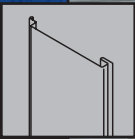


150F - 200F FAÇADE

LUXALON



www.luxalon.com

LUXALON®

Façade Systems

A HunterDouglas® PRODUCT

Short system description

The Luxalon® 150F/200F Façade System consists of 150 mm and 200 mm wide rollformed panels (1), which can simply be slid into the prongs of a 150F or a 200F stringer (2). The stove enamelled aluminium panels are recyclable, lightweight and strong. The panels are made to measure and can be supplied in any length from 800 up to 6000 mm (other lengths are available on request). Panels can be joined by using the panel splice (3) or by using the Luxalon® horizontal joint extrusion (see standard details).

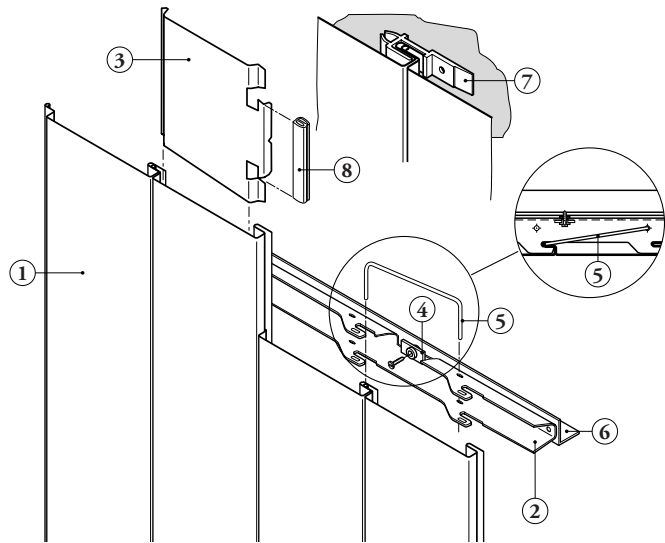
The stringer (2) is black, made of 0.95 mm thick (150F) or 1.2 mm thick (200F) stove enamelled aluminium and is provided with prongs to accommodate the panels. Stringers have a standard length of 5000 mm.



Practical applications

- The neat closed joints present a smooth uninterrupted appearance.
- The façades have a concealed fixing system.
- Panel length made to measure from 800 up to 6000 mm, allowing for swift installation and reducing the need for joining the panels to a minimum.
- Panels can be additionally secured to the stringer by using U-brackets (5), providing a very rigid system, able to withstand the most severe conditions of water and wind (over 2000 N/m²).
- Panels are made from a corrosion resistant aluminium alloy.
- The Luxacote® coating combined with aluminium of the highest category for corrosion resistance guarantees:
 - Colour and gloss stability;
 - High scratch resistance;
 - High corrosion resistance.
- For installations requiring combinations of 150F and 200F panels a screw clamp (7) is available.
- Curved façades can be achieved by using screw clamps (7).
- Façades are based on a ventilating principle providing optimum control of building physics.

150F/200F Façade System Overview



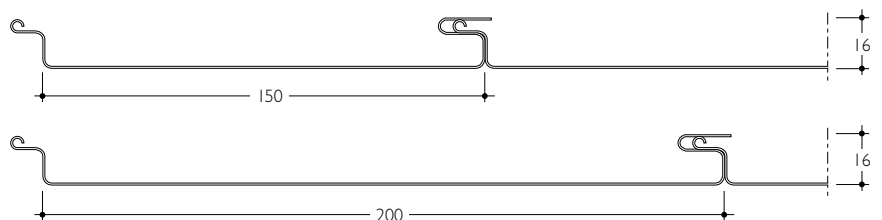
1 = 150F/200F panel	5 = U-bracket*
2 = 150F/200F stringer	6 = non-Luxalon® sub-construction
3 = panel splice	7 = screw-clamp
4 = washer set	8 = sealing piece

* Only used in case of extreme windloads

Note: 150F/200F panels can be installed horizontally, vertically or diagonally depending on desired directional emphasis.

Exterior ceiling application

The Luxalon® 150F/200F Façade System can also be used as an exterior ceiling. See separate brochure for further details.



