

Quantum® Windows & Doors Series
ARCHITECTURAL DESIGN MANUAL



Index

AWNING WINDOW		SLIDING DOOR	
Features and Benefits	01	Features and Benefits	109
Installation	05	Installation	113
Cross Sectional Views	13	Cross Sectional Views	125
CASEMENT WINDOW		SLIDING STACKER DOOR	
Features and Benefits	21	Features and Benefits	135
Installation	25	Installation	139
Cross Sectional Views	33	Cross Sectional Views	155
SLIDING WINDOW		BIFOLD DOOR	
Features and Benefits	41	Features and Benefits	161
Installation	45	Installation	163
Cross Sectional Views	53	Cross Sectional Views	165
SASHLESS DOUBLE HUNG WINDOW		HINGE DOOR	
Features and Benefits	61	Features and Benefits	187
Installation	63	Installation	191
Cross Sectional Views	71	Cross Sectional Views	207
LOUVRE WINDOW		CARE & MAINTENANCE	
Features and Benefits	75		217
Installation	79		
Cross Sectional Views	87		
BIFOLD WINDOW			
Features and Benefits	93		
Installation	97		
Cross Sectional Views	105		

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Note: Hardware displayed in images may vary from state to state due to supplier availability.Trend® Windows & Doors Pty Ltd reserve the right to make changes to products(s) without notices.

Please note that drawings displayed in this document are not to scale

Quantum® Awning Window Features & Benefits

Awning Window - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium window frame - ideal for larger window applications.

SASH

- 62mm wide window sash section.
- Sash protected from the weather by a continuous hinge hood.
- Head, sill and jamb rails all have flat infill for clean lines.

SILL

- Modern sill provides a clean appearance from the inside and the outside. Awning window can be coupled to large fixed lite windows.

GLAZING & ENERGY EFFICIENCY

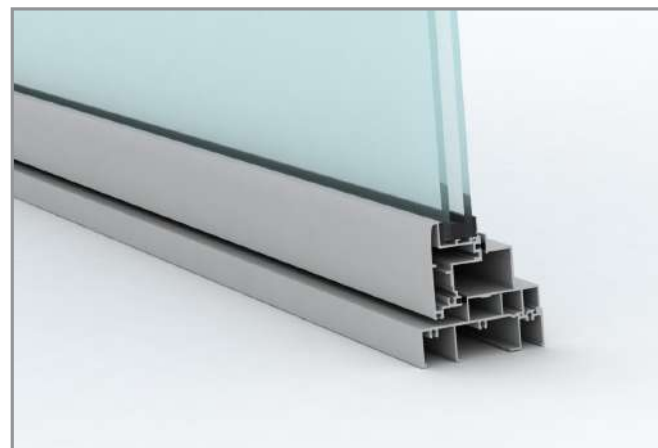
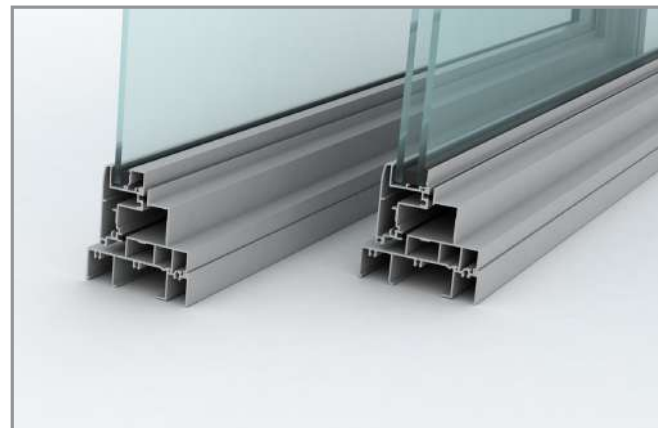
- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 24mm insulated glazed units (IGUs).
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction
- High R_w ratings available .

WIND & WATER RATINGS

- All Trend® Windows and Doors comply with Australian Standards AS2047 and are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating.
- Pascal deflection rates up to 2200Pa.
- Awning window rated at an air infiltration of 0.16L/s m² (below the the National Construction Code (NCC) for Air conditioned spaces of 1.00L/s m²) perfect for both air conditioned and non-air conditioned spaces.



SECURITY

- Awning windows come standard with key lockable scissor arm winder.
- 100mm child-safe window opening restrictor is available.
- Optional **Prowler Proof** security screens available.

BUSHFIRE

- Xtreme® Bushfire Protection option available.
- Xtreme® options have been tested by CSIRO to meet BAL-40 - compliant to AS1530.8.1 within Australian Standards AS3959-2009.



HARDWARE

- High performance key lock scissor action winder mechanism.
- **Infinity** Satin Chrome hardware comes standard on awning windows.
- Optional colours available:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- For frames higher than 1499mm and/or wider than 1201mm, side cam lock is standard.
- Window locks can be keyed alike to other Quantum® products for ease of use.

OPTIONS

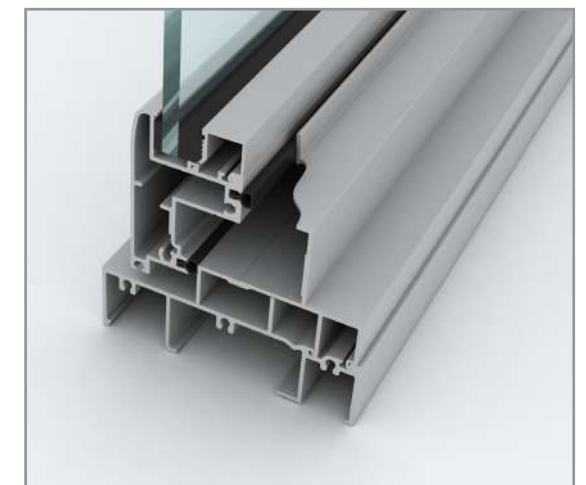
- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powder coated colours.
- Easy to fit and remove flyscreens available.
- Customised WERS ratings.
- Variety of sizes and custom made options available (including bay window styles).
- Variety of configuration options available.

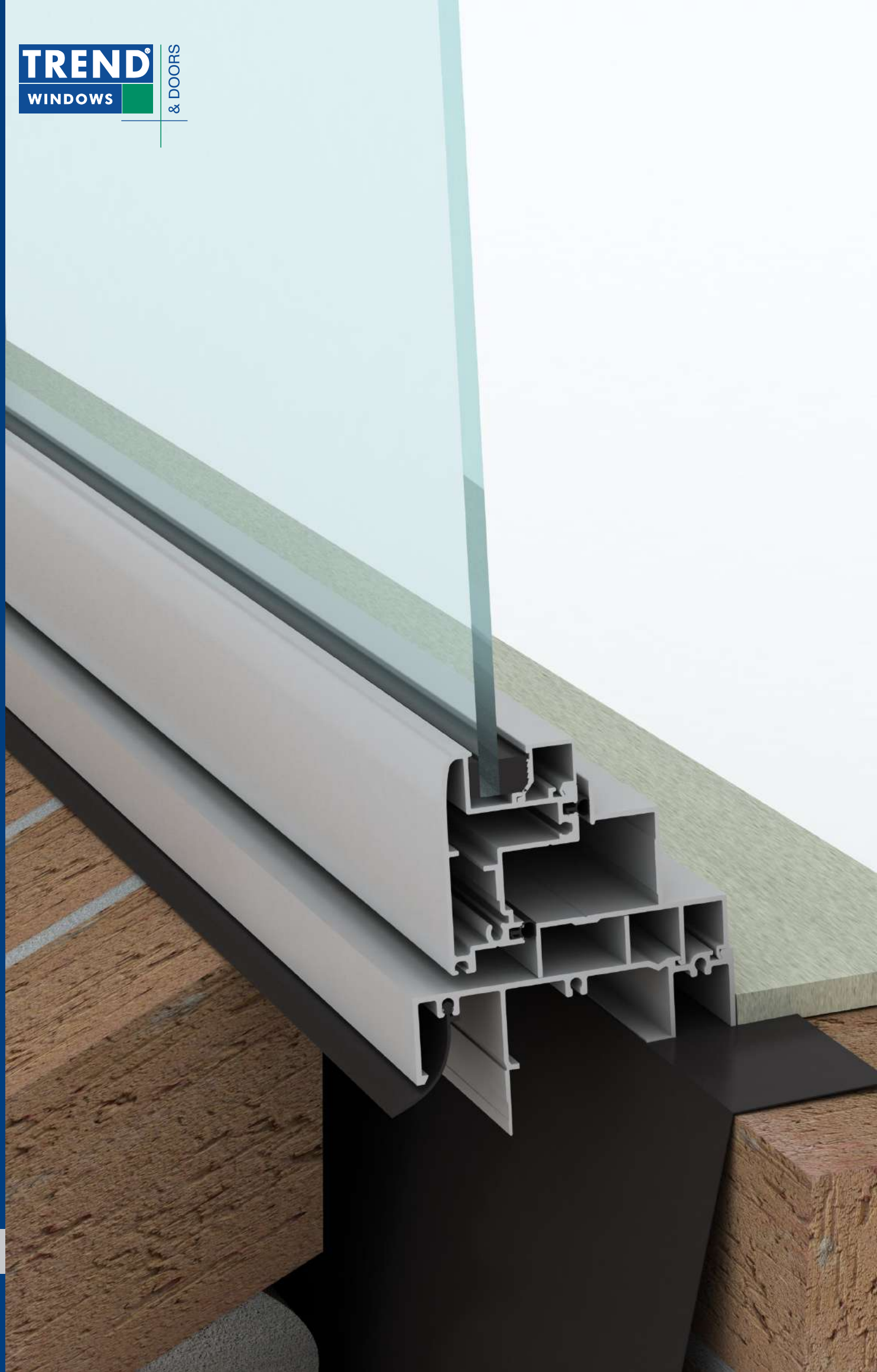
**Ovolo only available in single glazing..*

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.

Note: Care should be taken when placing awning window near pedestrian access.





Quantum® Awning Window Installation

Awning Window - Installation

Building In Detail | **Brick Veneer - 240mm wall**



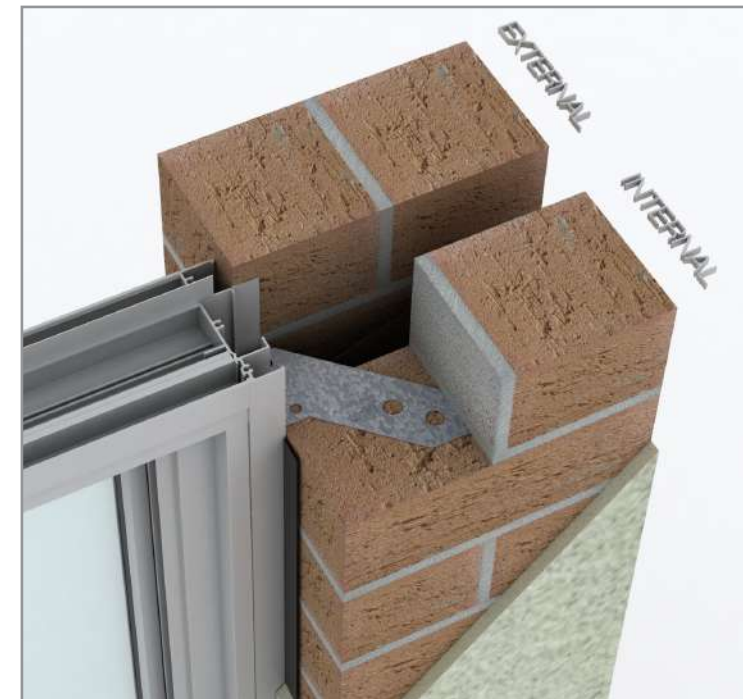
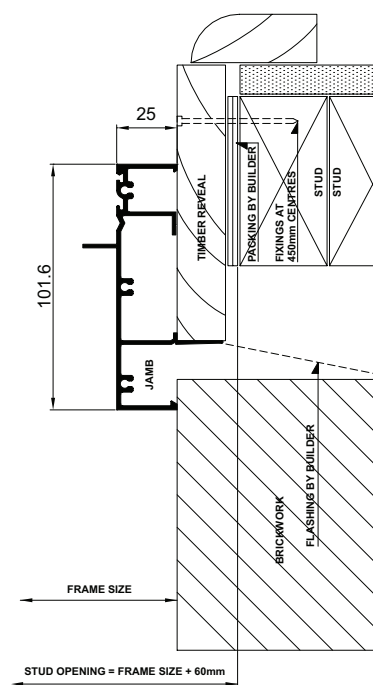
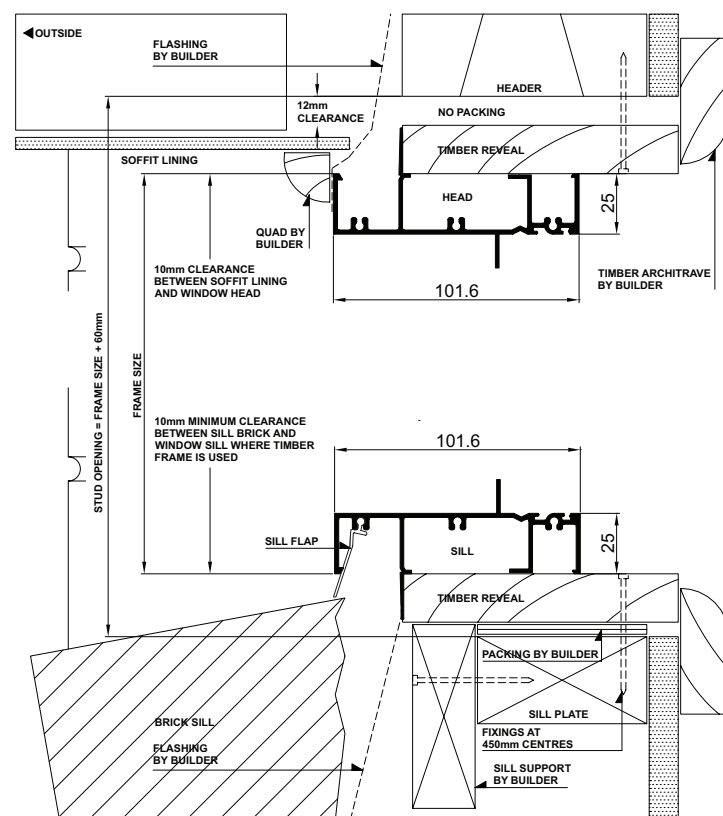
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of window, install sill support (refer to drawings below).



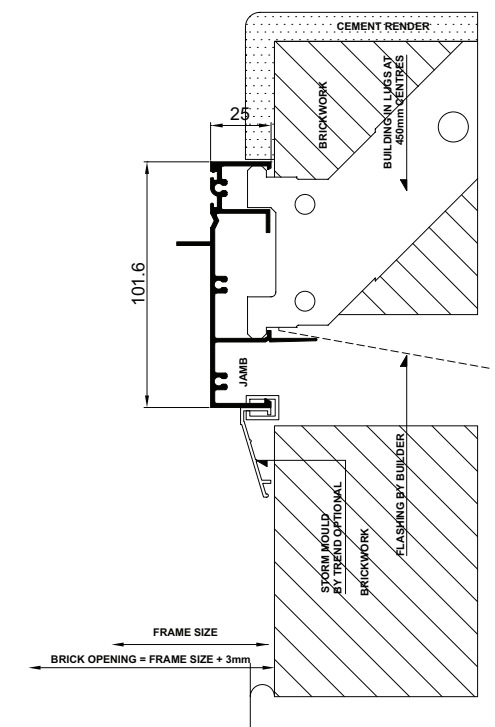
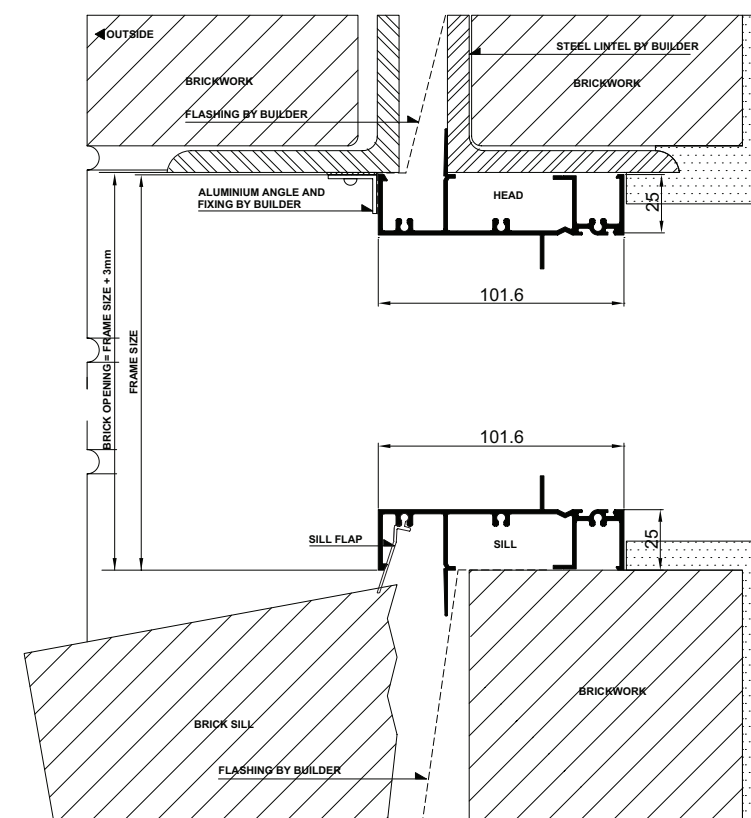
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

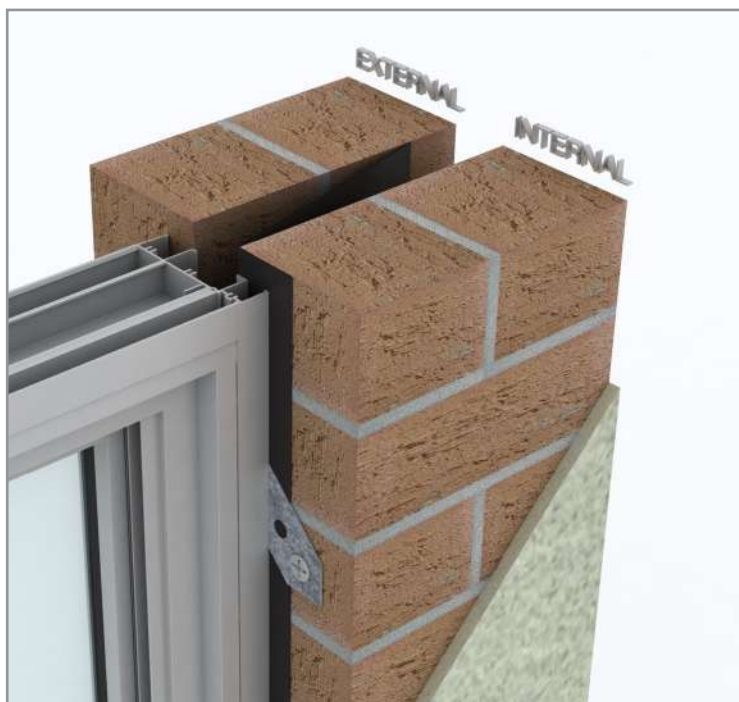
Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



Awning Window - Installation

Building In Detail | Double Brick - 280mm wall | Prepared Opening



INSTALLING FRAME CORRECTLY

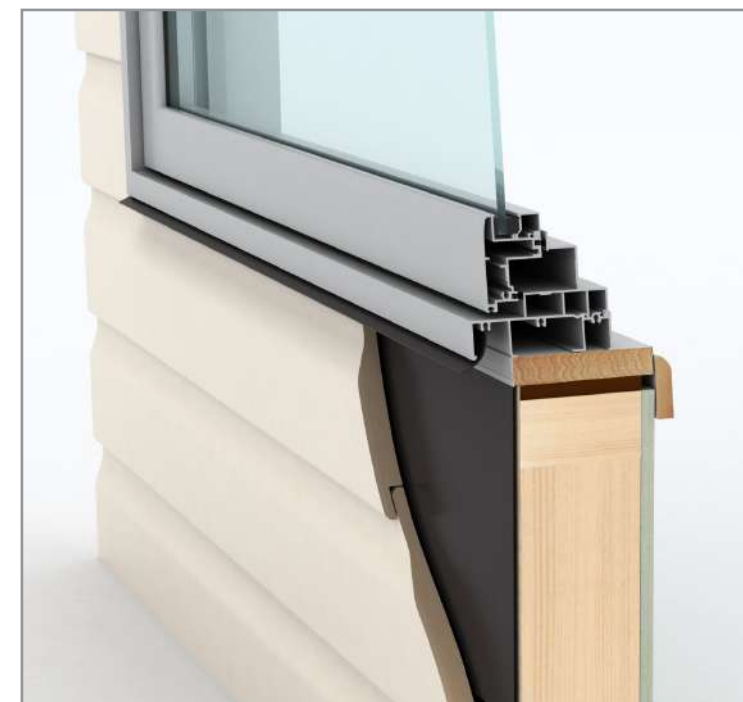
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm

Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



INSTALLING FRAME CORRECTLY

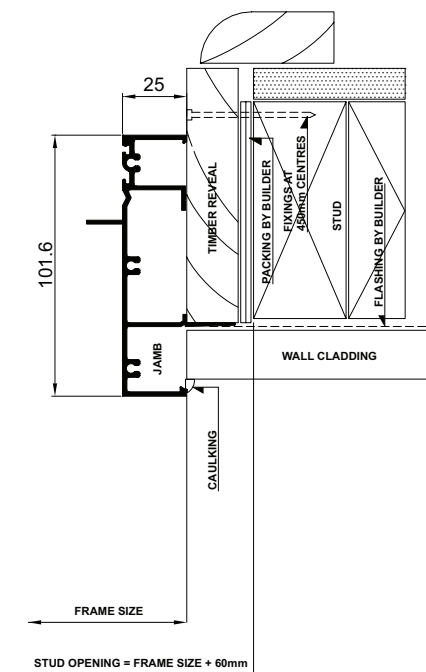
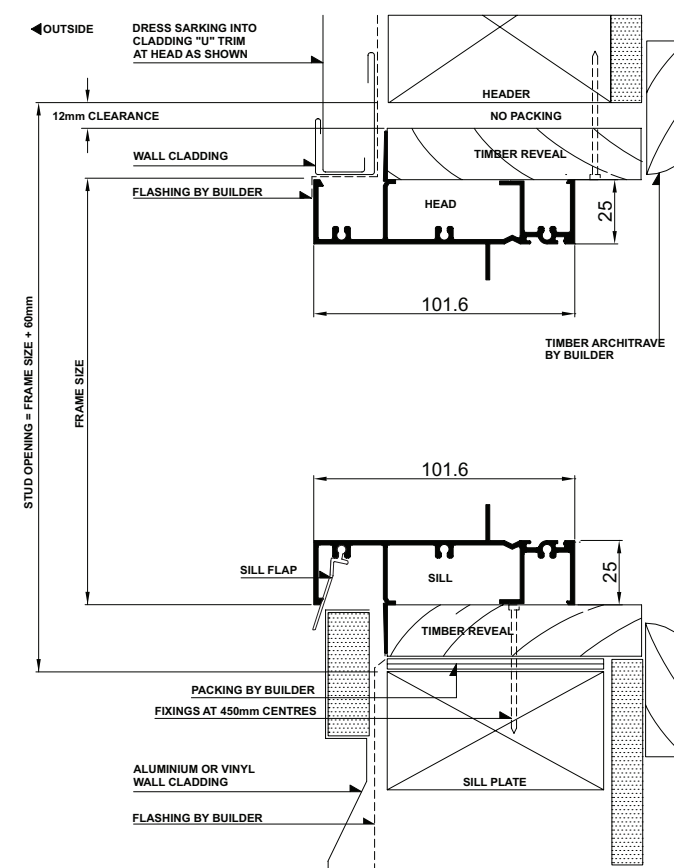
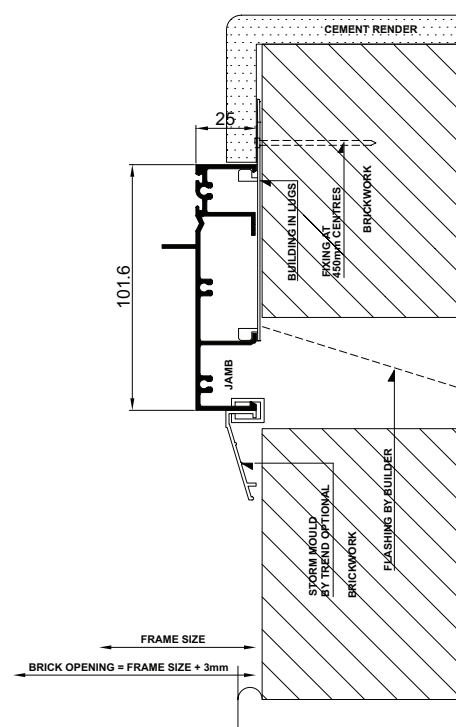
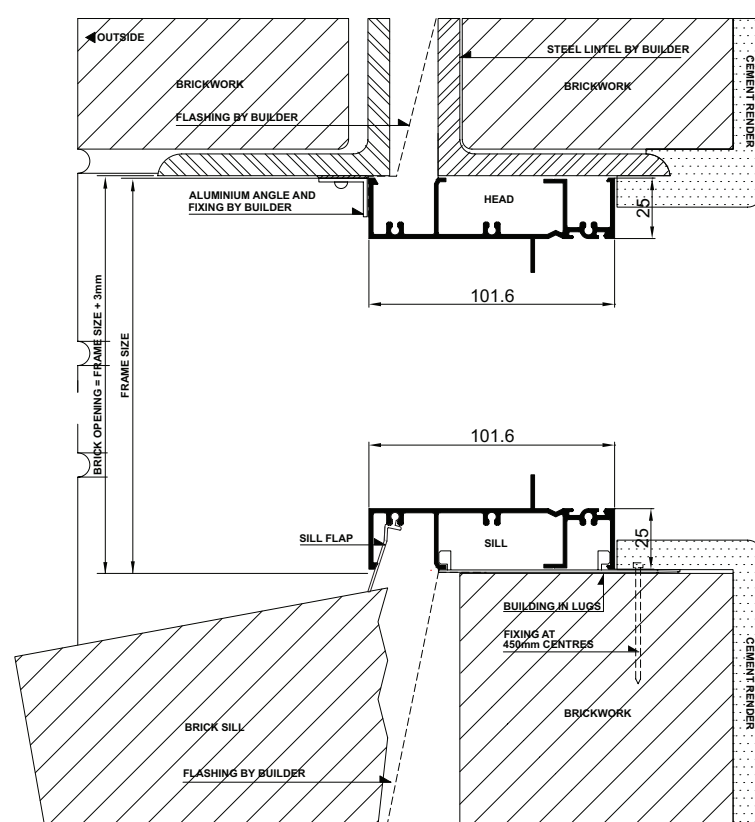
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm

Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



Awning Window - Installation

Building In Detail | **Blockwork**



INSTALLING FRAME CORRECTLY

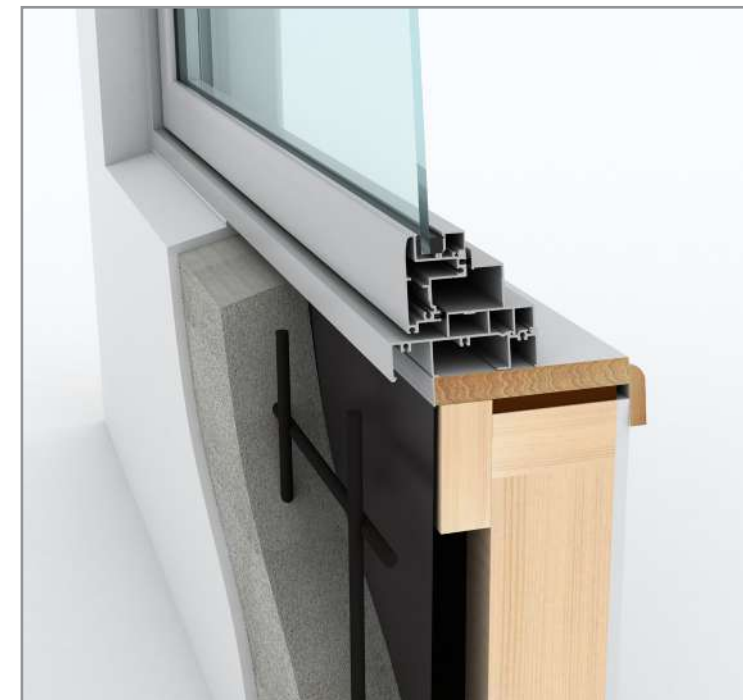
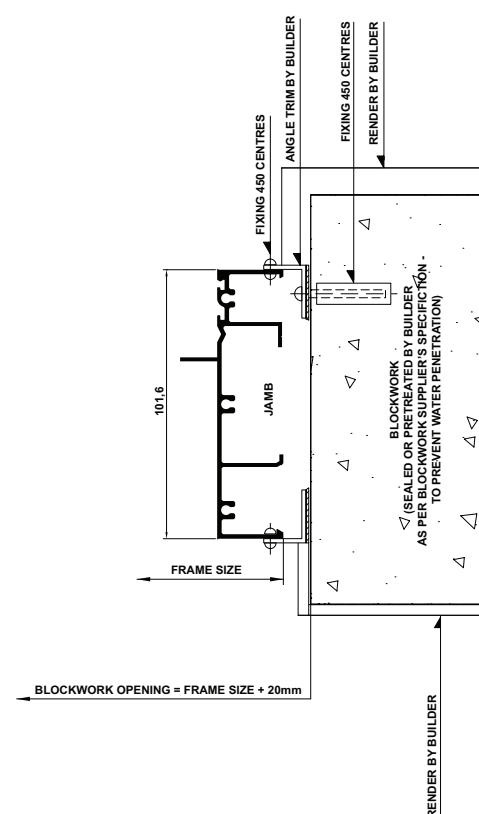
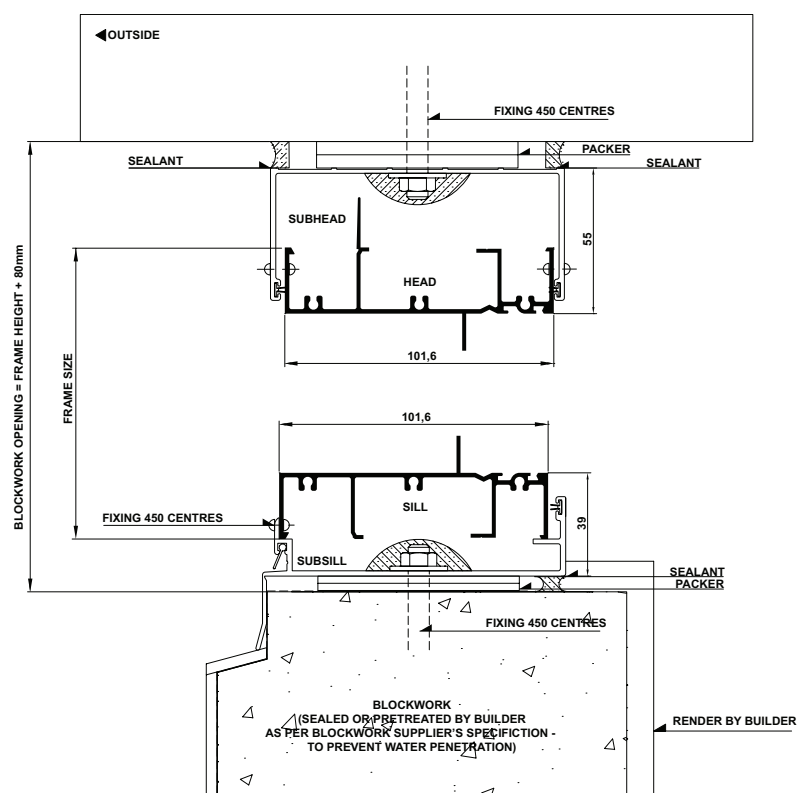
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm

Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Seal ends of subsill with angle.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



INSTALLING FRAME CORRECTLY

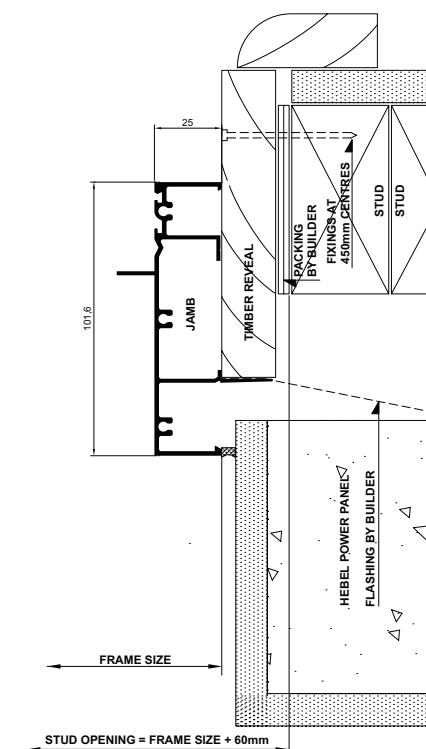
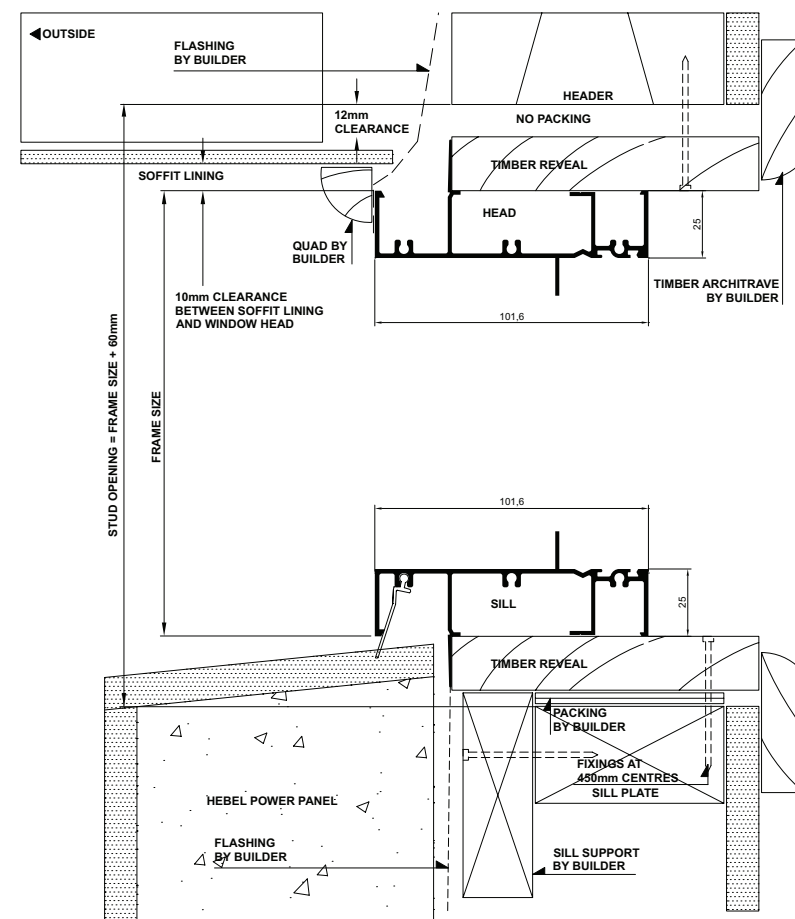
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

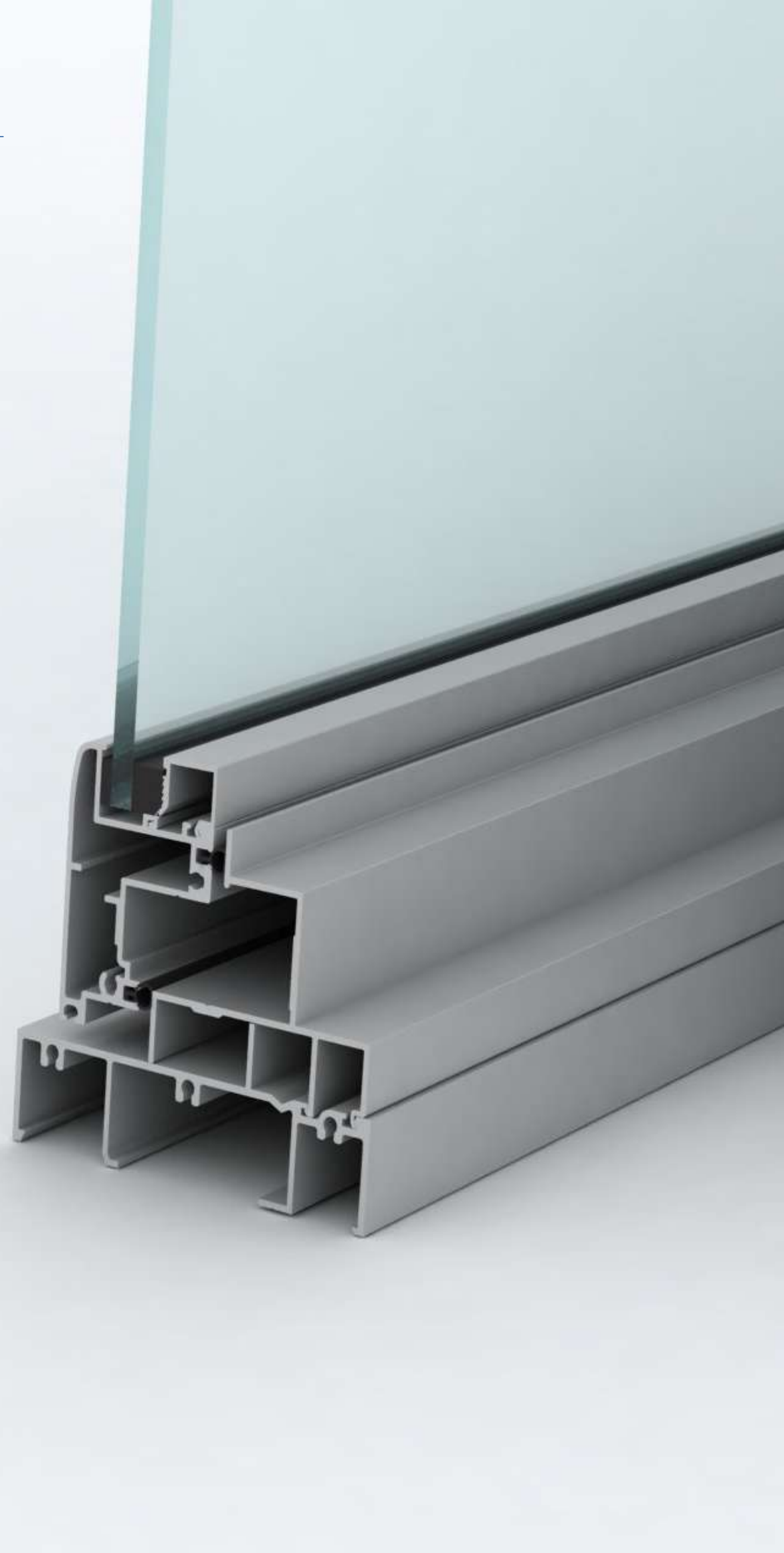
Stud Opening:

Height = Frame Size + 60mm

Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Caulk between render and frame.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).

