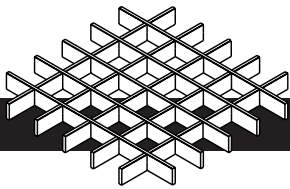


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SYSTEM OVERVIEW CELL 50

SHORT SYSTEM DESCRIPTION

Luxalon® Cell 50 and Cell 22 open ceilings are assembled from aluminium U-profiles with a width of 10 mm and a respective height of 50 and 22 mm. These Cell types feature integrated suspension systems, with main- and cross runners made from the same profiles as the Cell-Tile.

In addition, these two Cell types can be combined in one Cell ceiling. This option allows the designer to use different cell-levels in order to break the monotony of a ceiling, or clearly mark specific areas. This design-option is referred to as Luxalon® Combi-Cell

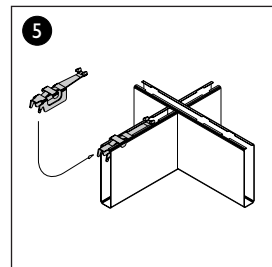
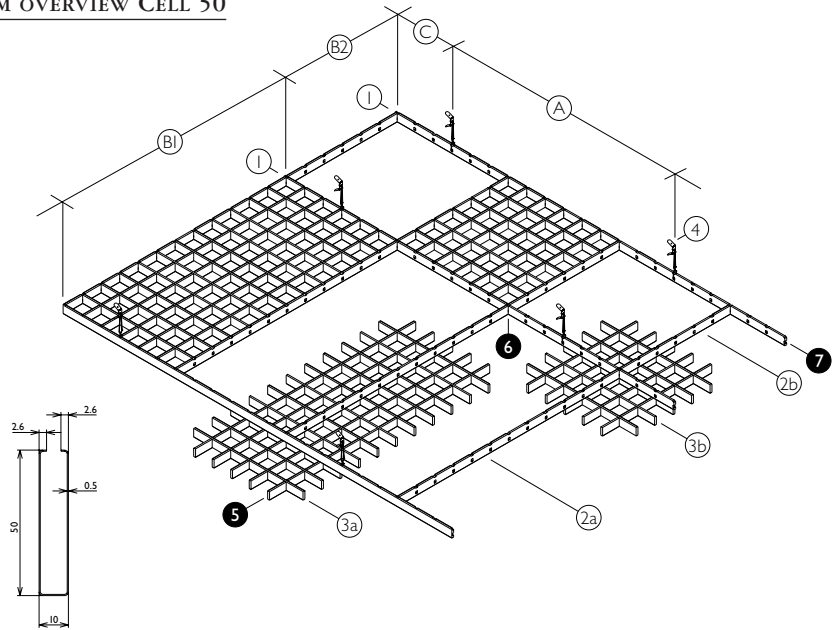
Luxalon® Cell 50 and Cell 22 can be classified as superior Cell Ceilings due to perfect detailing of the connecting U-profiles that are designed not to show uncoated edges. The U-profiles feature return top flanges for good rigidity and to accommodate the sliding clips. All profiles can be cut to length; sliding clips and adaptor brackets allow for standard perimeter finishing of the ceiling.

The Cell 50 and Cell 22 tiles are easily mounted and demounted by the use of sliding clips whilst half-blind U-profile runners, L-shaped wall profiles or cover profiles act as perimeter trims.