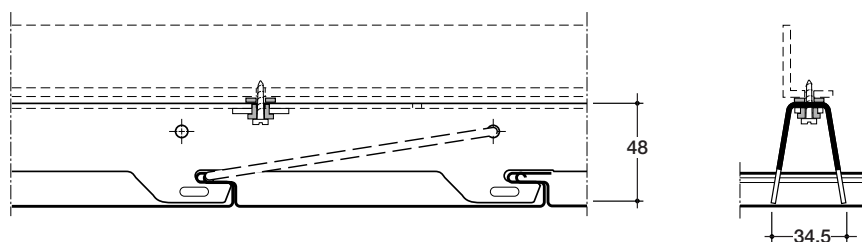


Dimensions & Weights

Panel	Width	Module	Min. Length	Max. Length	Weight panels & stringer/m ² *
150F	150	150	800	6000	2.8 kg
200F	200	200	800	6000	3.1 kg

* Based on panels installed on 3 or more stringers with a windload (pressure) of 1500 N/m².

Standard construction details



Material requirements per m²

	Unit	150F system	200F system
Panels	lm	6.67	5.00
Stringers	lm	1.54	1.92
Screws	pcs	4.16	4.80
Washer sets	pcs	4.16	4.80

The required number of components depends on individual project requirements. Figures are based on a façade installed on 3 or more stringers and submitted to a windload (pressure) of 1500 N/m².

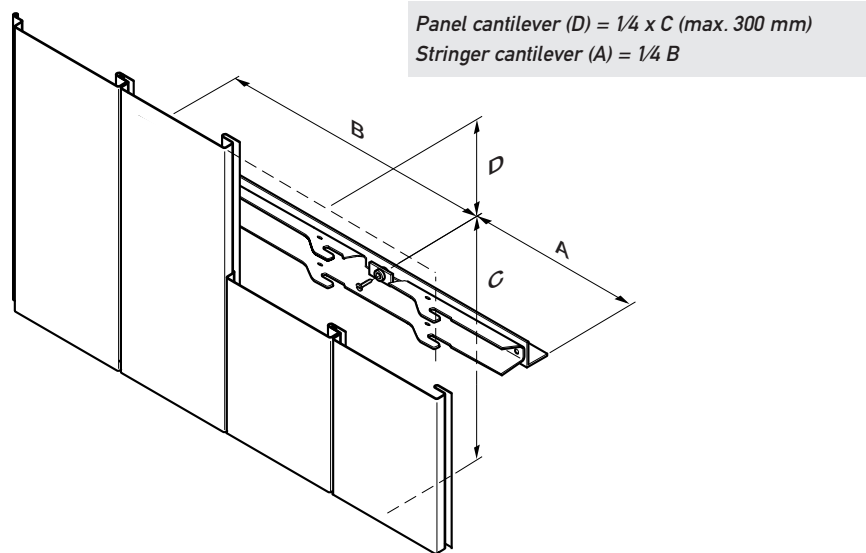
Maximum spans

- Stringer span (B)

Before establishing the fixing distance of the stringers, the load per lineal meter stringer is to be determined by applying the formula in the following table.

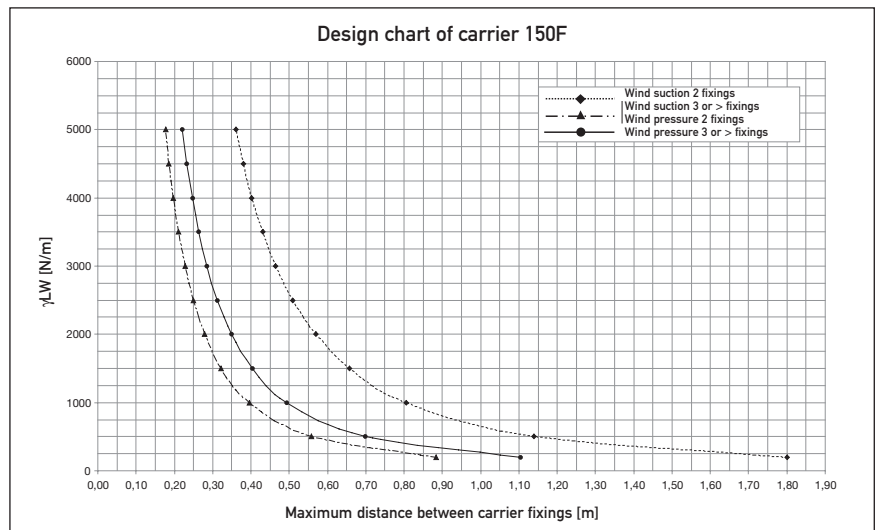
Panels installed on:	Calculation of 'load per lineal meter stringer'
2 stringers	$0.5 \times q \times l$
3 stringers	$1.25 \times q \times l$
4 or more stringers	$1.15 \times q \times l$

