SOUTHERN STAR
WINDOWS & DOORS
www.southernstarwindows.com.au

Thermal Star™

The 7-Star Generation of Homes Is Here. Are You Ready?

It's happening. The National Construction Code (NCC) will make a minimum Nationwide House Energy Rating Scheme (NatHERS) score of 7-stars mandatory in the majority of new Australian homes.

The era-defining change will forever alter how our homes are built, with a much greater focus on energy efficiency - especially with glazed windows and doors.

According to the Australian Governments YourHome website, up to **40% of a homes warmth is lost** and **87% of its heat gained** through its windows.

This makes energy efficient windows & doors likely the most important element of achieving 7-star performance in your builds.

For builders, 7-star will be a challenge.

Getting a home to 7-star compliance may involve rethinking:

- Materials
- Layouts
- Orientations
- Construction methods
- Windows and glazed doors

Increased costs will be an unavoidable feature of 7-star energy efficiency ratings.

Key Changes to the NCC:

- The NCC 2022 will increase home energy efficiency requirements.
- A Nationwide Housing Energy Rating Scheme (NatHERS) 7-star rating will become the new minimum for all builds.

National Construction Code

NATIONWIDE HOUSE ENERGY RATING SCHEME

HEATING COOLING WINDOW ENERGY RATING SCHEME

Introducing the

Thermal Star™ Range

THERMAL STAR™

ACHIEVE AFFORDABLE 7-STAR PERFORMANCE

Thermal Star™ is our new thermal performance solution designed to help you affordably meet the tightened energy requirements of the NCC 2022.

With an **inline reveal**, **thermally improved frames**, and **unbeatable value**, the Thermal Star™ range of aluminium windows and doors is designed to help you achieve affordable 7-star performance. The Thermal Star Range is also WERS rated and tested.

Energy Efficiency

Superior Uw* & Solar Heat Gain** values to help you get to 7-star performance.

Value

Ultimate affordability so you don't need to compromise on your builds or home designs.

Comfort

Outstanding temperature regulation provides an unparalleled level of comfort.

***Uw Value:** A measurement of how well a building product insulates by measuring heat flow resistance. The lower the Uw-Value the better it performs.*

****SHGC Value:** How well a product blocks heat caused by sunlight. Expressed as a number between 0 and 1, a lower SHGC rating will transmit less heat.*

Why Choose **Thermal Star™?**

WHY CHOOSE THERMAL STAR™?

Superior Uw & SHGC Values

to help you achieve 7-star performance.

Inline Reveal Technology

for optimum thermal control.

Double Glazing As Standard

to maintain first-rate temperature control.

Tested to Australian Conditions

to meet Australian Standard 2047-2014.

Value For Money

for compliance without compromise.

Reduces Condensation

Through consistent climate control.

THERMAL STAR™ PERFORMANCE TEST

To demonstrate the power of the Thermal Star™ range we set up a test.

We compared the NatHERS performance of a single storey display home WITH and WITHOUT Thermal Star™ 150 Series thermally improved aluminium windows and doors.

The houses were as similar as possible in every other respect and were tested in various orientations to comprehensively evaluate the impact of Thermal Star™ range on the NatHERS performance of the home.

Test House Details

House Type:	1 Storey, 4 Bedroom, 2 Bathroom, 231m2.
Overshadowing:	Calculated using two storey house either side and built on boundary.
Elevated Floor:	R4.0 Ceiling batt.
External Wall:	R2.5 - R2.7 Wall batt. R6.0 batt with R2.5 perimeter edge batt.
Roof Colour:	Dark.
Location/Climate Zone:	Greater Melbourne/Zone 6 (Mild Temperate Climate).

THERMAL STAR™ PERFORMANCE TEST

Without Thermal Star™

House Orientation	NatHERS Rating
North	6.3
North-East	6.2
East	6.1
South-East	6.0
South	5.9
South-West	5.9
West	6.1
North-West	6.2

With Thermal Star™

House Orientation	NatHERS Rating
North	7.3
North-East	7.3
East	7.2
South-East	7.0
South	7.0
South-West	7.0
West	7.2
North-West	7.2

***Disclaimer:** The 7-Star Case Study is intended to showcase the potential benefits of using the Thermal Star™ range, specifically the 150 Series thermally improved aluminium windows and doors with improved glazing options. However, it is essential to note that this study should only be considered as a guide and not as a definitive assessment of the National House Energy Rating Scheme (NatHERS) compliance. To obtain an accurate NatHERS assessment, it is crucial to engage the services of an accredited NatHERS energy assessor who can conduct a comprehensive evaluation based on the specific requirements and guidelines of NatHERS. The final NatHERS assessments should only be performed by a qualified professional to ensure compliance and accuracy.*

SOUTHERN STAR
ALUMINIUM WINDOWS & DOORS

AkzoNobel
Interpon®
POWDER COATINGS

Interpon Textura®
Fine Texture Powdercoating

The advanced Interpon Textura® powdercoat finish is standard with all aluminium windows and doors in the Thermal Star™ range.

