



HORIZON[®]

FAÇADE PANELS



INSPIRATION TO BUILD BETTER

INTRODUCING THE

LYSAGHT HORIZON[®]

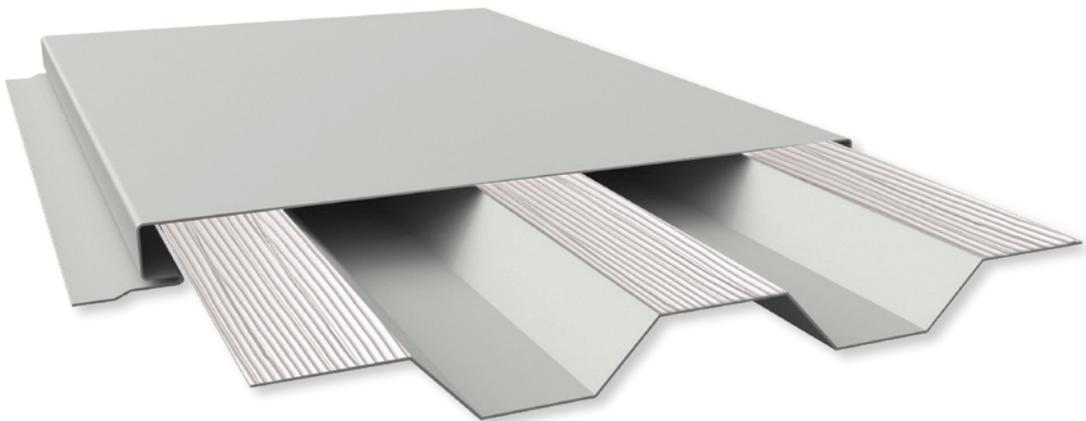
FAÇADE PANEL

At Lysaght, we harness the strength of steel to produce an array of stylish roofing and walling products, giving form to the designers' imagination and breathing life into their creative vision.

As part of our dedication to inspire to build better, Lysaght introduces the HORIZON[®] Façade Panel.

HORIZON[®] façade panels feature a flat front face and an expressed jointing system, combined with the additional benefit of a factory adhered stiffener to deliver a wide, smooth and sturdy panel look.

Suitable for external and internal walling applications, including parapets and blades, HORIZON[®] is the ideal solution where a long linear façade aesthetic is desired.



THE HORIZON® FAÇADE

SYSTEM ADVANTAGE

GAINS FOR EVERY PROJECT:

The addition of an engineered stiffener to the HORIZON® panel delivers compelling benefits for projects requiring a high performance, strong and lightweight walling solution, including:

- Improved flatness for the visible face of the façade panel
- The trapezoidal profile of the stiffener allows for ventilation behind the panel
- Increased spanning capacity reduces subframe requirements
- The ability to choose from the complete range of COLORBOND® steel colours and finishes

The HORIZON® panel meets the requirements of NCC 2022, Volume 1 C2D10 (6) (e) - Pre-finished metal sheeting having a combustible surface finish not exceeding 1mm thickness and where Spread-of-Flame index of the product is not greater than 0. The product has been tested to AS/NZS 1530.3 (CSIRO Report No: FNE2929C) and achieved a Spread of Flame Index of 0. In addition, the adhesive used for the stiffener has been designed to meet the requirements of NCC 2022 Volume 1 C2D10(4) (p) - Adhesives, including tapes, associated with stiffeners for cladding systems.

BUILD BETTER:

Installing HORIZON® is quick and easy, enabling projects to reach the important lock-up stage faster:

- Lightweight panels are structurally sound, making them easy to handle onsite
- HORIZON® panels are rollformed, providing consistency and accuracy across the project
- Fast installation thanks to cut-to-length panels, each with a large cover area
- Panels may be readily cut onsite to facilitate raked gable ends or penetrations
- Readily installed from mobile equipment, saving onsite costs and congestion by avoiding the need for scaffolding

EXPANDING DESIGN POSSIBILITIES:

With HORIZON® you can achieve on-trend, broad, flat areas in your building designs via a range of features not readily available with other façade materials:

- Achieve joint-free, long clean lines with custom lengths to suit any project
- A wider and flatter aesthetic than comparable rollformed façade panel products
- Suitable as a complete walling solution or as a feature wall
- Customisable panel widths and lengths that can be installed in horizontal, vertical or diagonal orientations, to create a unique overall appearance

PEACE OF MIND:

Building owners and occupiers also reap benefits thanks to the advantages offered by the material properties, low maintenance requirements and long life of a HORIZON® façade:

- HORIZON® panels are non-combustible, making them a suitable façade solution for many building types, including residential detached and mid-rise buildings, and low rise commercial and industrial buildings
- Shaped by Lysaght from COLORBOND® steel – designed and tested for Australian conditions
- Backed by material warranties from BlueScope, subject to application and assessment
- Does not require painting, and areas unwashed by rain only require an occasional wash down