q = windload in N/m^2 (uniformly distributed loads)
 l = panelspan (c) in m

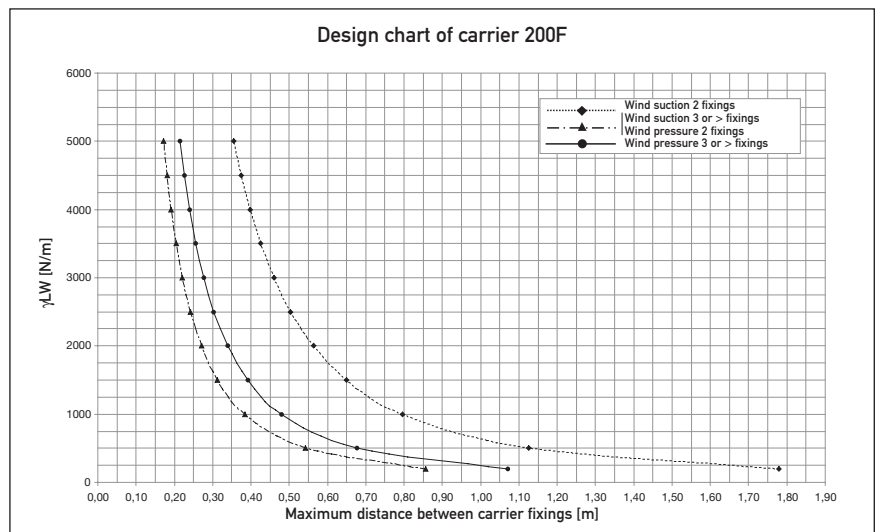


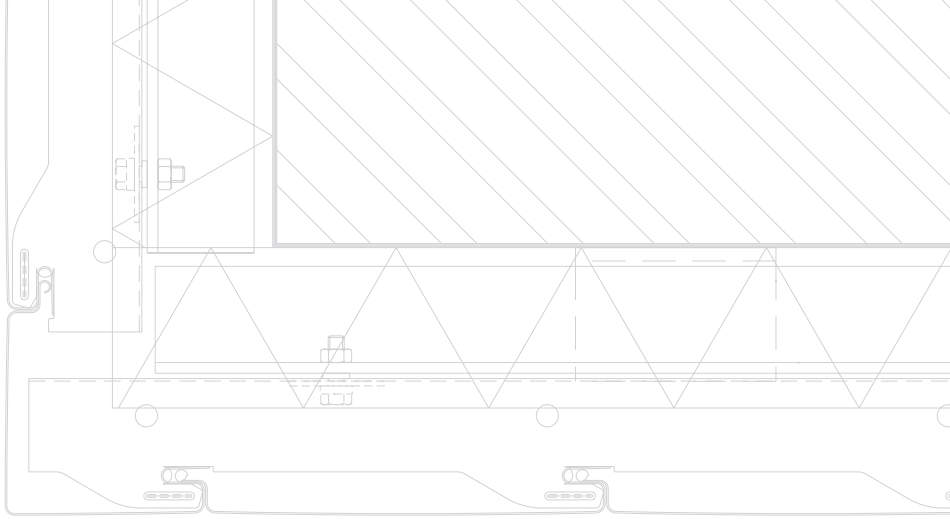
The stringer span (screw distance) (B) can be read from the graph below in the same way as the panel span.

Following the example:
 $Q = 1.15 \times 1500 \times 0.65 = 1121 \text{ N/m}$.
 Giving a fixing distance of 0.37 m.