The 'anti-mar' finish and advanced powder technology of Interpon Textura® combine to protect the surface of your windows and doors from abrasions, scuffing during transport and in-situ construction wear and tear.

Features

- Mar reduction technology for use in high wear areas.
- High durability finish to reduce transport damage.
- Textured pattern removes powder coat irregularities.
- Outperforms standard powder-coatings on all abrasion testing metrics.
- Australian-made.
- Available for the entire Southern Star Aluminium & Thermal Star™ ranges.

THERMAL STAR™ COLOUR OPTIONS

01 TEXTURA BLACK

02 TEXTURA MONUMENT

03 TEXTURA WOODLAND GREY

04 TEXTURA JASPER

05 TEXTURA DUNE

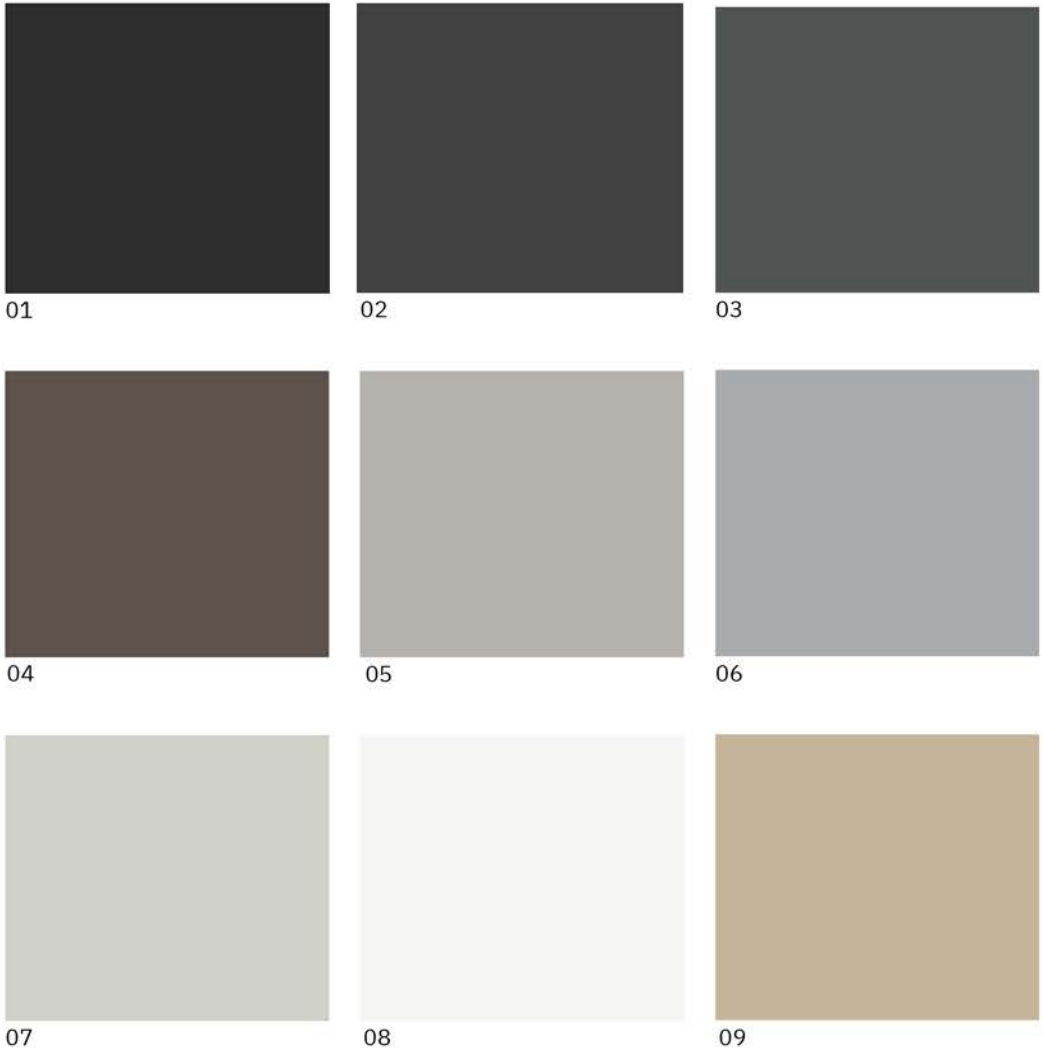
06 TEXTURA ULTRA SILVER

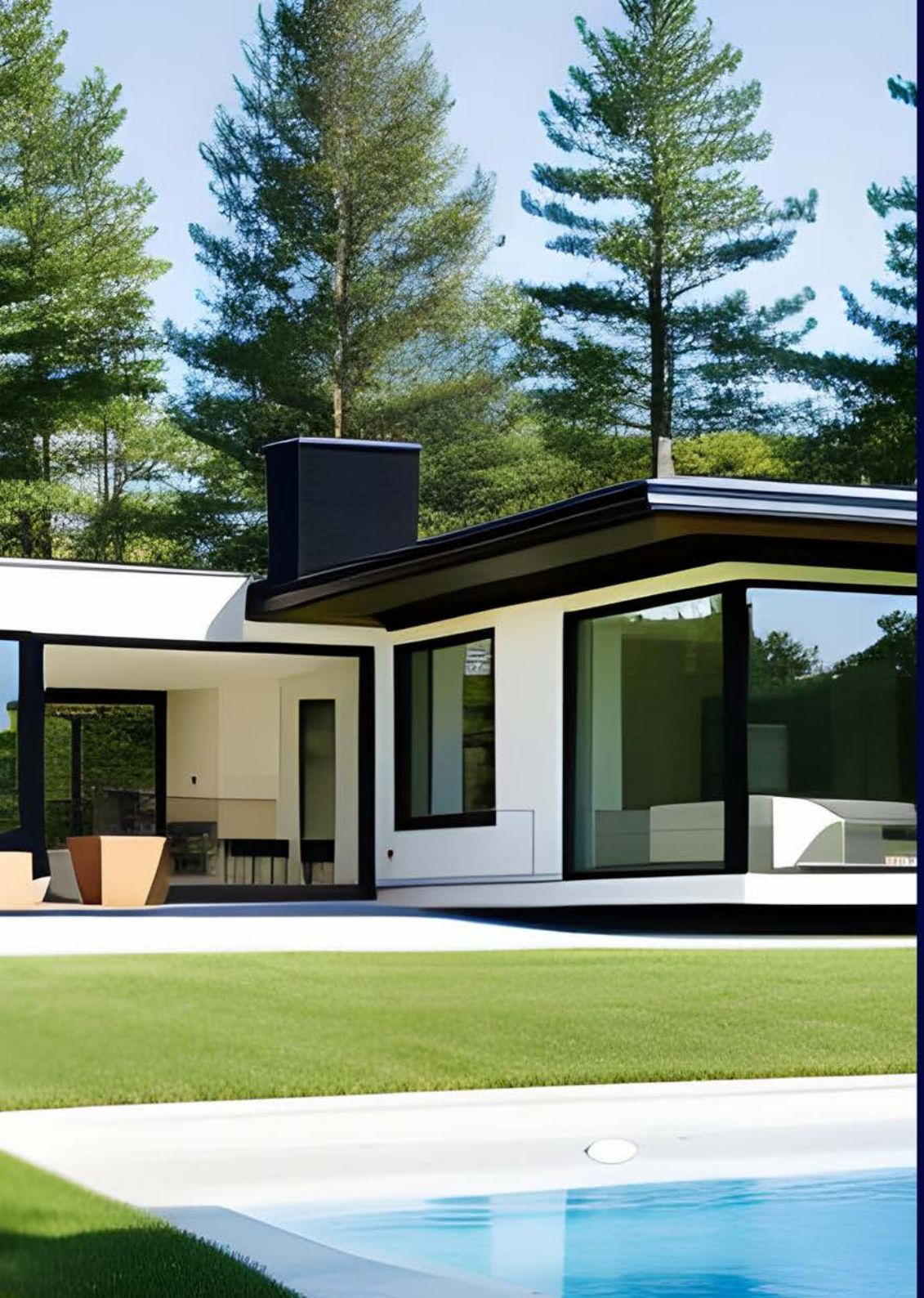
07 TEXTURA SURFMIST

08 TEXTURA PEARL WHITE

09 TEXTURA PAPERBARK

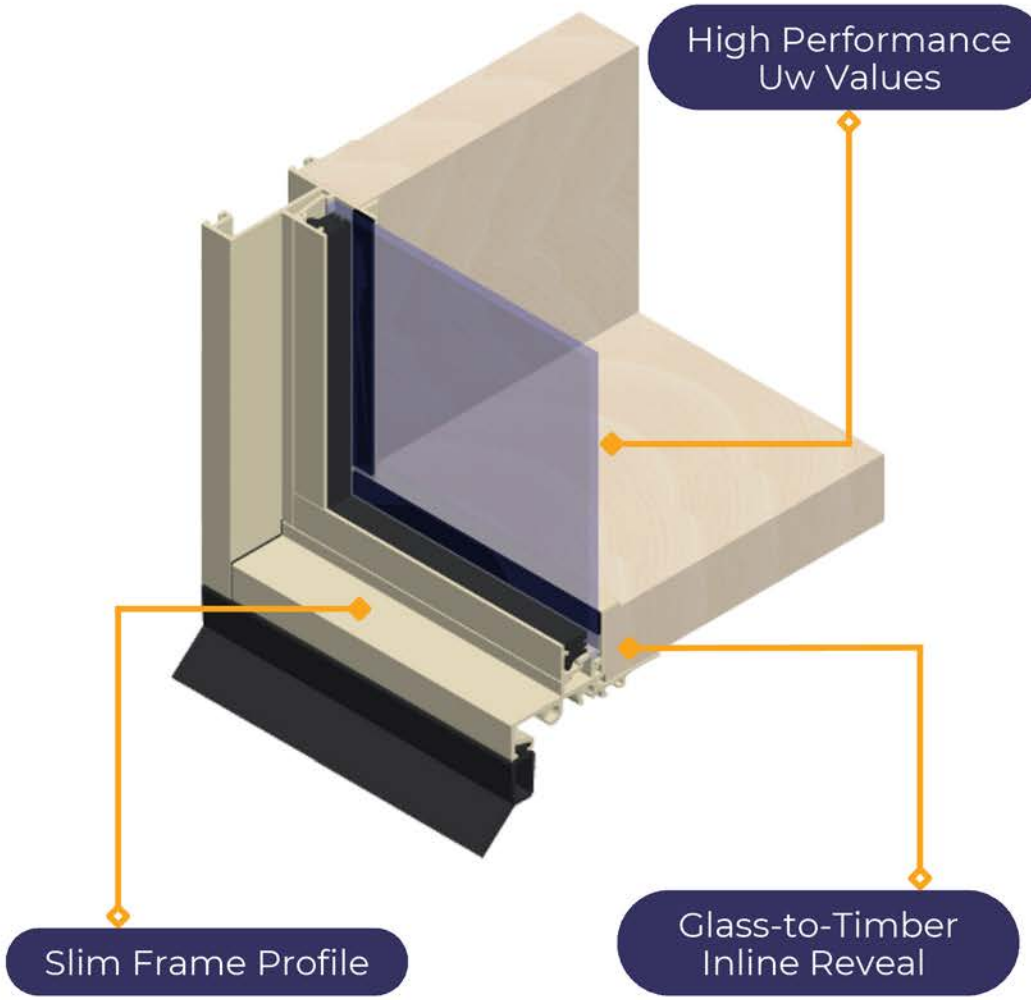
Interpon Textura® features an 'anti-mar' finish and advanced powder technology designed to protect from surface abrasions whether in-situ or during transport.





