LYSAGHT AZURE® 100 FACADE PANELS SPECIFICATION

MARCH 2025 | **REV01** | This version supersedes all previous issues.

1.0 SCOPE

AZURE® Façade Panels have been developed for use on commercial and residential buildings to form the wall cladding where a rainscreen system is to be constructed. With clean and sharp lines, AZURE® Façade Panels are well suited to covering large wall areas where panel configuration and colour are used to create a bold design statement. AZURE® Façade Panels and components may be used wherever a non-combustible solution is required by the NCC.

Product-specific design and engineering information is provided in the Azure® 100 Façade panels Design and Installation manual.

It is the responsibility of the designer and/or specifier to ensure the selected system is fit for purpose and that it complies with:

- Project specific performance requirements
- Relevant Australian Standards
- The National Construction Code (NCC)
- Local government requirements
- and any other requirements as appropriate.

2.0 MATERIAL SPECIFICATION:

2.1 COLORBOND® STEEL

AZURE® Façade Panels are made from COLORBOND® steel. COLORBOND® steel is pre-painted steel for exterior roofing and walling. The pre-painted finish complies with AS/NZS 2728 and the steel base is an aluminium/zinc/magnesium alloy-coated steel complying with AS 1397.

Minimum yield strength is G300 (300 MPa).
Minimum coating mass is AM150 (150g/m^2).
AZURE® 100 panels – Nominal Weight = 11kg/m^2

2.2 OTHER MATERIALS

AZURE® Façade Panels can also be manufactured from a range of other materials, including:

- Galvanised steel
- Weathering steel
- Aluminium

Contact your Lysaght Sales/Technical representative to determine the optimal material choice for each specific project.

3.0 AZURE® FAÇADE PANEL SPECIFICATIONS

3.1 AZURE® FAÇADE PANEL SIZES

AZURE® 100 Façade Panels are custom-made to suit your individual project specification. The following table summarises what can be achieved with the AZURE® 100 Façade Panel.

	Panel Width	Panel Length
Minimum size	250mm	450mm
Optimum sizes	**485mm, 1050mm**	**1000 - 2900mm**
Maximum size	1050mm	4000mm*
Panel Depth	25mm	
Joint Width	17mm	

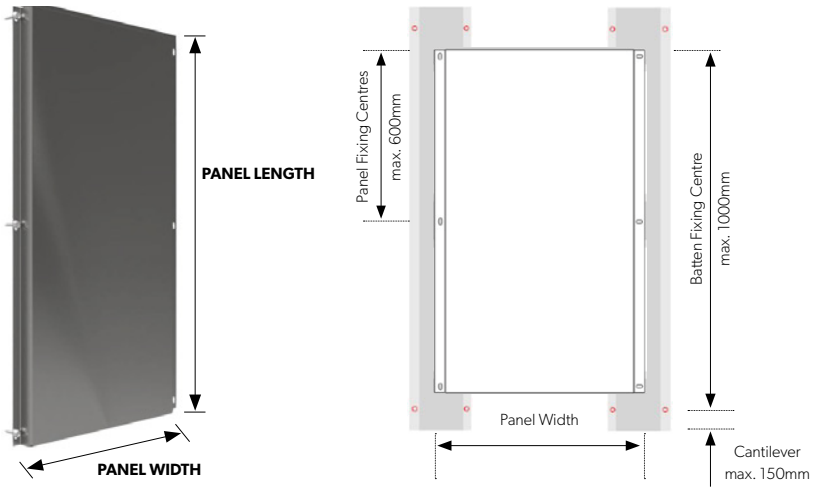
**Panel lengths over 3000mm are available subject to enquiry only*

3.2 FAÇADE PANEL BATTENS

Portrait Panel Battens

The Portrait Panel Joint Batten provides direct support to the vertical edges of panels installed in a portrait orientation

- 50mm wide x 25mm deep, made from min. 1.15mm BMT Z275 Zinc-coated G250 grade steel