Following the example:
 $Q = 1.15 \times 1500 \times 0.52 = 897 \text{ N/m}$.
 Giving a fixing distance of 0.4 m.

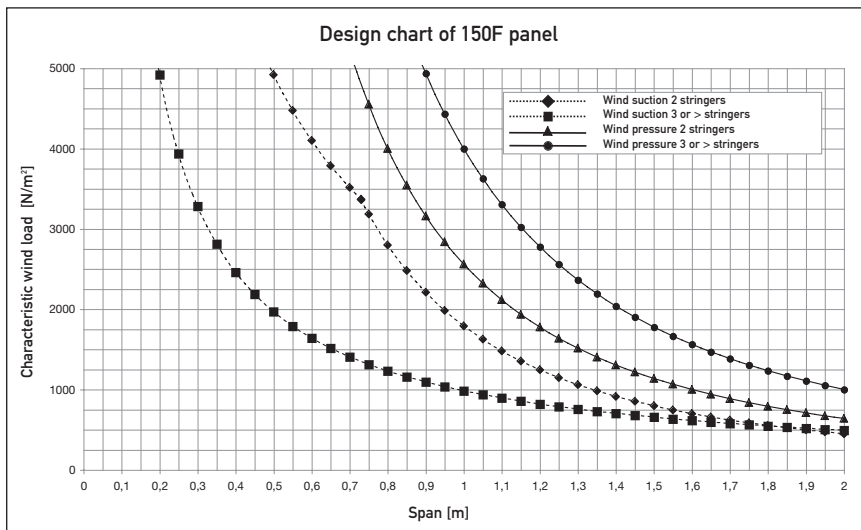




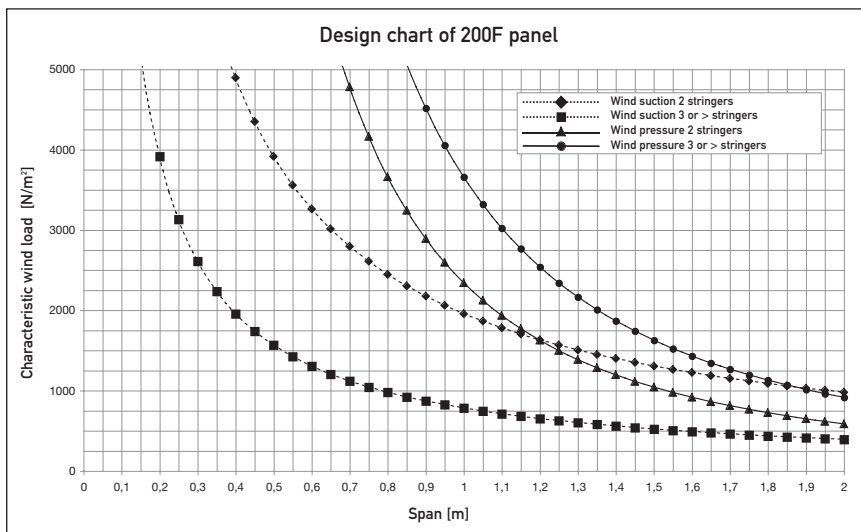
- Panel span (C)

The panel spans, in relation to the wind load (pressure or suction), can be calculated from the graph below.

At 1500 N/m² the maximum panel span for 150F is 0.65 m and for 200F it is 0.52 m on 3 or more stringers (windsuction).

