Casement Window

THERMALLY BROKEN COMMERCIAL SERIES - 125mm FRAME

PRODUCT SPECIFICATION SHEET





Rylock Casement Windows deliver cooling breezes into the home and promote cross-flow ventilation for a comfortable living environment.

TECHNICAL SPECIFICATIONS

Max Product Height	6000mm
Max Product Width	6000mm
Max Sash Height	2750mm [1]
Max Sash Width	800mm [1]
Glazing Capacity	4mm - 25mm
Wind Rating	N1 - N3
Air Infiltration	1.5 L/s.m²
Water Resistance	450 Pa

[1] Sash height and width are relative measures, and must comply with maximum area and mass limitations (on page 6).

ENERGY PERFORMANCE

U_w Value	2.2 [2]
$SHGC_w$ Range	0.21 - 0.44 [2]

[2] Energy results are product and size specific. As product sizes reduce, energy values increase. Custom energy results will be supplied with your Quotation - Sales Order.

Rylock Thermally Broken Commercial Series Casement Windows offer precise control of the sash opening through the superior dual arm scissor action of the Truth™ Bar Operator (available in black, silver and white hardware) with key lock. The stainless steel stays ensure the sash can be opened to a specific angle to draw cross breezes into the home for exceptional ventilation.

Dual sash seals and adjustable snubbers ensure resistance against air and water infiltration for exceptional results in *AS 2047 Windows and External Glazed Doors* compliance testing.

Casement Windows are glazed in accordance with *AS 1288 Glass in Buildings* and whilst a large range of options are available, all products are glazed with Grade A Safety Toughened Low-e Double Glazing (Argon Fill) as a standard specification. Extruded flyscreens are a standard inclusion and fitted to the interior frame of the product which is powder coated in-house from a selection of 30 standard colours and textures; tested by the CSIRO for durability.

Rylock manufacture products designed to meet your particular site conditions and any existing requirements, to achieve the best results. Speak with a Rylock Sales Consultant about your home or next project to achieve a custom, high performance solution.

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Rylock Thermally Broken Commercial Series Casement Windows are endlessly customisable, offering stunning architectural designs and many outstanding features:



NOISE SOLUTION

SECURITY SOLUTION

BUSHFIRE SOLUTION

PRODUCT FEATURES

Powder coat frame and hardware colours displayed for visual contrast purposes only.



Stainless Steel Stays control sash movement and **Dual Sash Seals** minimise water and air infiltration.



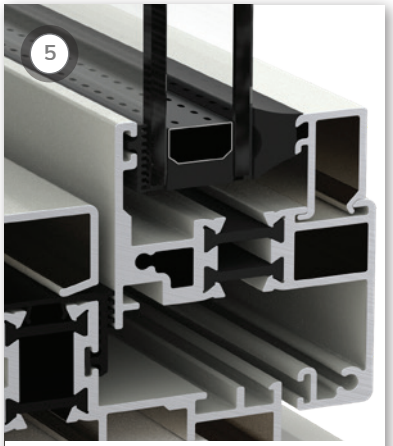
A range of **Structural Members** to suit your individual product and project site requirements.



Latches are fitted to the top and bottom of the sash to draw it in tightly against the **Dual Sash Seals**.



Standard inclusion **Extruded Flyscreens** with various mesh options feature a hidden **Corner Stake**.



IGU standard specification is Grade A Safety Toughened Low-e Double Glazing (Argon Fill).



Optional **Sill Flap** expels water from the building for Brick Veneer and Double Brick applications.

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REVEAL TYPE & DEPTH

A product's reveal type and depth can be customised to suit various building materials, to achieve a particular architectural style and deliver ultimate customisation.



Example of Plaster Reveal Offset application



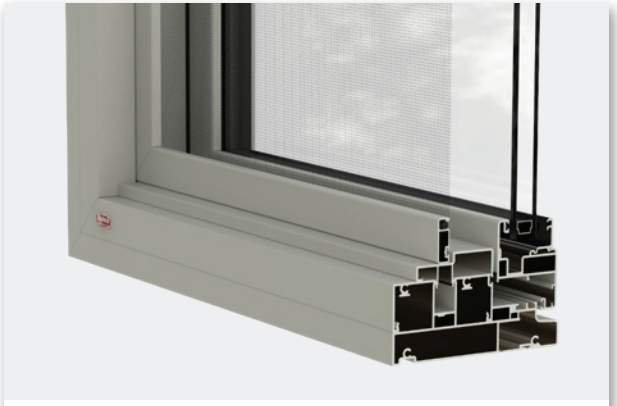
Primed Timber Reveal
A pre-primed in-line timber reveal for ease of installation is ready for painting.
Architrave supplied by others.