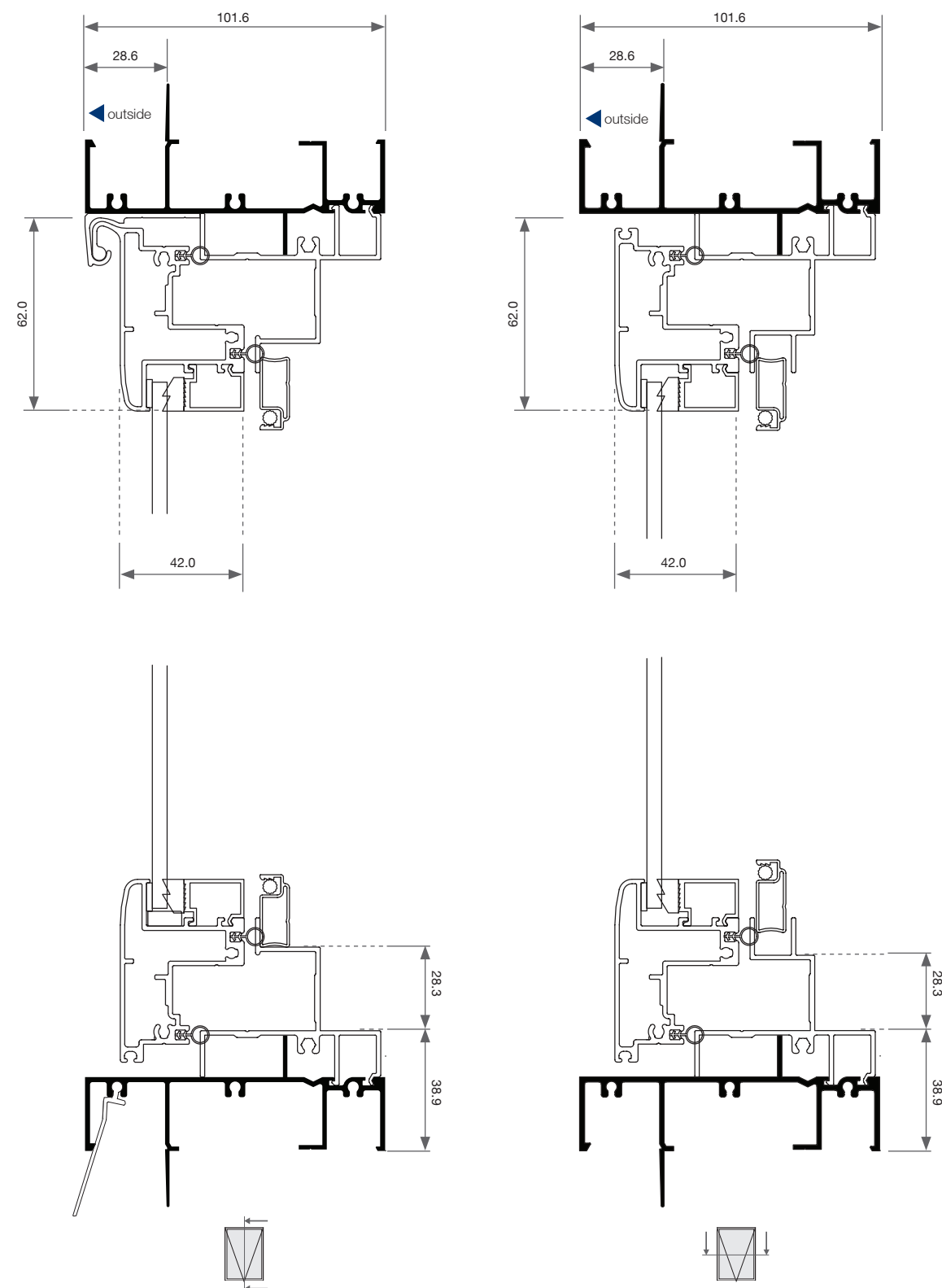




Quantum® Awning Window Cross Sectional Views

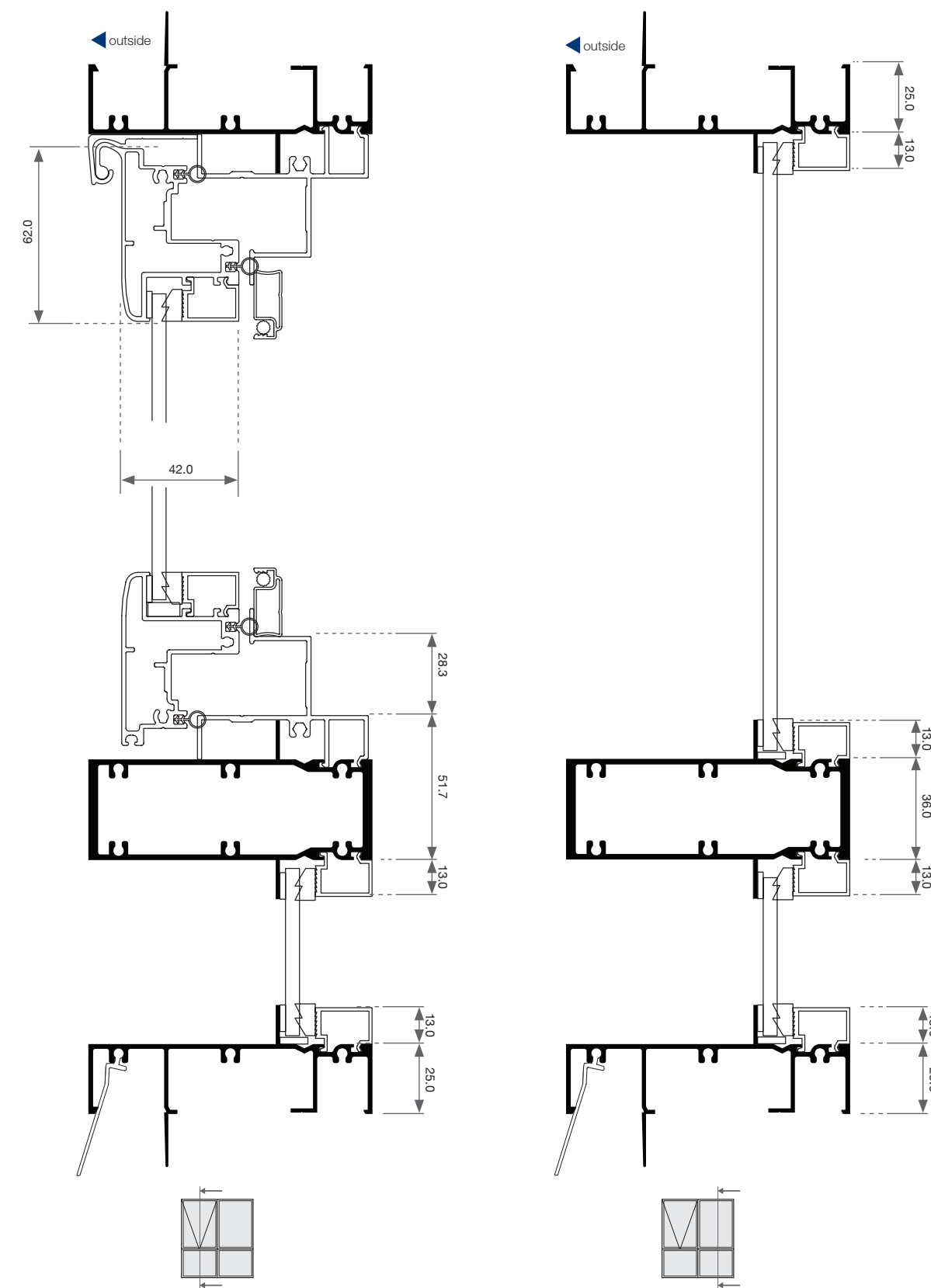
Awning Window - Cross Sectional View

Single Lite



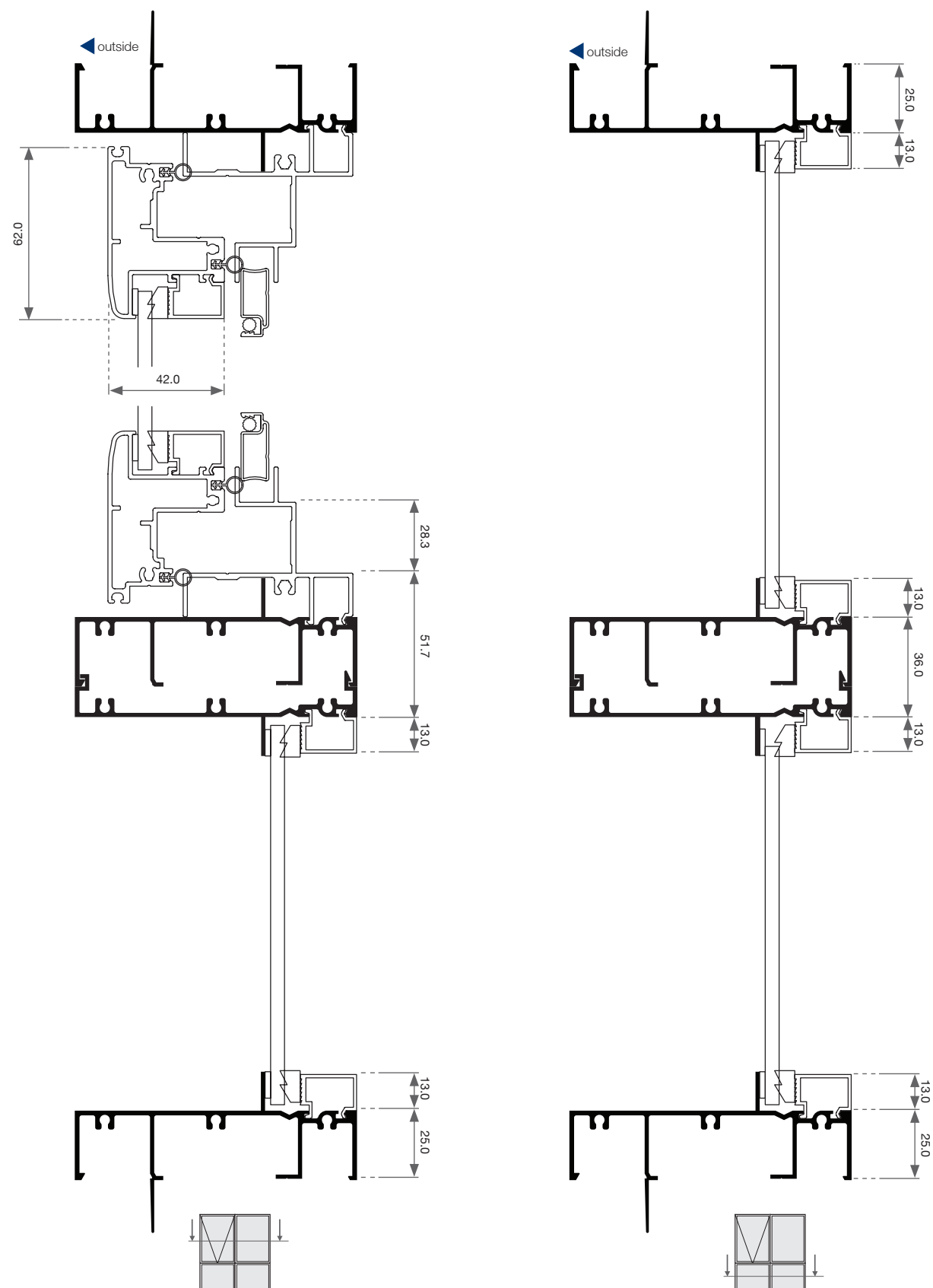
Awning Window - Cross Sectional View

Two Lite | Transom | Elevation



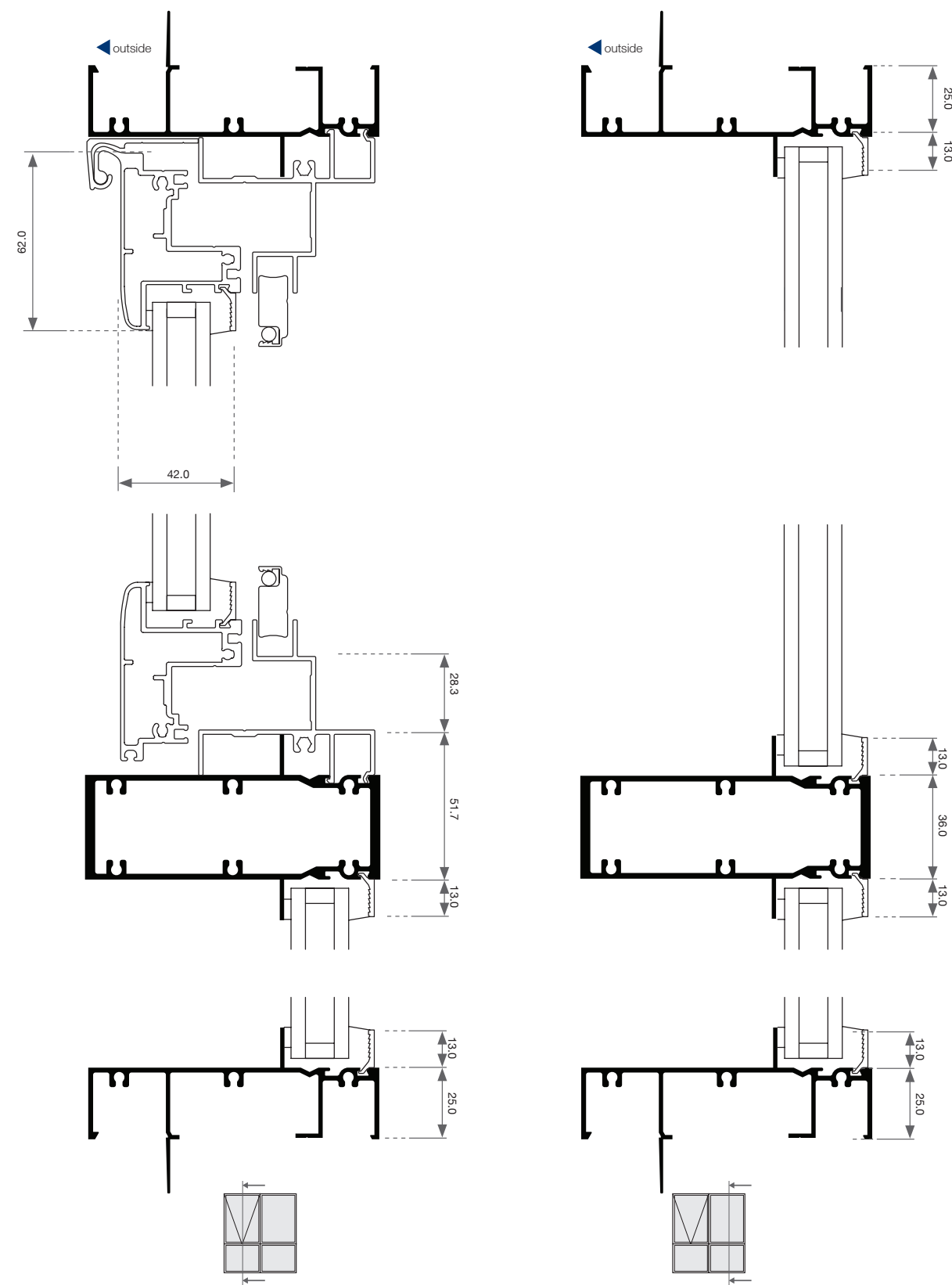
Awning Window - Cross Sectional View

Two Lite | Transom | Plan



Awning Window - Cross Sectional View

Two Lite | Transom | Double Glazed





Quantum® Casement Window

Features & Benefits

Casement Window - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium window frame - ideal for larger window applications.

SASH

- 62mm wide window sash section.
- Head, sill and jamb rails all have flat infill for clean lines.
- Window design allows for 90° angle opening.

SILL

- Modern sill provides a clean appearance from the inside and the outside. Casement window can be coupled to large fixed lite windows.

GLAZING & ENERGY EFFICIENCY

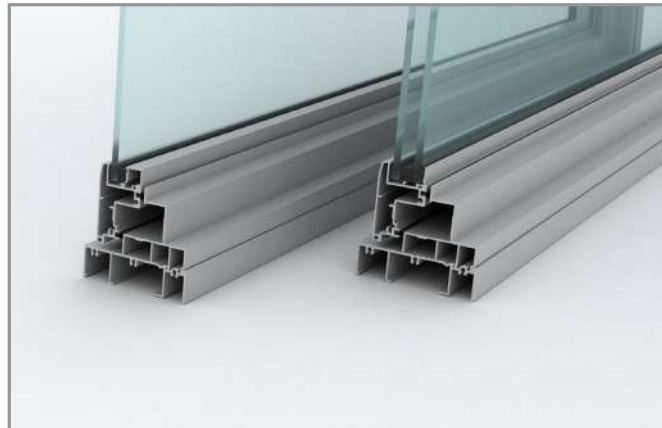
- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 24mm insulated glazed units (IGUs).
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction
- High R_w ratings available.

WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Pascal deflection rates up to 2200Pa.
- Casement window rated at an air infiltration of 0.16L/s m² (below the the National Construction Code (NCC) for Air conditioned spaces of 1.00L/s m²) perfect for both air conditioned and non-air conditioned spaces.



SECURITY

- High performance key lockable dual arm winder for security.
- 100mm child-safe window opening restrictor available.
- Optional **Prowler Proof** security screens available.

BUSHFIRE

- Xtreme® Bushfire Protection option available.
- Xtreme® options have been tested by CSIRO to meet BAL-40 - compliant to AS1530.8.1 within Australian Standards AS3959-2009.



HARDWARE

- High performance key lock scissor action winder mechanism.
- **Infinity** Satin Chrome hardware comes standard on casement windows.
- Optional colours available:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Side latch handle operates by a 180° rotation from the open to close position, concealed within the window frame.
- Window locks can be keyed alike to other Quantum® products for ease.

OPTIONS

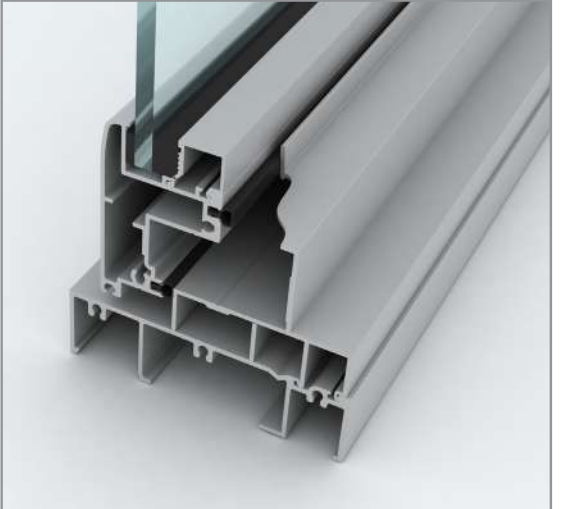
- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powder coating colours.
- Easy to fit and remove flyscreens available
- Customised WERS ratings.
- Variety of sizes and custom made options available (including Bay window styles).
- Variety of configuration options available.

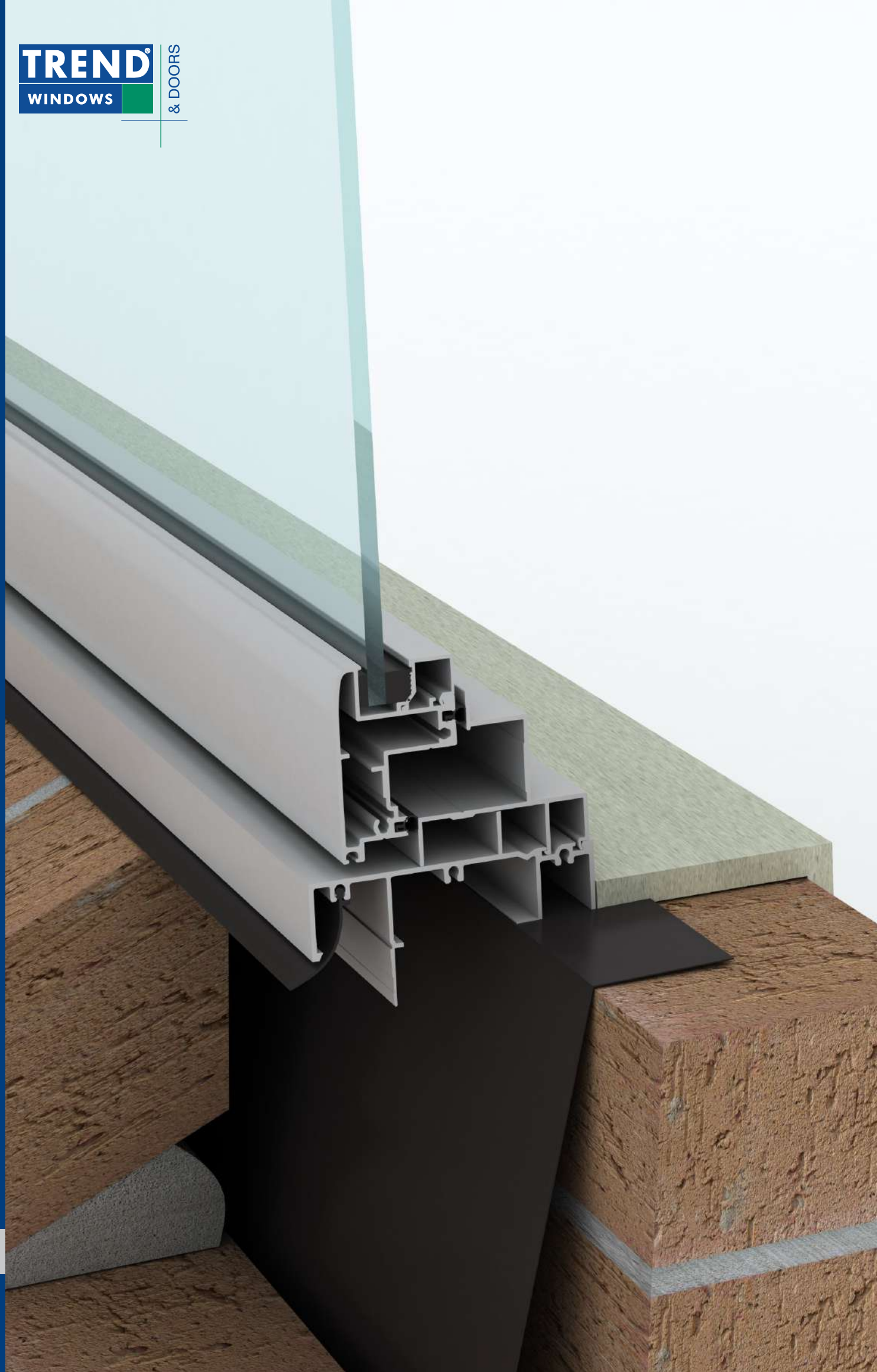
**Ovolo only available in single glazing.*

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.

Note: Care should be taken when placing casement window near pedestrian access.





Quantum® Casement Window Installation

Casement Window - Installation

Building In Detail | Double Brick- 280mm wall | Prepared Opening



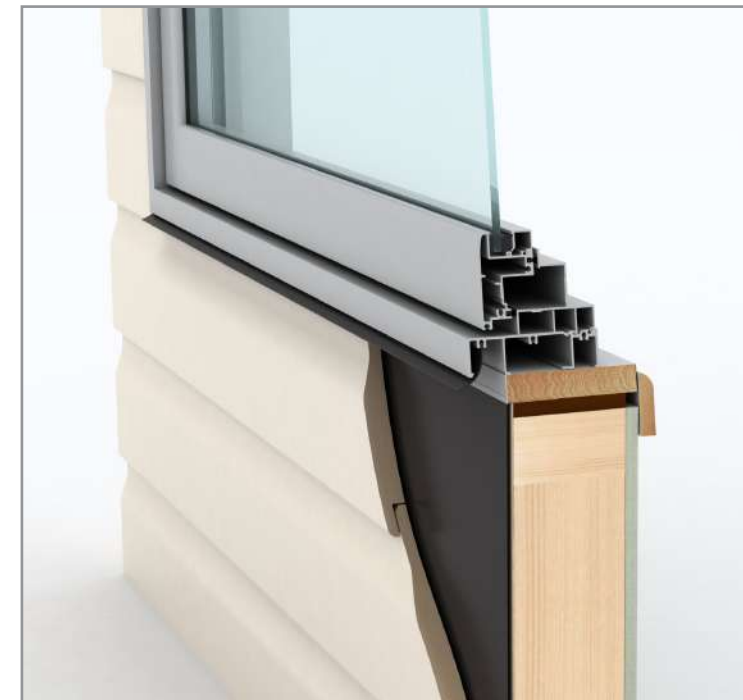
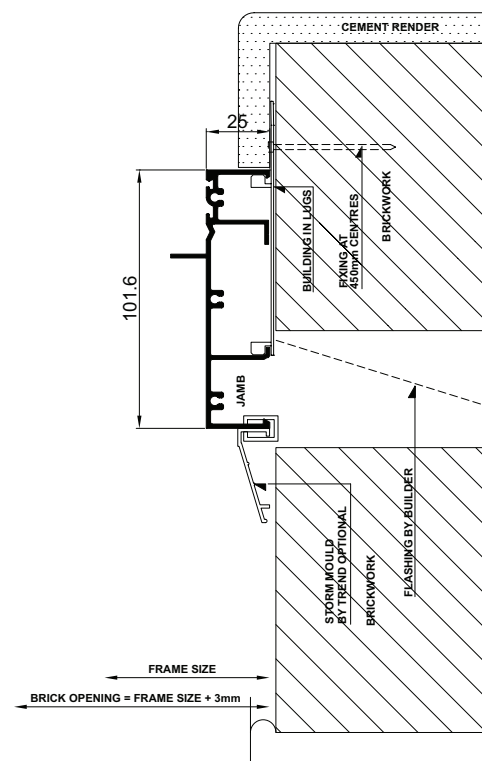
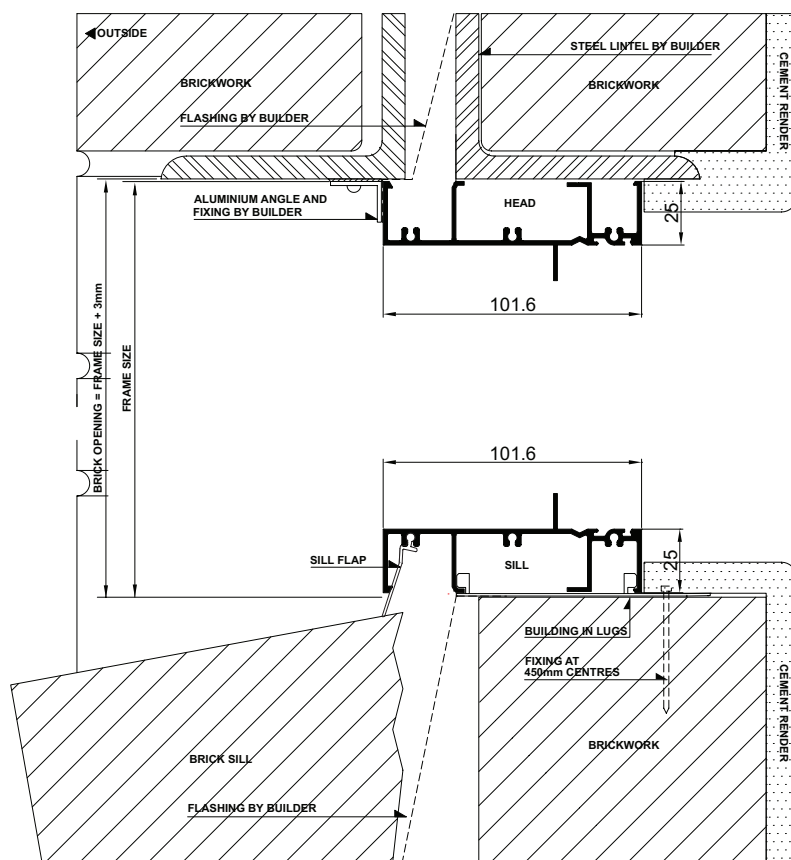
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



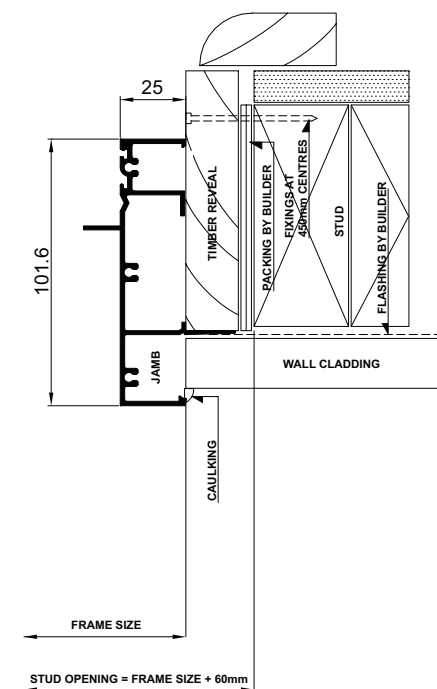
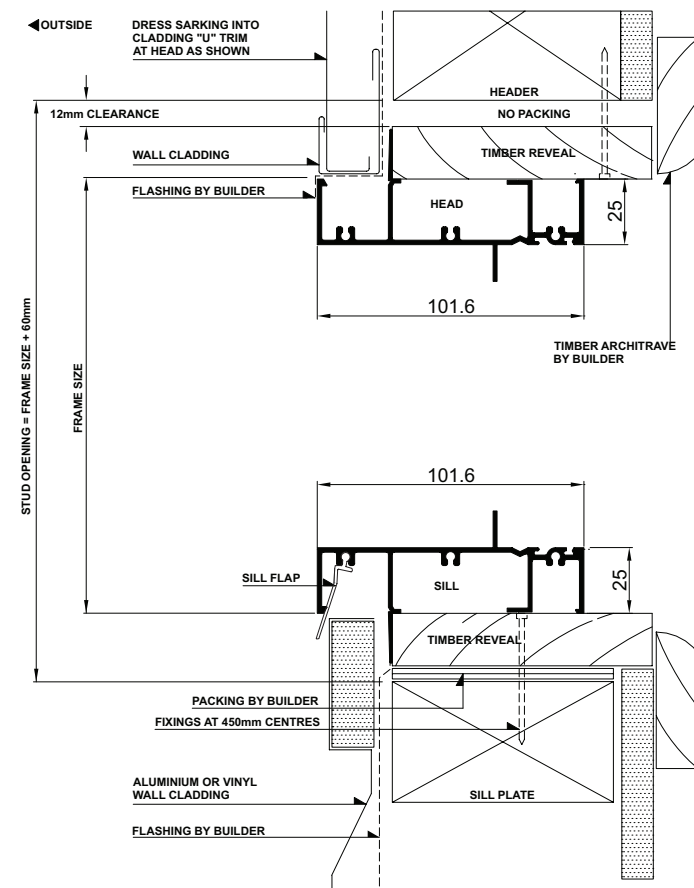
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).