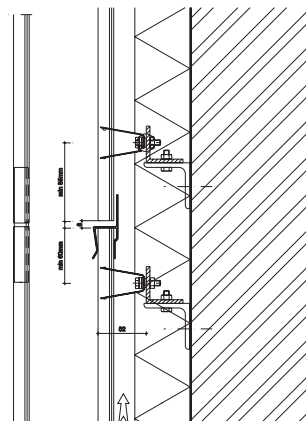
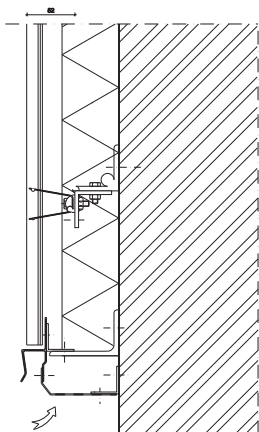
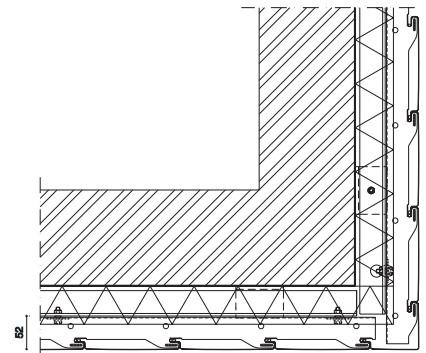
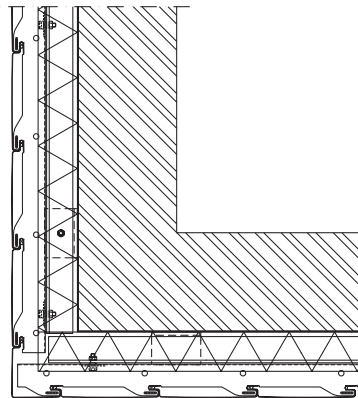
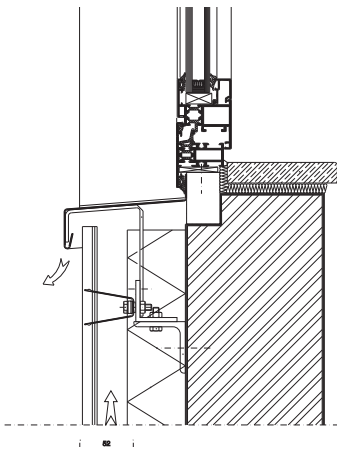
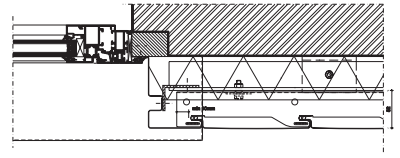
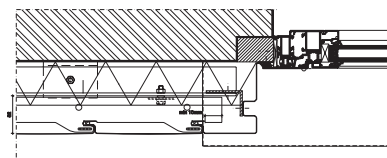
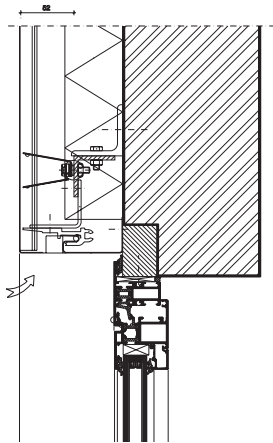
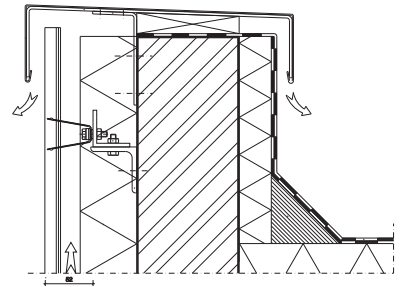


Following the example:
 $Q = 1,15 \times 1500 \times 0,52 = 897 \text{ N/m}^2$.
 Giving a fixing distance of 0.4 m.



Façade System 150F/200F

- Closed, smooth appearance
- Concealed fixing system
- Shingle-system connected panels
- Special aluminium and Luxacote® finish for corrosion and UV-resistance
- Panels 150 or 200 mm wide
- Light-weight aluminium components
- Also used as exterior ceiling system



A wide range of system solutions is available on CD-rom.

Luxalon® 150F/200F Façade System

Part 1. 150F/200F Façade System general

1.1 Introduction

Supply and fix Luxalon® 150F/200F Façade System as manufactured by Hunter Douglas Architectural Products.

1.2 Description of the system

The system will consist of linear rollformed aluminium panels, which can simply be slid into the prongs of a stringer. The stringers are fixed on a non-Luxalon® sub-construction. To prevent contact corrosion by applying dissimilar metals, each fixing of the stringers to the sub-construction must be made through the Luxalon® washer set.