Hardwood Reveal
Select grade hardwood in-line timber reveal for ease of installation is ready to varnish.
Architrave supplied by others.



Plaster Reveal Offset
Common in modern housing construction (*pictured left*) products are fitted with a 1.6mm spacer to aid installation of the EzyReveal™ system.



Reveal Equaliser
A versatile solution which provides a powder coated finish to the full height of the internal surface of the frame with concealed fixing pocket.

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TECHNICAL RESOURCES



V26.2

Casement Window

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SIZING & CONFIGURATIONS

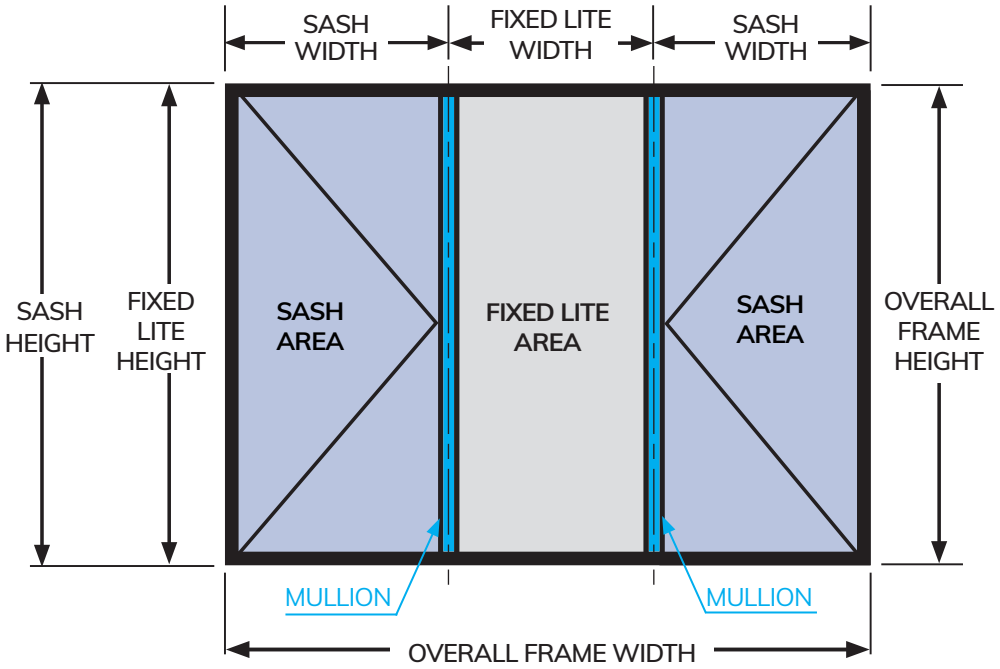
Given the custom nature of Rylock Thermally Broken Commercial Series Casement Windows, product configurations are virtually limitless, provided compliance with Australian Standards is met. Pages 6 and 7 of this technical resource detail Rylock's sizing matrices for Casement sashes and Fixed Lite panels which comply with NCC requirements and hardware operator specifications. These resources are best used in consultation with your Rylock Sales Consultant or alongside Rylock's Revit Library, which features in-built sizing limitations.

This example diagram (*right*), highlights the relationship between sizing and configurations of Casement sashes and Fixed Lite panels, within the overall frame of a Casement Window. Sashes have important sizing limitations based on mass and the hardware operator's specifications. Integral structural members (shown in this configuration with mullions), are used to split glazed portions of an overall frame to assign panels as a Casement sash area or Fixed Lite panel area.

Note: Overall frame width and height cannot exceed 6000mm.