Casement Window - Installation

Building In Detail | **Blockwork**



INSTALLING FRAME CORRECTLY

- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm

Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Seal ends of subsill with angle.
- Fit window to subframe (screw or pop-rivet).
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INSTALLING FRAME CORRECTLY

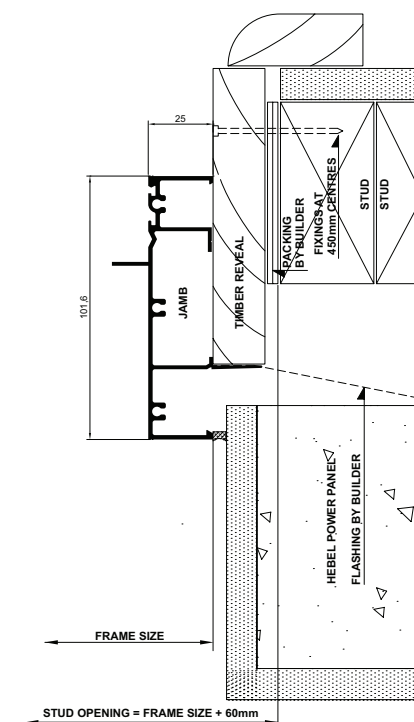
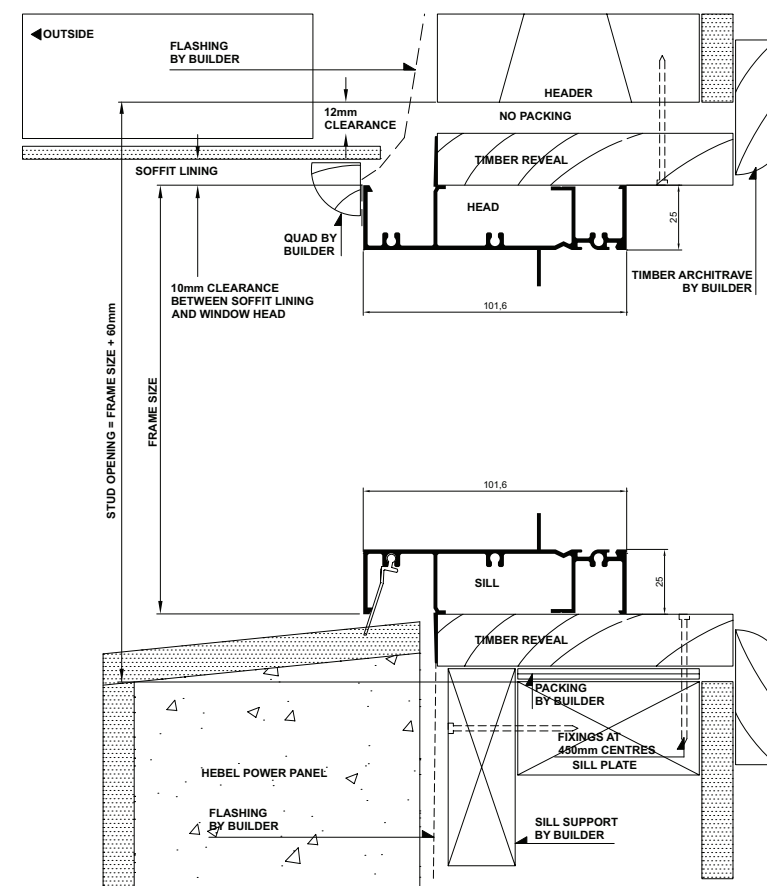
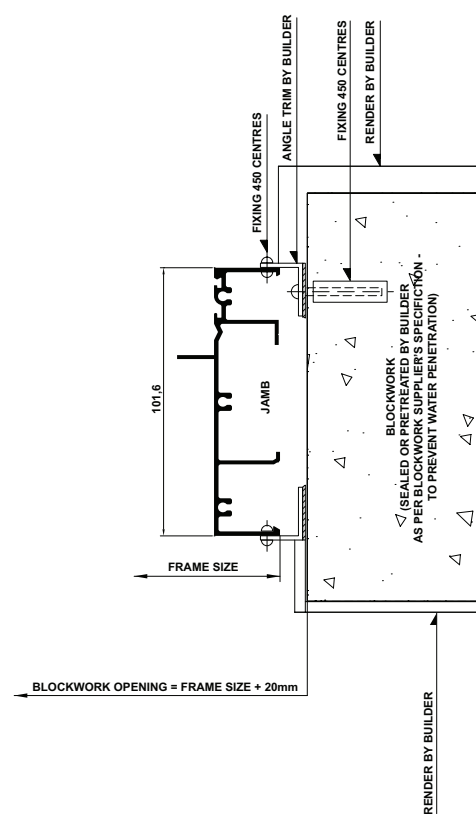
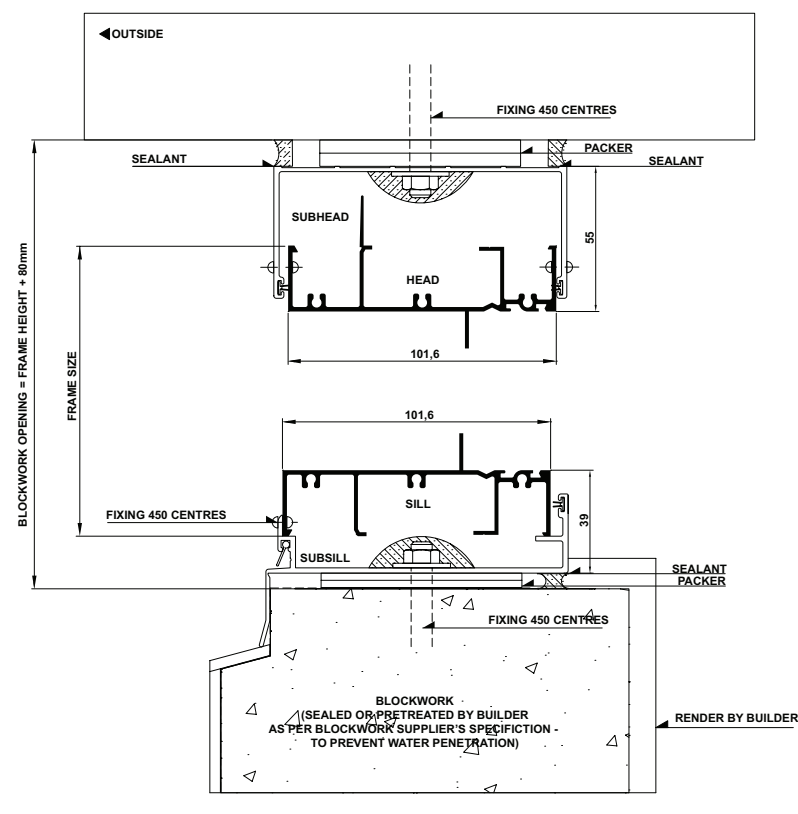
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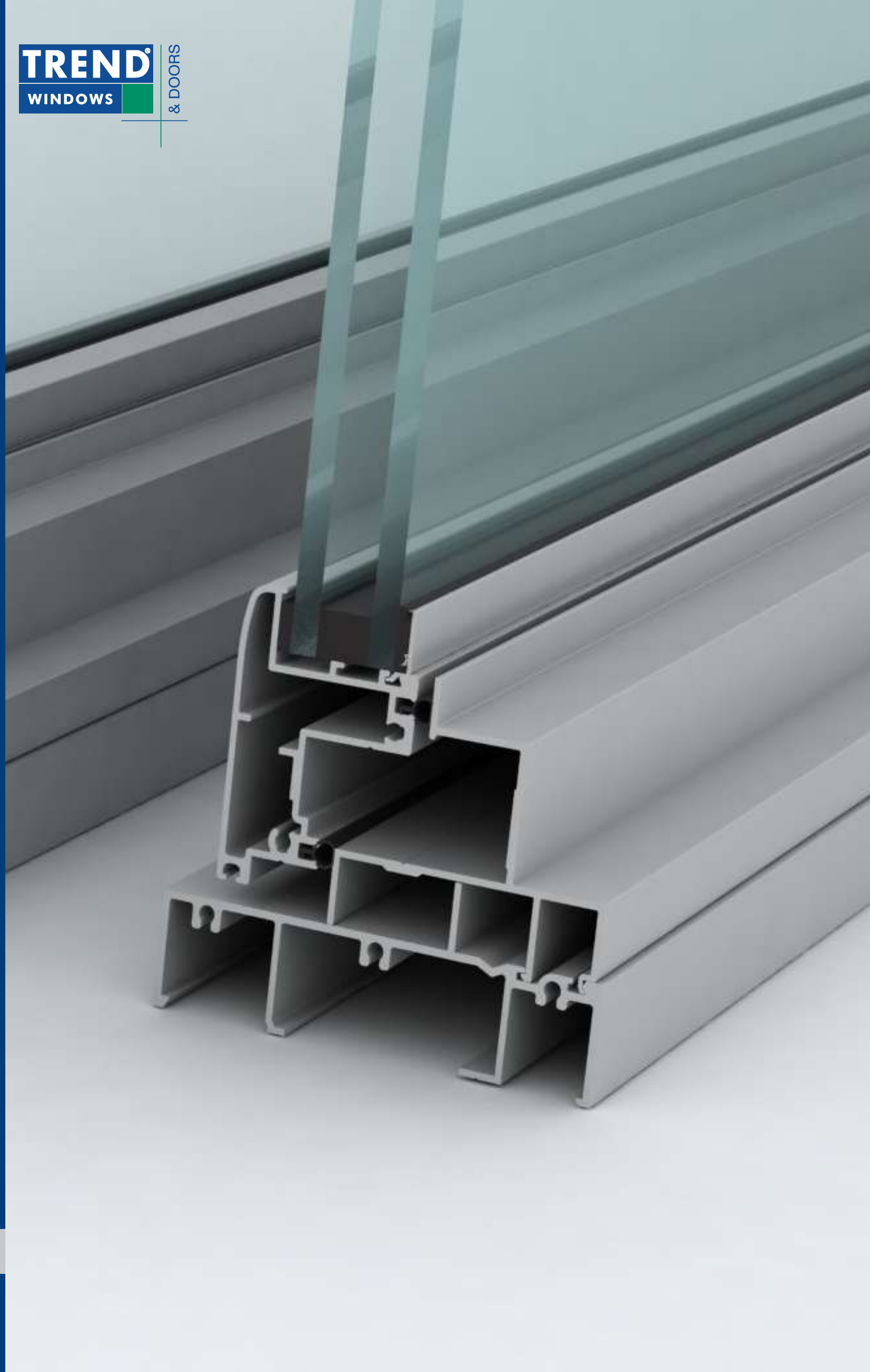
Stud Opening:

Height = Frame Size + 60mm

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- Caulk between render and frame.
- Header beam should be at least 12mm clear of window frame.
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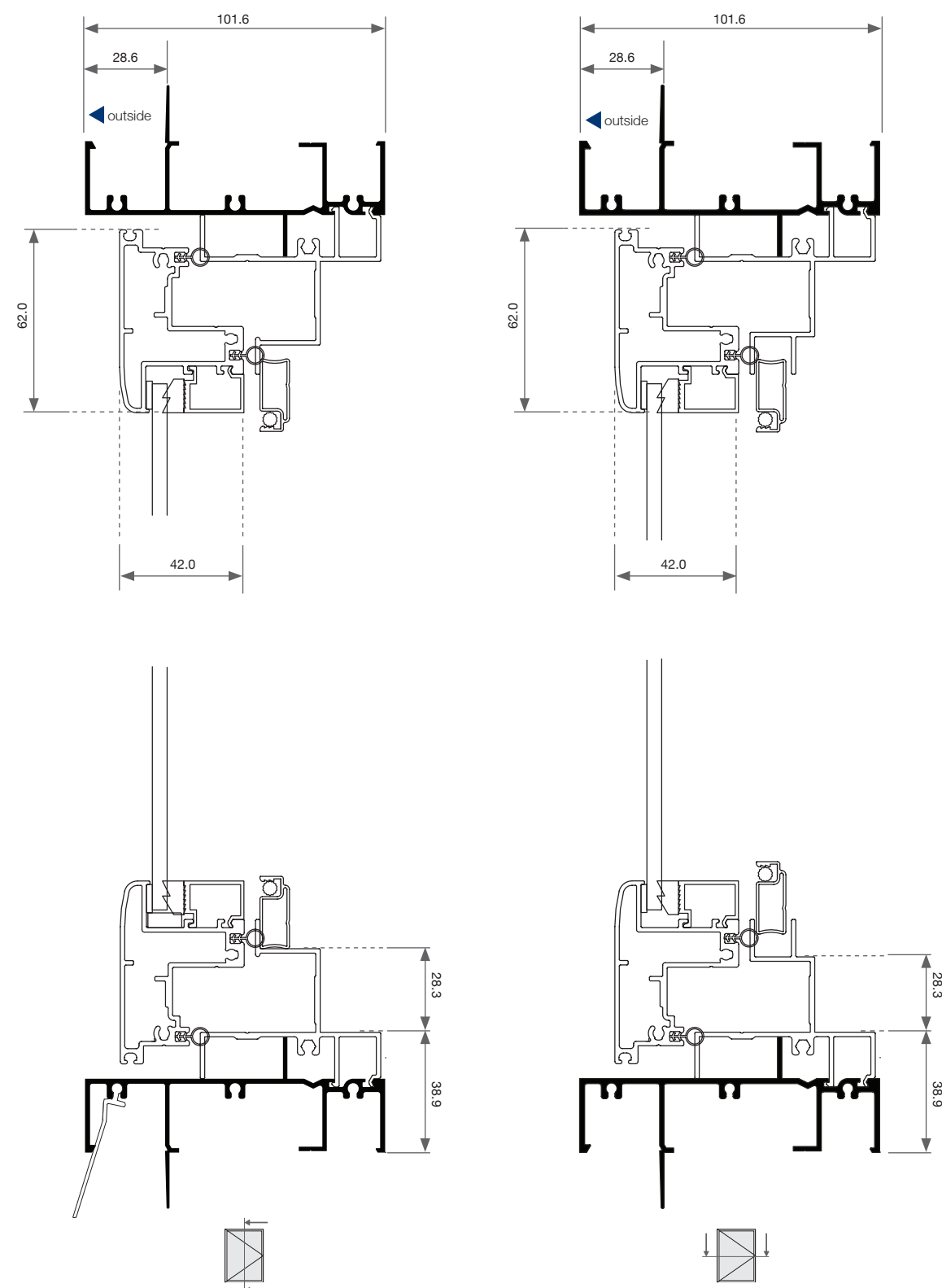




Quantum® Casement Window Cross Sectional Views

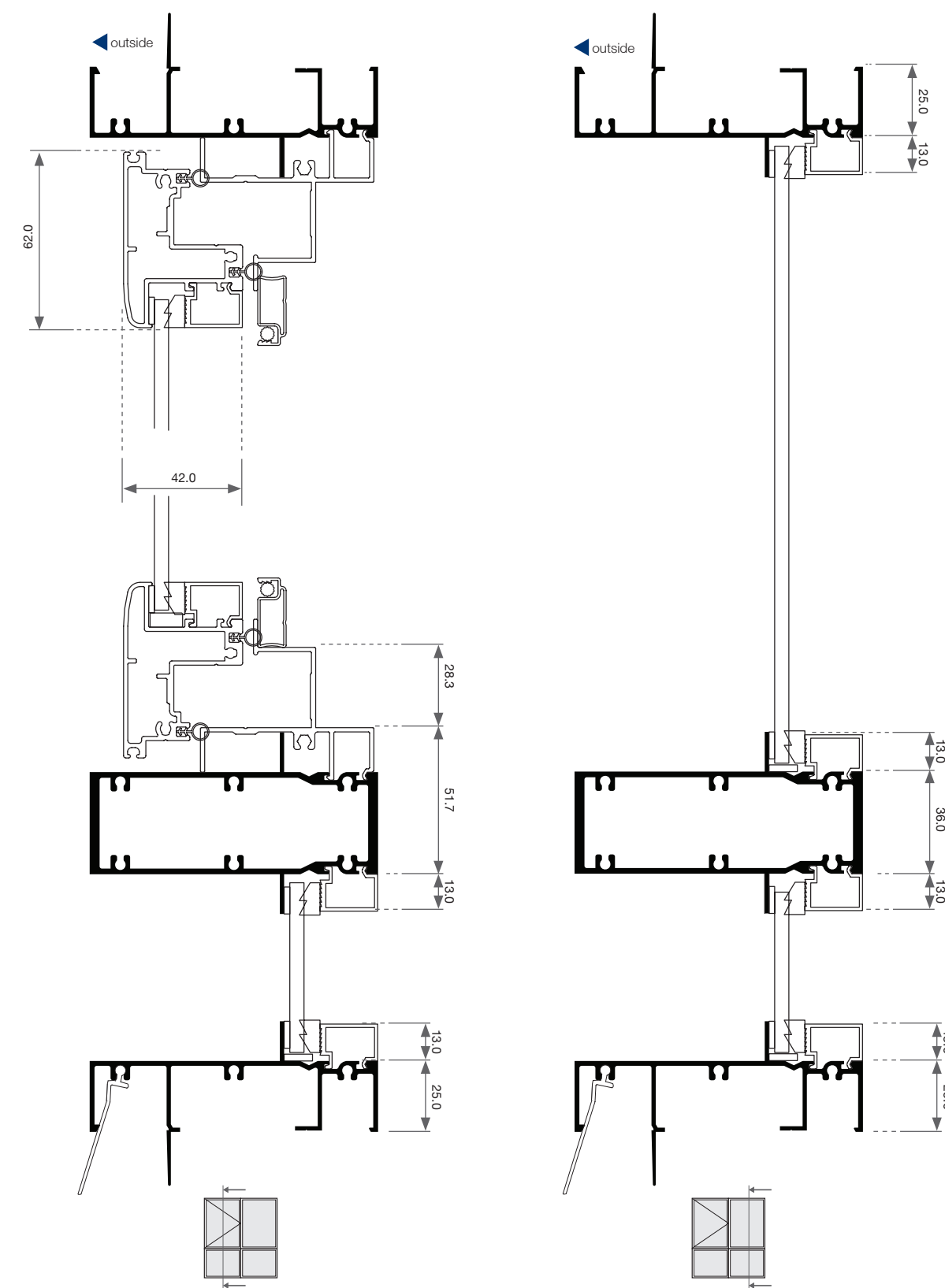
Casement Window - Cross Sectional View

Single Lite



Casement Window - Cross Sectional View

Two Lite | Transom | Elevation



Quantum® Sliding Window **Features & Benefits**

Sliding Window - Features & Benefits

Sliding Window - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium window frame - ideal for larger window applications.

SASH

- 55mm sash stile slides effortlessly on heavy duty double bogey rollers.
- Head, sill and jamb rails all have flat infill for clean lines.
- Sashes can be reversed*.
- Operating sashes can easily be removable for cleaning and maintenance.
- Sash punched holes are fitted with infill caps.

**Only on two lite configurations; Striker holes in jamb will be visible.*

SILL

- Modern sill design with built-in sump sill and no insect traps for easy maintenance and cleaning.
- Sill track includes a rigid infill - helping eliminate paint wear in the track.

GLAZING & ENERGY EFFICIENCY

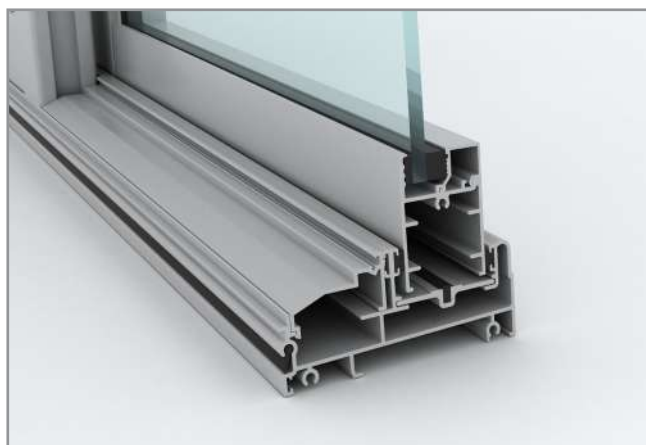
- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 24mm insulated glazed units (IGUs) .
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction
- High R_w ratings available

WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Pascal deflection rates up to 2200Pa.
- Sliding window rated at an air infiltration of 0.84L/s m² (below the the National Construction Code (NCC) for Air conditioned spaces of 1.00L/s m²) perfect for both air conditioned and non-air conditioned spaces.



SECURITY

- Sliding windows come standard with patented and architecturally designed Quantum® key lock.
- 100mm child-safe window opening restrictor is available.
- Optional concealed intergrated vent-lock available - allowing secure partial opening for ventilation.
- Optional **Prowler Proof** security screens available.

BUSHFIRE

- Xtreme® Bushfire Protection option available.
- Xtreme® options have been tested by CSIRO to meet BAL-40 - compliant to AS1530.8.1 within Australian Standards AS3959-2009.



HARDWARE

- **Infinity** Satin Chrome hardware with key lock comes standard on sliding windows.
- Optional colours are available:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Heavy duty dual roller system
- Window locks can be keyed alike to other Quantum® products for ease of use.

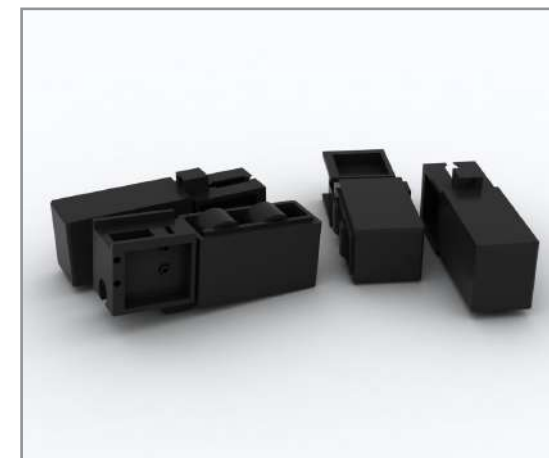
OPTIONS

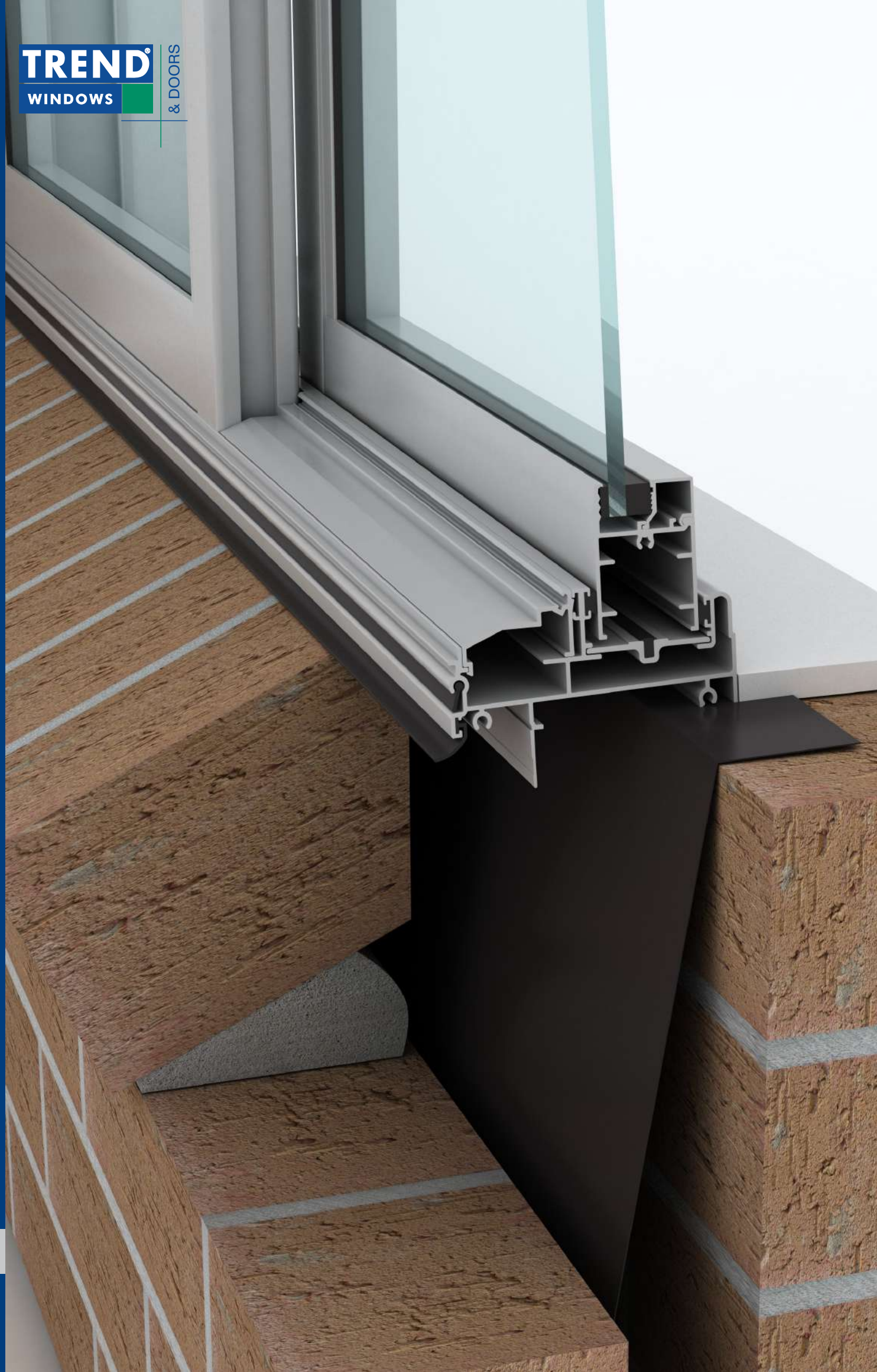
- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powder coated colours.
- Easy to fit and remove flyscreens available.
- Customised WERS ratings.
- Variety of sizes and custom made options available (including bay window styles).
- Variety of configuration options available.

**Ovolo only available in single glazing.*

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.





Quantum® Sliding Window Installation

Sliding Window - Installation

Building In Detail | **Brick Veneer - 240mm wall**



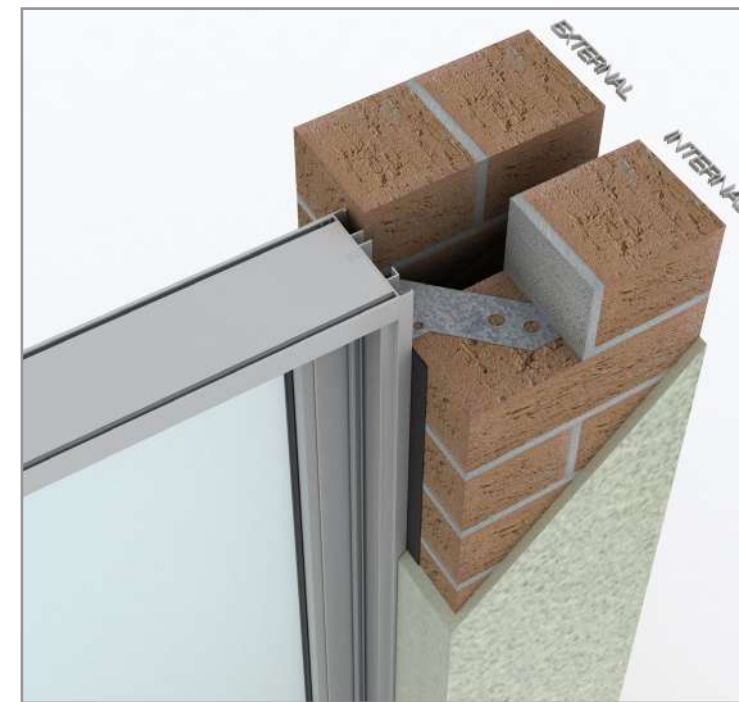
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of window, install sill support (refer to drawings below).



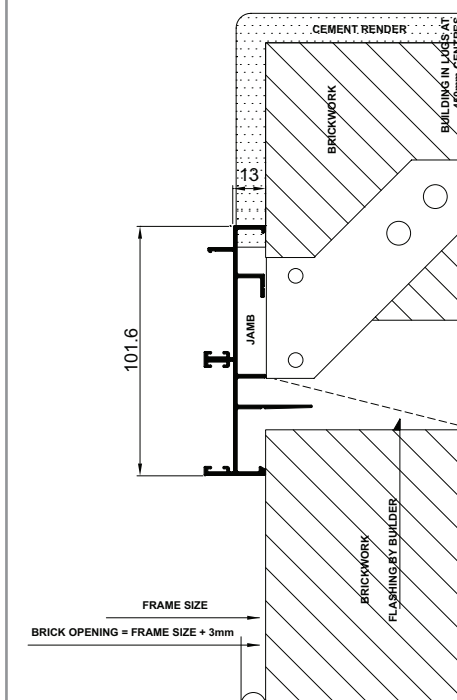
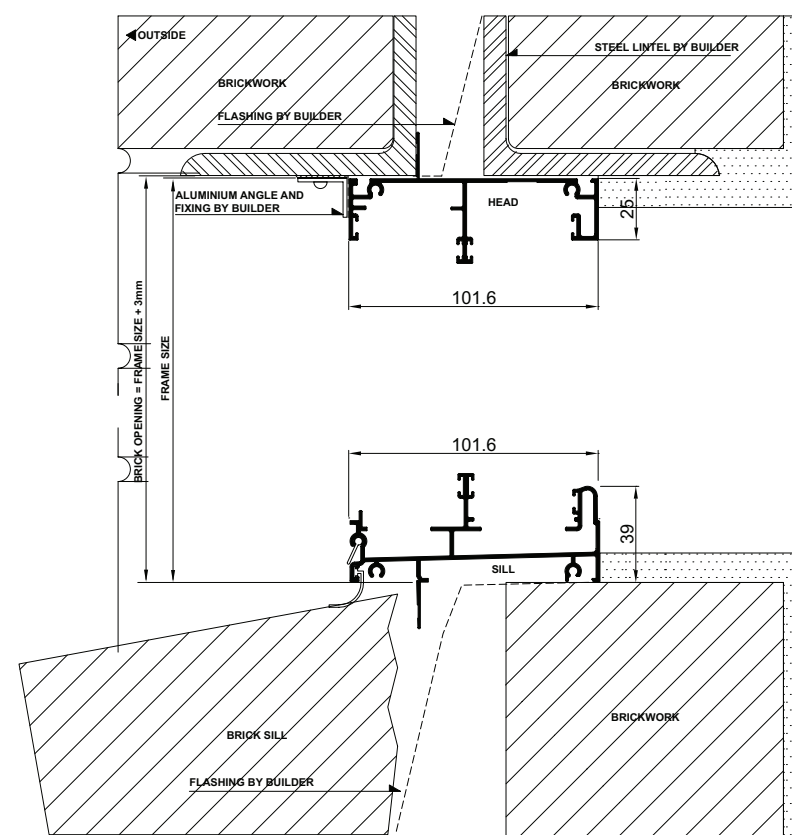
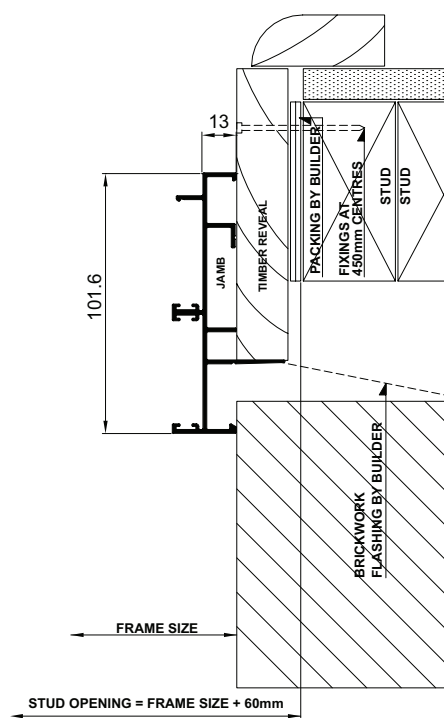
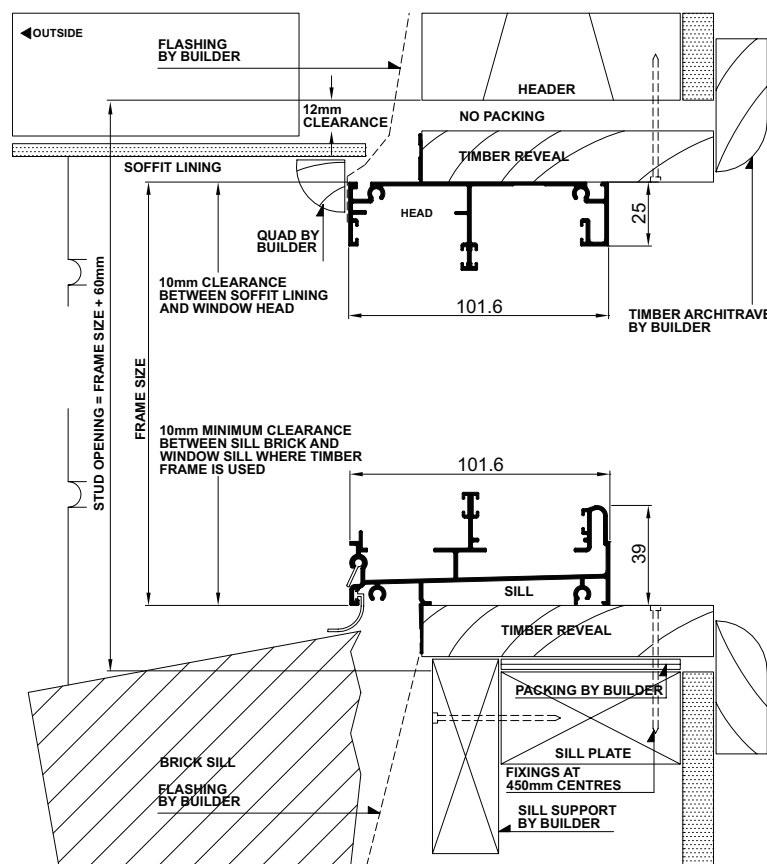
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

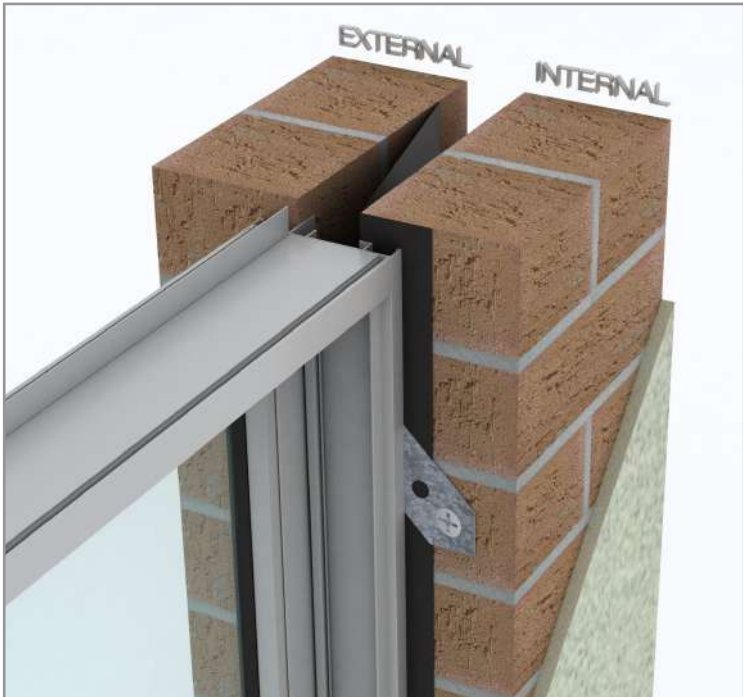
Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



Sliding Window - Installation

Building In Detail | Double Brick - 280mm wall | Prepared Opening

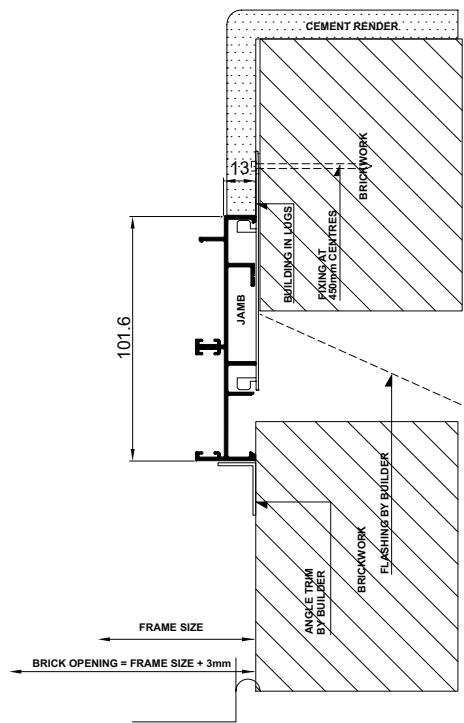
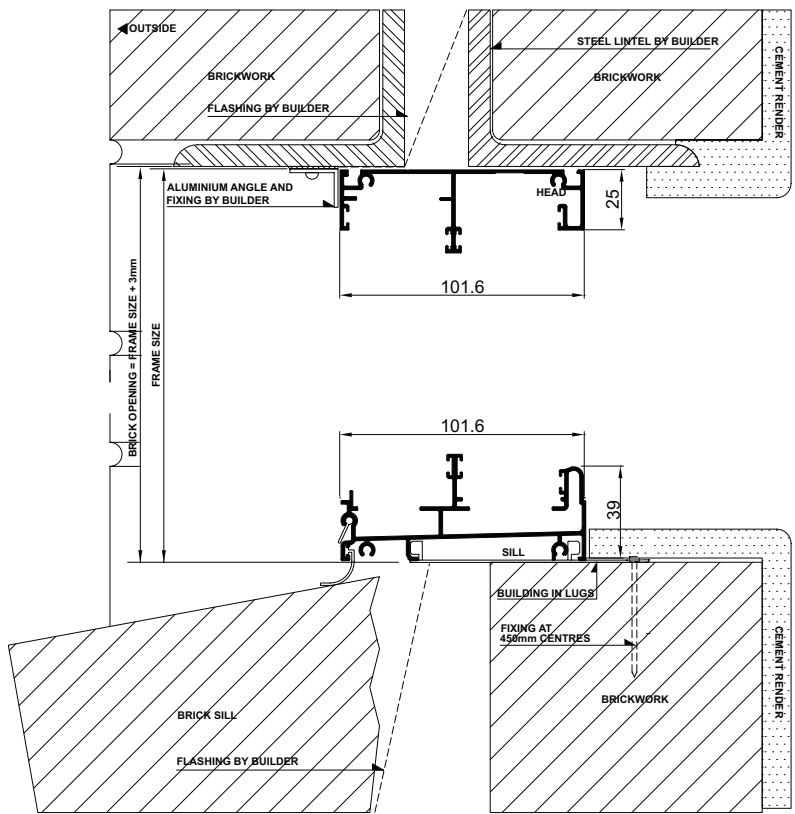


INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:
Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**

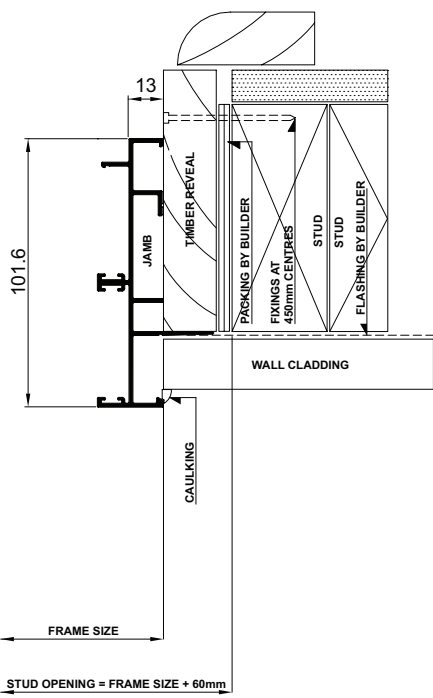
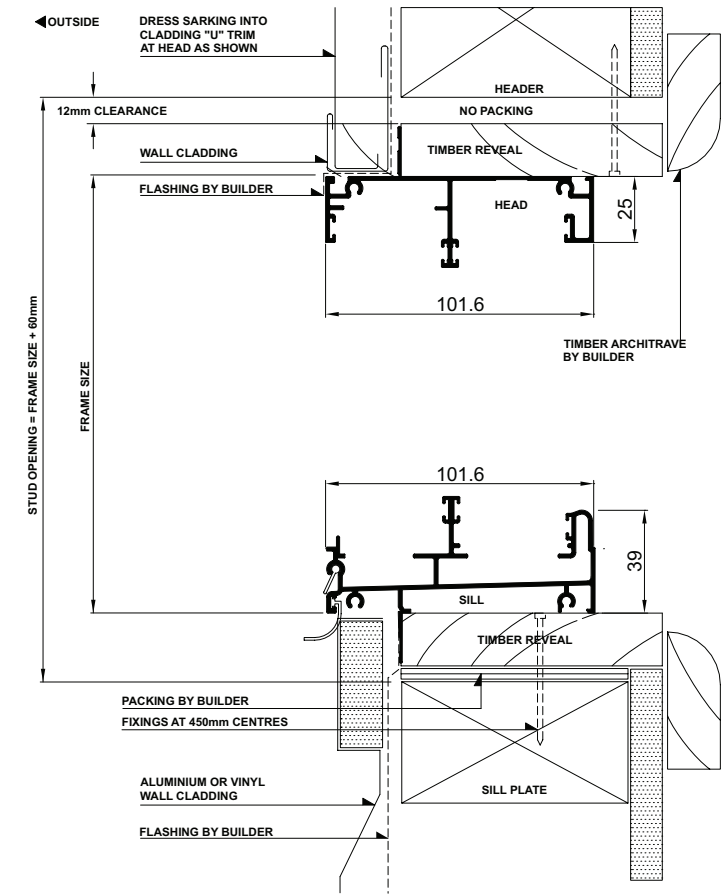


INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:
Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).



