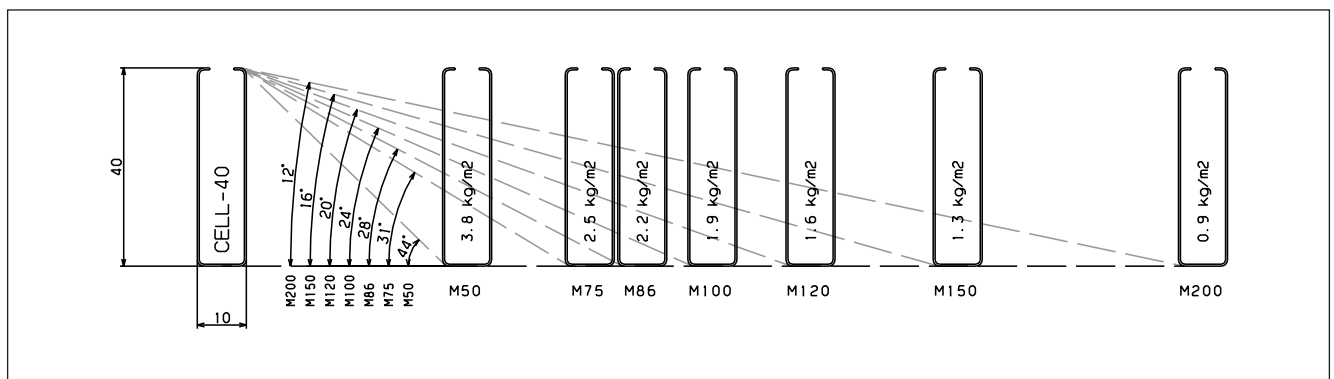
Luxalon® Edge Profiles type and quantity is subject to individual project requirements

* Only for tiles with straight ends

ACCESSIBILITY

The removal or replacement of Cell 40 tiles for maintenance is easy and straight forward. The relatively large tiles can individually be removed in either and upward or downward direction. For upward removal the integrated hook system is sufficient, however, for areas where downward removal is preferred the sliding clip alternative should be specified.

CELL 40 MODULES, WEIGHTS AND VIEWING ANGLES



FIRE BEHAVIOUR

Luxalon® metal suspended ceilings are classified incombustible and will therefore not contribute to possible fires. Luxalon® Open Cell creates a ceiling through which large amounts of air and or smoke can be extracted, a distinct advantage in escape routes where the clearest visibility is required.

MATERIAL SPECIFICATIONS

- BASE MATERIAL

Luxalon® Cell 40 is manufactured from 0.4 mm thick pre-painted stove enamelled aluminium strip, alloy AA5050 or equal (according to EN 1396, and ECCA standards).

- COATING

The tough and durable 2-layer polyester coilcoating finish in a nominal thickness of 20 microns, is applied in a continuous coil-coating process ensuring uniform coating thickness and absolute adhesion.

- STANDARD LUXALON® COLOUR RANGE

The Standard Colour Range includes two whites and a metallic silver finish, being 0280 (RAL9010), 0181 (RAL9003) and 7163 (≈RAL9006). See Luxalon® Colour Chart. Any other (Luxalon®, RAL, NCS) colour is available on request.

LUXALON® CELL 40 SPECIFICATION

PART 1. GENERAL

1.1 INTRODUCTION

Supply and fix Luxalon® Cell 40 Ceiling System as manufactured by Hunter Douglas Architectural Products.

1.2 DESCRIPTION OF THE SYSTEM

The system will consist of cell tiles integrating with a disguised suspension grid, both formed by interlocking U-shaped profiles. System to allow for easy placement and removal of the tiles.

PART 2. PRODUCT

_____ m² Luxalon® Cell 40 Ceiling to be manufactured from pre-painted, stove enamelled aluminium material, alloy AA5050 or equal (according to EN 1396 and ECCA standards), thickness 0.40 mm to achieve a cell size of _____ x _____ mm.

_____ tiles of 600 x 1200 mm _____ tiles with pre-notched hooks
_____ tiles of 600 x 600 mm _____ tiles with clean-cut ends
(accepting sliding clips).

All U-profiles to be 10 mm wide and 40 mm high and to have 2.6 mm wide return top flanges. The cross connections of all U-profiles to feature a level difference avoiding visible uncoated edges. When incorporated into the suspension grid, the tiles shall fully integrate in the the cell ceiling. U-profiles of the grid and of the tiles to be in the same colour coating quality.

Suspension grid to consist of mainrunners (2400 mm length) and cross-runners (1200/600 mm length). Rows of mainrunners are to be installed at 1200 (600) mm centres by means of _____ mm high rod hangers fixed to the mainrunners by means of Luxalon® Cell hangers, allowing for level adjustment, at a maximum distance of 1200 mm centre to centre. Crossrunners are to be clicked inbetween the mainrunners at 600 mm centres. Each Cell 40 tile is to be executed either with double pre-notched hooks at all profile-ends or to have clean-cut ends, accepting a special Luxalon® Sliding clip, for easy placement and removal of the tiles. Sliding clips to be used for all cases where direct downward tile removal is required. System to be fully modular meaning that the grid and the tiles can be cut to modular size, whereas sliding clips and adaptor brackets allow for standard finishing of the cell ceiling at pillars, lighting fixtures and at the perimeter.

PART 3. ADDITIONAL SPECIFICATIONS

3.1 PERIMETER PROFILES

- Half-blind U-shaped runners with identical dimensions and same material as the cell ceiling (10 x 40 mm), forming one integral unit with the ceiling, for floating installation
- L-profiles (25 x 50 mm) made of 0.5 mm thick aluminium, for wall-to-wall installation

- C-shaped profiles (10 x 40 mm), made of 0.6 mm thick aluminium, clipping on the edges of the cell ceiling, for floating installation with oblique angles or non-modular trimming.

All perimeter profiles to have the same colour coating quality as the Luxalon® Cell 40 Ceiling on all visually exposed sides.

3.2 COATING

Architect will make a colour selection from the standard Hunter Douglas colour range for Luxalon® Cell 40 code no. _____ or a special colour will be made to match _____.

The coating will consist of a tough and durable 2-layer polyester coilcoating finish in a thickness of 20 microns, applied in a continuous coil-coating process ensuring uniform coating and absolute adhesion.

3.3 INSTALLATION

All materials shall be installed in strict compliance with all local codes, ordinances and manufacturer's recommendations including specific additional requirements as may be called for in the specifications or shown on the drawings.

3.4 SUBSTITUTIONS

Ceiling installers wishing to submit proposals on systems other than the Luxalon® Cell 40 Ceiling System shall, at least 10 days in advance of the bid date, submit to the architect complete descriptive information of the total system concept and performance data tests made as a system. In addition include a list of similar installations of the proposed substitution. If approval is made an addendum will be issued enumerating such approved system as herein set forth.

LUXALON® CEILING SYSTEMS

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