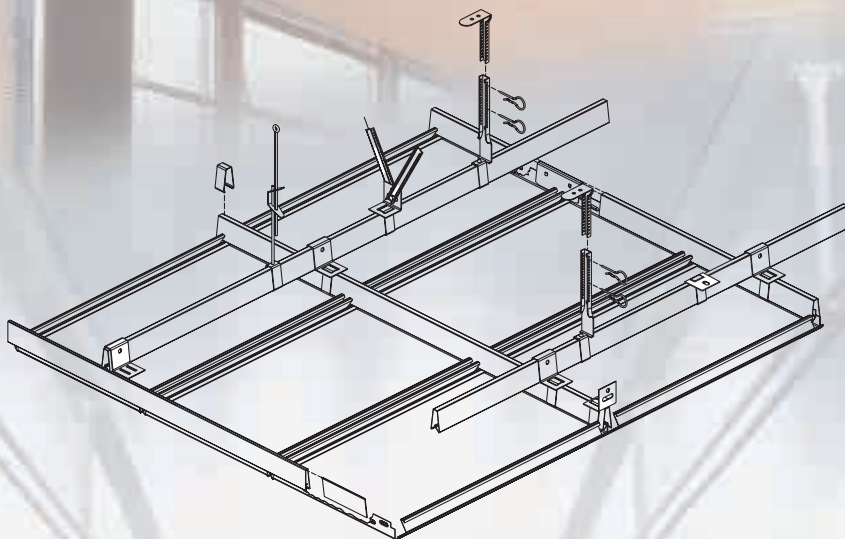


**LUXALON®**  
ARCHITECTURAL PRODUCTS

**WIDE PANEL 300C CLIP-IN SYSTEM**

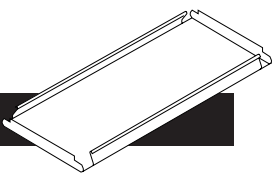


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**LUXALON®**  
A HunterDouglas® PRODUCT

## WIDE PANEL



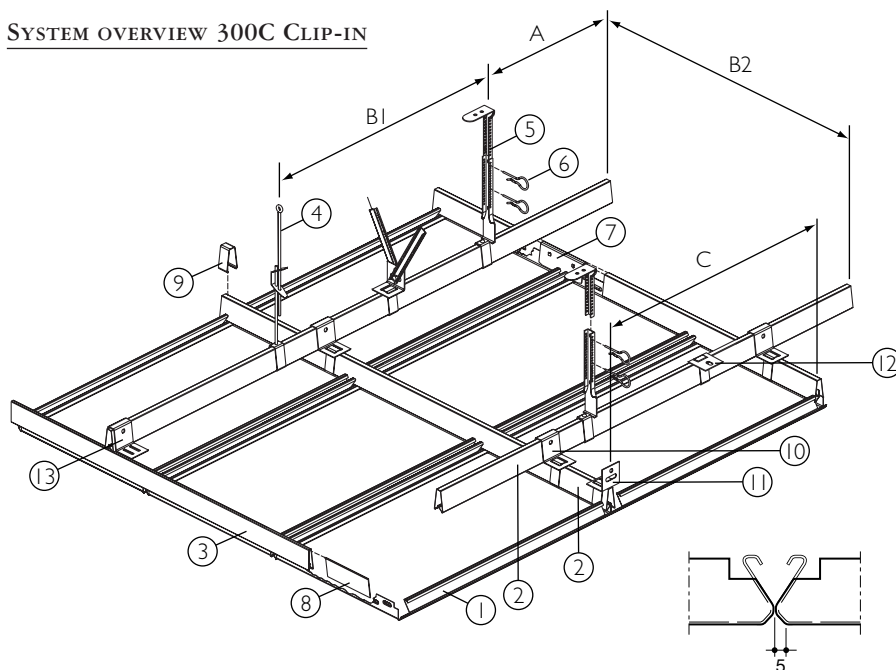
### SHORT SYSTEM DESCRIPTION

300C Clip-in panels (1) have a maximum length of 2400 mm and are produced with notches (dimple points) in the panel ends to ensure a positive lock into the Clip-in profile (2). The aluminium panels are recyclable, lightweight and strong.