Sliding Window - Installation

Building In Detail | **Blockwork**



INSTALLING FRAME CORRECTLY

- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm

Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Seal ends of subsill with angle.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



INSTALLING FRAME CORRECTLY

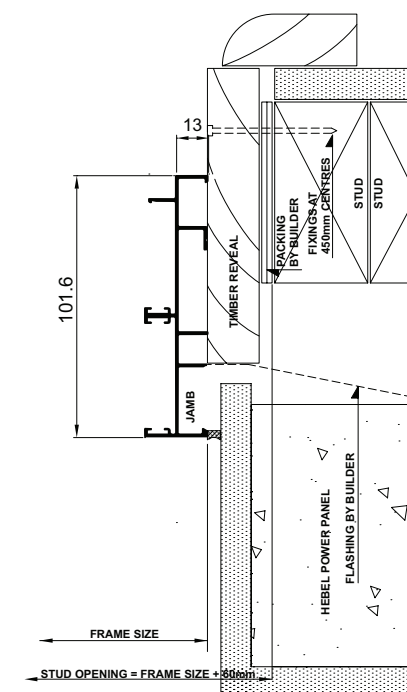
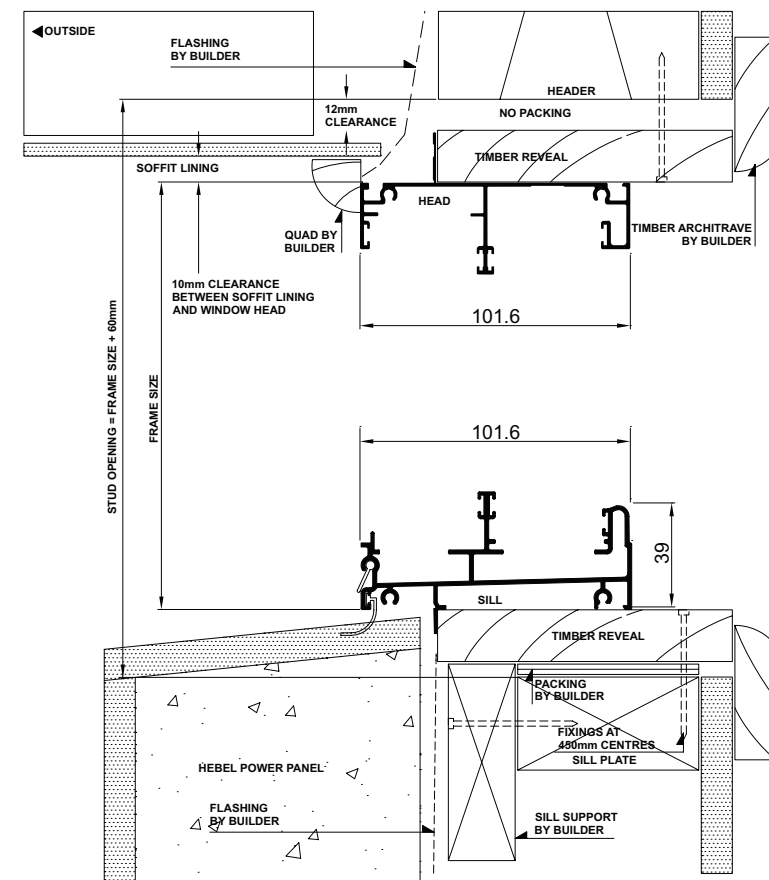
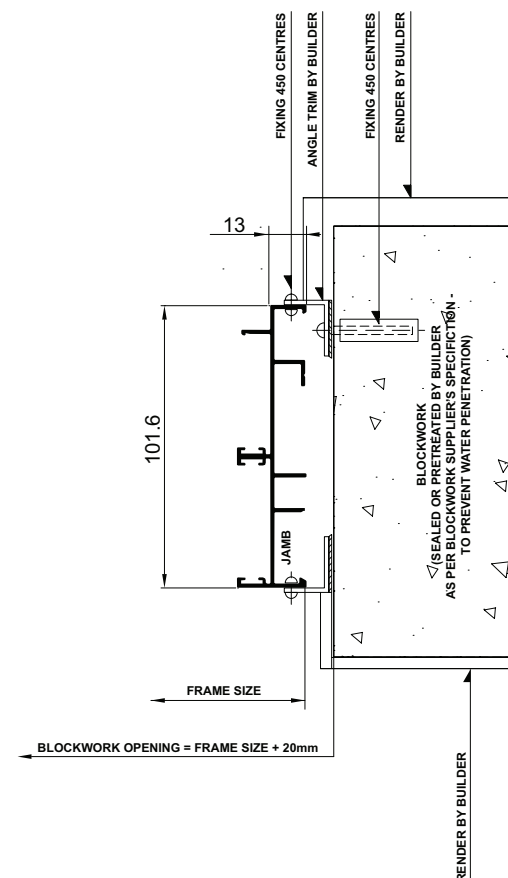
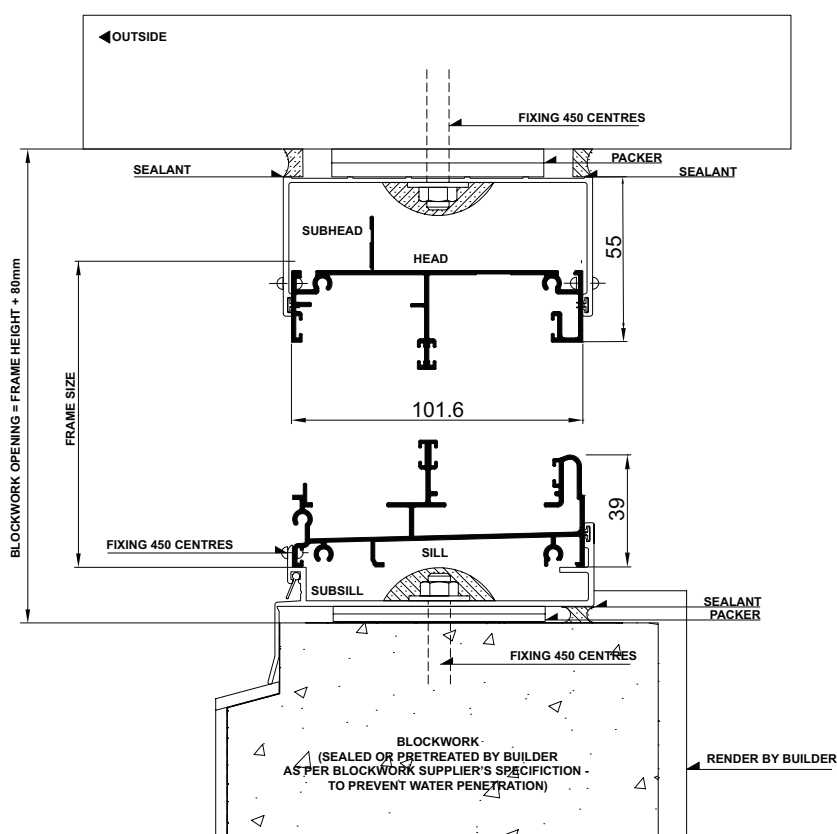
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm

Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Caulk between render and frame.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).

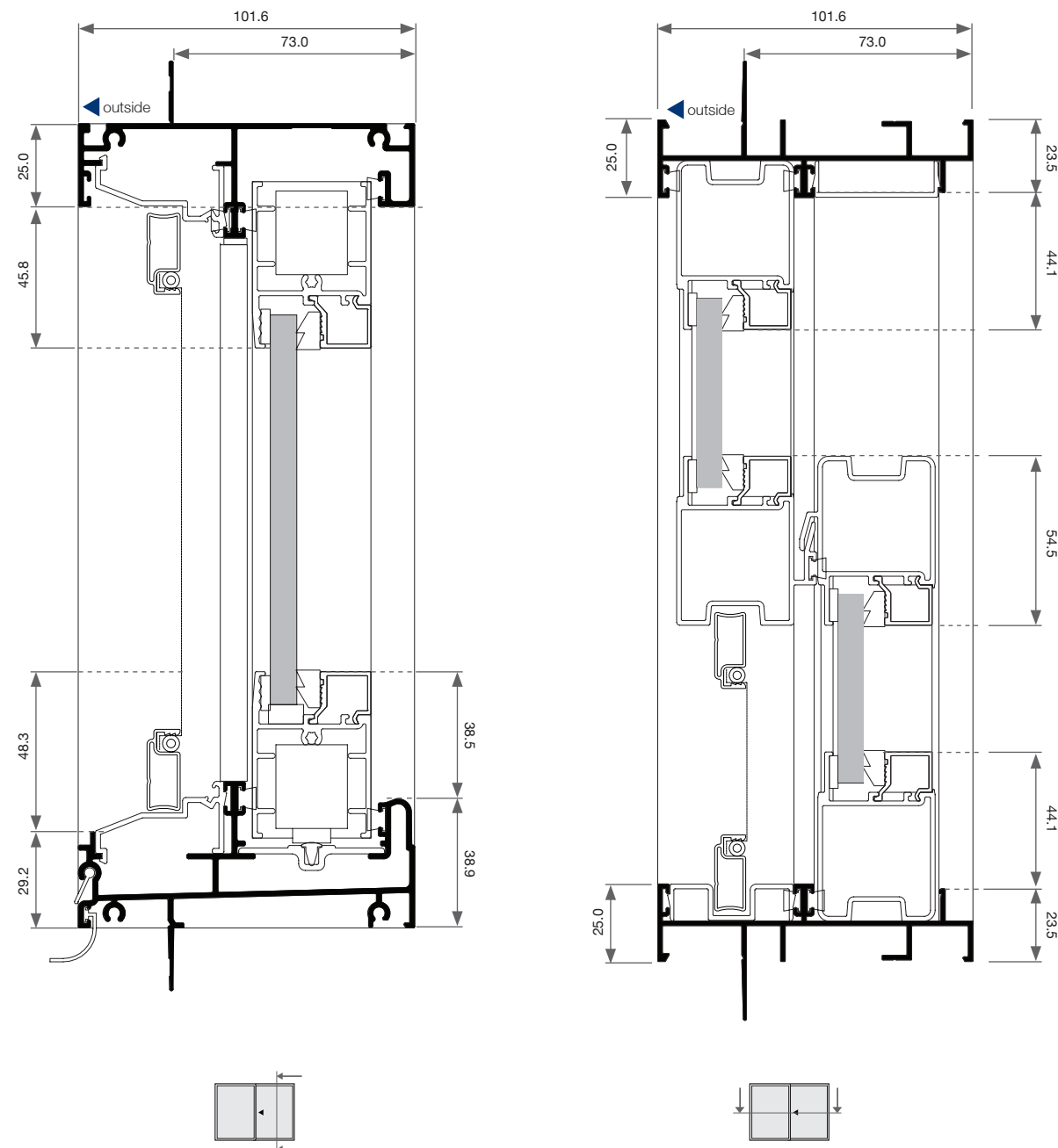




Quantum® Sliding Window Cross Sectional View

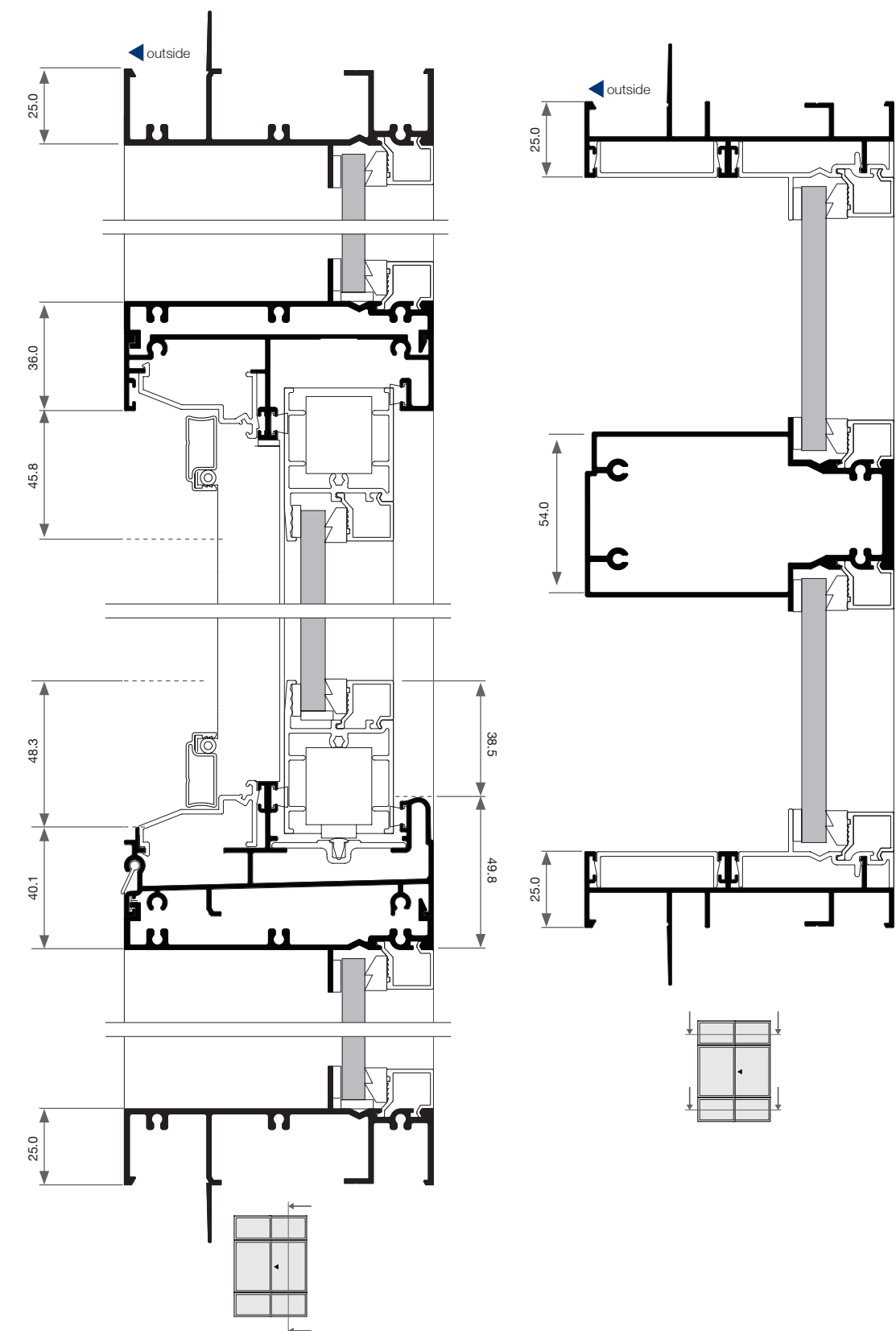
Sliding Window - Cross Sectional View

Two Lite



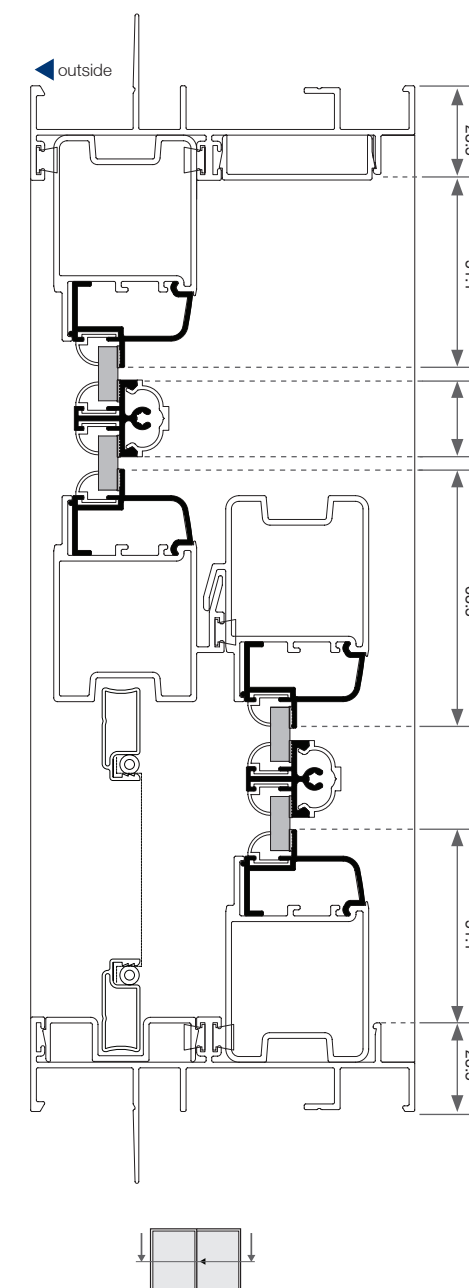
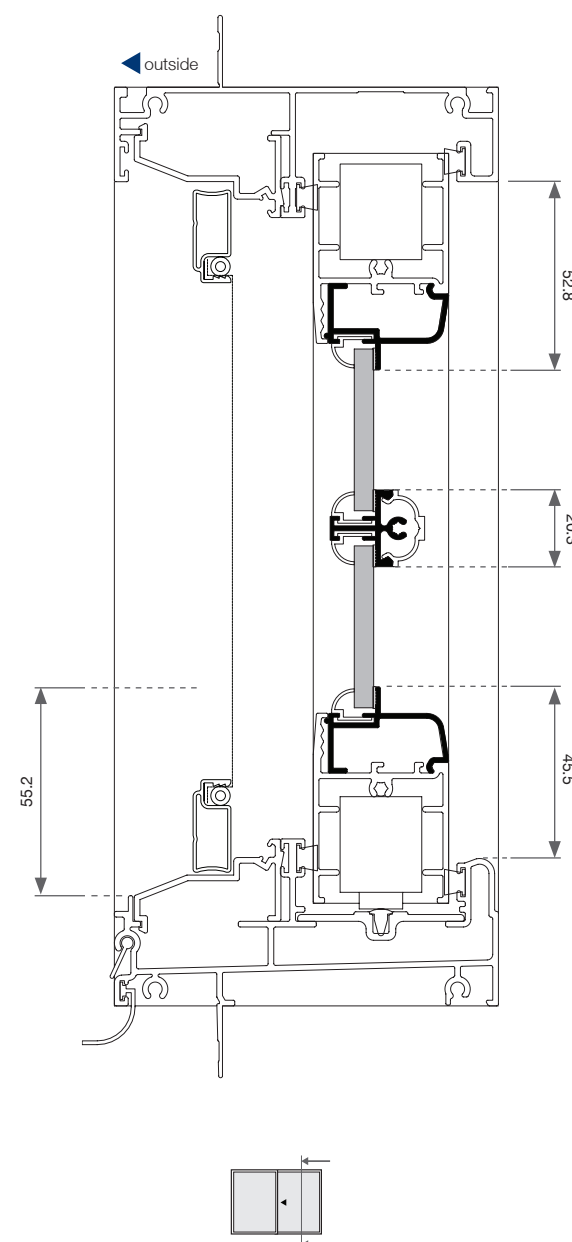
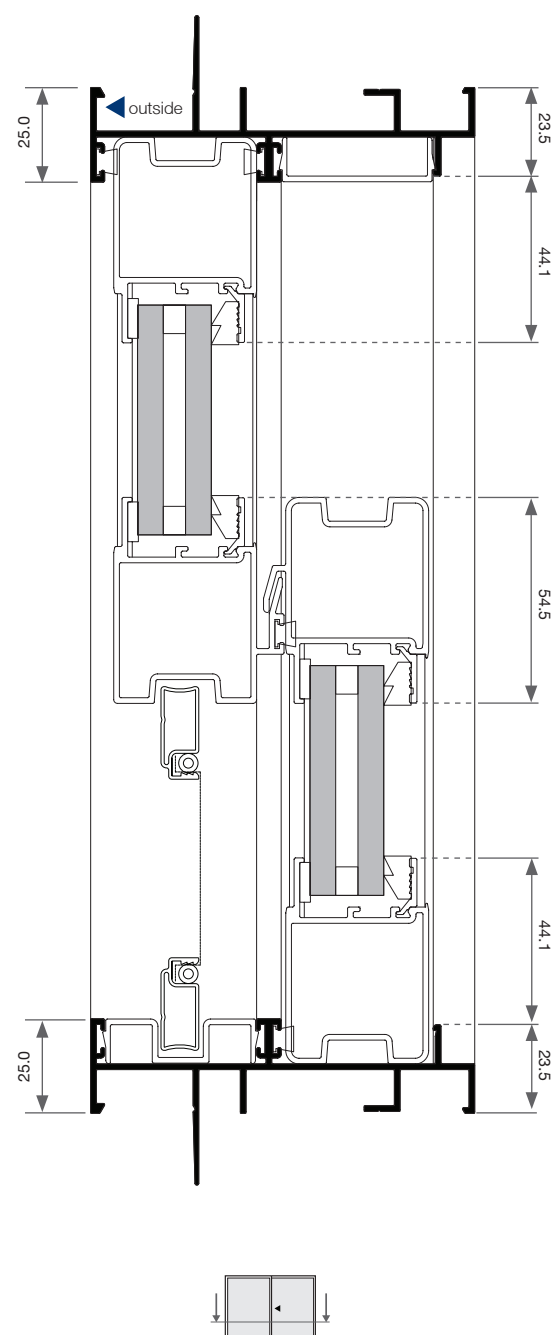
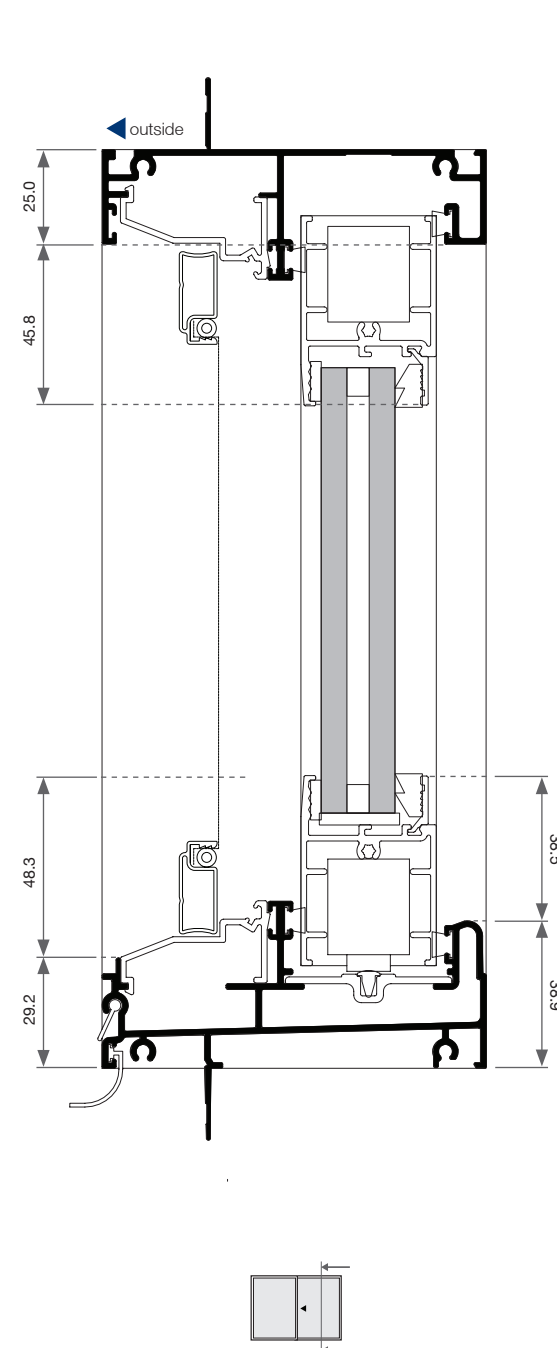
Sliding Window - Cross Sectional View

Two Lite | Transom



Sliding Window - Cross Sectional View

Double Glazed



Sliding Window - Cross Sectional View

Ovolo

Quantum® Sashless Double Hung Features & Benefits

Sashless Double Hung - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium window frame - ideal for larger window applications.

SASH

- 55mm window sash section.
- Patented vent option.
- Vertical counter balance sashes, when both top and bottom sashes are open allowing control of room ventilation.

SILL

- Modern sill design with built-in sump sill.

GLAZING & ENERGY EFFICIENCY

- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options of 6mm toughened polished edged single glazing.
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction.
- High R_w ratings available.

WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.



SECURITY

- Sashless Double Hung windows come standard with patented and architecturally designed Quantum® key lock.
- 100mm child-safe window opening restrictor available.
- Optional concealed integrated vent-lock available - allowing secure partial opening for ventilation.
- Optional **Prowler Proof** security screens available.

BUSHFIRE

- Meets BAL-29 - compliant to Australian Standards AS3959-2009.

HARDWARE

- Quantum® key lock supplied as standard in **Infinity** Satin Chrome.
- Optional colours are available:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Window locks can be keyed alike to other Quantum® products for ease of use.

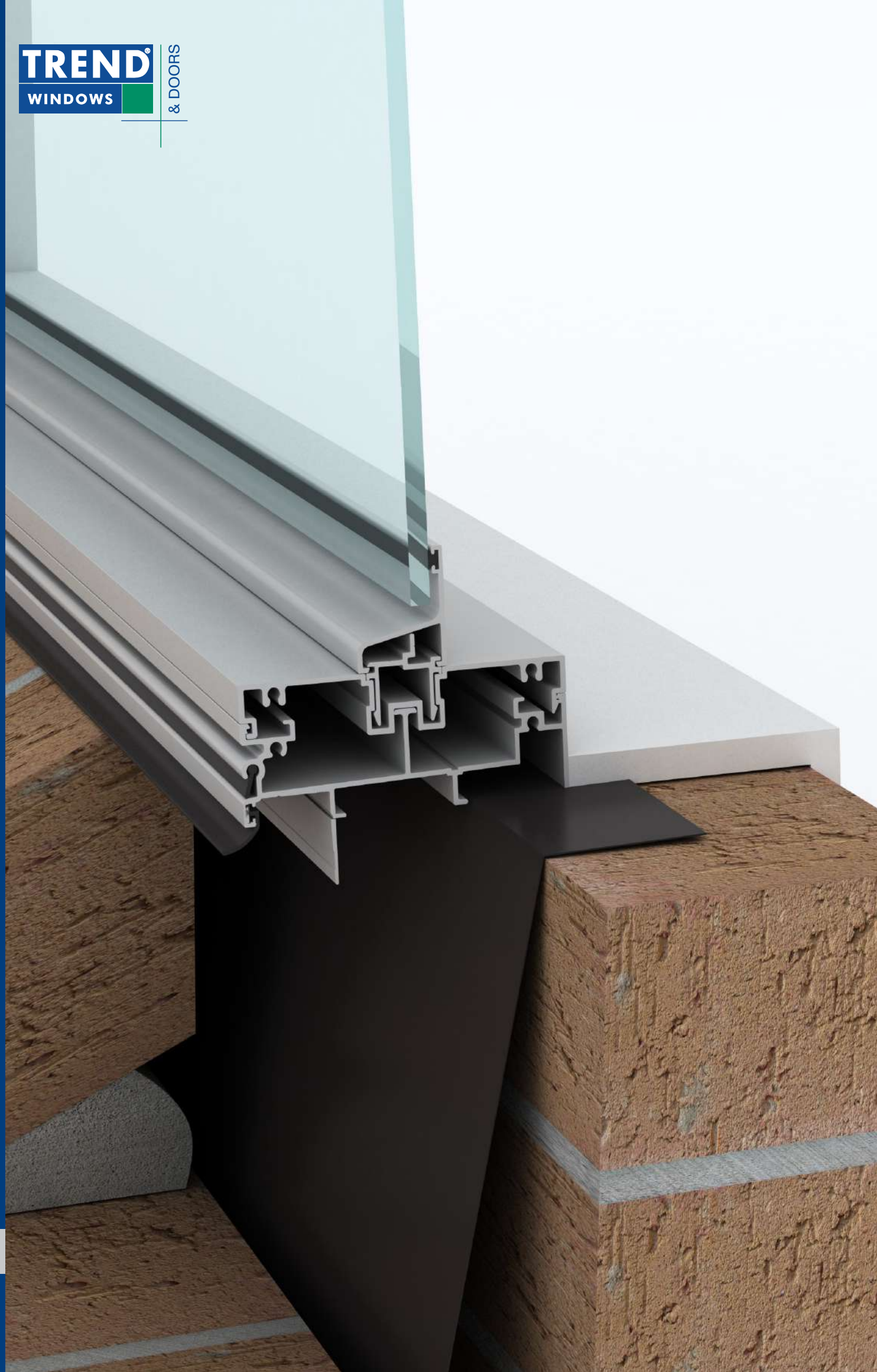
OPTIONS

- Wide range of powder coated colours.
- Easy to fit and remove flyscreens available.
- Customised WERS ratings.
- Variety of sizes and custom made options available (including bay window styles).
- Variety of configuration options available.
- Can be fitted to door panels in hinged and bifold doors.

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.





Quantum® Sashless Double Hung Installation

Sashless Double Hung - Installation

Building In Detail | **Brick Veneer - 240mm wall**



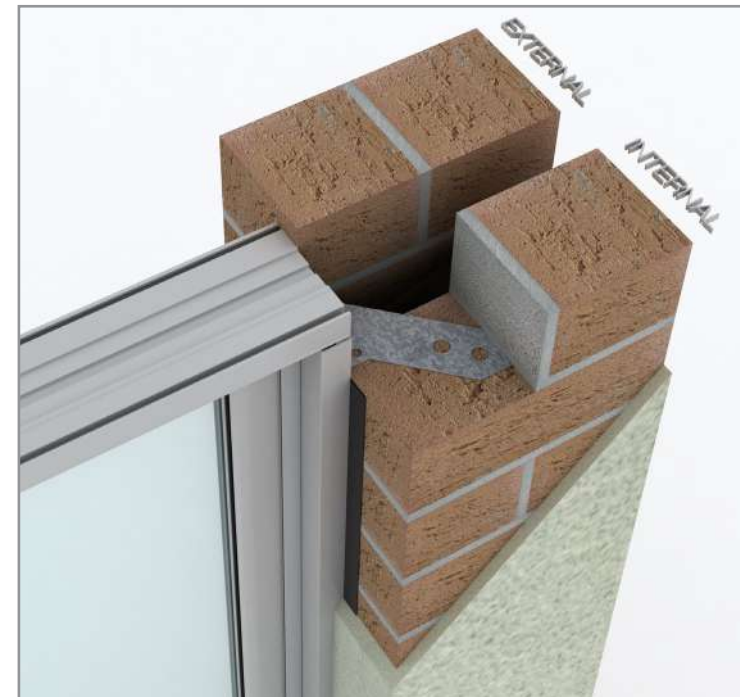
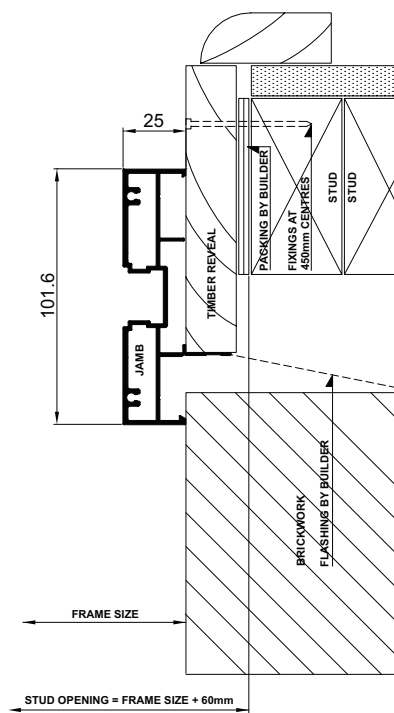
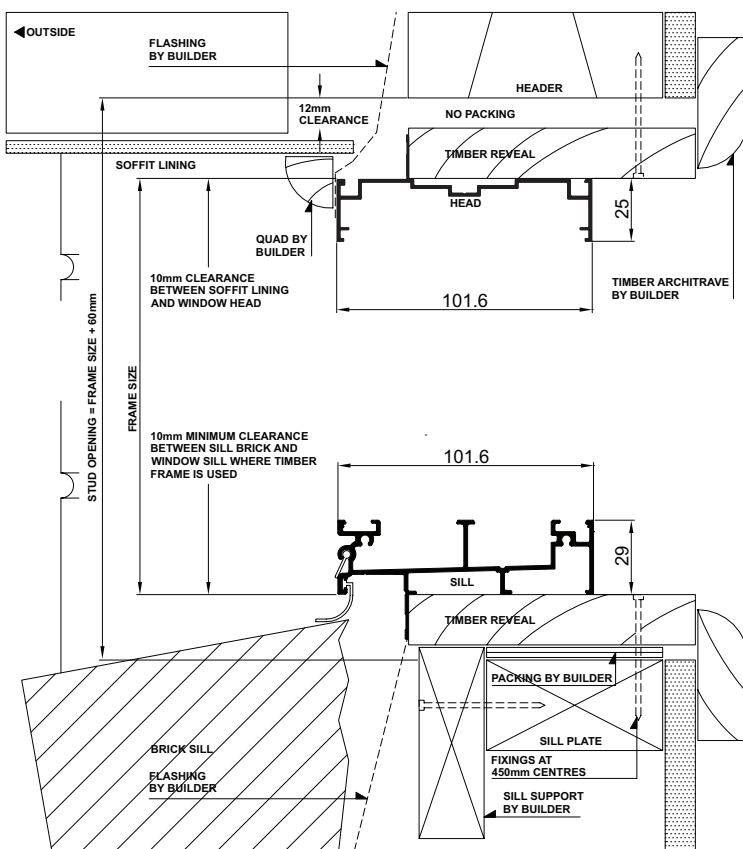
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of window, install sill support (refer to drawings below).