Thermal Star™

Thermally Improved Range



Thermal Star™ 150 Series

This series offers the standard residential suite in the Thermal Star™ range, catering to diverse residential projects with its unmatched features.

The 150 Series boasts a streamlined glass-to-timber inline reveal system, delivering a sleek and elegant appearance. Its slim frame profile not only enhances the flow of natural light but also offers expansive views, creating a harmonious blend of aesthetics and functionality for every home.

THERMAL STAR™ 150 SERIES
AWNING WINDOW

U Value Range	3.2 - 2.2
SHGC Range	0.43 - 0.58

Maximum Glass Thickness	18mm

The Thermal Star™ 150 Series Awning Window. sets new standards for sealing, ventilation, and thermal efficiency. Its glass-to-timber inline reveal system invites natural light while the slim frame profile offers unobtrusive views and a seamless connection with the outdoors. Experience lasting durability and ventilation with the Thermal Star™ 150 Series Awning Window. Redefine living spaces with elegance and functionality, enhancing home appeal and comfort.

THERMAL STAR™ 150 SERIES
SLIDING DOOR & STACKING SLIDING DOOR

U Value Range	3.3 - 2.2
SHGC Range	0.48 - 0.67

Maximum Glass Thickness	18mm

Experience modern living with our Thermal Star™ 150 Series Aluminium Sliding and Stacking Sliding Doors. These doors blend style and practicality while prioritising thermal performance and energy efficiency. The advanced thermally broken design and 18mm double-glazing provide exceptional insulation. Create a seamless connection between indoor and outdoor spaces, enhancing your home's flow and functionality.

Thermal Star™
Thermally Broken Range

WHAT DOES THERMALLY BROKEN MEAN?

Thermally broken windows and doors feature a **thermal barrier** between the **interior frame** and **exterior frame** to minimise the transferral of temperature.

The barrier is made of a low-conductive material to prevent the transfer or heat or cold through the aluminium frame and into the home.

This significantly improves energy efficiency and home comfort.