The Clip-in suspension system (2) consists of a 0.5 mm thick A-shaped profile made of galvanised steel, which is used both as the upper primary support as well as the Clip-in profile support.

Luxalon® hanger systems may be used, including the rapid hanger system which allows for a quick and accurate ceiling alignment. The standard range of Luxalon® edge profiles can be used as perimeters.

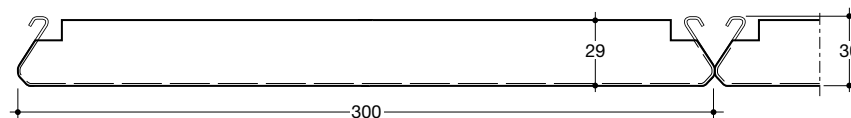
### SYSTEM OVERVIEW 300C CLIP-IN



1 = 300C clip-in panel	8 = single clip-in profile splice
2 = clip-in profile	9 = standard end clamp
3 = single clip-in profile	10 = clip-in cross connector
4 = rod hanger	11 = wall bracket
5 = nonius hanger	12 = direct wall/ceiling bracket
6 = locking clip	13 = single clip-in cross connector
7 = clip profile splice	

### PRACTICAL APPLICATIONS

- An uncluttered monolithic ceiling appearance is achieved using this concealed suspension system.
- Very rigid panel and suspension construction.
- The self levelling detail within each panel produces a smooth ceiling surface.
- The panels can be demounted by using the standard demounting tool, allowing full access to services and installations in the plenum.
- The absence of dust retention and ease of cleaning make the plain bevelled edge panels ideal for hospitals, kitchens, food preparation areas and anywhere where hygiene is important.



### MAXIMUM SPAN

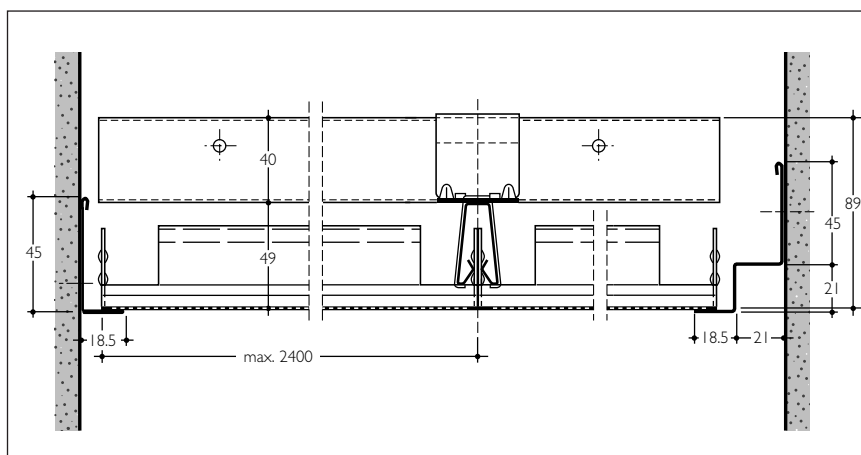
Panel type	Clip-in Profile Span			Panel Span C
	A	B1	B2	
Alu 0.7/Steel 0.6	250	1250	1200	2400

### DIMENSIONS & WEIGHTS

Panel	Width	Min. length	Max. length	Weight/m <sup>2</sup>
Alu 0.7	300	1000	2400	3.0 kg
Steel 0.6				6.5 kg

*Panels from 600-1000 mm are available on request.*

### STANDARD CONSTRUCTION DETAILS



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

Requirements are based on using panels with a length of 2400 mm.

	Unit	300C Clip-in system
Panels	lm	3.33
Primary grid	lm	0.42
Secondary grid	lm	0.83
Clip-in profile connector	pcs	0.35
Clip-in profile splice	pcs	0.25
Suspension	pcs	0.67

Edge profiles and other accessories depend on individual project requirements.