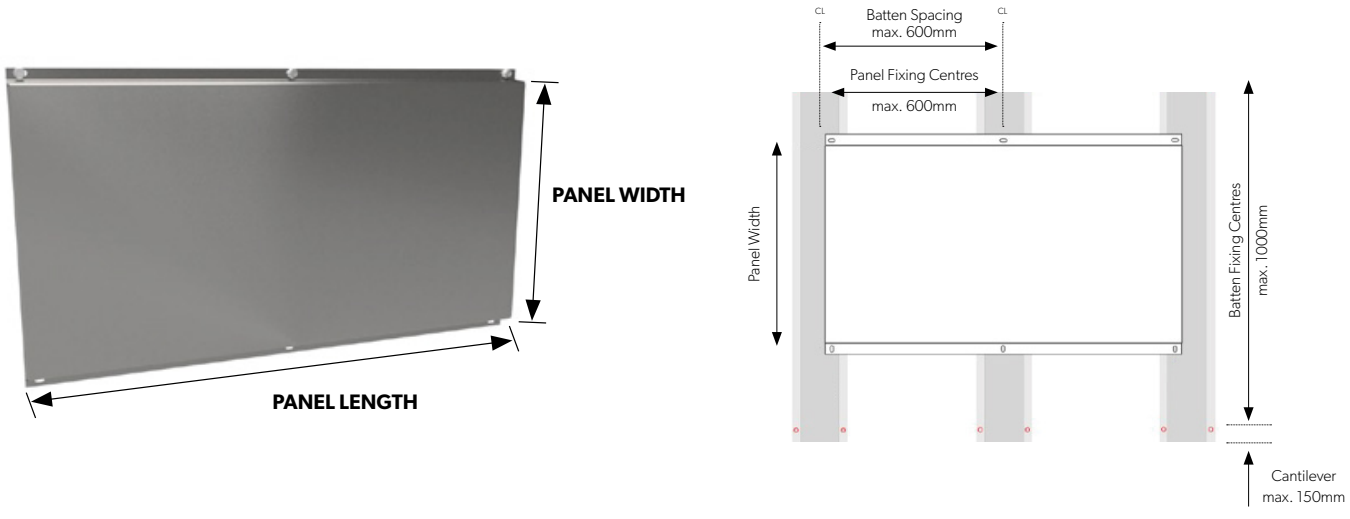
Landscape Panel Battens

The Landscape Panel Joint Batten provides direct support to the vertical edges of panels installed in a landscape orientation.

- 75mm wide x 25mm deep, made from min. 1.15mm BMT Z275 Zinc-coated G250 grade steel

The Intermediate Batten provides additional support to landscape panels at intermediate positions along the panel, as per the design wind load tables or engineers' specifications.

- 50mm wide x 25mm deep, made from min. 1.15mm BMT Z275 Zinc-coated G250 grade steel



4.0 AZURE® FACADE PANEL DESIGN

4.1 DESIGN STANDARDS

AZURE® Façade Panels are designed in accordance with the following Australian Standards:

- AS/NZS 1170.2 Structural design actions, Part 2: Wind actions
- AS 1562.1 Design and installation of sheet roof and wall cladding Part 1, section 3: Metal
- AS 4040.0 Methods of testing sheet roof and wall cladding – Part 0: Introduction, list of methods and general requirements
- AS 4040.2 Methods of testing sheet roof and wall cladding – Method 2: Resistance to wind pressures for non-cyclone regions
- AS 1530.1 and NCC 2022, Volume 1 Part C2D10
- AS/NZS 4284 Testing of building facades. Tests were completed with the Pro Clima SOLITEX EXTASANA® Weather Resistive Barrier and associated system components (Test Report No. 2024-003-S1-R1).

NCC 2022 verification methods F3V1 & H2V1 were also completed (Test Report No. 2024-003-S1-NCC2022-R2)

4.2 FIRE PERFORMANCE

The COLORBOND® steel used in AZURE® Façade Panels may be used wherever non-combustible materials are required by the NCC 2022, Volume 1 Part C2D10.

Where the NCC requires fire performance of an external wall, the façade system design must be reviewed and approved for the project by an appropriately qualified fire engineer.

It is important to note that when AZURE® Façade Panels are used for the external building envelope, all other wall components must also comply with the requirements of the NCC

4.2.1 FIRE TEST RESULTS

AS1530.1 – Report No: FNC12440

The material is NOT deemed combustible according to the test criteria specified in Clause 3.4 of AS 1530.1

AS1530.3 – Report No: FNE12328A, FNE12331A

Ignitability Index	Spread of Flame Index	Heat Evolved Index	Smoke Developed Index
(0 - 20)	(0 - 10)	(0 - 10)	(0 - 10)
0	0	0	0 - 1

4.3 WEATHERPROOFING AND MOISTURE MANAGEMENT

The AZURE® Façade system has been tested to AS/NZS 4284 and can form part of an engineered weatherproof assembly using the AZURE® system components outlined in this manual, and weatherproofing components and detailing provided by the building wrap manufacturer. The AS/NZS 4284 test was completed with the Pro Clima SOLITEX EXTASANA® Weather Resistive Barrier and associated system components.