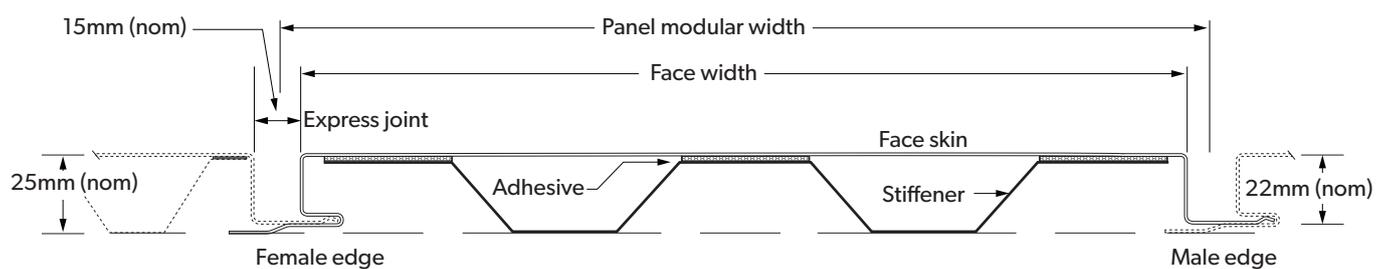
THE HORIZON® FAÇADE

PANEL DETAILS

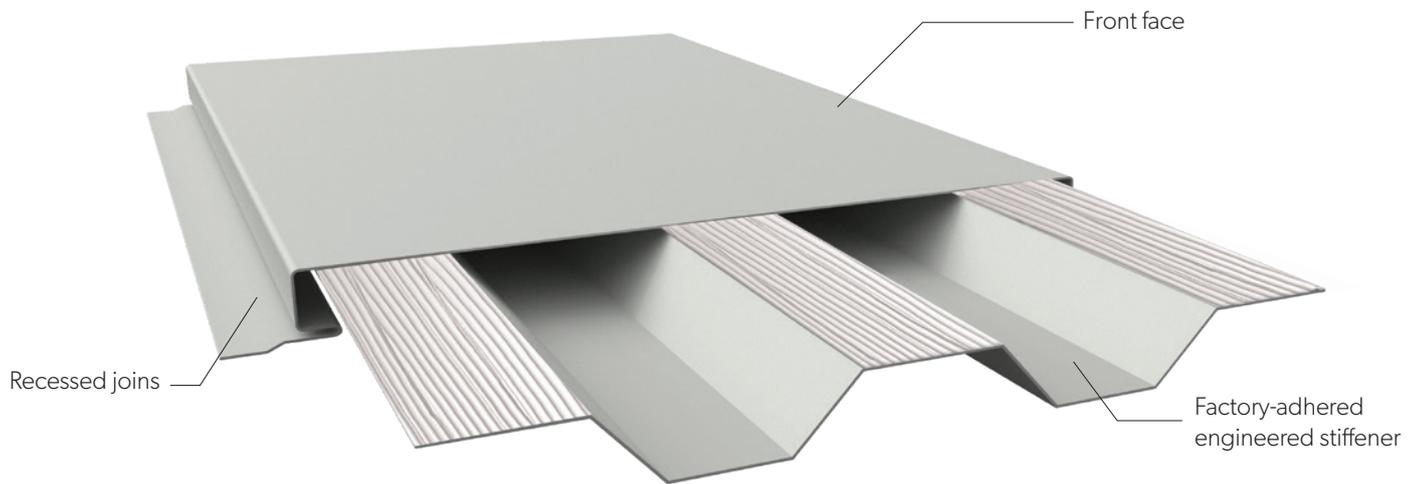
The HORIZON® façade panel is available in a range of standard panel sizes. Custom panel sizes may be available on enquiry. Panels are manufactured with closed ends as a standard feature.

Panel	Panel modular width (mm)	Panel face width (mm)	Panel height (mm)	Nominal express joint (mm)
HORIZON® 285 panel	300	285	25	15
HORIZON® 485 panel	500	485	25	15
HORIZON® 585 panel	600	585	25	15

SCHEMATIC



SCHEMATIC



END VIEW

Closed ends are the standard feature. Panels with 'open' ends can be manufactured on enquiry.



DESIGN

MATERIAL SPECIFICATIONS

The face skin of HORIZON® panels are shaped by Lysaght from COLORBOND® pre-painted steel.

- The pre-painted finish complies with AS/NZS 2728.
- The steel base is an aluminium/zinc/magnesium alloy coated steel complying with AS 1397.
- The alloy coating is a minimum coating mass is AM100 (100g/m²) and for COLORBOND® Ultra steel the minimum coating mass is AM150 (150g/m²).

The backing skin of HORIZON® panels are shaped from Next Generation ZINCALUME® steel.

- The steel base is an aluminium/zinc/magnesium alloy coated steel complying with AS 1397.
- The alloy coating has a minimum coating mass of AM125 (125g/m²).