Part 2. Product

_____ m² Luxalon® 150F/200F Façade System consisting of:

2.1 Panels

150F: size 170 x 17 mm manufactured from 0.6 mm aluminium
200F: size 200 x 17 mm manufactured from 0.7 mm aluminium

Panels to be manufactured from pre-painted, stove enamelled aluminium, corrosion resistant alloy EN-AW-3005 or equivalent (according to EN 1396 and EN13523). Panels have a length of _____ mm (manufacturer availability 800-6000 mm, other lengths are available on request). Panels to be coupled in longitudinal direction by means of panel splices or by means of the Luxalon® horizontal joint extrusion.

2.2 Stringers

Rows of 0.95 mm (150F) or 1.2 mm (200F) thick aluminium rollformed stringers shall be installed at _____ mm centre to centre on a sub-construction consisting of a supporting steel or aluminium framing of sufficient strength and rigidity to provide resistance to wind-pressure/suction. Stringers are provided with prongs to hold panels in a module of 150 mm (150F) or 200 mm (200F).

Part 3. Additional specification

3.1 Profiles

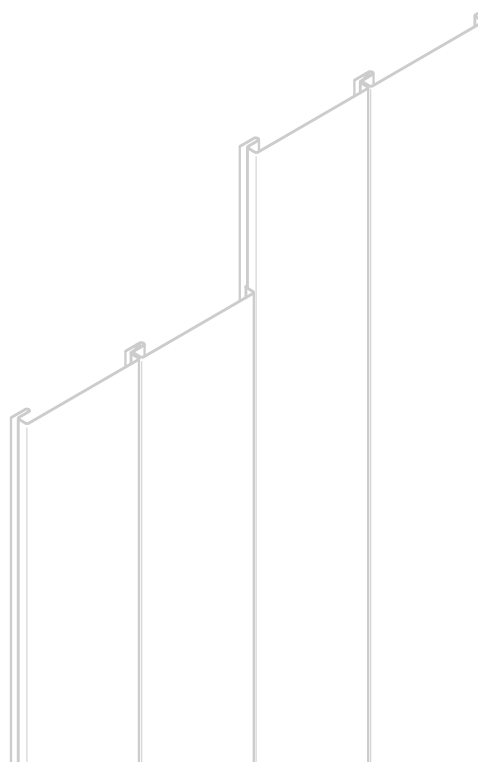
Edge, trims drip sections, capping etc. made of stove enamelled aluminium strip, with Luxacote® paint finish (± 30 micron).

3.2 Coating

Architect will make a colour selection from the standard Hunter Douglas colour range for Luxalon® exterior 150F/200F panels code no. _____ or a special colour will be made to match.

3.3 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.



LUXALON®



Material specifications

- Base material

The Luxalon® 150F/200F panels are rollformed from 0.6 mm (150F) and 0.7 mm (200F) thick pre-painted stove enamelled aluminium strip. In order to reach the optimal durability level, Hunter Douglas utilises highly corrosion resistant alloy types as EN-AW-3005 or equivalent. All aluminium products can be recycled for the full 100% requiring very little energy.

- Coating

The Luxacote® patented system is applied in a coil coating process. The continuous process allows Hunter Douglas to coat aluminium coil with a 3-layered system in a very efficient way:

- The Anorcoat is the key to the excellent performance of the Luxacote® system. It is thicker and more protective than conventional conversion layers. It anchors the paint to the metal surface and protects it from corrosion.
- The Colour Coating is based on polyurethane and does not contain chlorides, fluorides or halogens. Only highly colour-stable pigments are used to assure optimal colourfastness.
- The transparent Topcoat is a fully integrated polyamide skin that gives the Luxacote® system a highly scratch and wear resistant surface. It also provides extra durability of colour and gloss.

HunterDouglas®

Hunter Douglas is the world market leader in window covering and a major manufacturer of Architectural Products. The group, which origin goes back to 1919, is comprised over 150 companies with manufacturing and assembly organizations in more than 100 countries.

HUNTER DOUGLAS EUROPE B.V.

2, Piekstraat - P.O. Box 5072 - 3008 AB Rotterdam - Tel. 010-4869911 - Fax 010-4847910 - www.luxalon.com

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- Colour range

The standard Luxalon® colour range for 150F/200F Façade Systems includes different colours and finishes. Please refer to the Luxalon® exterior colour chart. Any other colour (RAL or NCS) is available on request.



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F A C A D E S Y S T E M S