## PLENUM ACCESSIBILITY

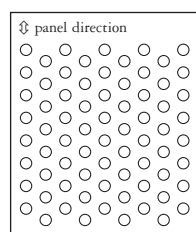
The 300C Clip-in System allows for easy demounting of the panels. The panels can be simply removed by using a standard demounting tool.

## ACOUSTIC PERFORMANCE

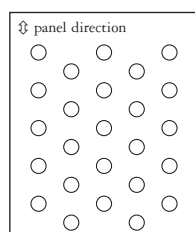
In order to improve interior sound control, the Luxalon® 300C Wide Panel Ceiling panels can be supplied perforated with an open area of 15% and 23%. The panels have a plain border of 8.5 mm along the longitudinal panel direction in order to assure maximum flatness and product stability. As a standard feature, perforated panels can be supplied with a soundabsorbing non-woven tissue glued into the panel for enhanced acoustical performance.

### - PERFORATION OPTIONS

300C panels are available in 2 standard perforation patterns:

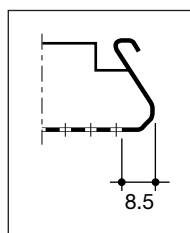


Ø 1.5 mm  
23% open area  
Δ 3 mm



Ø 2.0 mm  
15% open area  
Δ 5 mm

*Note: Panels have a nominal plain border of 8.5 mm along the longitudinal panel direction in order to assure maximum flatness and product stability.*



## MATERIAL SPECIFICATIONS

### - BASE MATERIAL

Luxalon® 300C panels are rollformed from 0.7 mm thick pre-painted stove enamelled aluminium strip or from 0.6 mm thick stove enamelled galvanised steel strip.

### - COATING

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

### - LUXALON® COLOUR RANGE

The standard Luxalon® colour range for 300C includes several different colours and finishes. See Luxalon® colour chart. Any other (RAL or NCS) colour is available on request.

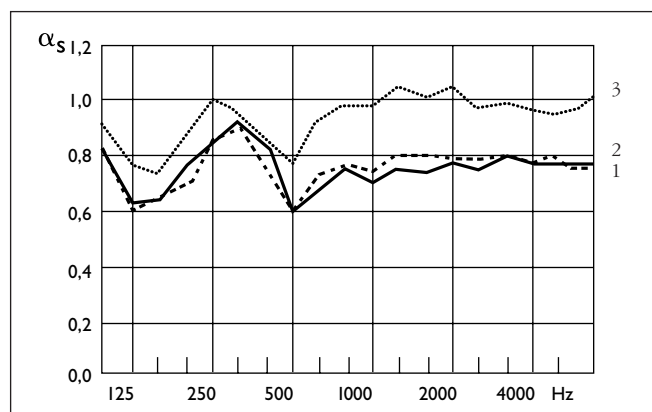
### - TOLERANCES

As a member of the Technical Association of Industrial Metal Ceiling Manufacturers (TAIM), Hunter Douglas complies with tolerance criteria as specified in chapter 4 of the TAIM Quality standards for metal.

### - FIRE BEHAVIOUR

Suspended Luxalon® metal ceilings are classified incombustible, have a class O spread of flame rating and will therefore not contribute to possible fires. However, if necessary Luxalon® ceilings offer a wide range of practical solutions with regards to fire resistance and fire stability. Further information is available on request.

## - SOUND ABSORPTION DATA



$\alpha_s$  = soundabsorption degree:  
an absorption of 1.0 indicates a 100% absorption of sound.

Freq. Hz.	125	250	500	1000	2000	4000
Curve 1	0.61	0.85	0.59	0.75	0.78	0.76
Curve 2	0.62	0.82	0.60	0.70	0.78	0.77
Curve 3	0.76	0.99	0.75	0.97	1.05	0.95

### - CURVE 1 (Ø 2.0 MM)

2.0 mm perforated 300C panels, provided with 0.2 mm thick, black non-woven acoustic tissue glued over the whole perforated area. Plenum depth is 400 mm.