Panel Face Width (mm)	285	485	585
Panel Modular Width (mm)	300	500	600
Panel Height (mm)	25		
Standard Panel Length⁽¹⁾ (mm)	1000 - 6000 (Cut on-site for <1000)		
Panel Base Metal Thickness (mm)	0.55	0.75	0.55 0.75 0.55 0.75
Stiffener Thickness	0.55	0.55	0.55
Mass / Unit Length (kg/m) including Stiffener	3.1	3.7	4.9 5.9 5.8 6.9
Mass / Unit Area (kg/m²) including Stiffener	10.9	12.9	10.1 11.9 9.9 11.7
Minimum Yield Strength (MPa)	300 (G300)		
Tolerance (mm)			
Sheet length	+/- 3mm		
Cover width	+/- 2mm		

Notes:

1. Other lengths may be available by enquiry.
2. 0.7 BMT available soon, please contact your Lysaght Sales Representative for further information

HORIZON® FAÇADE SYSTEM: LIMIT STATE WIND PRESSURE CAPACITIES (kPa)

Base Metal Thickness (mm)	Panel Face Width (mm)	Support Spacing (mm)	Strength Pressure (kPa)
0.55 ²	285	600	7.90
		1200	3.45
	485	600	5.16
		900	4.03
	585	600	4.60
		900	2.82

Notes:

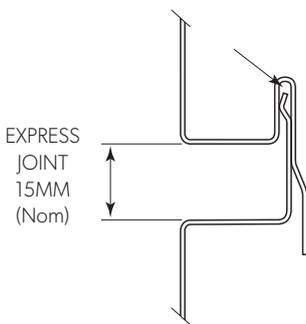
1. For Serviceability Pressure charts and further details, refer to HORIZON® Design & Installation Manual
2. Panels fixed to 1.00mm BMT (min) G550 supports

INSTALLATION

The support system for HORIZON® panels must be installed to provide a fixing plane that is plumb, level and square, and the top face of the support members are square to the fixing plane. Consideration must be given to the flashing with respect to details and direction of installation, and construction sequencing for the installation of supports, flashing and panels. HORIZON® panels, when installed horizontally, must be installed commencing from the top of the wall or wall compartment (the male leg is pointed upwards and female edge pointed downward, thus providing good drainage from the female edge).

EXPRESS JOINTS

The standard express joint width for HORIZON® panels is 15mm (nominal). The express joint width has an adjustable range of -0mm, +3mm to allow for site variability.



CUTTING

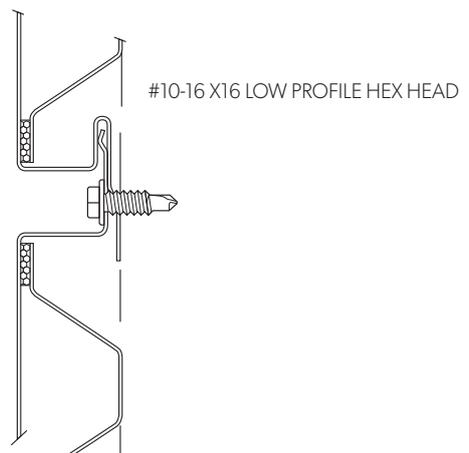
Onsite cutting of HORIZON® panels should be minimised by using cut to length panels manufactured by Lysaght.

If onsite cutting is required, good trade practices must be employed. Refer to BlueScope Technical bulletins TB05 and TB13.

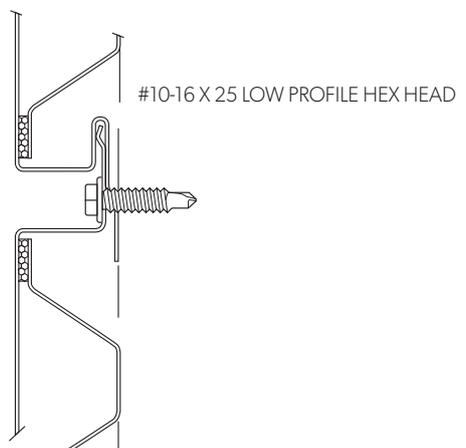
FIXING DETAILS

HORIZON® panels are screw fixed to supports. Engage the overlap leg into the underlap recess, then fix the nominated fastener through both legs into batten or plywood support. Panels are lapped (male edge is engaged into the female edge) prior to the screw fixing. Spacer blocks, temporarily inserted into the express joint, will be required to ensure a consistent gap is maintained between lapping sheets. The screw is positioned central to the express joint and the centre of the screw must be no closer than 30mm from the ends of the panel.

FIXING TO STEEL



FIXING TO PLYWOOD/TIMBER BATTENS



PRODUCT DESCRIPTIONS

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MANUALS AND PROJECT CASE STUDIES VISIT:

WWW.LYSAGHT.COM

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