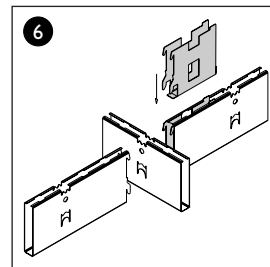
PRACTICAL APPLICATION AREAS

Luxalon® Cell 50 and Cell 22 are used in all areas where suspended ceilings are required, but especially in situations where:

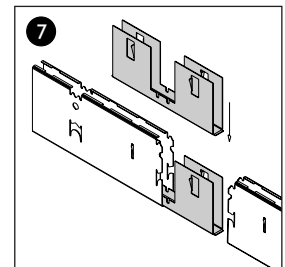
- The original room volume needs to be retained. For optimal air-conditioning or fire-safety
- The services in the plenum require regular maintenance and therefore easy access is needed
- Limited ceiling void space requires direct downward tile removal
- The monolithic appearance of the ceiling is to 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



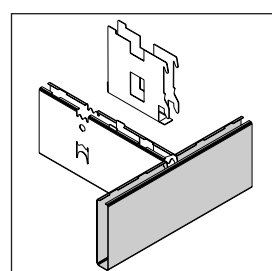
Adaptor bracket



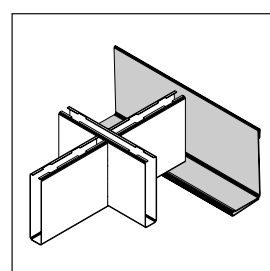
Splice

- 1 = Main runner
- 2a = Cross runner 1200
- 2b = Cross runner 600
- 3a = Cell tile 1200 x 600
- 3b = Cell tile 600 x 600
- 4 = Cell hanger
  
- A = 1200 mm (max.)
- B1 = Tile length (standard 1200)
- B2 = Tile length (standard 600)
- C = 300 mm (max.)

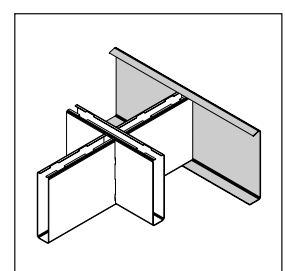
STANDARD PERIMETER OPTIONS



Half-blind runner (2400 mm)

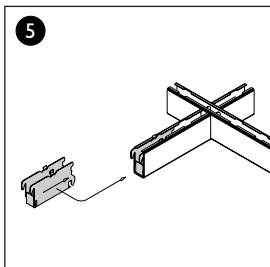
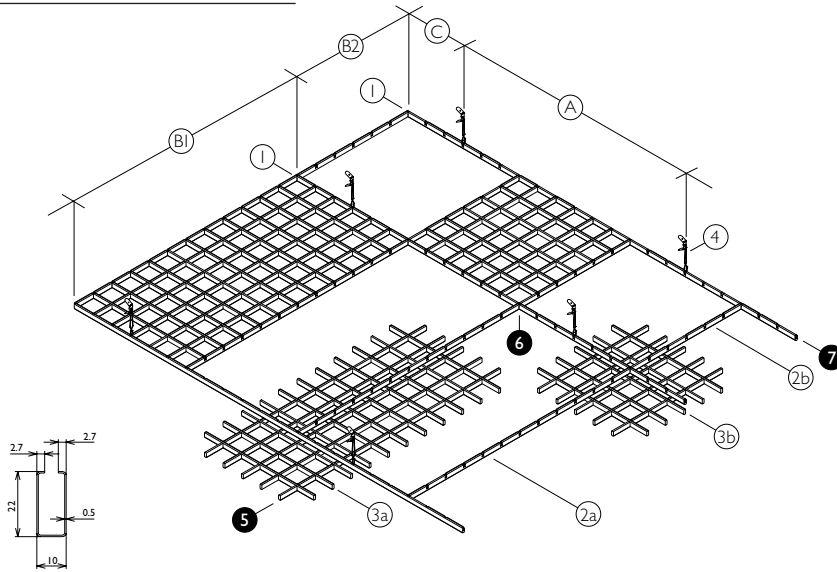


L-edge profile (25 x 50 mm)

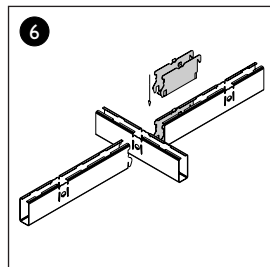


Cover profile (10 x 50 mm)