Improved Thermal Efficiency

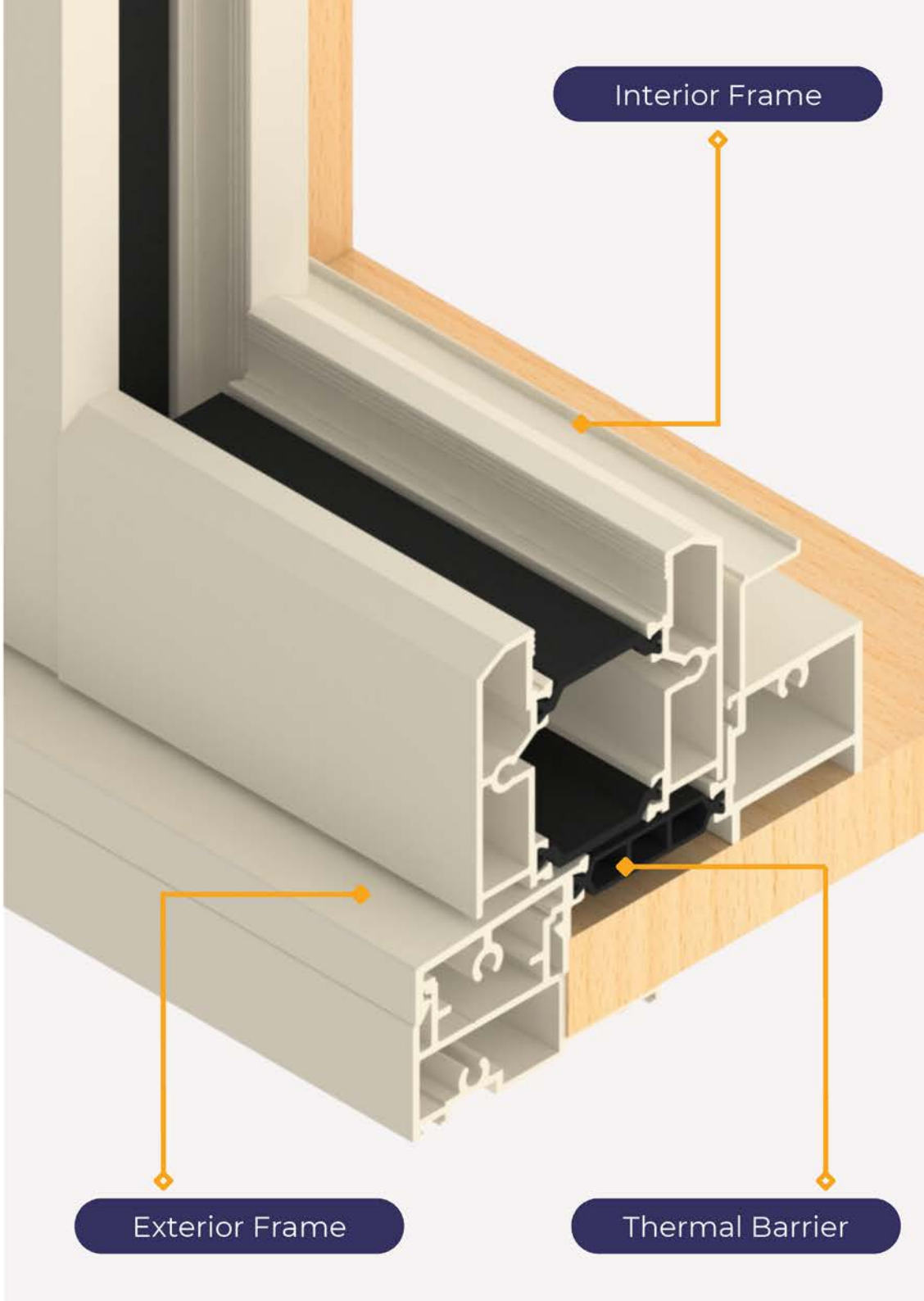
By reducing heat transfer through the window frames, thermally broken windows can help keep your home cooler in the summer and warmer in the winter.