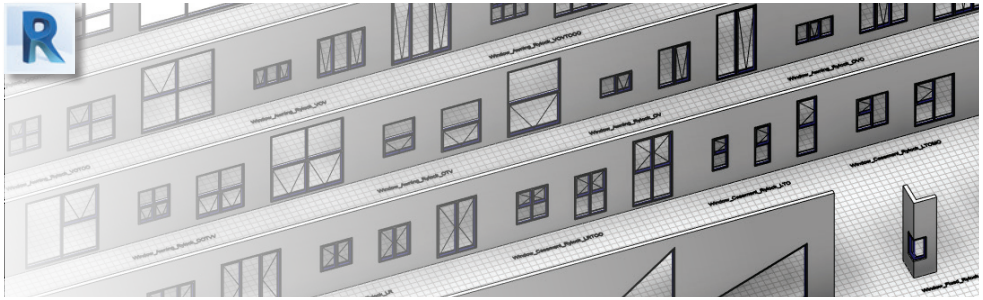
Casement sash parameters, (*shown in blue*), detail the height, width and area limitations that correspond to sash mass. This determines the glass which can be selected for a given sash size. **Refer to page 6 for the Casement Sash Sizing Matrix.**
Fixed Lite parameters, (*shown in grey in this diagram*), detail the size limitations that correspond to maximum panel area. **Refer to page 7 for the Fixed Lite Sizing Matrix.**

Note: Dimension 1 and dimension 2 on the sizing matrix are interchangable providing product is within maximium areas specified.



Rylock's Revit Library offers a comprehensive family of product configurations for integration into your next project. Parametric modelling aids the specification of Rylock product, with a content library that is comprised of 8 primary product ranges, with 64 separate families that represent a wide range of overall size and configuration options.

Designers and Architects can download the Revit virtual showroom, product library and user guide at our website: www.rylock.com.au/resources/specify



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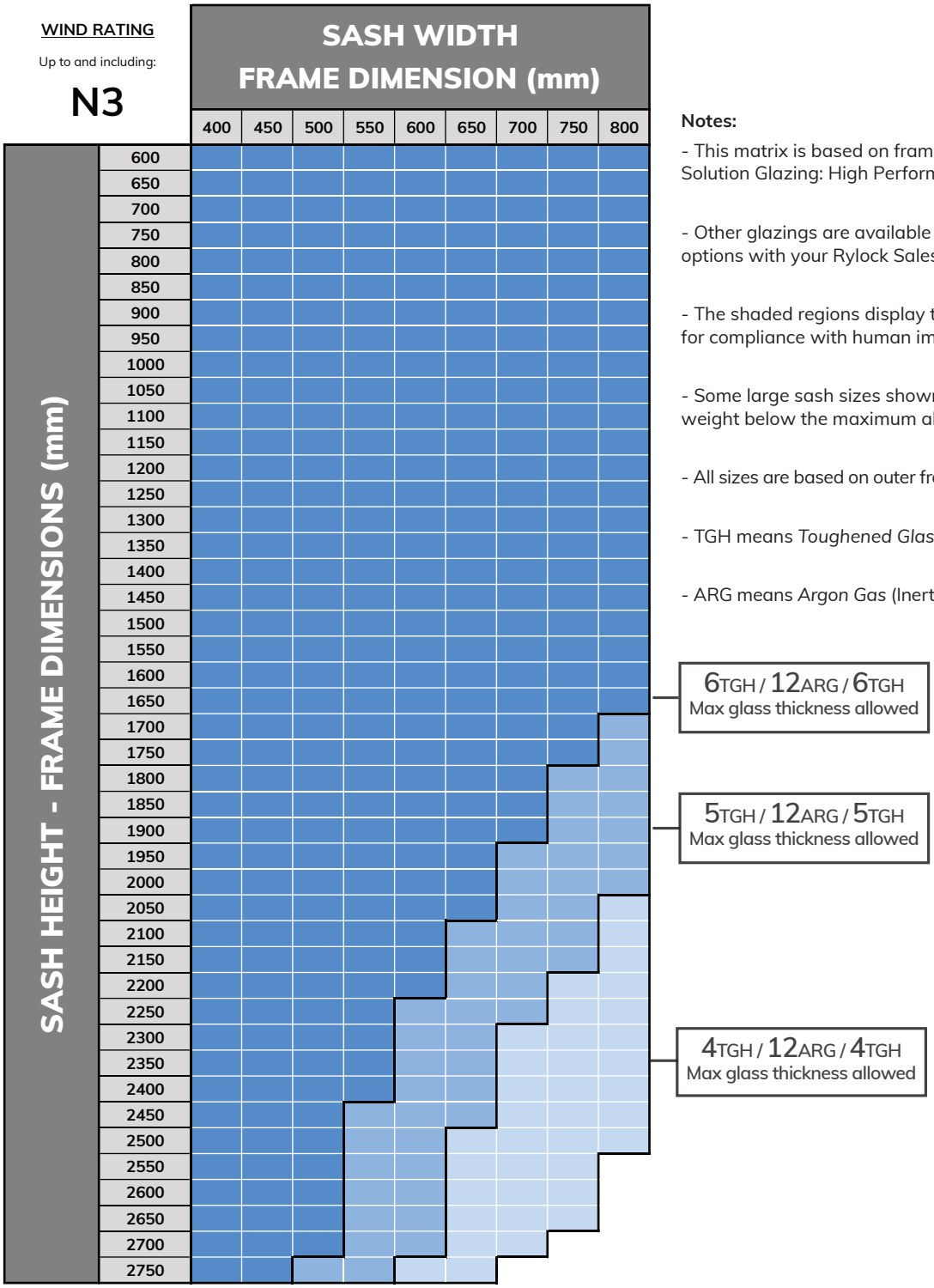
CASEMENT SASH SIZING MATRIX