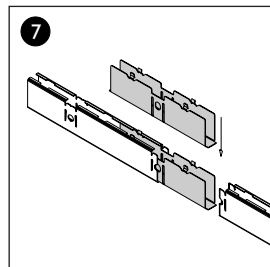
## SYSTEM OVERVIEW CELL 22



Sliding Bracket



Adaptor Bracket



Splice

- 1 = Main runner
- 2a = Cross runner 1200
- 2b = Cross runner 600
- 3a = Cell tile 1200 x 600
- 3b = Cell tile 600 x 600
- 4 = Cell hanger
  
- A = 900 mm (max.)
- B1 = Tile length (standard 1200)
- B2 = Tile length (standard 600)
- C = 300 mm (max.)

## DIMENSIONS

### Luxalon® Cell 50 sizes

Modular Tile Size	Profile height	Profile width
1200 x 600	50 mm	10 mm
600 x 600	50 mm	10 mm

### Luxalon® Cell 22 sizes

Modular Tile Size	Profile height	Profile width
1200 x 600	22 mm	10 mm
600 x 600	22 mm	10 mm

## MODULES, WEIGHTS AND VIEWING ANGLES

Standard modules	Cell 50		Cell 22	
	Kg/m <sup>2</sup>	Viewing angle	Kg/m <sup>2</sup>	Viewing angle
50 x 50	5.6	50°	2.8	28°
75 x 75	3.8	37°	1.9	18°
86 x 86	3.3	33°	1.6	16°
100 x 100	2.8	29°	1.4	14°
120 x 120	2.3	24°	1.2	11°
150 x 150	1.9	19°	0.9	9°
200 x 200	1.4	15°	0.7	7°

See also overleaf graphs

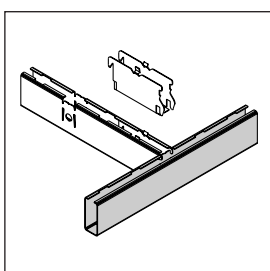
## COMBINATIONS OF TILES WITH DIFFERENT MODULES:

There are a limited number of possibilities for combining tiles with different modules in one (Combi) cell ceiling:

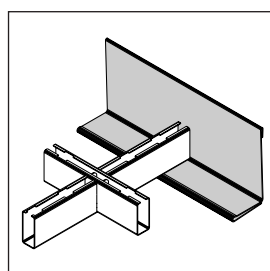
Grid with profile module	Accepts tiles with modules
100 mm	100 and 50 mm
150 mm	150, 75, 50 mm
200 mm	200, 100, 50 mm

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 mm wide profiles.

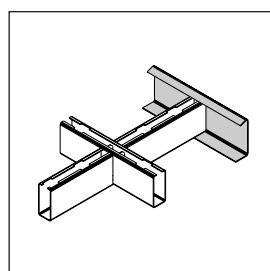
## STANDARD PERIMETER OPTIONS



Half-blind runner (2400 mm)