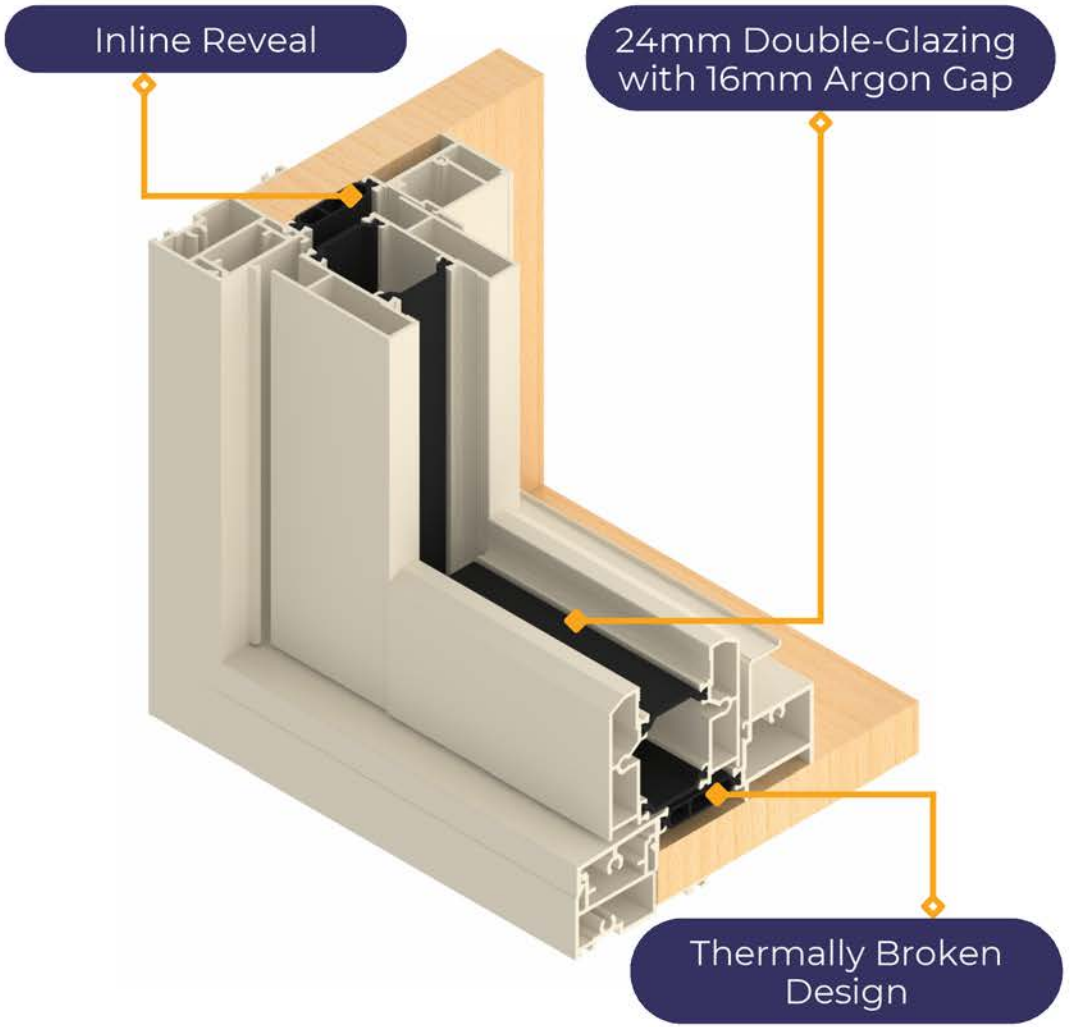
Reduced Condensation

Thermally broken windows can minimise condensation by reducing the temperature difference between the interior and exterior of the window.

Enhanced Noise Reduction

The insulating properties of the barrier between the interior and exterior frames help to block out unwanted ambient noise





Thermal Star™ 350 Series

This architectural suite in the Thermal Star™ range is engineered for exceptional performance in commercial and architectural projects. The 350 Series features a thermally broken design, elevating thermal performance to new heights and ensuring excellent energy efficiency.

With its stylish 100mm frame, this series boasts a robust commercial look that exudes modern elegance. The Thermal Star™ 350 Series also offers high-performance Uw and SHGC values, making it the ultimate choice for builders and architects seeking superior efficiency and sustainability.

THERMAL STAR™ 350 SERIES
AWNING WINDOW

U Value Range	3.1 - 2.2
SHGC Range	0.33 - 0.48

Maximum Glass Thickness	24mm

The innovative Thermal Star™ 350 Series Awning Window presetns a leap forward in architectural design. The 350 Series boasts a sleek 100mm frame, seamlessly complementing various architectural styles. For architects and builders, the choice is evident: the Thermal Star™ 350 Series Awning Window. By blending thermal engineering and captivating design, it crafts comfortable, sustainable, and brilliant spaces.

THERMAL STAR™ 350 SERIES
SLIDING DOOR & STACKING SLIDING DOOR

U Value Range	3.5 - 2.5
SHGC Range	0.40 - 0.54

Maximum Glass Thickness	18mm

Introducing the Thermal Star™ 350 Series Stacking Sliding Door – where style meets function. Crafted for modern living, these doors offer a seamless blend of aesthetics and practicality, perfect for entertaining and alfresco dining areas. With meticulous attention to thermal performance, the 350 Series features an innovative thermally broken design with a subtle glass-to-timber reveal, ensuring year-round comfort and energy efficiency.