AS/NZS 4284:2008 test parameters

Test Type	Test Conditions and criteria	Result
Structural Test at Serviceability Limit State	Structural SLS +1630 Pa and -1630 Pa **Pass/Fail criteria:** • **Max Displacement of framing members:** ±20.0mm • **Max Defection/span limit ratio:** 1:250 (span/250mm) • **Max successive member displacement:** 3.0mm	Pass
Air Infiltration Test	Air infiltration test pressures +150 Pa, +300 Pa and -150 Pa, -300 Pa **Pass/Fail criteria:** • **Max allowable leakage:** 1.6 L/m^{2}s @ 150Pa	Pass
Water Penetration Test	**Static Pressure:** 490 Pa for 15 minutes **Cyclic Pressure:** • 245-490 Pa for 5 minutes • 325-650 Pa for 5 minutes • 490-980 Pa for 5 minutes **Pass/Fail criteria:** • No leaks under static and cyclic pressure	Pass
Structural Test a Ultimate State Limit	**Ultimate Limit State pressures:** +2500 Pa and -2500 Pa for 10 seconds each **Pass/Fail criteria:** • Under proof there shall be no collapse of the test sample	Pass

Source: Test Report No. 2024-003-S1-R1, Lysaght AZURE®100 Panel with Pro Clima SOLITEX EXTASANA® Weather Resistive Barrier
Note: Performance tests by the methods of AS/NZS 4284:2008 to the requirements of NCC 2022 verification methods F3V1 & H2V1 were also completed (Test Report No.2024-003-S1-NCC2022-R2)

4.4 SUPPORT STRUCTURE AND FRAMING

It is the responsibility of the project engineer to design and specify the supporting structures suitable for all project load conditions in accordance with AS/NZS 1170.2 Structural design actions - Wind actions, NCC and other relevant project specific conditions.

The design, specification and installation of the AZURE® Façade Panels, and their fixing requirements are provided in the design and Installation manual. It is the responsibility of the project engineer to design and specify the supporting structure.

The structural wall framing components including studs, tracks, top hats, bracing elements, and connections to the building must be designed and installed in accordance with the appropriate relevant standards and project load conditions.

4.5 DESIGNER'S RESPONSIBILITY

It is the responsibility of the façade designer/project engineer/specifier to ensure that the system is compliant with all relevant requirements of the NCC, Australian Standards and project performance requirements, with consideration to the following:

- Structure
- Weatherproofing
- Thermal
- Condensation control
- Acoustics
- Fire Rating

5.0 INSTALLATION

For detailed instruction on Installation refer to Azure® 100 Façade Panels – Design and Installation Manual

6.0 MAINTENANCE AND WARRANTY

For instruction on Maintenance and Warranty refer to Azure® 100 Façade Panels – Design and Installation Manual

PRODUCT DESCRIPTION

All descriptions, specifications, illustrations, drawings, data, dimensions, and weights contained in this publication and websites containing information from Lysaght are approximations only. They are intended by Lysaght to be a general description for information and identification purposes and do not create a sale by description. Lysaght reserves the right at any time to:

a) Supply goods with such minor modifications from its drawings and specifications as it sees fit, and

b) Alter specifications shown in its publications and websites to reflect changes made after the date of publication

DISCLAIMER, WARRANTIES AND LIMITATION OF LIABILITY

- This publication is intended to be an aid for all trades and professionals involved with specifying and installing LYSAGHT® products and not be a substitute for professional judgement.
- Terms and conditions of sale are available at lysaght.com/terms
- Except to the extent to which liability may not lawfully be excluded or limited, BlueScope Steel Limited will not be under or incur any liability to you for any direct or indirect loss or damage (including, without limitation, consequential loss or damage such as loss of profit or anticipated profit, loss of use, damage to goodwill and loss due to delay) however caused (including, without limitation, breach of contract, negligence and/or breach of statute), which you may suffer or incur in connection with this publication.

FOR YOUR NEAREST SUPPLIER VISIT:

LYSAGHT.COM

FOR SALES ENQUIRIES CALL 13 30 38
FOR TECHNICAL ENQUIRIES CALL 1800 641 417

BLY0086_A 03/2025