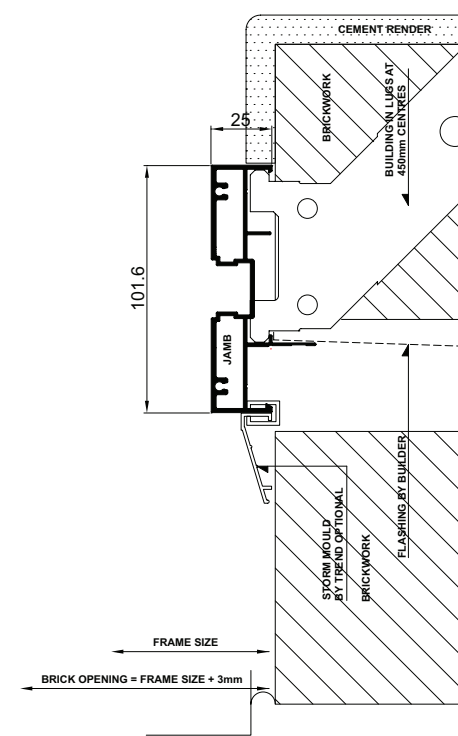
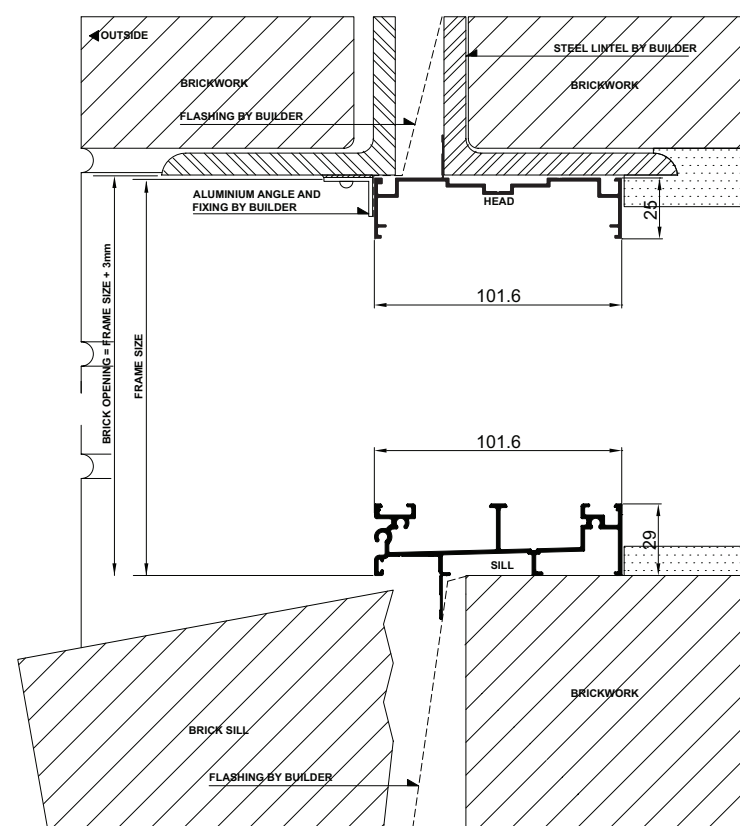
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



Sashless Double Hung - Installation

Installation | Building In Detail | **Double Brick - 280mm wall | Prepared Opening**



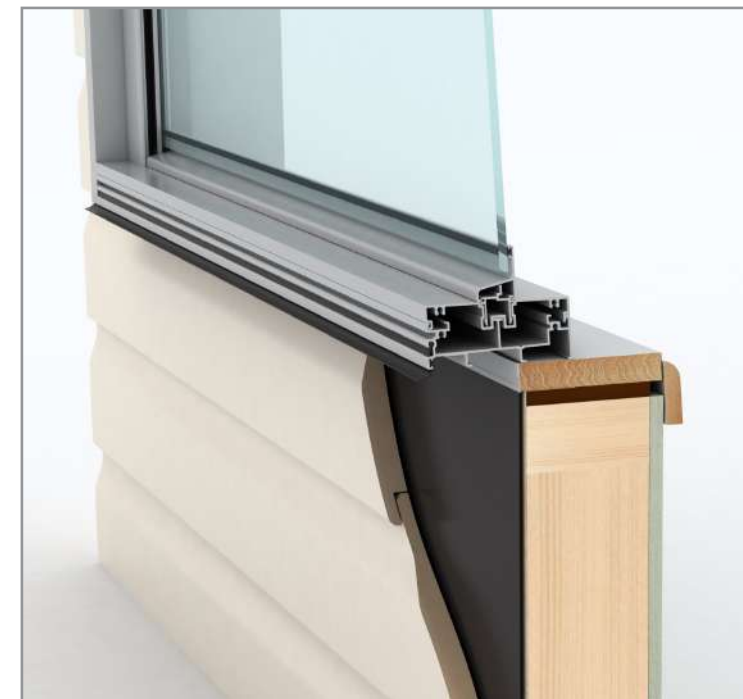
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



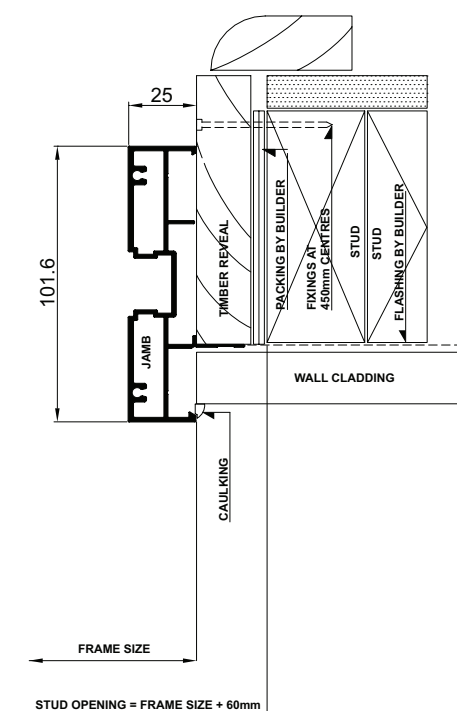
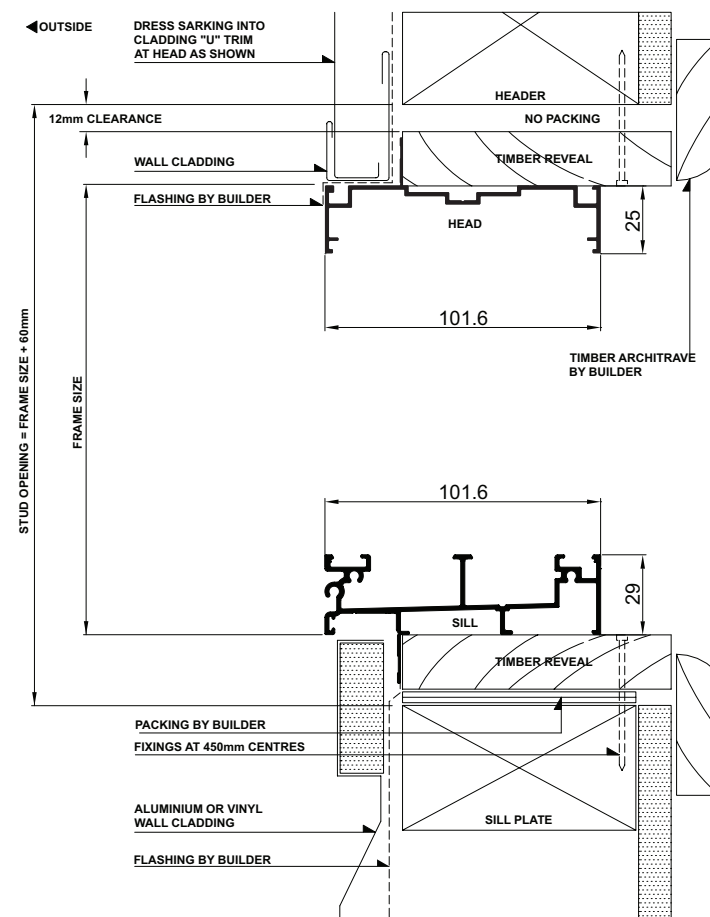
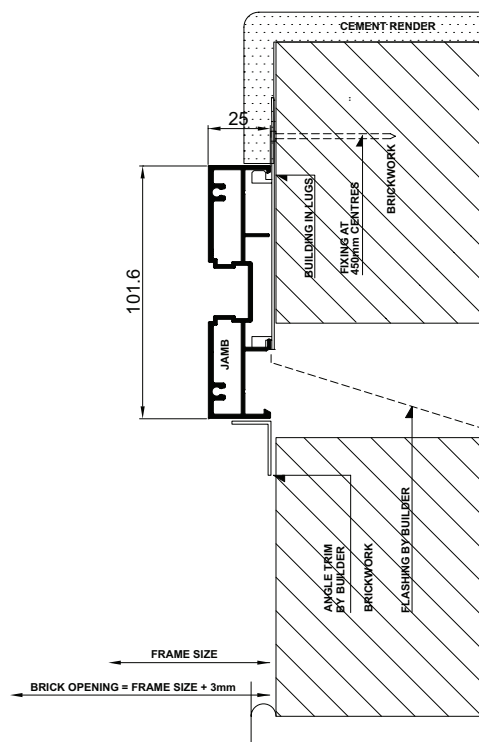
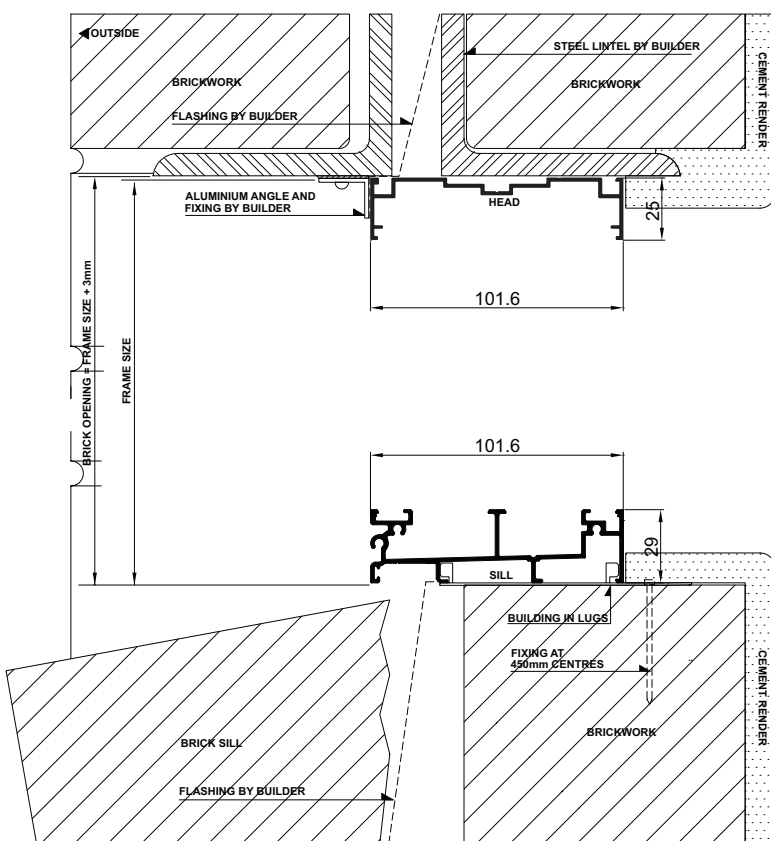
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).



Sashless Double Hung - Installation

Building In Detail | **Blockwork**



INSTALLING FRAME CORRECTLY

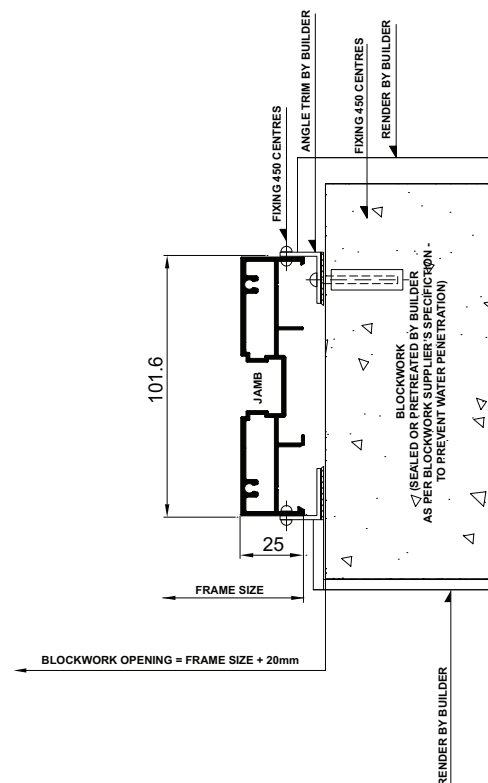
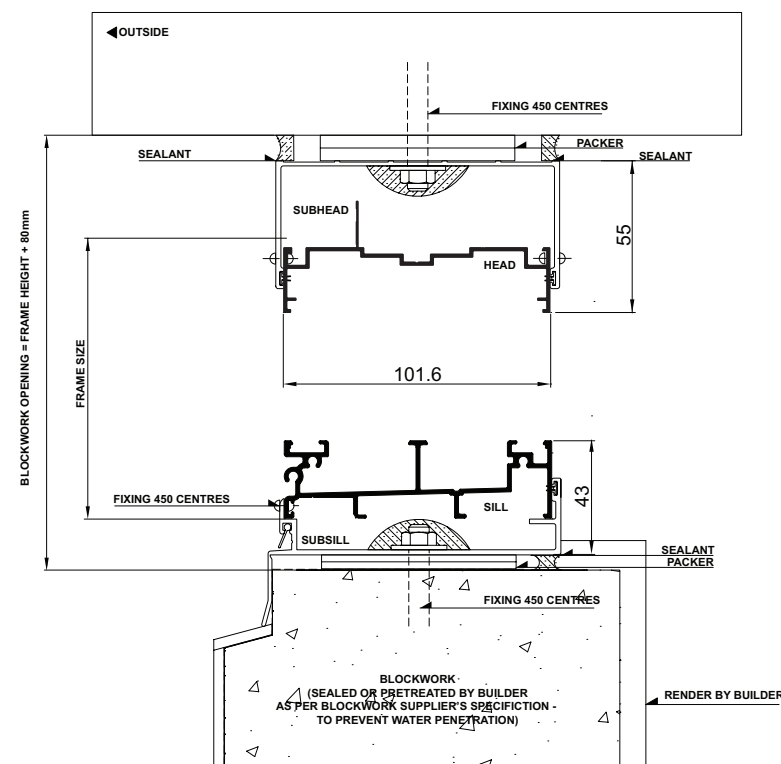
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm

Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Seal ends of subsill with angle.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



INSTALLING FRAME CORRECTLY

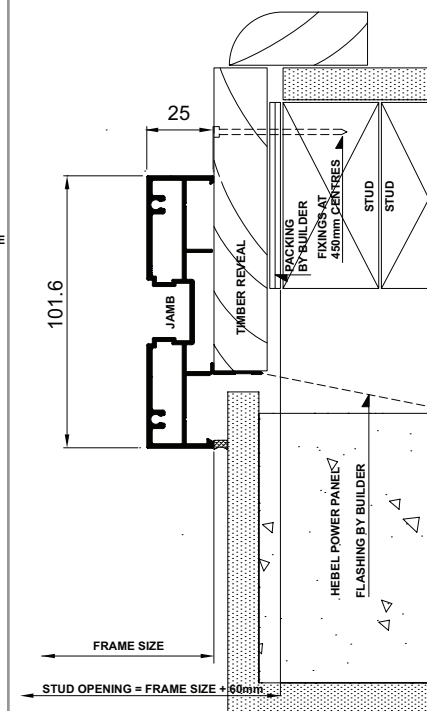
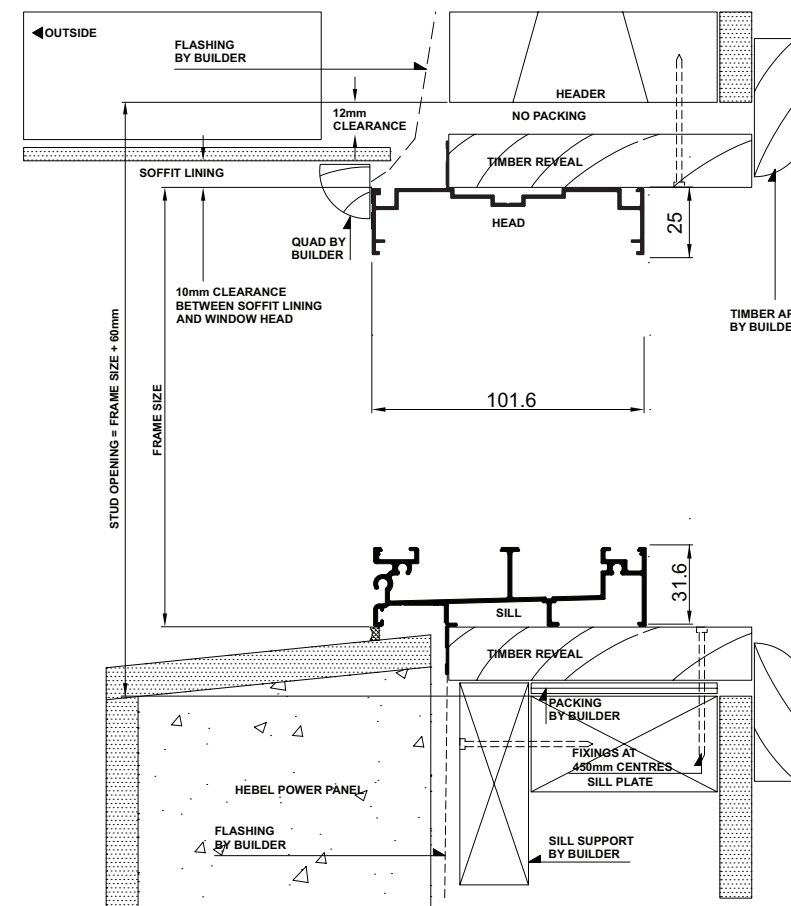
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

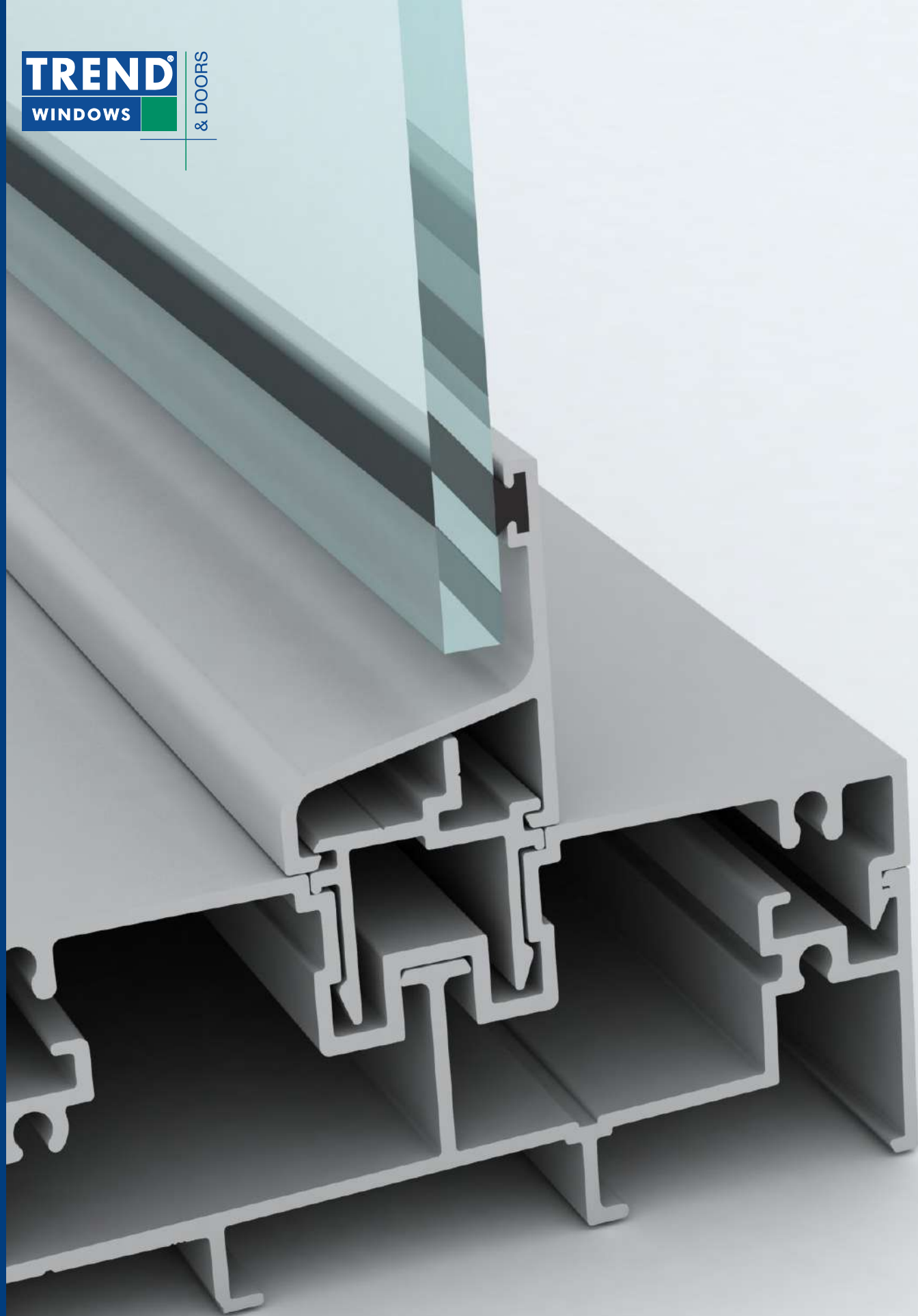
Stud Opening:

Height = Frame Size + 60mm

Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Caulk between render and frame.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).

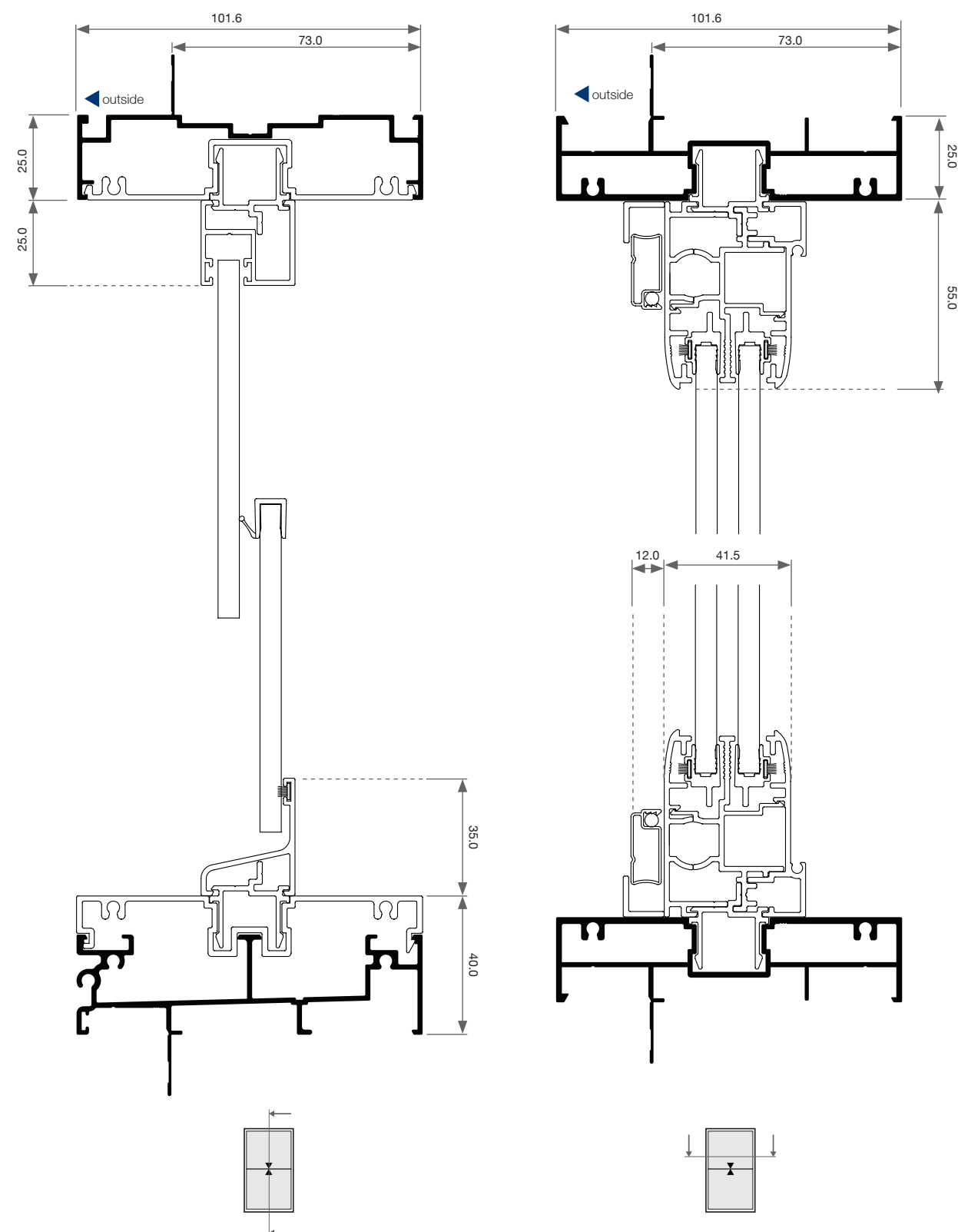




Quantum® Sashless Double Hung Cross Sectional Views

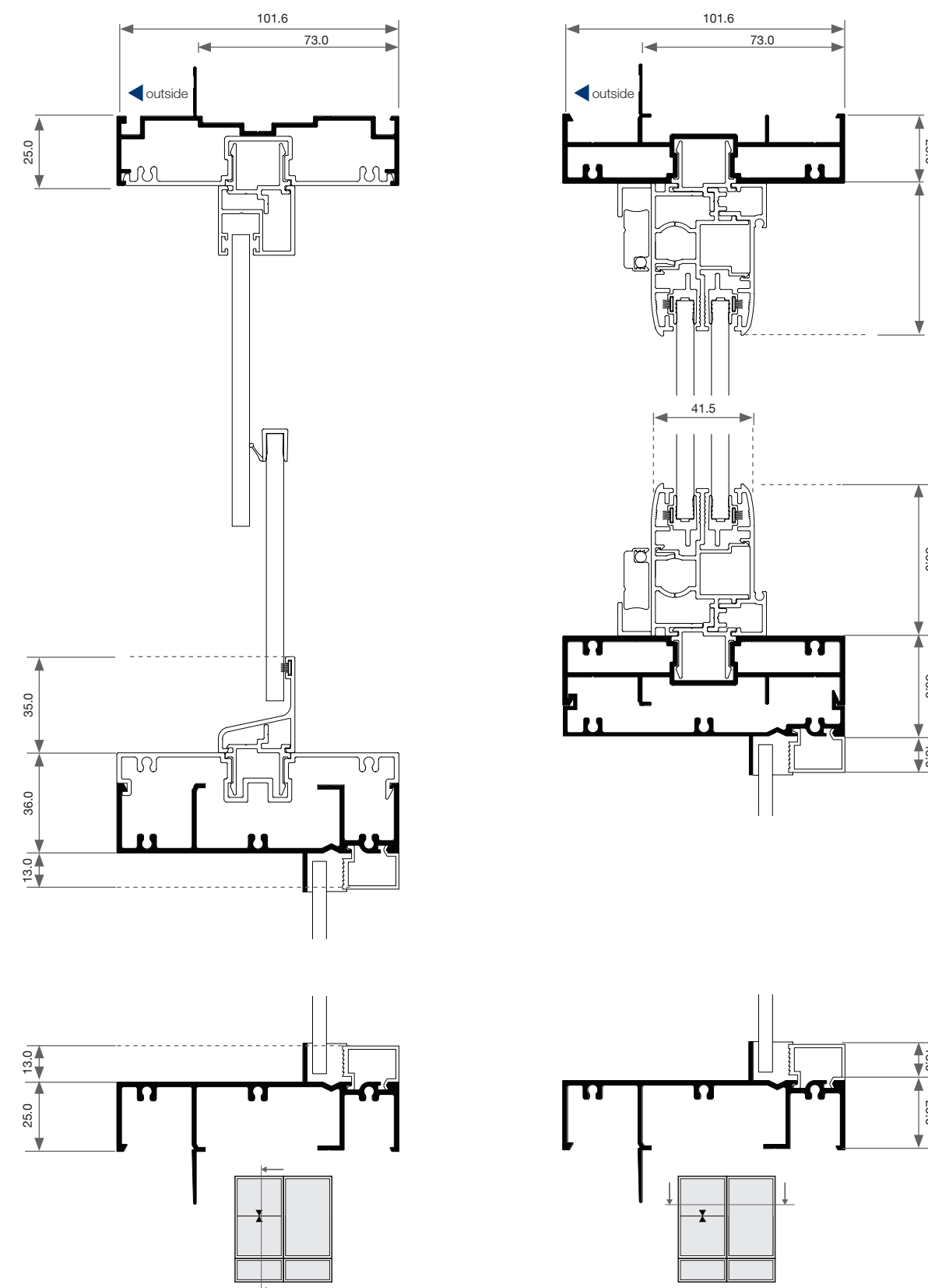
Sashless Double Hung - Cross Sectional Views

Two Lite



Sashless Double Hung - Cross Sectional Views

Two Lite | Transom



Quantum® Louvre Window Features & Benefits

Louvre Window - Features & Benefits

FRAME

- Overall frame size 130mm wide.
- When using 130mm frame, minimum recommended reveal size is 138mm.
- Installed as a single frame or ideal for combination styles with other Quantum® products.

LOUVRE BLADES

- Blades are 152mm or 102mm widths.
- Opaque, tinted or toughened glass blades available.
- Timber, aluminium blades available.
- 6mm toughened glass blades are supplied as standard.

GLAZING & ENERGY EFFICIENCY

- All Trend® Windows and Doors comply with Australian Standards AS1288.
- 6mm glass supplied only as standard.
- Optional frosted, etched, tinted or toughened glass available.
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

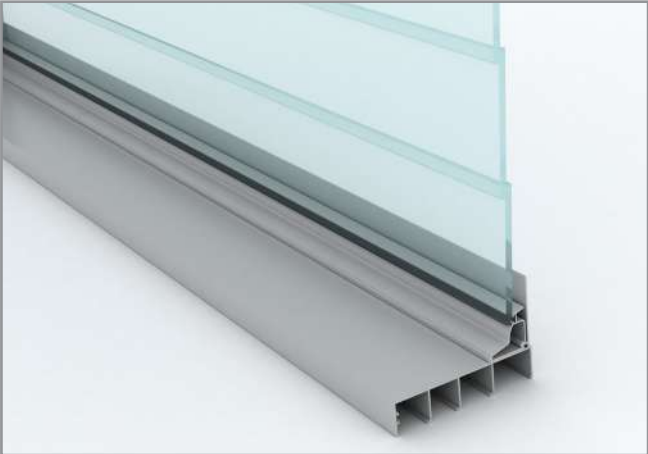
- Acoustic solutions available for improved noise reduction.

WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Louvre windows rated at an air infiltration of 1.48L/s m².

SECURITY

- 100mm safety window restrictor is available if required.
 - Security bars to fit standard blade widths**.
 - **Breezway** Stronghold System available.
- **Breezway 130mm Easy Frame louvre only.



BUSHFIRE

- Meets BAL-29 - to Australian Standards AS3959-2009.

HARDWARE

- Handles can be configured to left, right, high or low placement.
- Optional *Altair Power Louvre* available for “out-of-reach” configurations.
- Optional key lock available.
- Optional, easy to operate A13, low profile and “O-Ring” handles available.

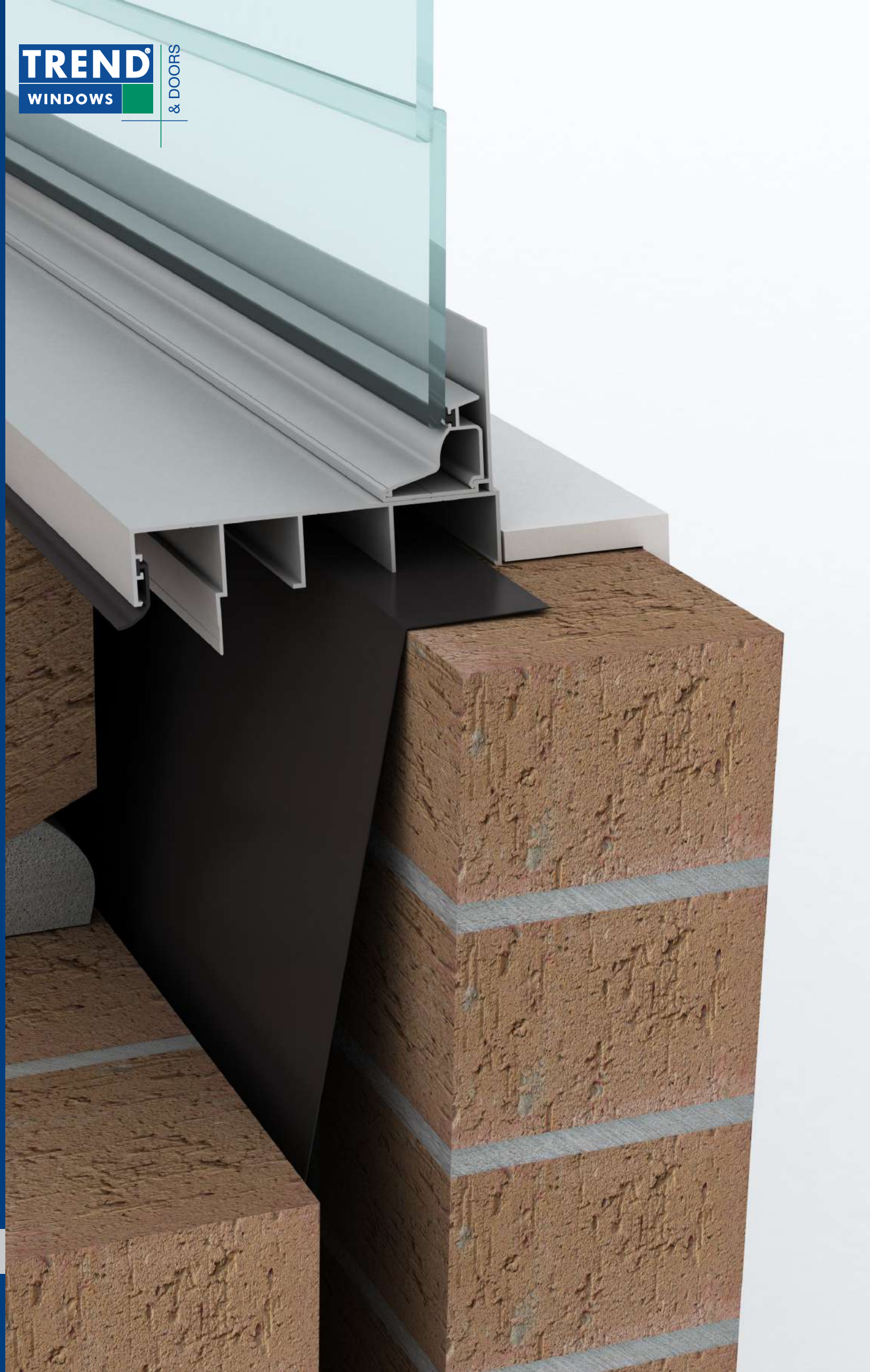
OPTIONS

- Wide range of powder coated colours.
- Customised WERS ratings.
- Variety of sizes and custom made options available.
- Variety of configuration options available.
- Easy to install flyscreens fitted to exterior of window.