These technical resources are best used in consultation with your Rylock Sales Consultant.

WIND RATING

Up to and including:

N3



Notes:

- This matrix is based on frame sizes using Rylock's default Comfort Solution Glazing: High Performance Low-e DG IGU.

- Other glazings are available with various sizing limitations, discuss options with your Rylock Sales Consultant.

- The shaded regions display the minimum required glass thickness for compliance with human impact and N1 - N3 wind rating.

- Some large sash sizes shown here require thinner glass to keep weight below the maximum allowable sash mass (40kg)

- All sizes are based on outer frame dimensions (not glass dimensions).

- TGH means *Toughened Glass* (Grade A safety).

- ARG means *Argon Gas* (Inert gas used in IGUs for energy efficiency).

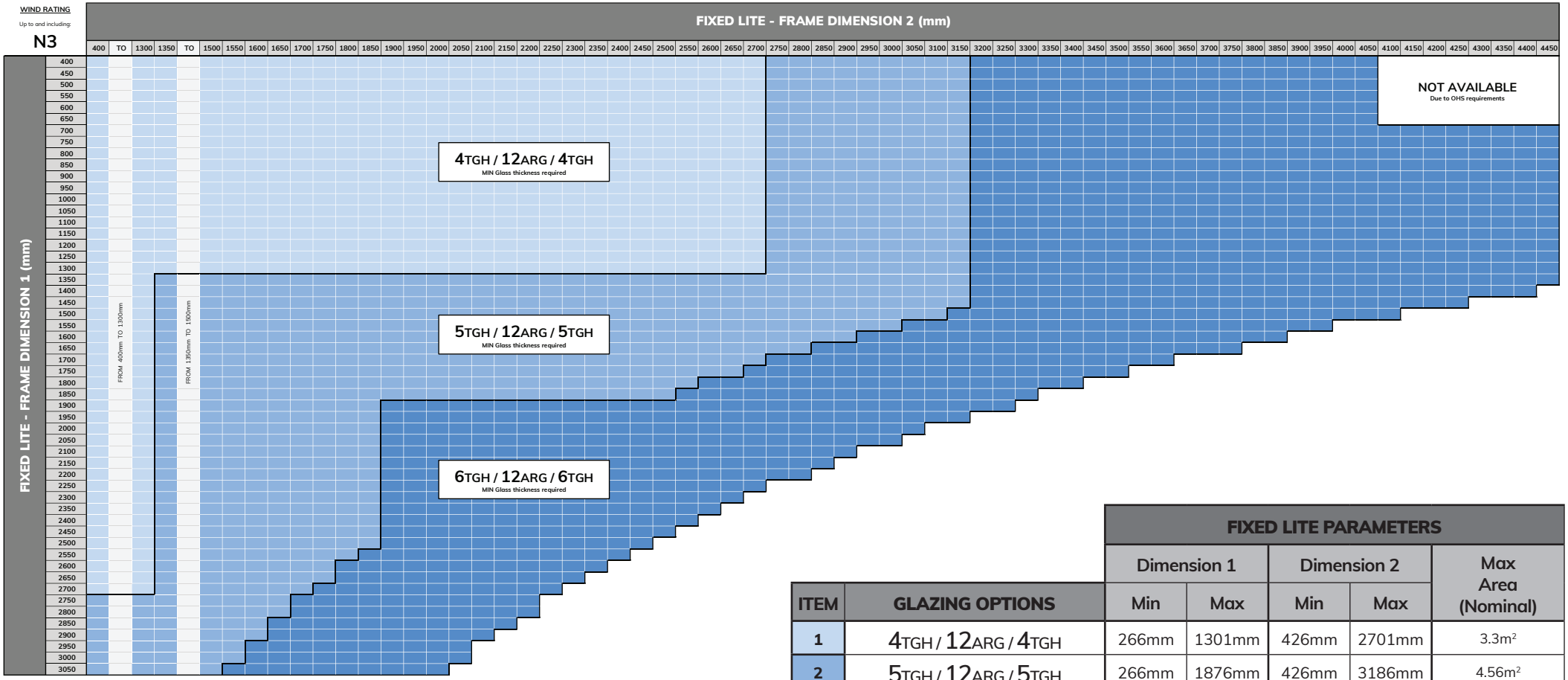
		CASEMENT SASH PARAMETERS				
		Height		Width		Max Area (Nominal)
ITEM	GLAZING OPTIONS	Min	Max	Min	Max	
1	4TGH / 12ARG / 4TGH	600mm	2727mm	400mm	800mm	2m²
2	5TGH / 12ARG / 5TGH	600mm	2750mm	400mm	800mm	1.6m²
3	6TGH / 12ARG / 6TGH	600mm	2750mm	400mm	800mm	1.3m²