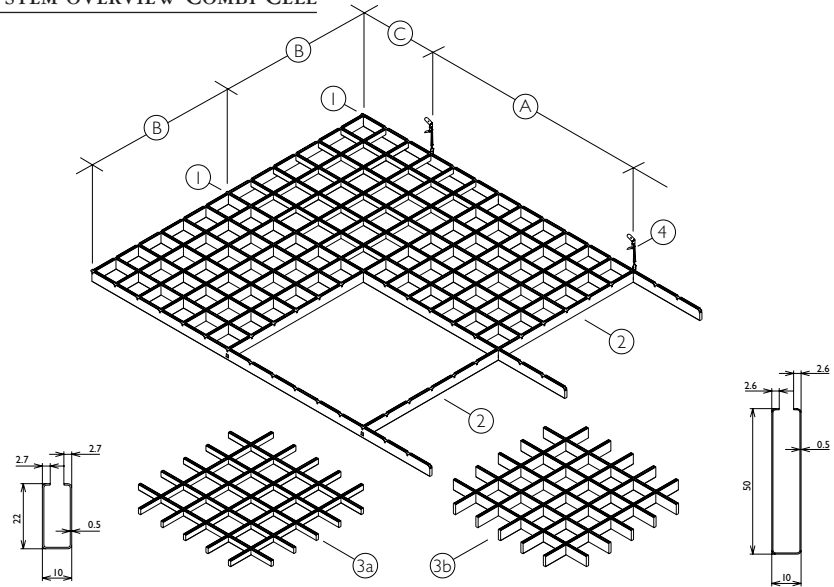


L-edge profile (25 x 50 mm)



Cover profile (10 x 22 mm)

## SYSTEM OVERVIEW COMBI CELL



### ACCESSIBILITY

Removal or replacement of Cell 50 or Cell 22 tiles for maintenance purposes is easy and straight forward. The relatively large, clean cut tiles can be individually removed in either an upward or a downward direction. The sliding clip, allowing easy and direct downward removal, offers great advantages, also providing the perfect solution in cases where space above the ceiling is limited.

### 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.

Minimum & maximum tile sizes				
		Min.	Max.	
			M50	M100
Cell 50 Tiles	length	400	1200	1500
	x	x	x	x
	width	400	1200	1500
Cell 22 Tiles	length	400	1200	1200
	x	x	x	x
	width	400	1200	1200

- 1 = Main runner (50 mm high)
- 2 = Cross runner (50 mm high)
- 3a = Cell tile 22
- 3b = Cell tile 50
- 4 = Cell hanger
  
- A = 1200 mm (max.)
- B = Tile length (standard 600 mm)
- C = 300 mm (max.)

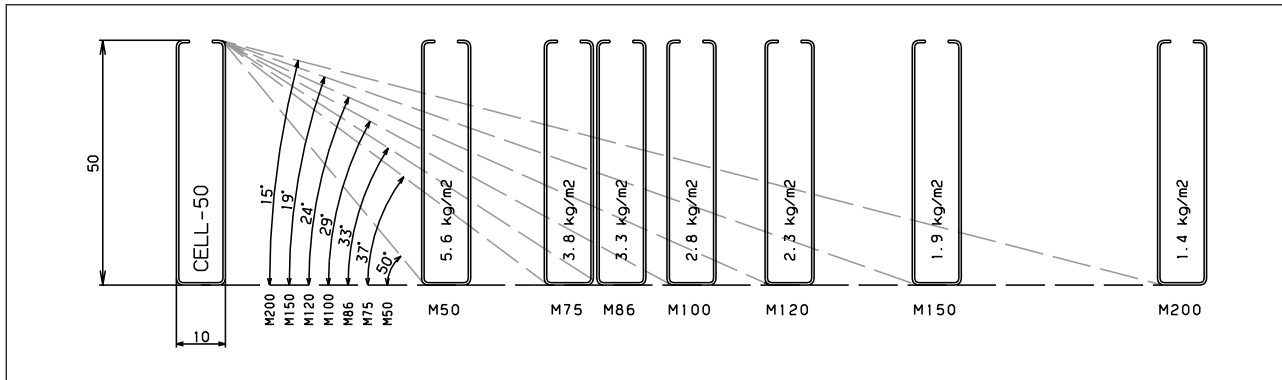
Above is an indication of the range of possible sizes. Please request your individually required sizes.