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.





Quantum® Louvre Window Installation

Louvre Window - Installation

Building In Detail | **Brick Veneer - 240mm wall**



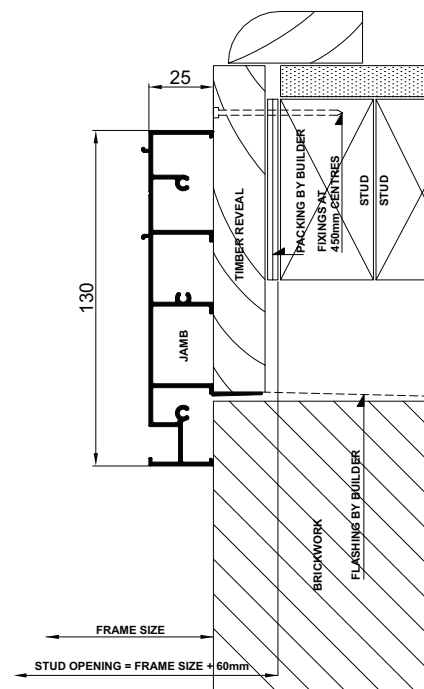
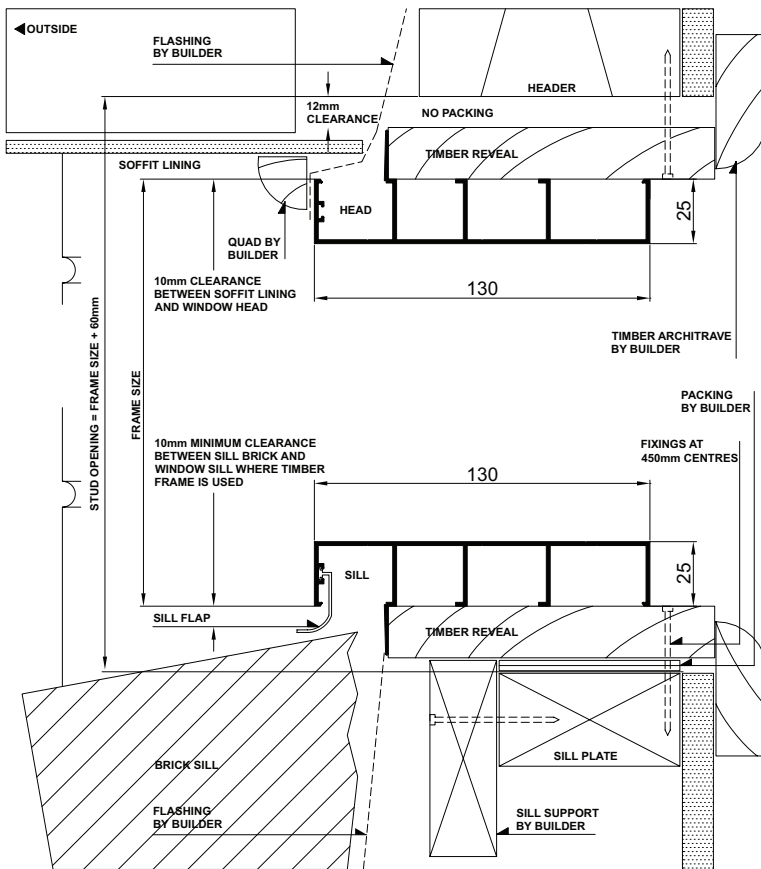
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

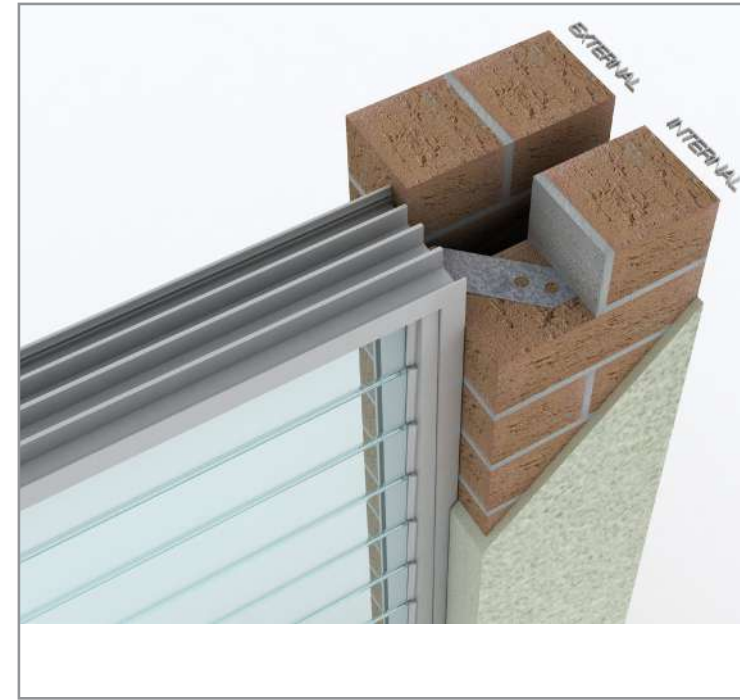
Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of window, install sill support (refer to drawings below).



Louvre Window - Installation

Building In Detail | **Double Brick - 280mm wall**



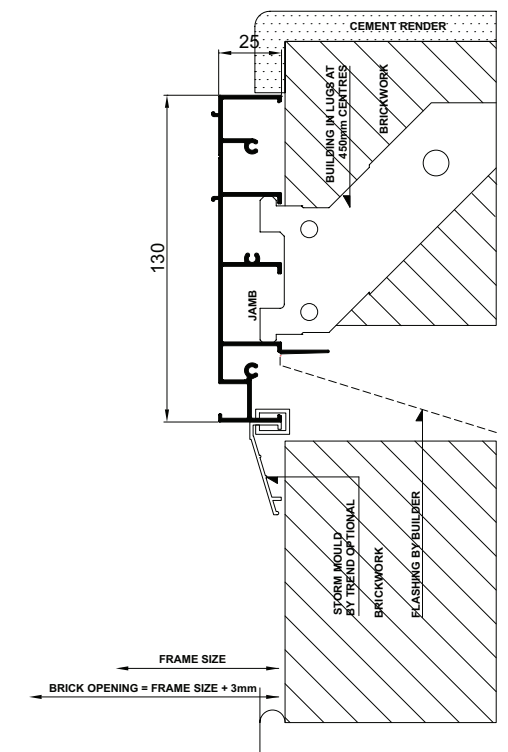
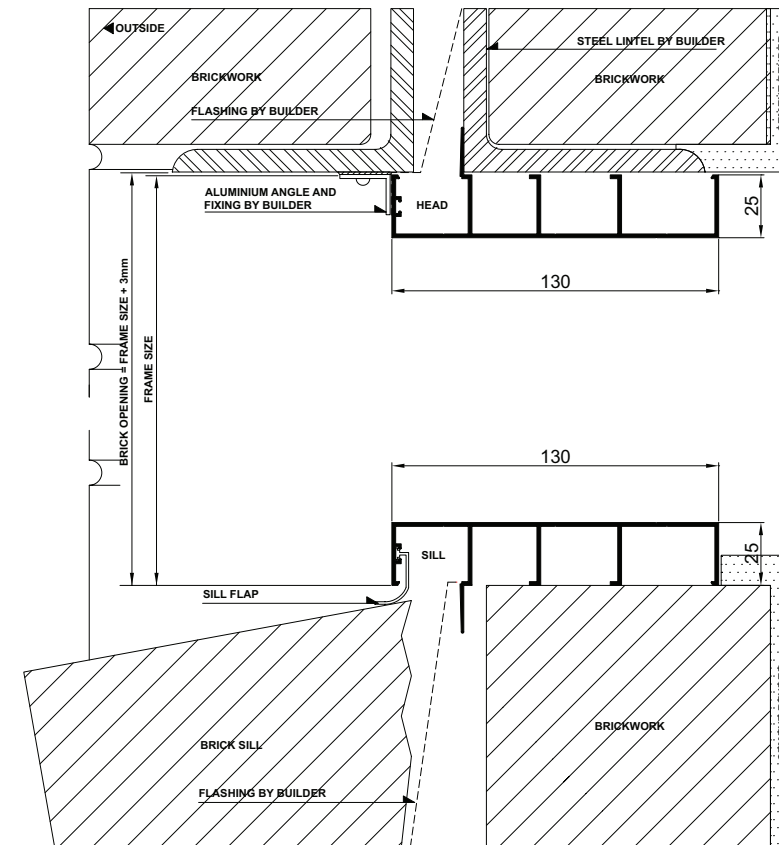
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

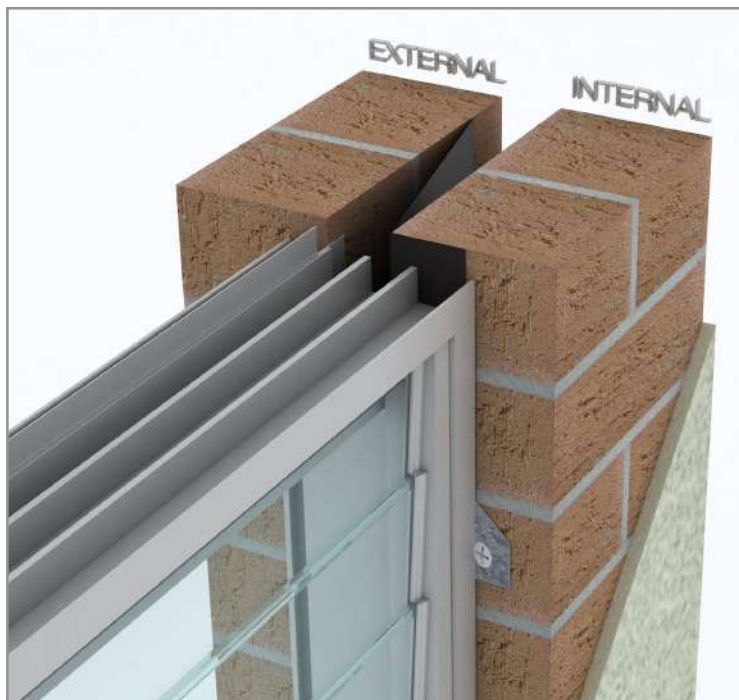
Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



Louvre Window - Installation

Building In Detail | Double Brick - 280mm wall | Prepared Opening



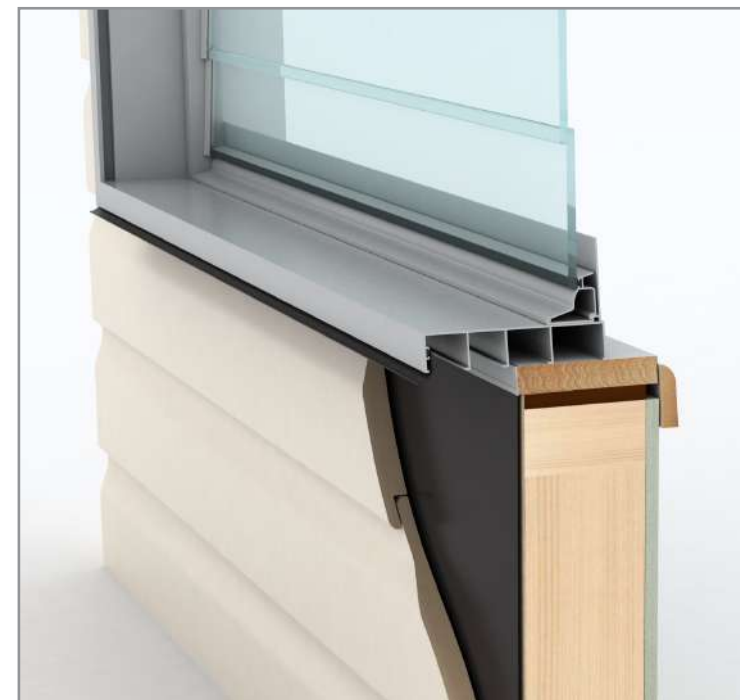
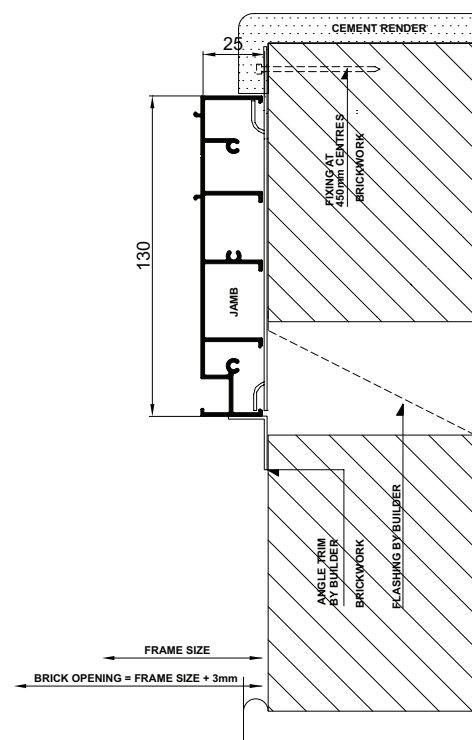
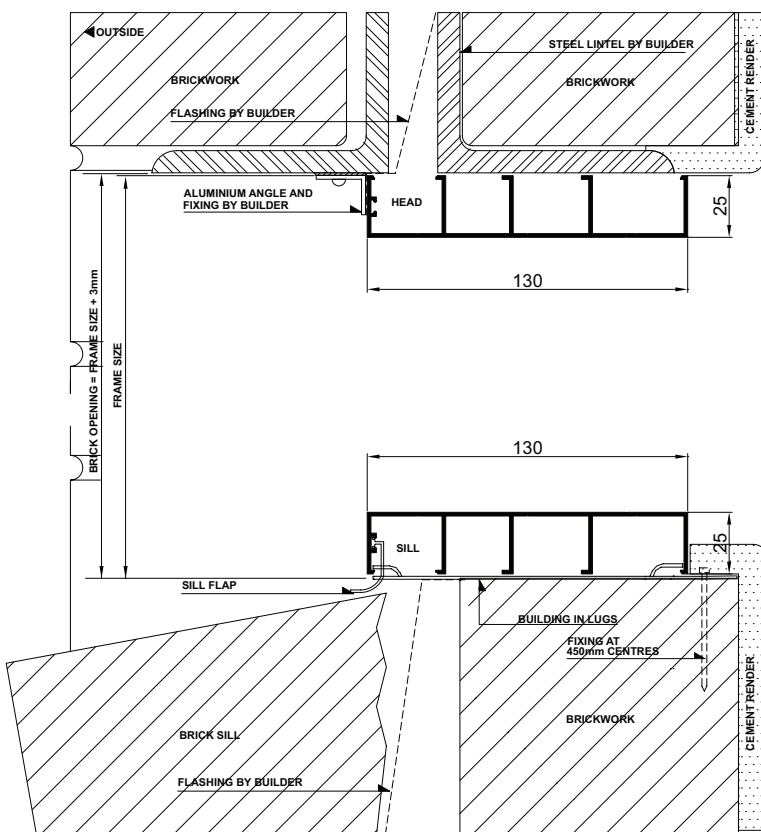
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



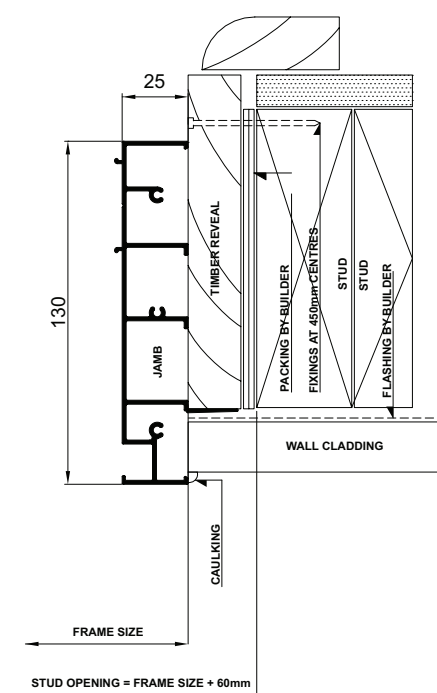
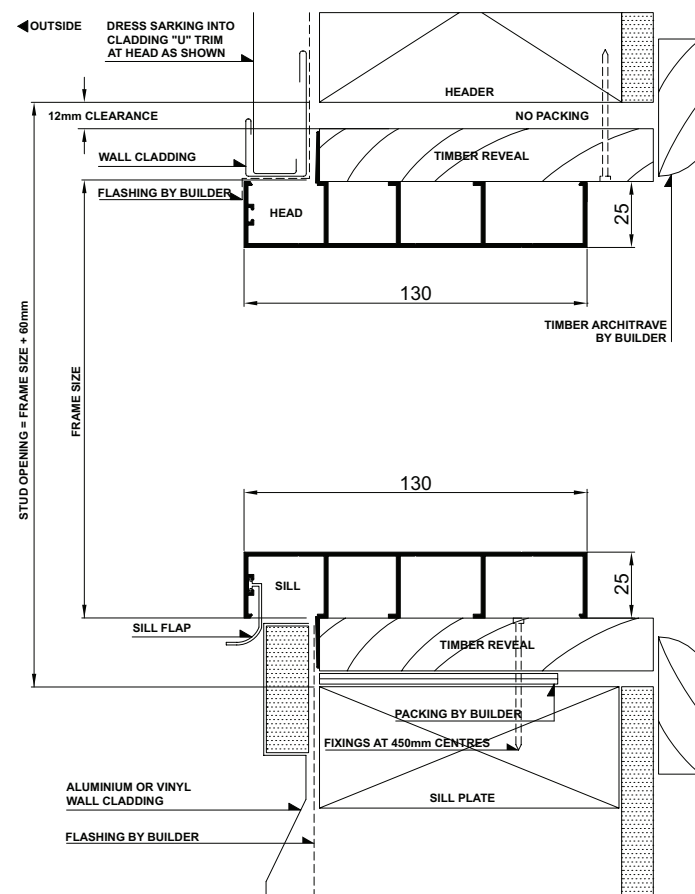
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm
Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).



Louvre Window - Installation

Building In Detail | **Blockwork**



INSTALLING FRAME CORRECTLY

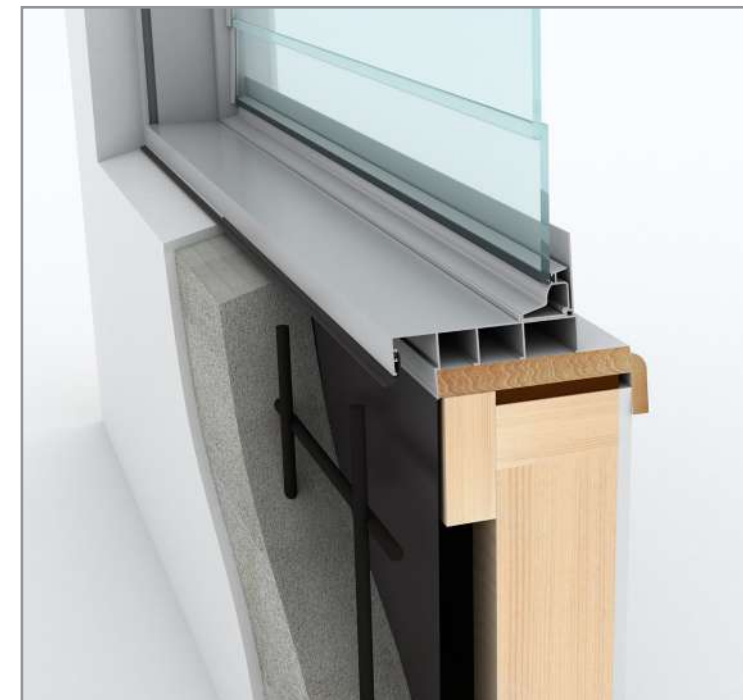
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm

Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Seal ends of subsill with angle.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**



INSTALLING FRAME CORRECTLY

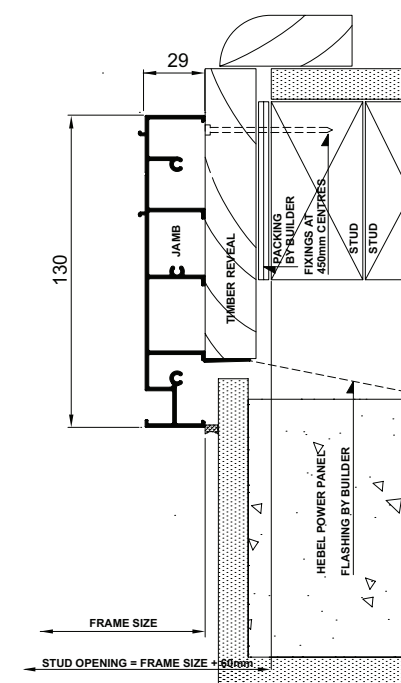
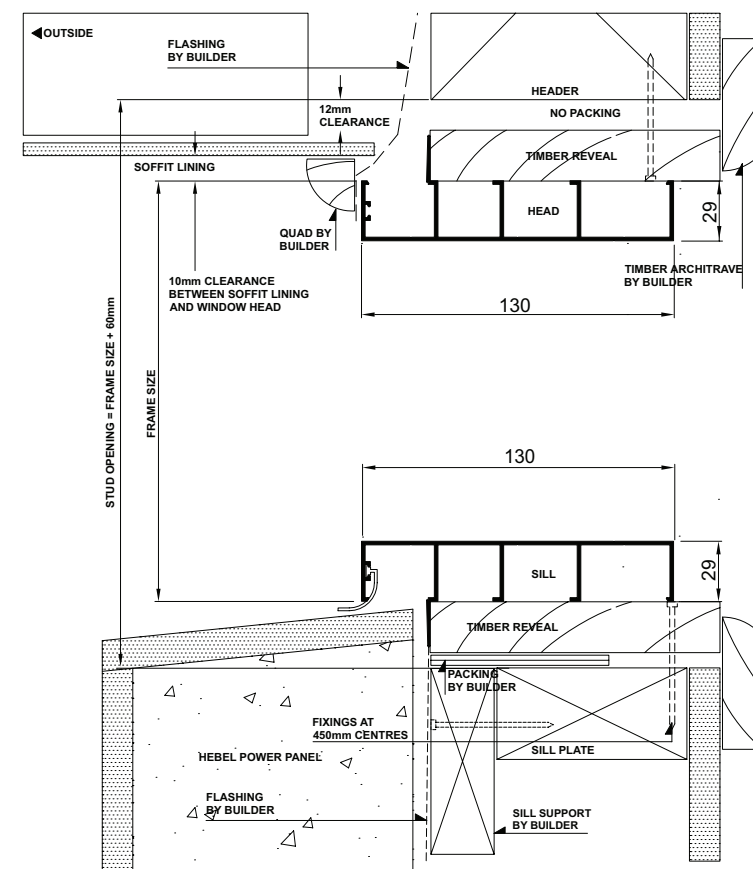
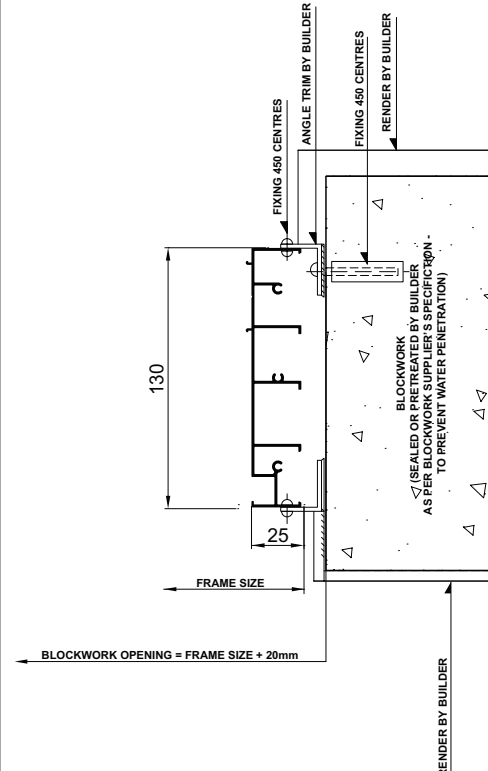
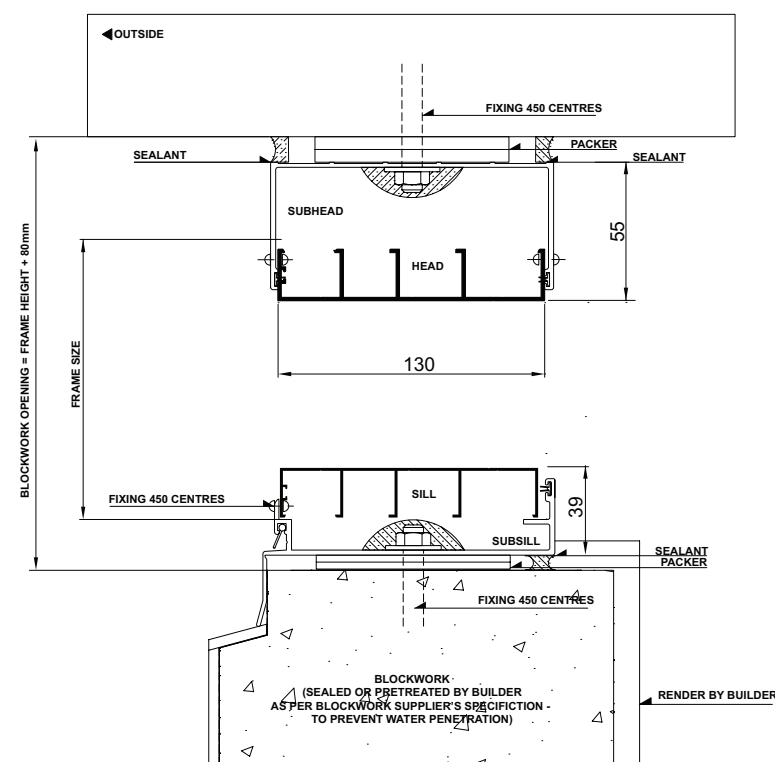
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm

Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Caulk between render and frame.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).

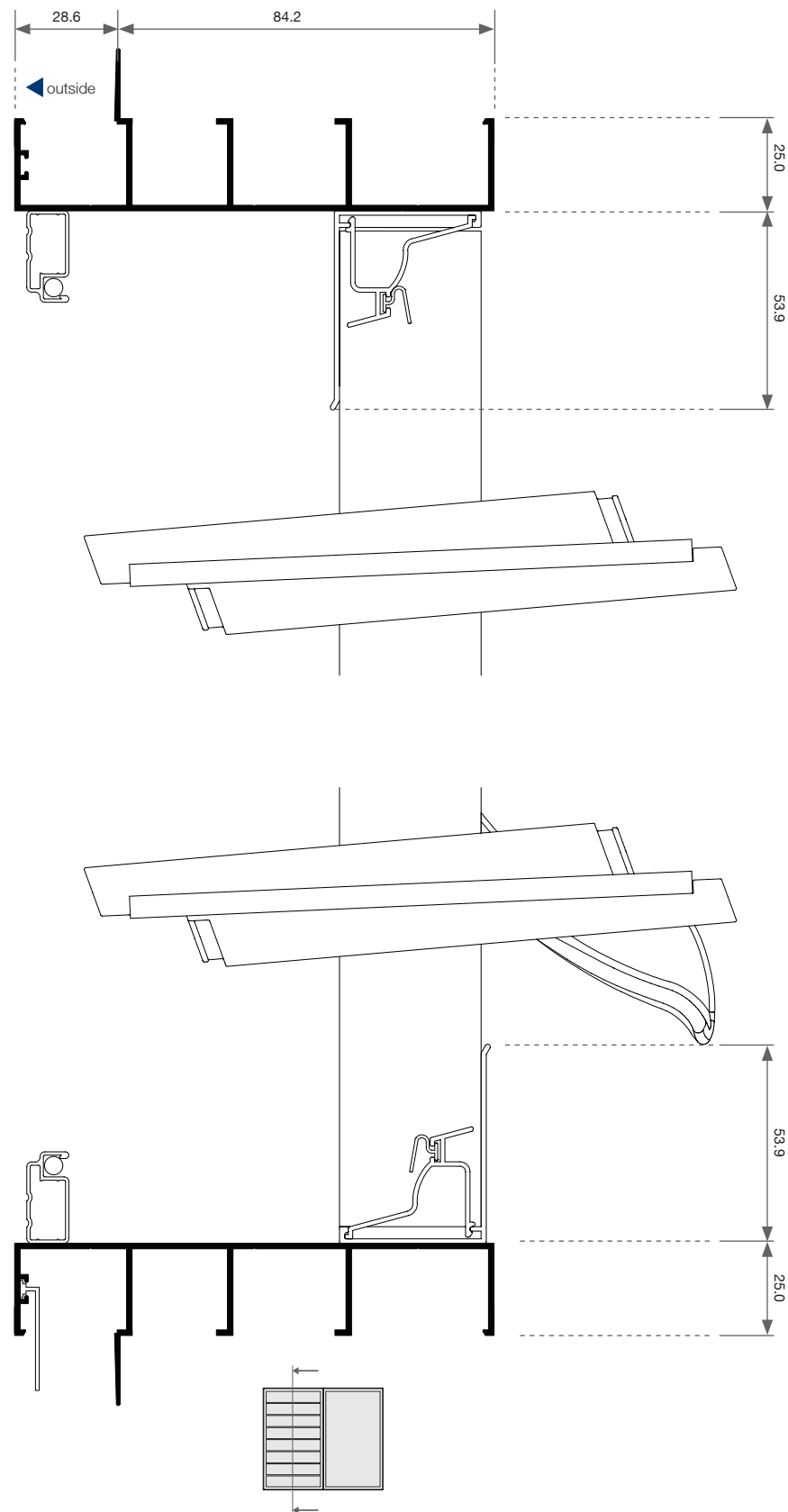




Quantum® Louvre Window Cross Sectional Views

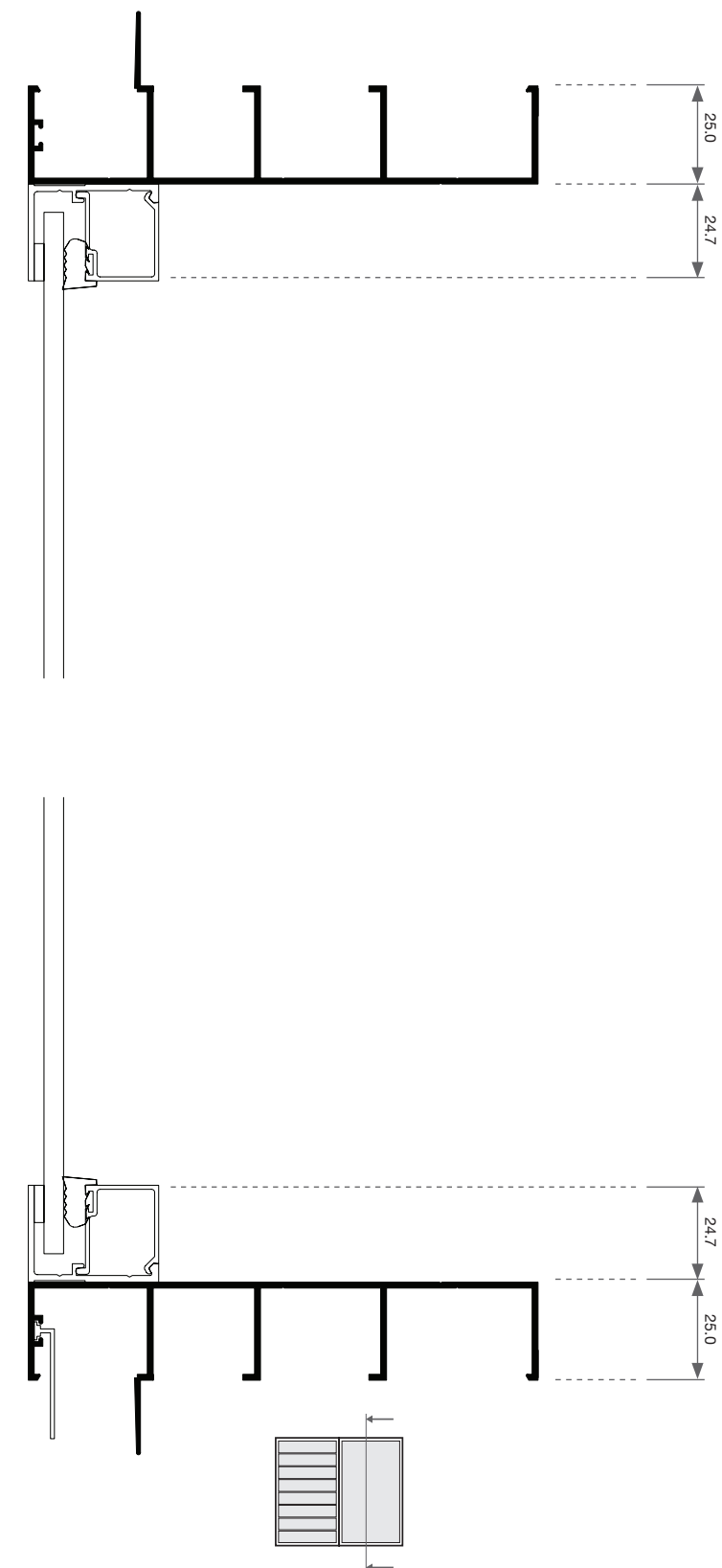
Louvre Window - Cross Sectional View

Two Lite | Blades | Elevation



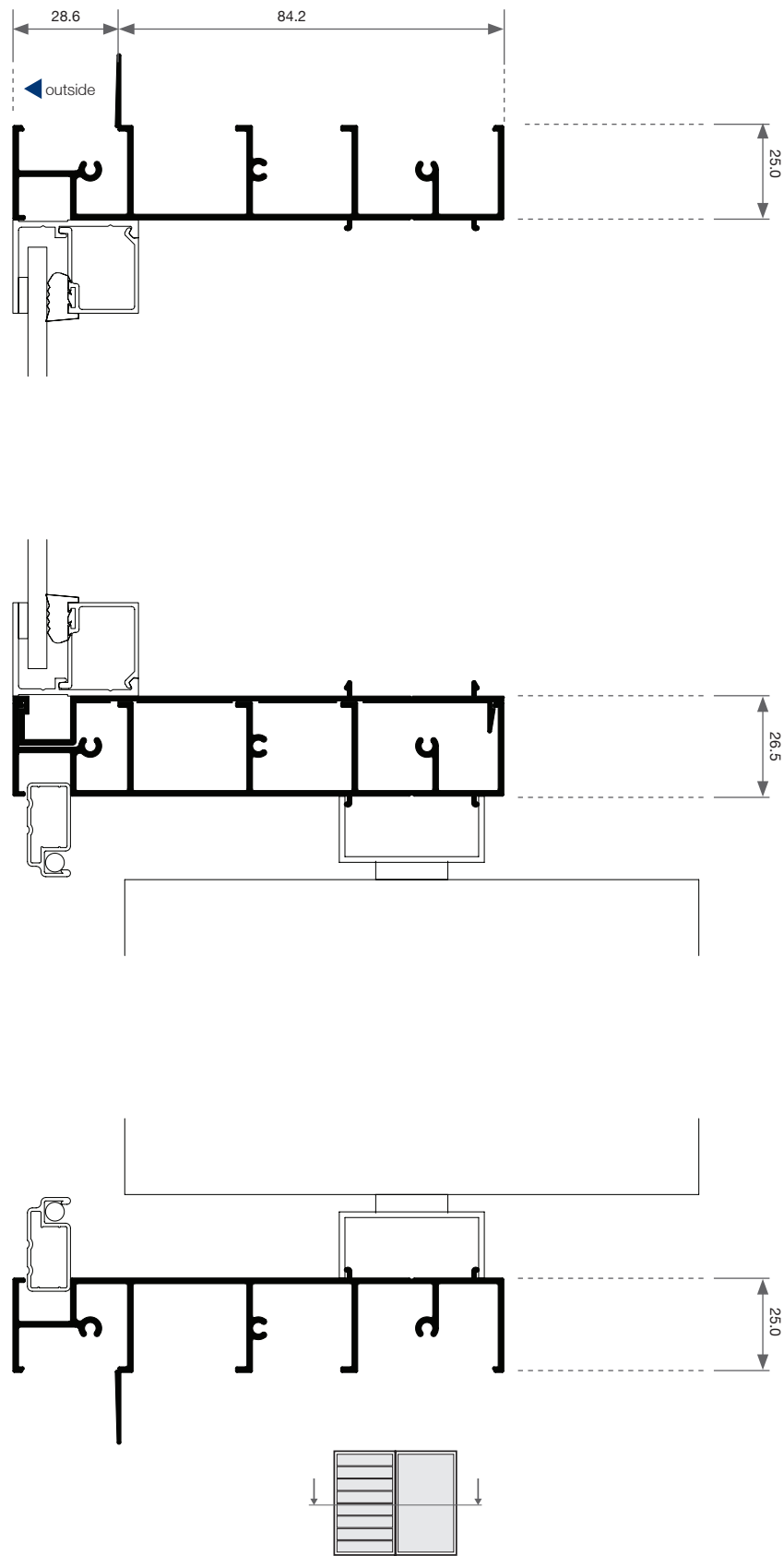
Louvre Window - Cross Sectional View

Two Lite | Fixed Lite | Elevation



Louvre Window - Cross Sectional View

Two Lite | Plan



Quantum® Bifold Window Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium window frame, ideal for larger bifolding windows.