Thermal Star™

Hardware & Configuration Options

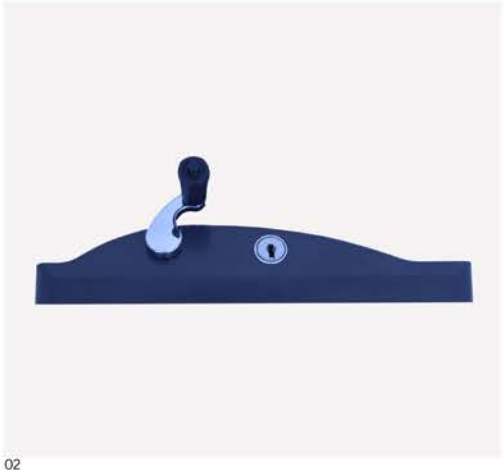
WINDOW HARDWARE

THERMAL STAR™ HARDWARE OPTIONS

01 COMET AWNING WINDER
(NON LOCKABLE)

02 AWNING WINDER
(LOCKABLE)

01



02

DOOR HARDWARE

THERMAL STAR™ HARDWARE OPTIONS

01 ALPHA SLIDING DOOR LOCK
(SNIB ONLY)

02 ALPHA SLIDING DOOR LOCK
(CYLINDER/SNIB)

03 ALPHA SLIDING DOOR LOCK
(CYLINDER/CYLINDER)

04 DELTA SLIDING DOOR LOCK
(CYLINDER/CYLINDER)

05 GAMMA SLIDING DOOR LOCK
(CYLINDER/CYLINDER)

06 400mm D Handle

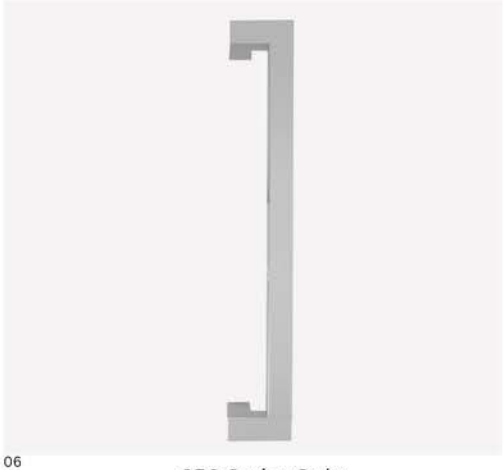
01

02

03

04

05



06

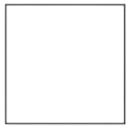
350 Series Only

Thermal Star Fixed Windows

Size Charts

Frame Type : AAWF
Series: 150 & 350

Frame Configuration (External View)



1 Lite Window

Frame Size (mm)	W	610	850	1210	1450	1810	2050	2410	2650
H	**Size Code**	06	09	12	15	18	21	24	27
514	06								
857	09								
1029	10								
1200	12								
1372	14								
1457	15								
1800	18								
2057	21								

Window Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 Stud Opening Height = Frame Height + 25mm
- 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

Ordering & Specification Guidelines

- All windows should be specified based on the external view and measured by the Frame Size.

Code Convention for Ordering Windows

- Format: Frame Type | Size Code (H & W) | Series
  - Example: AAW 1218 150
- If you require the operable sash on the right side, add REV at the end of the code.
  - Example: AAW 1218 150 REV

Key: Product Availability

150 & 350 Series

350 Series Only

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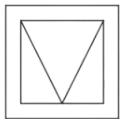
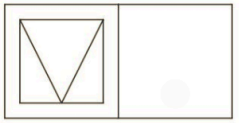
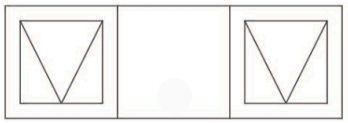
Version: November 2025

SOUTHERN STAR WINDOWS & DOORS

Thermal Star Awning Windows

Size Charts

Frame Type : AAW
Series: 150 & 350

Frame Configuration (External View)		 1 Lite Window (Sash Only)			 2 Lite Window (Sash + Fixed)				 3 Lite Window (Sash + Fixed + Sash)
Frame Size (mm)	**W**	610	850	1210	1450	1810	2050	2410	2650
H	**Size Code**	06	09	12	15	18	21	24	27
514	06								
857	09								
1029	10								
1200	12								
1372	14								
1457	15								
1800	18								
2057	21								

Window Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 Stud Opening Height = Frame Height + 25mm
- 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

Ordering & Specification Guidelines

- All windows should be specified based on the external view and measured by the frame size.
- The standard 2-lite window comes with the operable sash on the left side.

Code Convention for Ordering Windows

- Format: Frame Type | Size Code (H & W) | Series
  - Example: AAW 1218 150
- If you require the operable sash on the right side, add REV at the end of the code.
  - Example: AAW 1218 150 REV

Key: Product Availability

- 150 & 350 Series
- 350 Series Only

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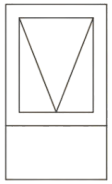
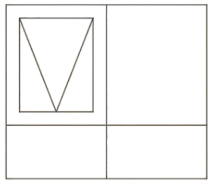
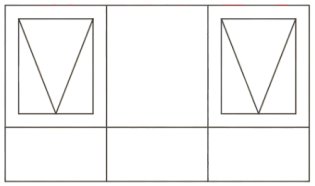
SOUTHERN STAR WINDOWS & DOORS

Thermal Star Awning Windows

Size Charts

Frame Type : AAW
Series: 150 & 350

Frame Configuration (External View)		 2 Lite Window (Sash Over Fixed)			 4 Lite Window (Sash + Fixed Over Fixed + Fixed)				 6 Lite Window (Sash + Fixed + Sash Over Fixed + Fixed + Fixed)
Frame Size (mm)	**W**	610	850	1210	1450	1810	2050	2410	2650
H	**Size Code**	06	09	12	15	18	21	24	27
1800	18								
2057	21								

Window Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 Stud Opening Height = Frame Height + 25mm
- 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

Ordering & Specification Guidelines

- All windows should be specified based on the external view and measured by the frame size.
- The standard 2-lite window comes with the operable sash on the left side.

Code Convention for Ordering Windows

- Format: Frame Type | Size Code (H & W) | Series
  - Example: AAW 1218 150
- If you require the operable sash on the right side, add REV at the end of the code.
  - Example: AAW 1218 150 REV

Key: Product Availability

150 & 350 Series

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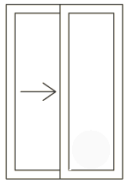
SOUTHERN STAR WINDOWS & DOORS

Thermal Star Sliding Doors

Size Charts

Frame Type : ASD
Series: 150 & 350

Frame Configuration (External View)



2 Lite Door (Sliding + Fixed)

Frame Size (mm)	W	1450	1810	2050	2410	2650	3010
H	Size Code	15	18	21	24	27	30
2100	21						
2400	24						
2700	27						

Door Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 & 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

Ordering & Specification Guidelines

- All doors should be specified based on the external view and measured by the frame size.
- The standard 2-lite door comes with the operable panel on the left side.