### MATERIAL REQUIREMENTS PER M<sup>2</sup>

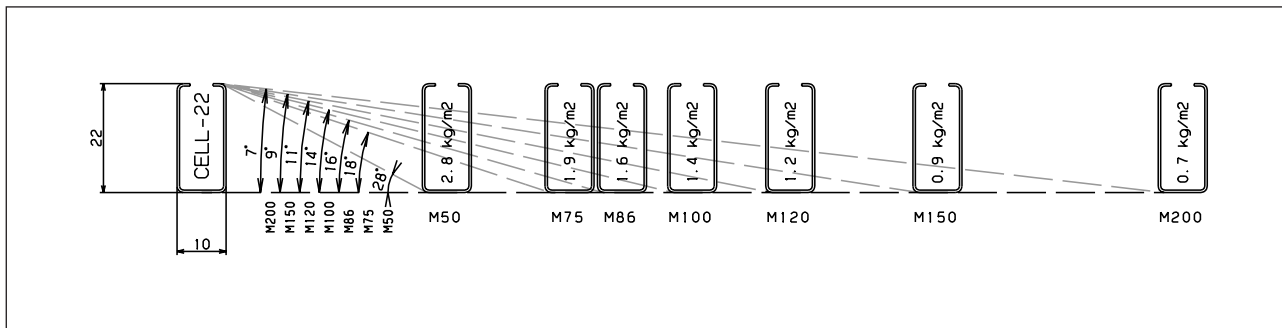
	Unit	Cell 50 Tiles 1200 x 600	Cell 50 Tiles 600 x 600	Cell 22 Tiles 1200 x 600	Cell 22 Tiles 600 x 600
Cell 50 or 22 tiles	pcs.	1.39	2.78	1.39	2.78
Main Runners (2400)	lm	0.83	1.67	0.83	1.67
Cross Runners 1200	lm	1.67		1.67	
Cross Runners 600	lm		1.67		1.67
Sliding Clips/Brackets	pcs	5.56	11.12	8.34	11.12
Splices	pcs	0.35	0.70	0.35	0.70
Cell Hangers	pcs	0.69	1.39	0.93	1.85

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

## CELL 50 MODULES AND VIEWING ANGLE GRAPH



## CELL 22 MODULES AND VIEWING ANGLE GRAPH



## MATERIAL SPECIFICATIONS

### - BASE MATERIAL

Luxalon® Cell 50 and Cell 22 are manufactured from 0.50 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 Luxalon® Colour Range includes a large choice of colours. See Luxalon® colour chart. Any other (RAL or NCS) colour is available on request.

## LUXALON® CELL 50(22) SPECIFICATION

### PART 1. GENERAL

#### 1.1 INTRODUCTION

Supply and fix Luxalon® Cell 50(22) 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

\_\_\_\_\_ m<sup>2</sup> Luxalon® Cell 50(22) Ceiling to be manufactured from pre-painted, stove enamelled aluminium material, alloy AA5050 or equal (according to EN 1396 and ECCA standards), thickness 0.50 mm to achieve a cell size of \_\_\_\_\_ x \_\_\_\_\_ mm.

\_\_\_\_\_ tiles of 600 x 1200 mm  
\_\_\_\_\_ tiles of 600 x 600 mm

All U-profiles to be 10 mm wide and 50(22) mm high and to have 2.6(2.7) 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(900) mm centre to centre. Crossrunners are to be clicked inbetween the mainrunners at 600 mm centres.

Each Cell 50(22) tile is to be executed with clean-cut ends, accepting a special Luxalon® Sliding clip, for easy placement and removal of the tiles and allowing direct downward tile removal.

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 50/22 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 50/22 mm), made of 0.5 mm thick aluminium, clipping on the edges of the cell ceiling, for floating installation with oblique angles or non-modular trimming.

#### LUXALON® CEILING SYSTEMS

Unit 7 & 8 Keys Business Park - Keys Park Road - Hednesford - WS12 5GW

Tel. (01543) 273620 - Fax (01543) 270084 - e-mail: luxalon-ceilings@hunter-douglas.co.uk - [www.luxalon.com](http://www.luxalon.com)

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All perimeter profiles to have the same colour coating quality as the Luxalon® Cell 50(22) 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 50(22) 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 50(22) 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®**  
ARCHITECTURAL PRODUCTS