SASH

- 62mm wide window sash section with heights up to 1600mm*.
- Maximum leaf size is 870mm wide.

**Configurations are open out only.*

SILL

- If no sill is required this option for “servery windows” is available.*

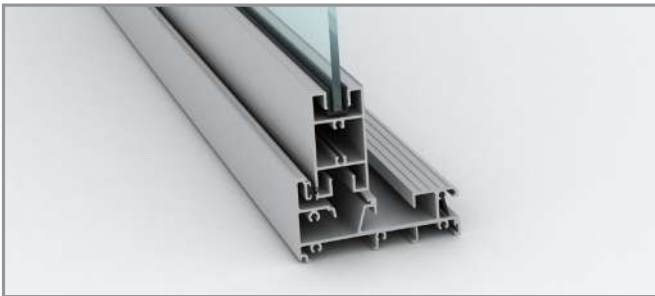
**No sill option does not meet water and wind requirements.*

GLAZING & ENERGY EFFICIENCY

- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 18mm insulated glazed units (IGUs) .
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction.
- High R_w ratings available.



WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Bifold window rated at an air infiltration of 0.67L/s m².

HARDWARE

- Infinity** Satin Chrome hardware supplied as standard.
- Optional colours available are:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Durable stainless steel hinges available as standard.
- Window locks can be keyed alike to other Quantum® products for ease of use.

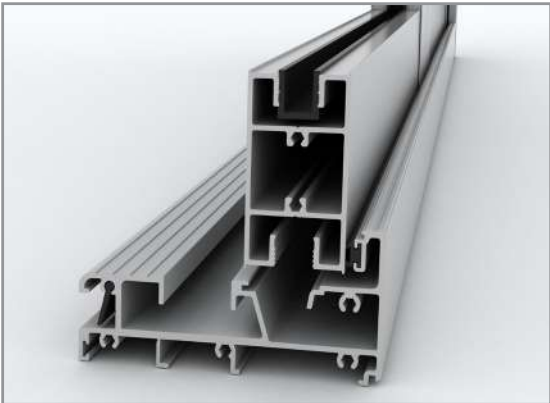
OPTIONS

- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powdercoated colours.
- Customised WERS ratings.
- Variety of sizes and custom made options available.
- Variety of configuration options available.

**Ovolo only available in single glazing.*

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.





Quantum® Bifold Window Installation



Bifold Window - Installation

Building In Detail | **Brick Veneer - 240mm wall**



INSTALLING FRAME CORRECTLY

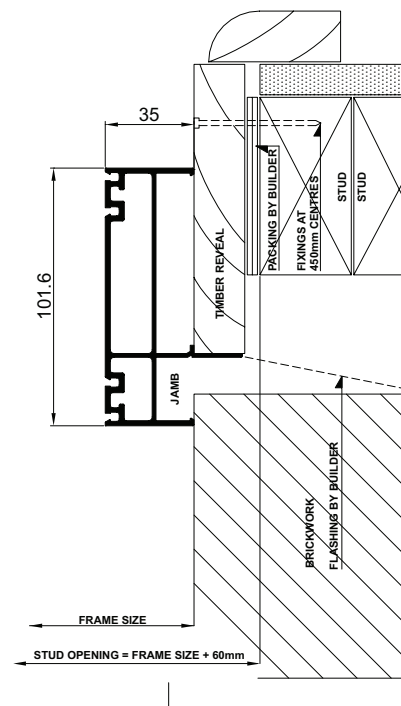
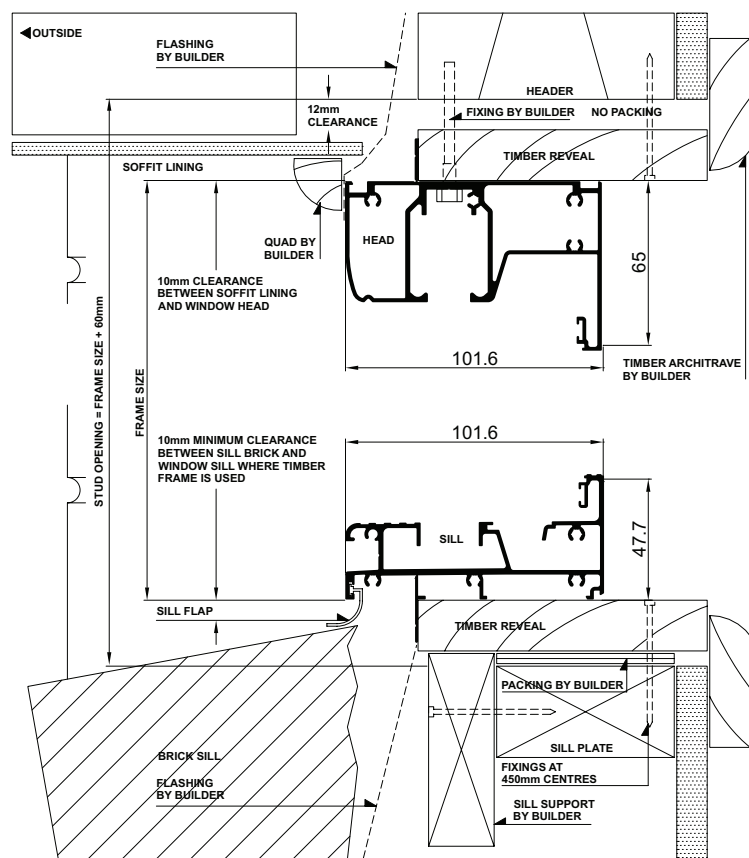
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 60mm

Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of window, install sill support (refer to drawings below).
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**



INSTALLING FRAME CORRECTLY

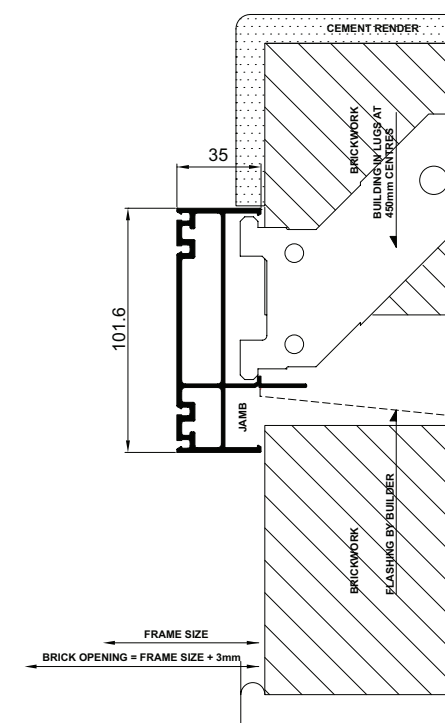
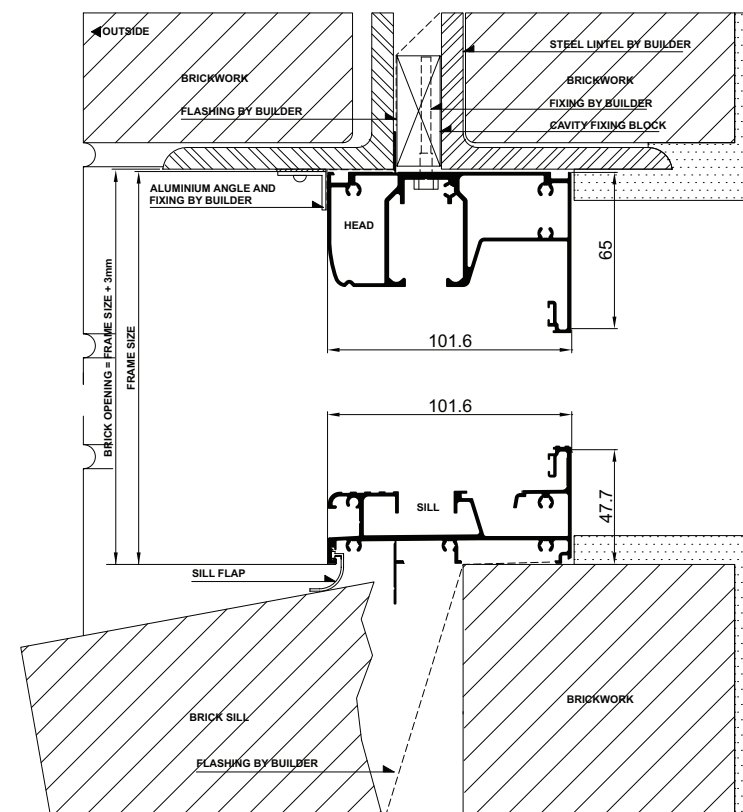
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm

Width = Frame Size + 3mm

- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**





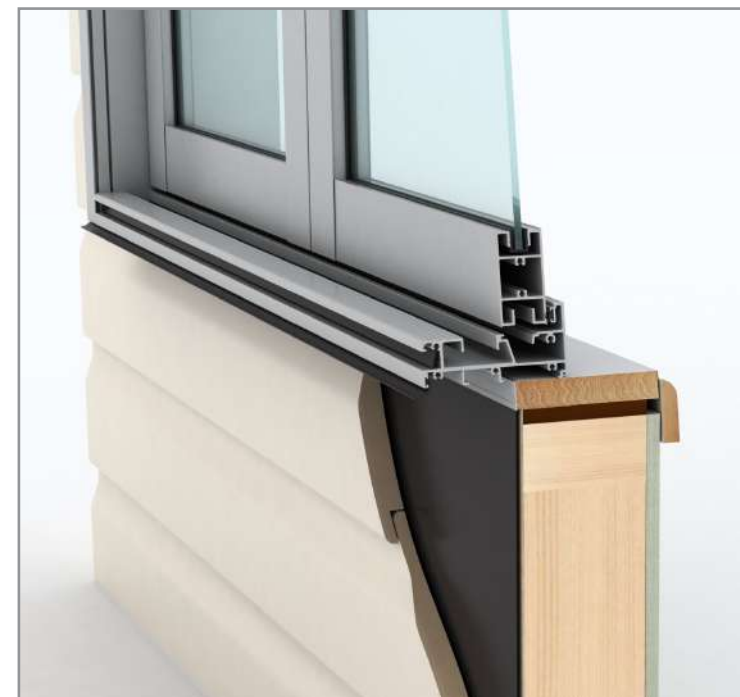
Bifold Window - Installation

Building In Detail | Double Brick - 280mm wall | Prepared Opening



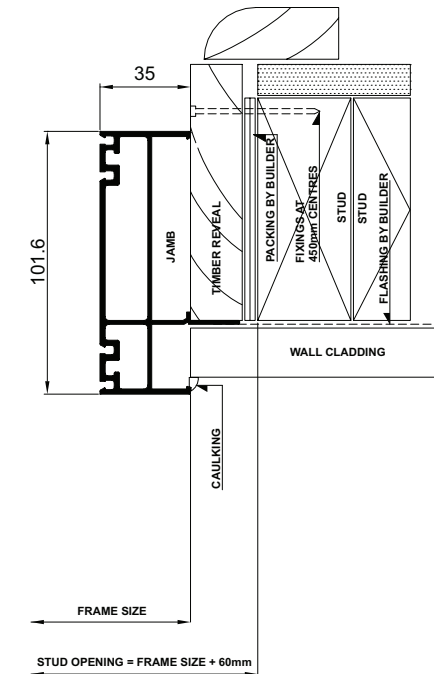
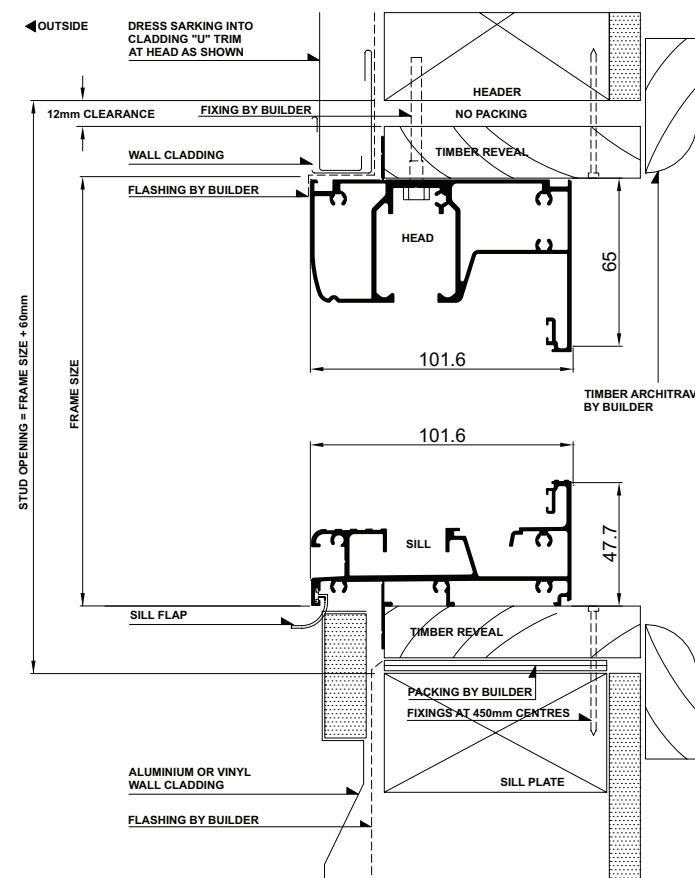
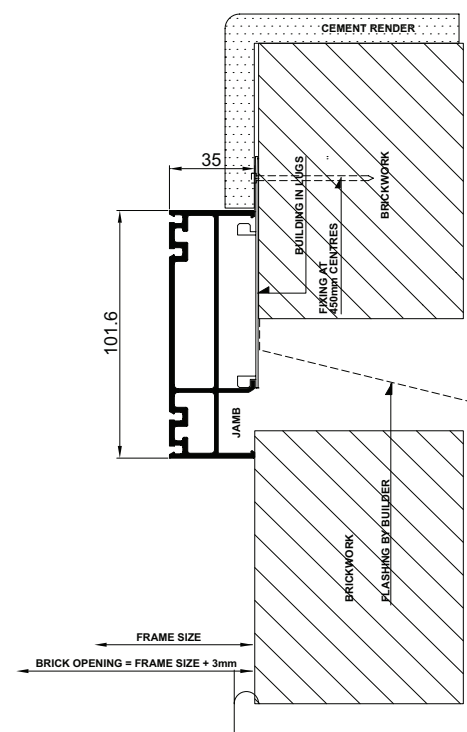
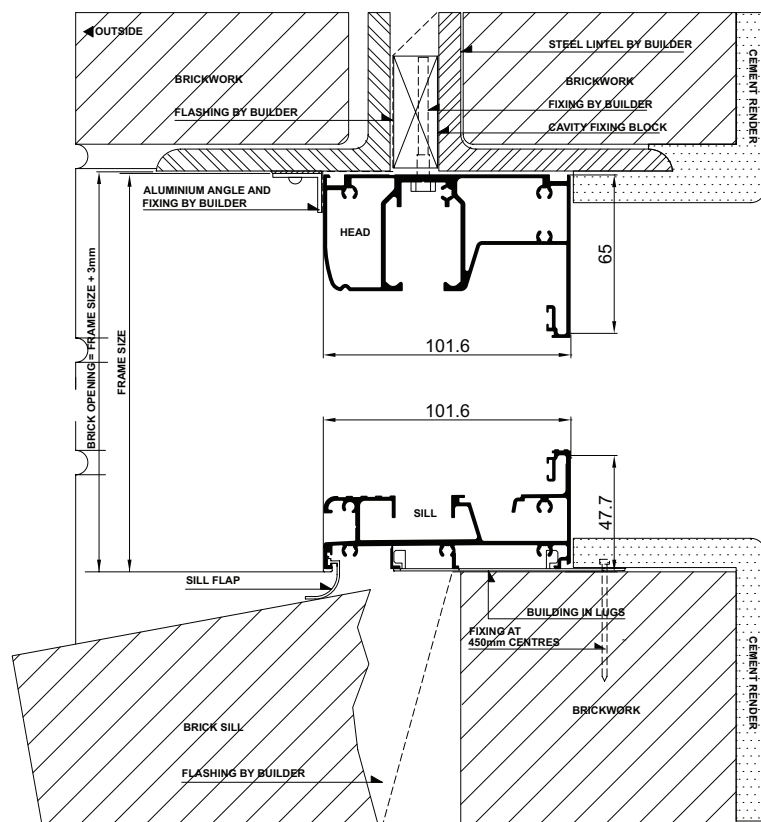
INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
 - Measure the frame opening to ensure that there is sufficient room for the product and additional packing.
- Brick Opening:**
Height = Frame Size + 3mm
Width = Frame Size + 3mm
- Secure aluminum windows by using building lug - fixing at 450mm maximum centres.
 - Sill bricks should be at least 10mm clear of window frame to allow settlement in brick veneer construction.
 - Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
 - **Build-in 3mm camber to head.**
 - **Bifolds top-hung - beam must support weight.**



INSTALLING FRAME CORRECTLY

- Fit flashing to window surround (refer to drawing below).
 - Measure the frame opening to ensure that there is sufficient room for the product and additional packing.
- Stud Opening:**
Height = Frame Size + 60mm
Width = Frame Size + 60mm
- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
 - Header beam should be at least 12mm clear of window frame.
 - Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
 - To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).
 - **Build-in 3mm camber to head.**
 - **Bifolds top-hung - beam must support weight.**



Bifold Window - Installation

Building In Detail | **Blockwork**



INSTALLING FRAME CORRECTLY

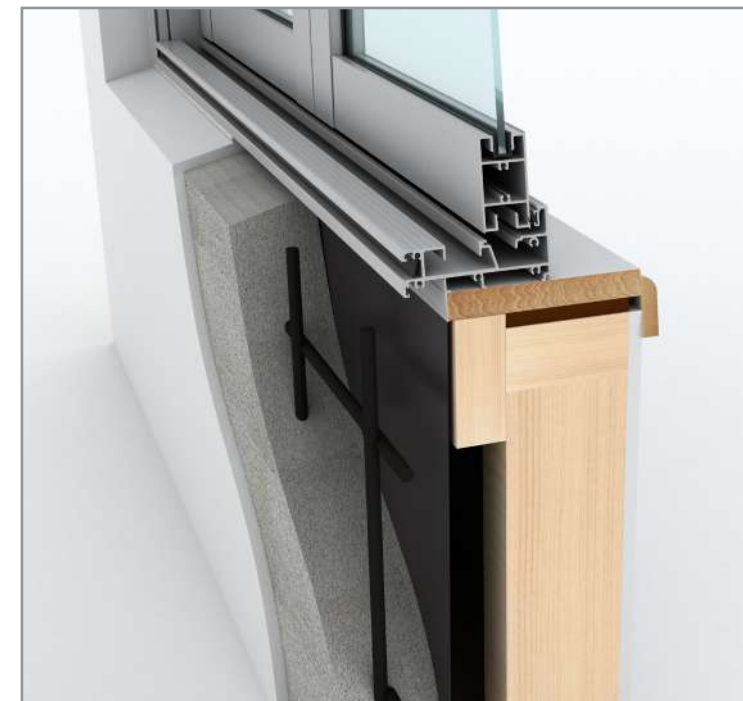
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 40mm

Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Seal ends of subsill with angle.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- Build-in 3mm camber to head.**
- Bifolds top-hung - beam must support weight.**



INSTALLING FRAME CORRECTLY

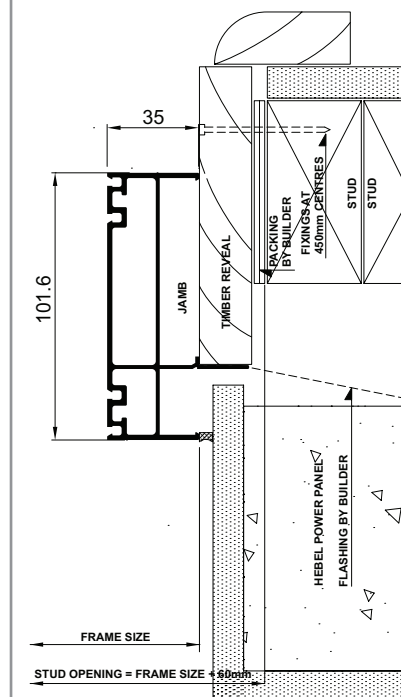
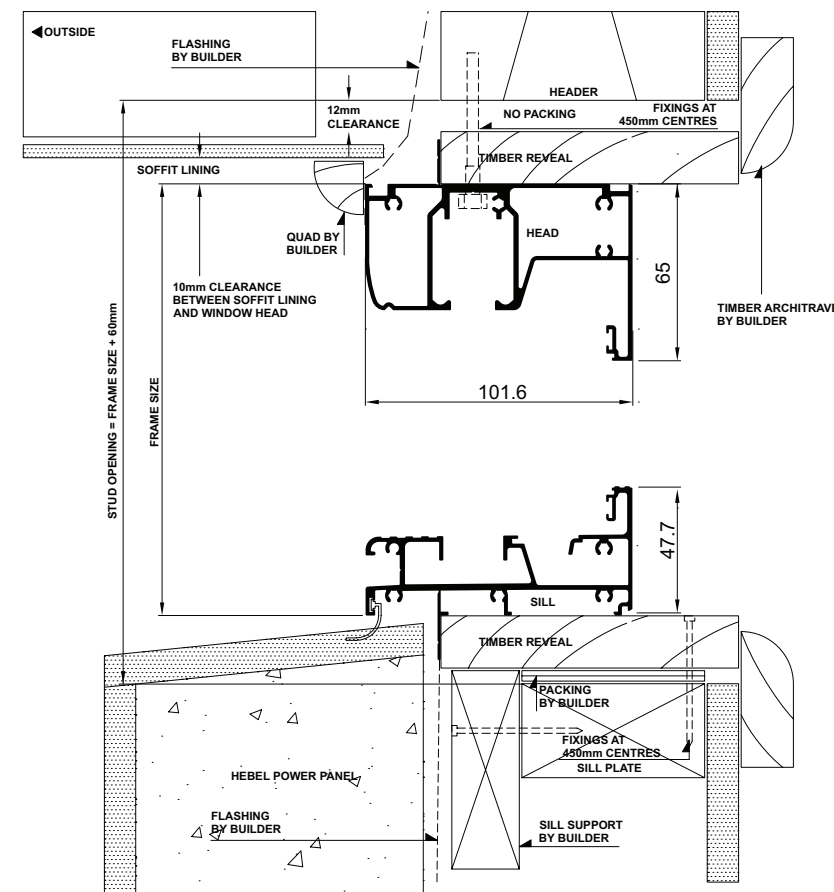
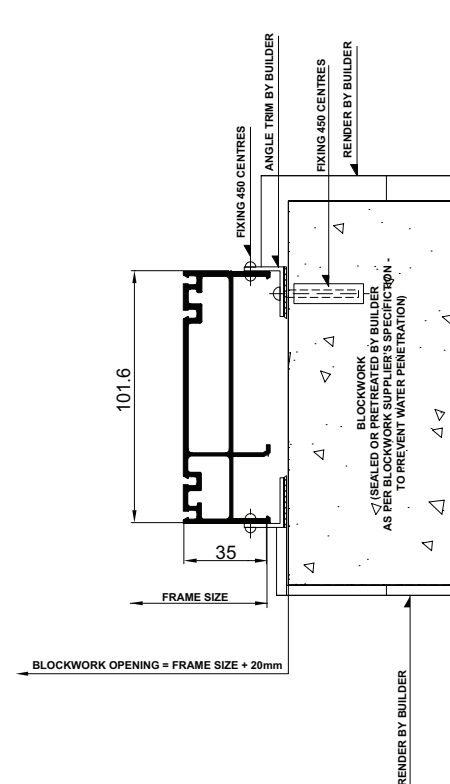
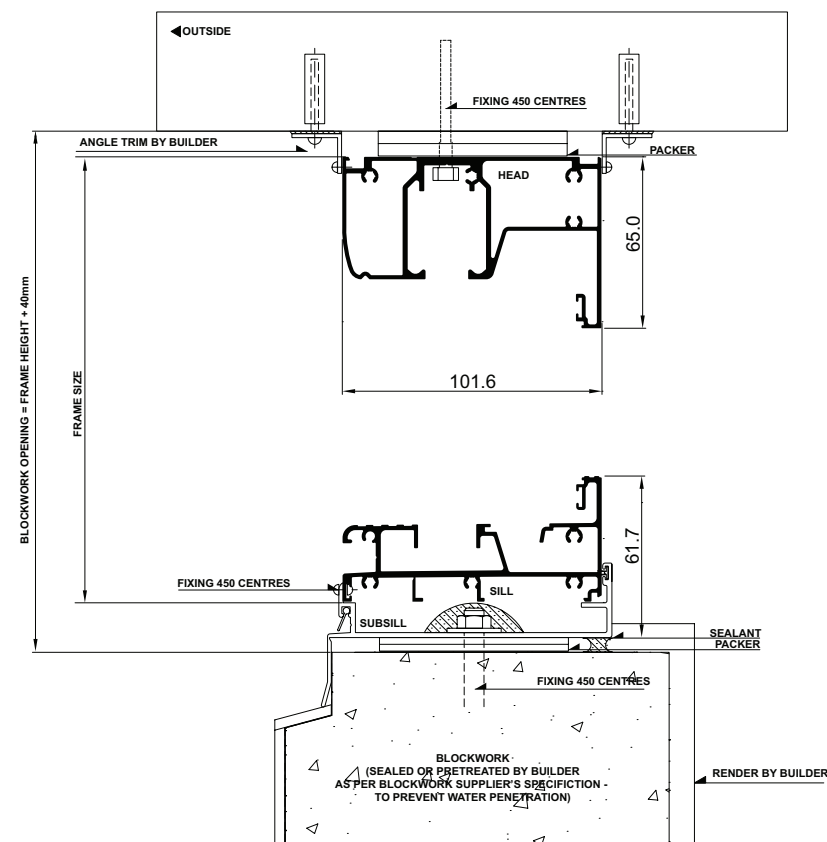
- Fit flashing to window surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

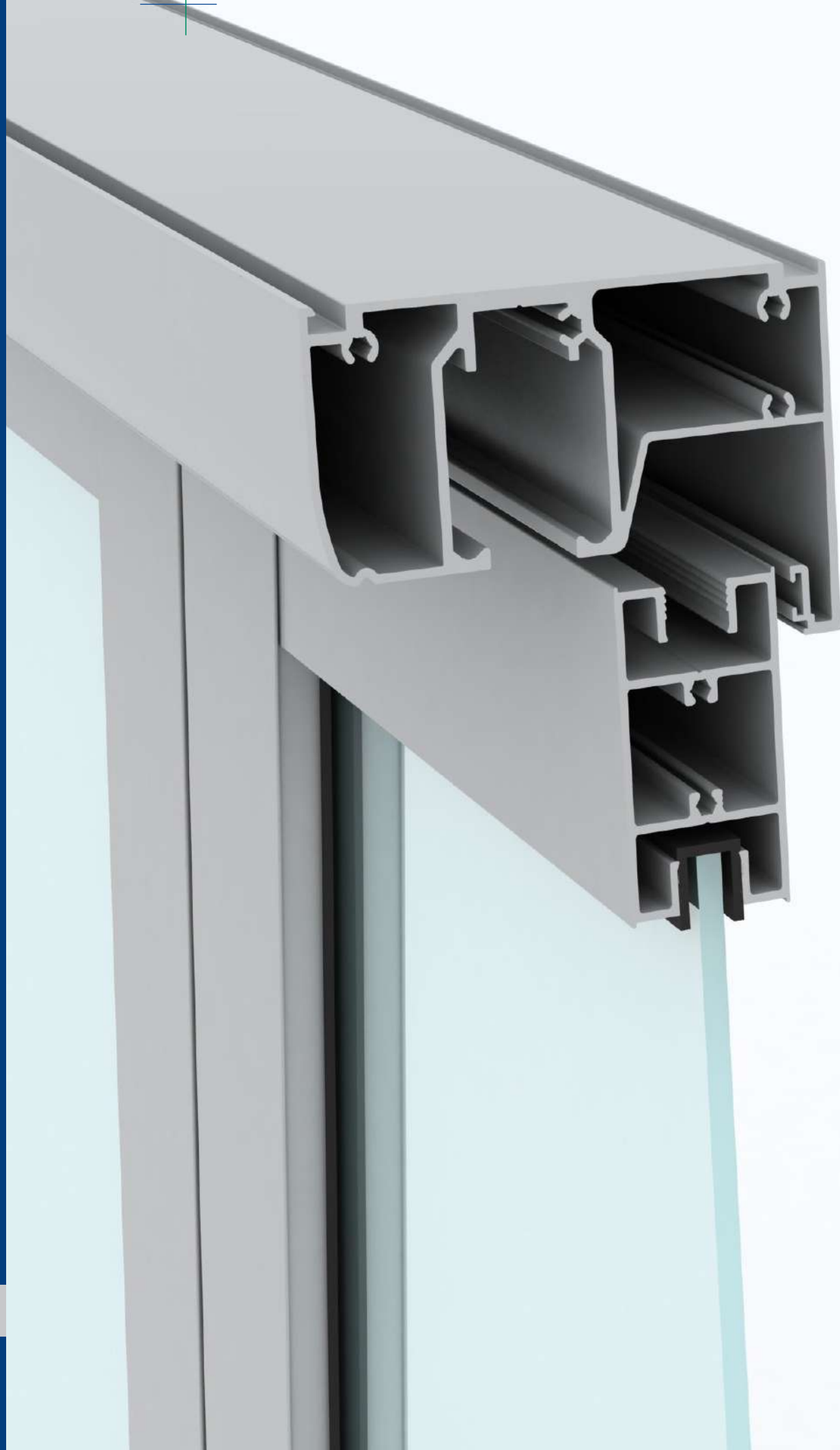
Stud Opening:

Height = Frame Size + 60mm

Width = Frame Size + 60mm

- Secure aluminum windows by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Caulk between render and frame.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of windows, install sill support (refer to drawings below).
- Build-in 3mm camber to head.**
- Bifolds top-hung - beam must support weight.**



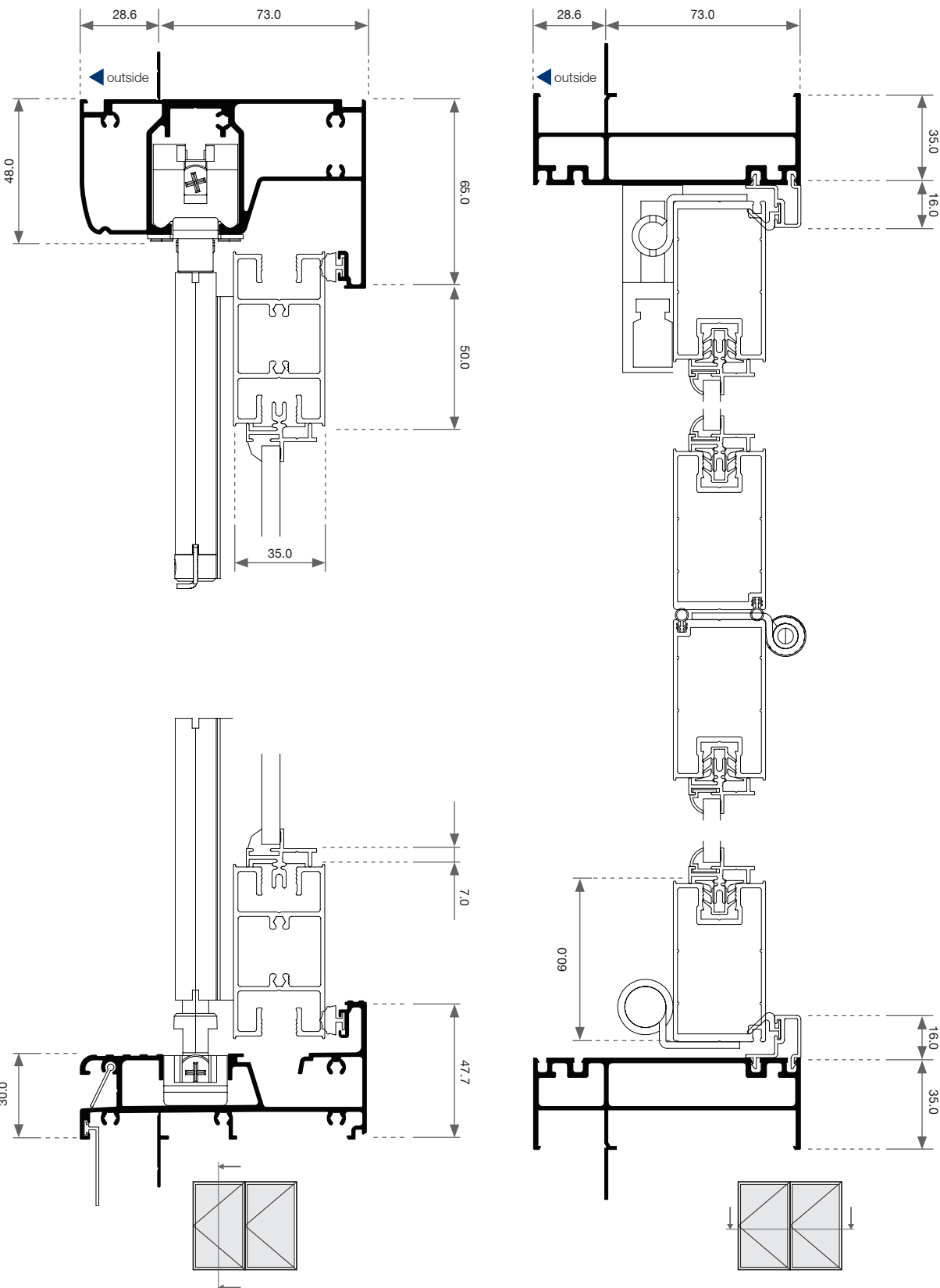


Quantum® Bifold Window Cross Sectional Views



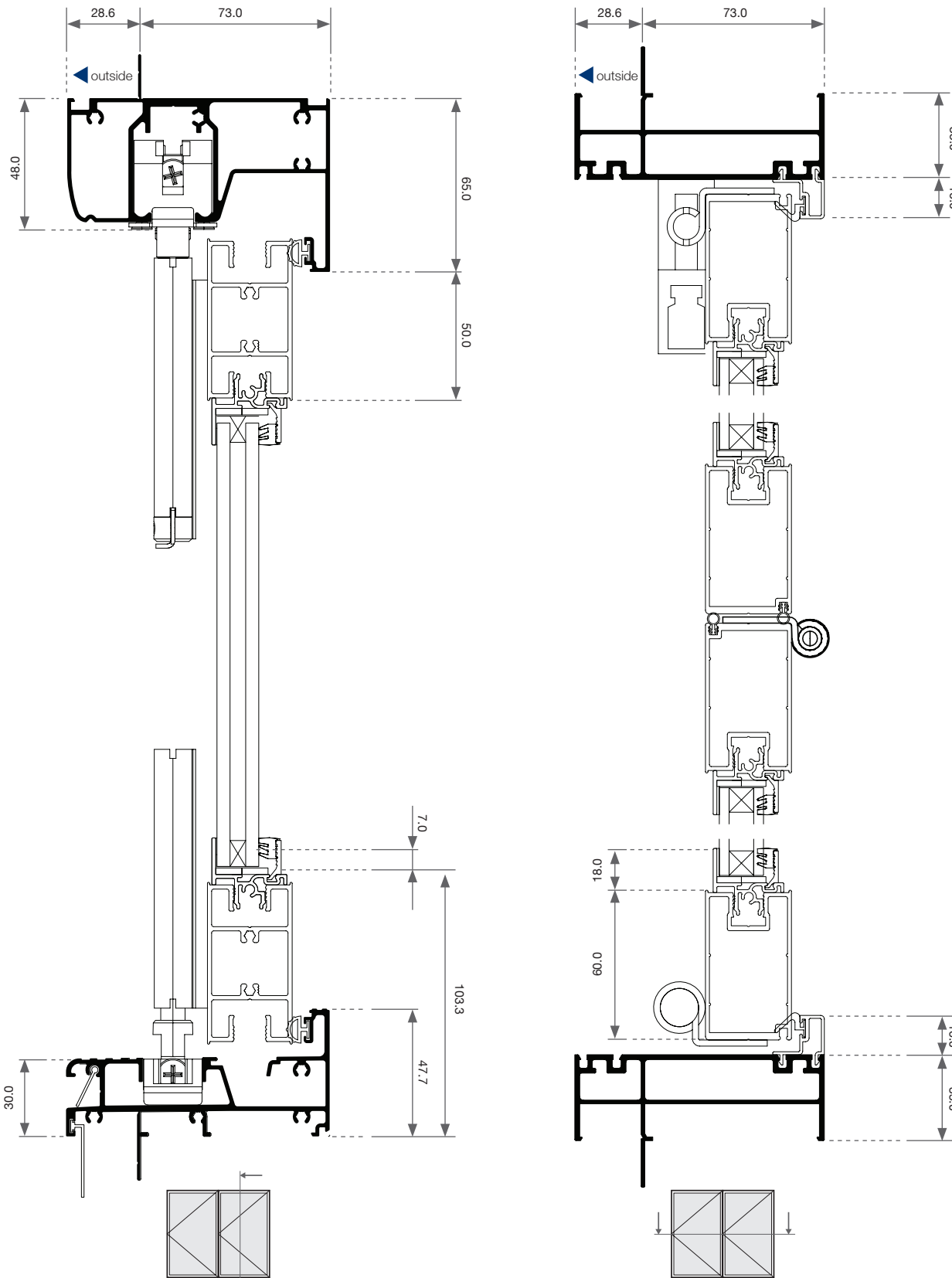
Bifold Window - Cross Sectional View

Two Lite



Bifold Window - Cross Sectional View

Two Lite | Double Glazed



Quantum® Sliding Door Features & Benefits

Sliding Door - Features & Benefits

Sliding Door - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium door frame.
- Combine with windows or can be used in integrated with Trend®'s Crestlite® commercial applications.