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FIXED LITE SIZING MATRIX

These technical resources are best used in consultation with your Rylock Sales Consultant.



ITEM	GLAZING OPTIONS	FIXED LITE PARAMETERS				
		Dimension 1		Dimension 2		Max Area (Nominal)
		Min	Max	Min	Max	
1	4TGH / 12ARG / 4TGH	266mm	1301mm	426mm	2701mm	3.3m²
2	5TGH / 12ARG / 5TGH	266mm	1876mm	426mm	3186mm	4.56m²
3	6TGH / 12ARG / 6TGH	266mm	3246mm	426mm	4536mm	6.1m²

Notes:

- This matrix is based on frame sizes using Rylock's default Comfort Solution Glazing: High Performance Low-e DG IGU.
- Other glazings are available with various sizing limitations, discuss options with your Rylock Sales Consultant.
- The shaded regions display the minimum required glass thickness for compliance with human impact and N1 - N3 wind rating.
- Frame dimension 1 and frame dimension 2 can be interchanged with respect to the height and width of Fixed Lite.
- All sizes are based on outer frame dimensions (not glass dimensions).
- TGH means *Toughened Glass* (Grade A Safety).
- ARG means *Argon Gas* (Inert gas used in IGUs for energy efficiency).

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INSTALLATION RESOURCES

These technical resources are best used in consultation with your Rylock Sales Consultant.



Rylock has extensive resources to support customers in the best practice application of its products. Our extensive online library has technical resources including product x-section drawings in PDF and DWG format, typical building-in installation detail with 3D interactive renders, as well as operation and adjustment videos.

The most vital aspect of correct function is correct installation and it is recommended that the manufacturer's specification is always followed as improper installation can lead to air infiltration, moisture and poor overall product performance. Rylock has comprehensive typical building-in detail for four common wall types to assist installers:

- Lightweight Cladding | Linea Board
- Lightweight Cladding | Hebel PowerPanel
- Brick Veneer; and
- Double Brick

[View the Thermally Broken Commercial Series Casement Window Installation Guide]

SCAN QR CODE FOR INSTALLATION GUIDE

Technical Resources on this page include:

- 3D Interactive Renders
- Typical Building-In Detail CAD Drawings
- Link to the NCC (requires login)
- AGWA Fixing Guide (PDF download)