Code Convention for Ordering Windows

- Format: Frame Type | Size Code (H & W) | Series
  - Example: ASD 2118 150
- If you require the operable panel on the right side, add REV at the end of the code.
  - Example: ASD 2118 150 REV

Key: Product Availability

150 & 350 Series

350 Series Only

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Version: November 2025

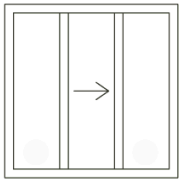
SOUTHERN STAR WINDOWS & DOORS

Thermal Star Sliding Doors

Size Charts

Frame Type : ASD
Series: 150 & 350

Frame Configuration (External View)



3 Lite Door
(Fixed + Sliding + Fixed)

Frame Size (mm)	W	2760	2692	3052	3120	3592	3660	4020	4560
H	**Size Code**	28	27	30	31	36-3	37	40	46
2100	21								
2400	24								
2700	27								

Door Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 & 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

Ordering & Specification Guidelines

- All doors should be specified based on the external view and measured by the frame size.
- The standard 2-lite door comes with the operable panel on the left side.

Code Convention for Ordering Windows

- Format: Frame Type | Size Code (H & W) | Series
  - Example: ASD 2118 150
- If you require the operable panel on the right side, add REV at the end of the code.
  - Example: ASD 2118 150 REV

Key: Product Availability

- 150 Series Only
- 350 Series Only
- Not Available

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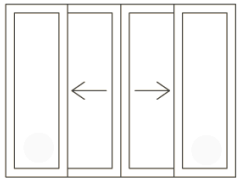
SOUTHERN STAR WINDOWS & DOORS

Thermal Star Sliding Doors

Size Charts

Frame Type : ASD
Series: 150 & 350

Frame Configuration (External View)



4 Lite Door
(Fixed + Sliding + Sliding + Fixed)

Frame Size (mm)	W	2836	2852	3556	3572	4036	4052	4756	4772	5236	5956
H	Size Code	29	29	36	36-4	41	41	48	48	53	60
2100	21										
2400	24										
2700	27										

Door Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 & 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

Ordering & Specification Guidelines

- All doors should be specified based on the external view and measured by the frame size.
- The standard 2-lite door comes with the operable panel on the left side.

Code Convention for Ordering Windows

- Format: Frame Type | Size Code (H & W) | Series
  - Example: ASD 2118 150
- If you require the operable panel on the right side, add REV at the end of the code.
  - Example: ASD 2118 150 REV

Key: Product Availability

- 150 Series Only
- 350 Series Only
- Not Available

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Version: November 2025

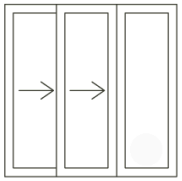
SOUTHERN STAR WINDOWS & DOORS

Thermal Star Stacking Doors

Size Charts

Frame Type : ASD
Series: 150 & 350

Frame Configuration (External View)



3 Lite Door
(Sliding + Sliding + Fixed)

Frame Size (mm)	W	2128	2631	2668	2991	3028	3531	3568
H	Size Code	21-STK	27-STK	27-STK	30-STK	30-STK	36-STK	36-STK
2100	21							
2400	24							
2700	27							

Door Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 & 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

Ordering & Specification Guidelines

- All doors should be specified based on the external view and measured by the frame size.
- The standard 2-lite door comes with the operable panel on the left side.

Code Convention for Ordering Windows

- Format: Frame Type | Size Code (H & W) | Series
  - Example: ASD 2118 150
- If you require the operable panel on the right side, add REV at the end of the code.
  - Example: ASD 2118 150 REV

Key: Product Availability

- 150 Series Only
- 350 Series Only
- Not Available

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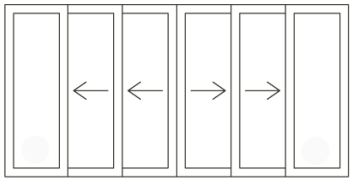
SOUTHERN STAR WINDOWS & DOORS

Thermal Star Stacking Doors

Size Charts

Frame Type : ASD
Series: 150 & 350

Frame Configuration (External View)



6 Lite Door
(Fixed + Sliding + Sliding + Sliding + Sliding + Fixed)

Frame Size (mm)	W	4116	4206	5196	5286	5916	6006
H	Size Code	42-STK	43-STK	53-STK	53-STK	60-STK	60-STK
2100	21						
2400	24						
2700	27						

Door Sizes & Configurations

- The standard sizes and configurations correspond to N2 wind ratings.
- Non-standard sizes and configurations are available upon request. Wind rating limitations may apply.

Stud Opening Height & Width Calculation

- 150 & 350 Stud Opening Height = Frame Height + 30mm
- 150 & 350 Stud Opening Width = Frame Width + 20mm

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