### - CURVE 2 (Ø 1.5 MM)

Ø 1.5 mm perforated 300C panels, provided with 0.2 mm thick, black non-woven acoustic tissue glued over the whole perforated area. Plenum depth is 400 mm.

### - CURVE 3 (Ø 1.5 MM)

Ø 1.5 mm perforated 300C panels, provided with 0.2 mm thick, black non-woven acoustic tissue glued over the whole perforated area plus 25 mm thick mineral wool pad with a density of 16 kg/m<sup>3</sup>. Plenum depth is 400 mm.

These 300C Wide Panel ceilings were tested by TNO Delft (The Netherlands), an independent official testing institute. Report no.: TPD-HAG-RPT-94-0037.



## LUXALON® WIDE PANEL 300C CLIP-IN SYSTEM SPECIFICATION

### PART 1. CLIP-IN SYSTEM GENERAL

#### 1.1 INTRODUCTION

Supply and fix Luxalon® 300C Wide Panel Clip-in System as manufactured by Hunter Douglas Architectural Products.

#### 1.2 DESCRIPTION OF THE SYSTEM

The system will consist of panels fixed to an adjustable suspension system which allows removable panels to clip in place. The panel ends to be raised and executed with dimple points to ensure positive engagement into the clip-in profiles.

### PART 2. PRODUCT

\_\_\_\_\_ m<sup>2</sup> Luxalon® 300C Wide Panel Clip-in Ceiling consisting of:

#### 2.1 PANELS:

Panels to be rollformed from 0.7 mm thick stove enamelled aluminium strip/0.6 mm thick stove enamelled galvanised steel strip, plain/perforated with/without non-woven acoustic textile. The 29 mm high upstands at the panel ends to give enhanced rigidity. The 300 mm wide panels to feature 5 mm bevelled edges to form visually closed V-groove joints.

Panels to be manufactured from prepainted, stove enamelled, alloy EN-AW-3005 or equivalent (according to EN 1396 and ECCA).

Panels to have a length of \_\_\_\_\_ mm (manufacturer availability 1000-2400 mm and on request 250-1000 mm).

#### 2.2 SUSPENSION

Rows of 0.5 mm galvanised steel Clip-in profile primary support shall be installed at \_\_\_\_\_ centre on centre by means of threaded steel rods, nonius hangers or hangers fixed to the upper structure at a distance of \_\_\_\_\_ centre on centre. Secondary grid will be fixed on both ends to prevent upward movements. Clip-in profiles shall be connected to the primary grid by means of the cross connector.

### PART 3. ADDITIONAL SPECIFICATIONS

#### 3.1 PERIMETER PROFILES

- Wall L-profile, 29.2 x 19.4 mm made of 0.5 mm thick aluminium
- Wall L-profile, 45 x 18.5 mm made of 0.8 mm thick steel/ aluminium
- Wall W-profile, 45 x 21 x 21 x 18.5 mm made of 0.8 mm thick steel/ aluminium

#### 3.2 PERFORATIONS

Manufacturer shall supply 300C Clip-in panels with following perforation specifications:

- Ø 1.5 mm, Δ 3 mm, open area 23%
- Ø 2.0 mm, Δ 5 mm, open area 15%

Perforated panels to have a nominal plain border of 8.5 mm along the longitudinal panel direction to assure maximum flatness and product stability.

#### 3.3 ACOUSTICS

Manufacturer shall supply acoustic non-woven tissue, thickness 0.2 mm and factory applied inside the panels. Alternatively the installer can place individual, wrapped mineral wool pads.

#### 3.4 COATING

Architect will make a colour selection from the standard Hunter Douglas colour range for Luxalon® 300C Wide panels code no. \_\_\_\_\_ or a special colour will be made to match.

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

#### 3.5 INSTALLATION

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

#### 3.6 SUBSTITUTIONS

Ceiling installers wishing to submit proposals on systems other than the Luxalon® 300C Wide Panel System shall, at least 20 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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