PANELS

- 50mm wide aluminium door panel sash section.
- Individual panels can measure up to 2700mm high and 1500mm wide.
- Panels can be reversed*.
- Operating panels are removable - by lifting the sash up into the head.
- Panel punched holes are fitted with infill caps.
- Heavy duty double bogey roller system.
- Five types of interlockers are available.

*Striker holes in jamb will be visible.

SILL

- Aluminium threshold features the Easyrider sill which is ideal for wheelchair access.
- Protected rolling track – an extruded aluminium splayed threshold protects both glass door and fly door rolling tracks.

GLAZING & ENERGY EFFICIENCY

- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 18mm insulated glazed units (IGUs).
- Available in a range of glazing options.
- Safety Grade “A” toughened glass as standard.
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction.
- High R_w ratings available.



WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Pascal deflection rates up to 2200Pa.
- Sliding Door rated at an air infiltration of 1.33L/s m² .

SECURITY

- Dead lock supplied as standard.
- Optional barrier, security and **Prowler Proof** screens available.

BUSHFIRE

- Xtreme® Bushfire Protection option available.
- Xtreme® options have been tested by CSIRO to meet BAL-40 - compliant to AS1530.8.1 within Australian Standards AS3959-2009.



HARDWARE

- **Infinity** Satin Chrome hardware supplied as standard**
- Optional Slimline and Dura handles are available
- Optional colours available are:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Door locks can be keyed alike to other Quantum® door products for ease of use.
- Heavy duty dual roller system.

**Infinity “D” handle supplied as standard
(See picture top right hand corner)

BUILD-IN ACCESSORIES

- 180° non-load bearing couplers.
- 135° non-load bearing corner couplers.
- 100mm aluminium architraves for replacement door installations.
- Adjustable storm mould.
- Extruded aluminium 180° mullion covers to hide load bearing posts.

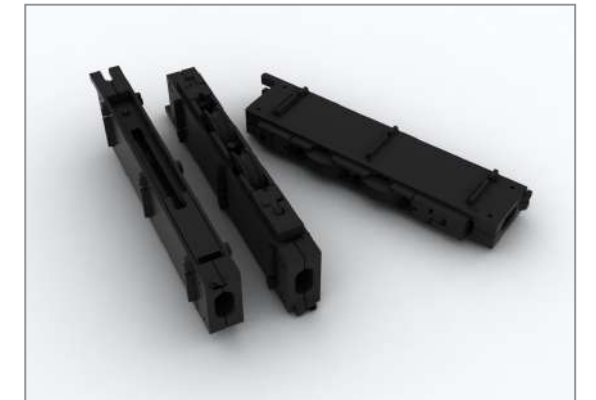
OPTIONS

- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powder coating colours.
- Customised WERS ratings.
- Variety of sizes and custom made options available.
- Variety of configuration options available.

*Ovolo only available in single glazing.

DELIVERY

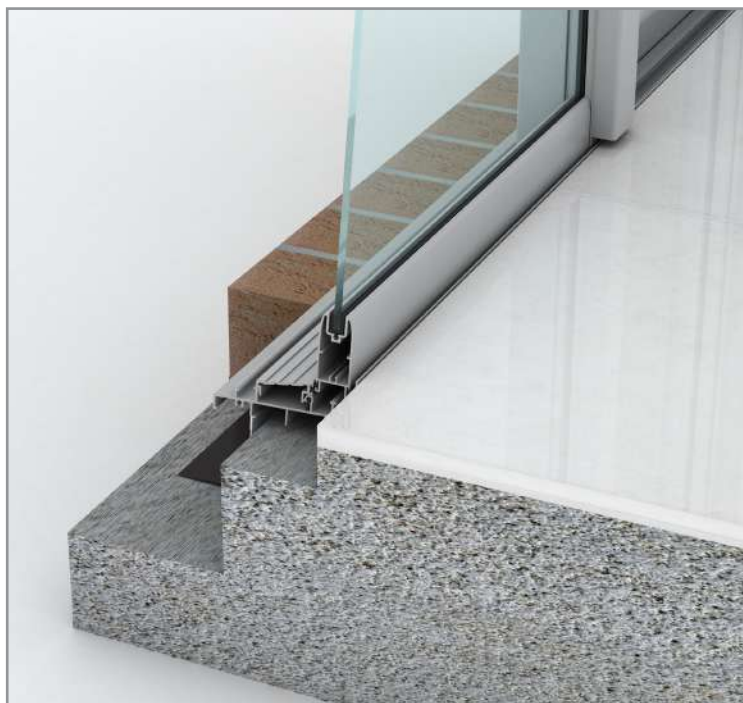
- Protective wrapping for delivery to site comes standard for all Quantum® products.



Quantum® Sliding Door Installation

Sliding Door - Installation

Building In Detail | Brick Veneer - 240mm wall



INSTALLING FRAME CORRECTLY

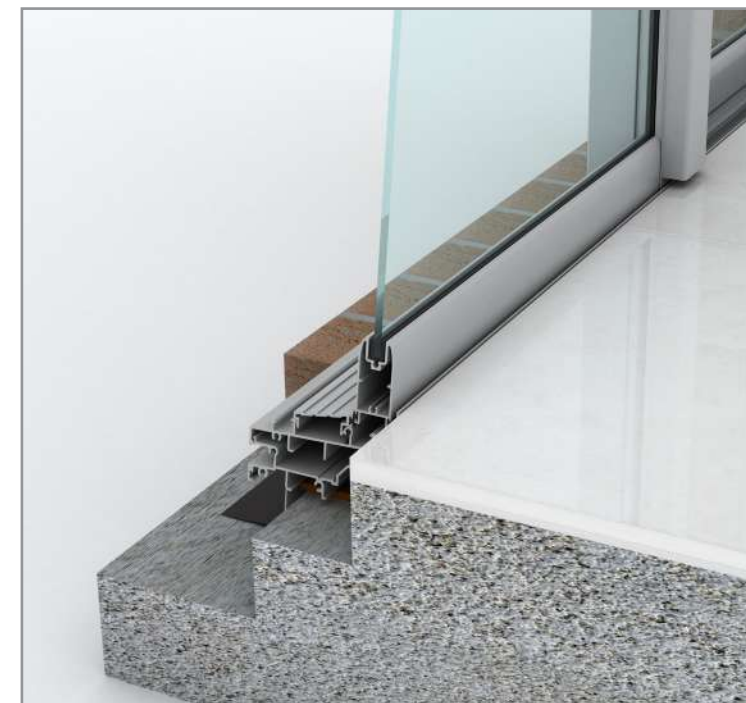
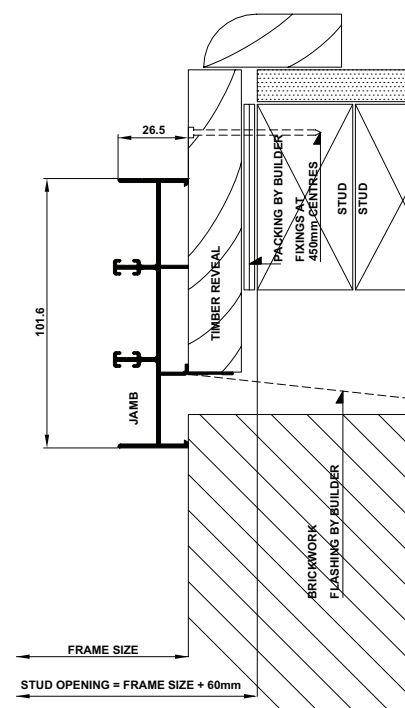
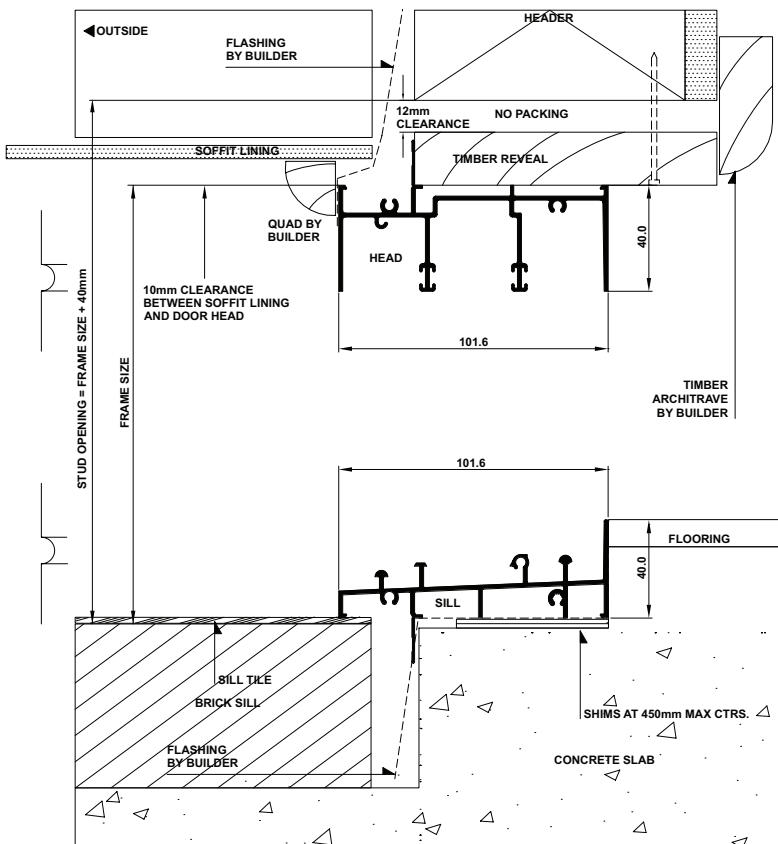
- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm

Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



INSTALLING FRAME CORRECTLY

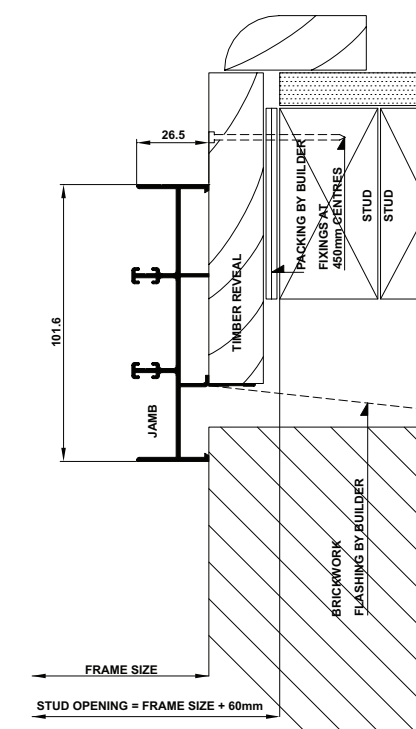
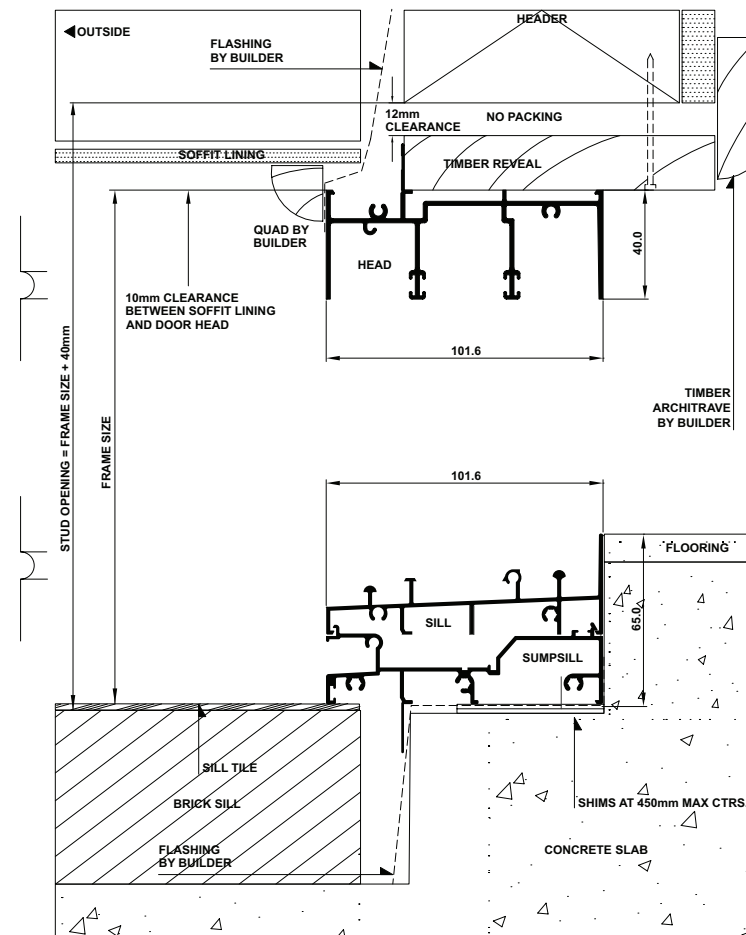
- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm

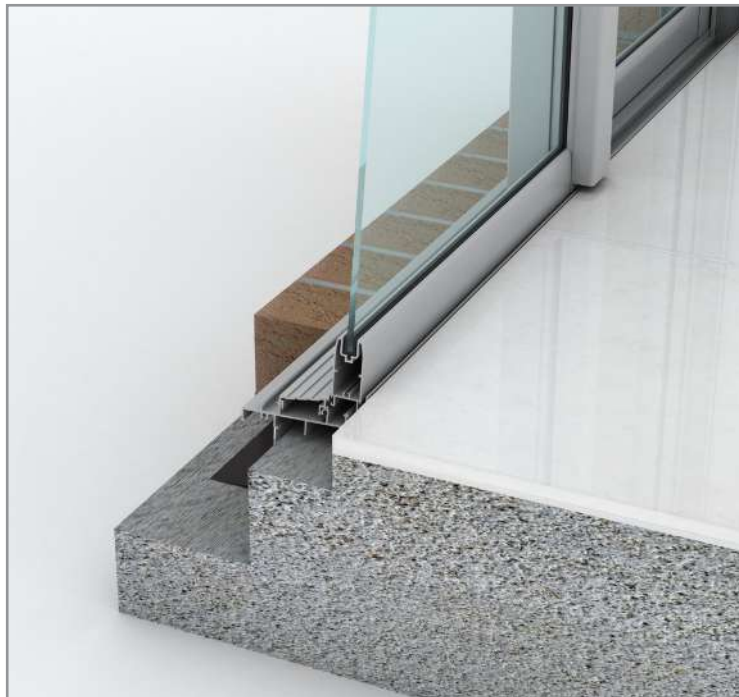
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Sliding Door - Installation

Building In Detail | Double Brick - 280mm wall



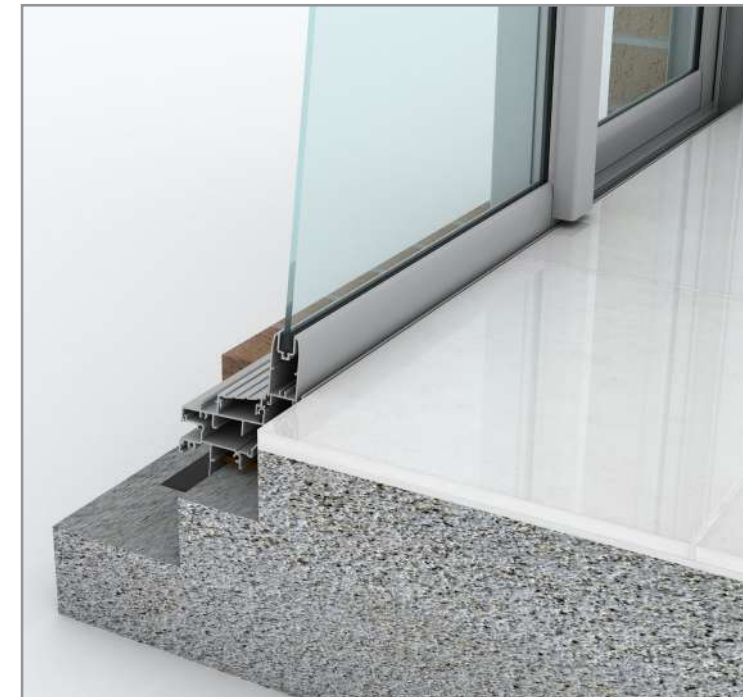
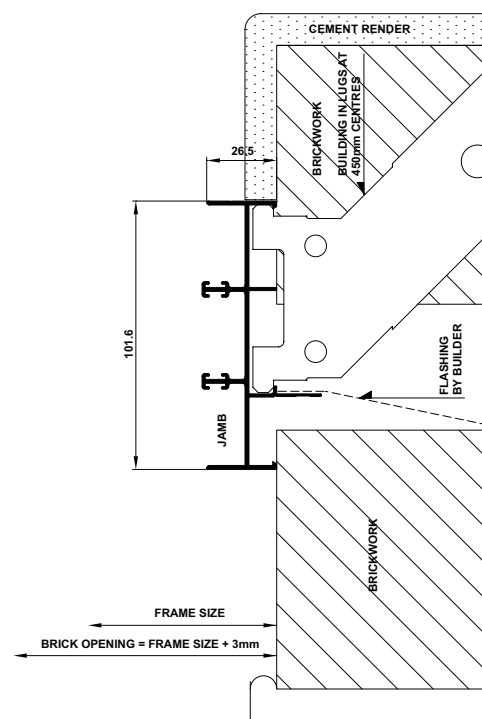
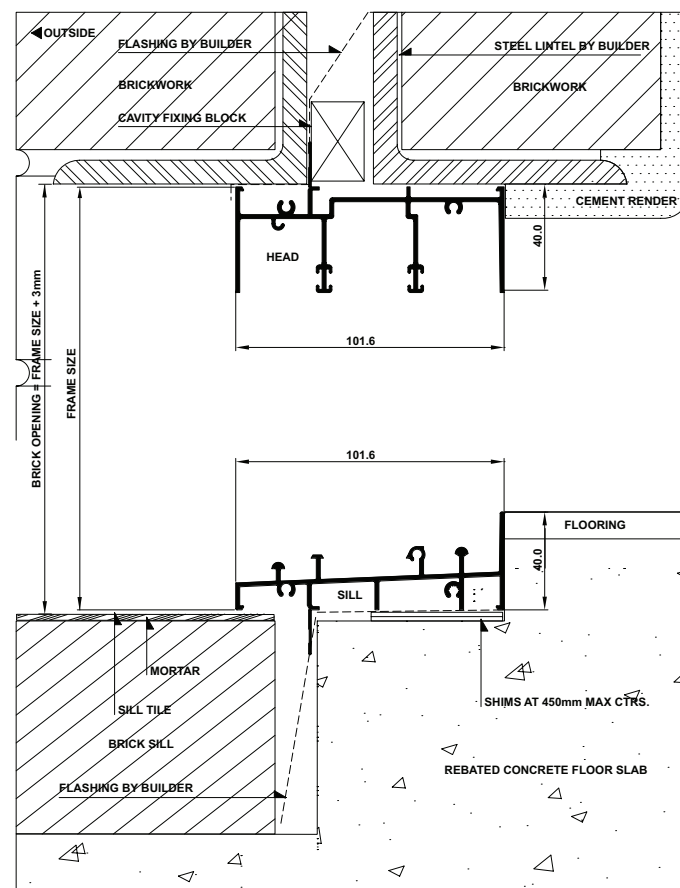
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 50mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



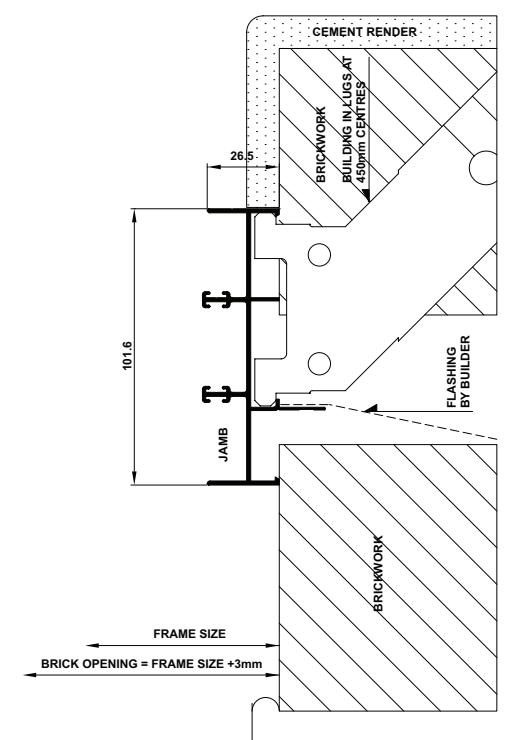
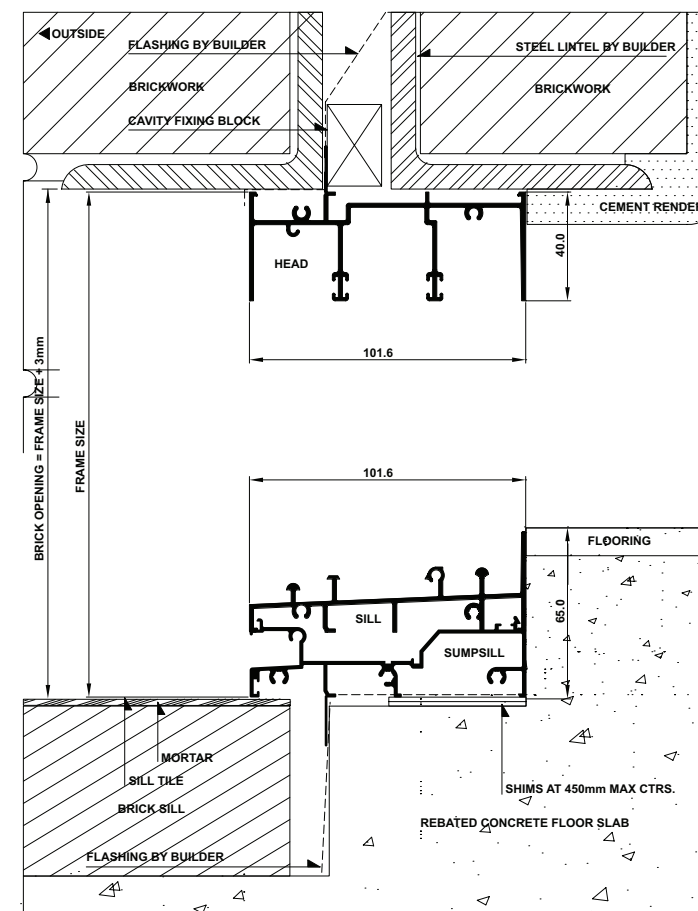
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 450mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- Ensure outside finish does not block sill drainage holes.



Sliding Door - Installation

Building In Detail | Double Brick - 280mm wall | Sump Sill



- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 450mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.

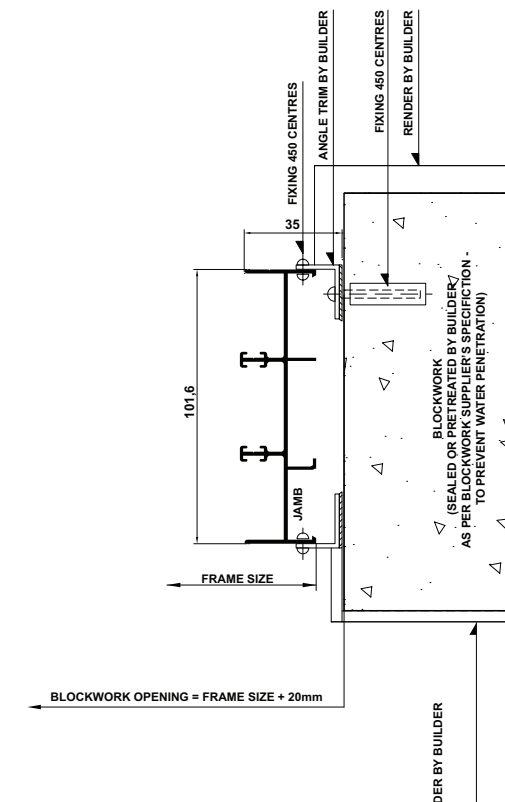
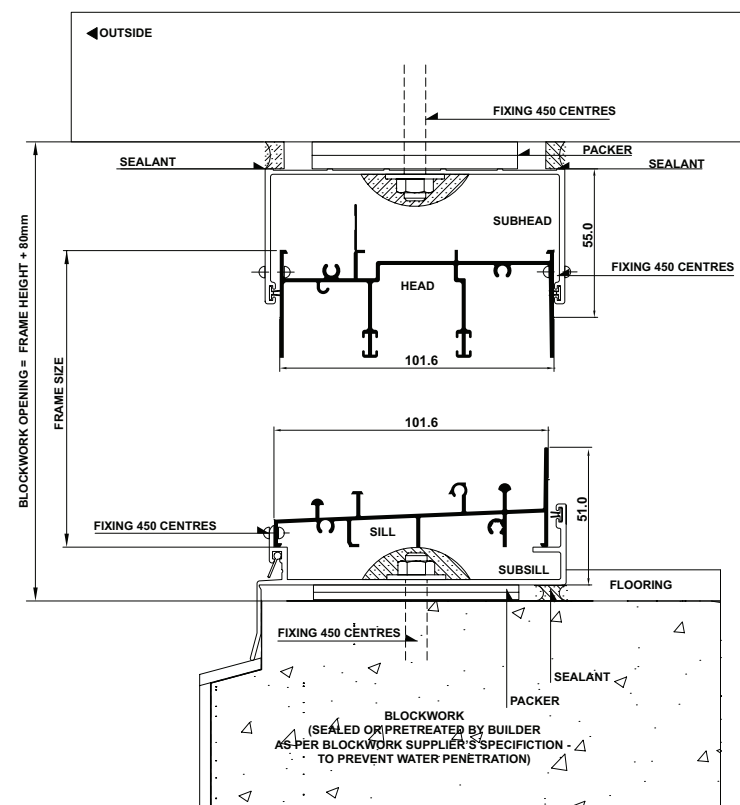
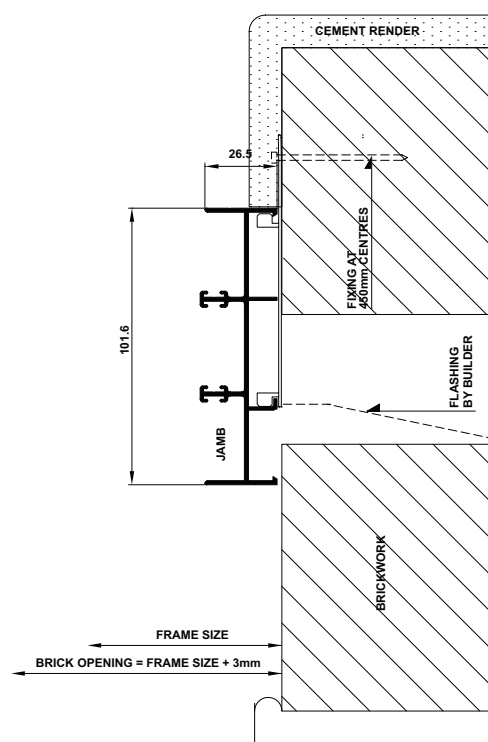


- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm
Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. (**Windows and doors are not load bearing.**)
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Sliding Door - Installation

Building In Detail | Cladding on Studwall

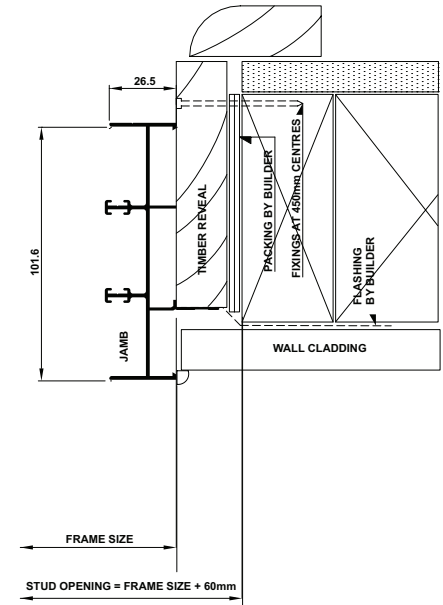
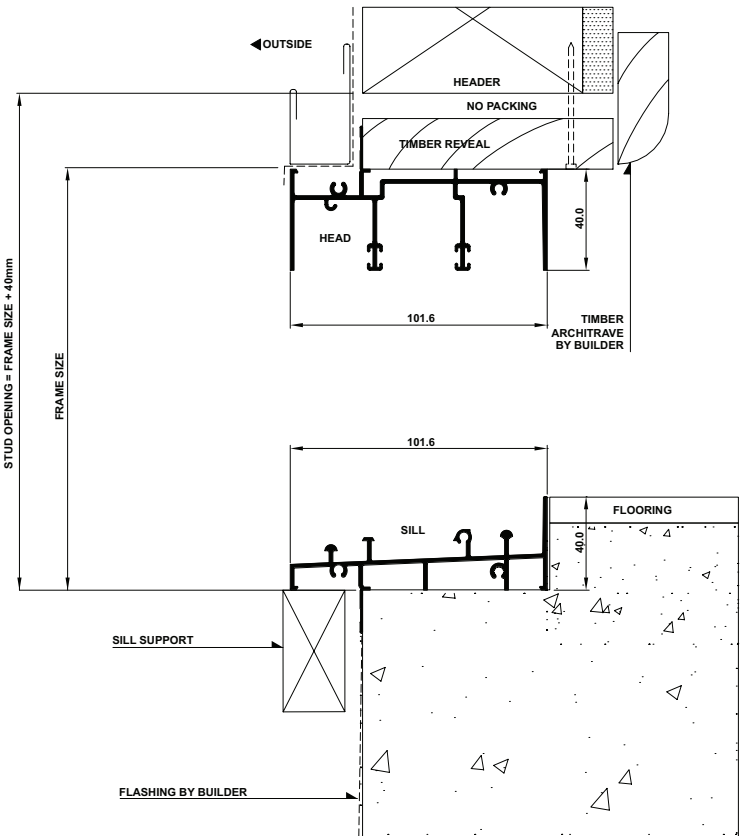


INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:
Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.

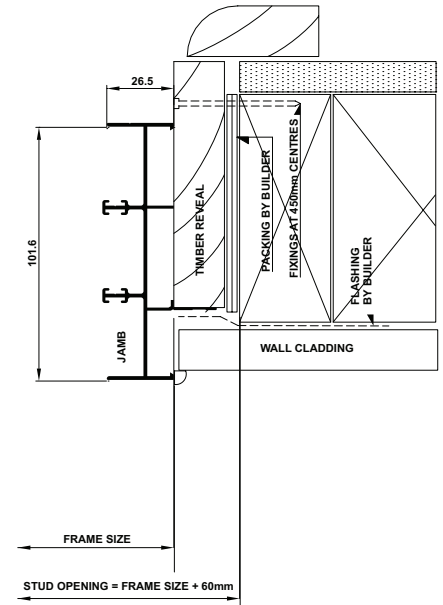
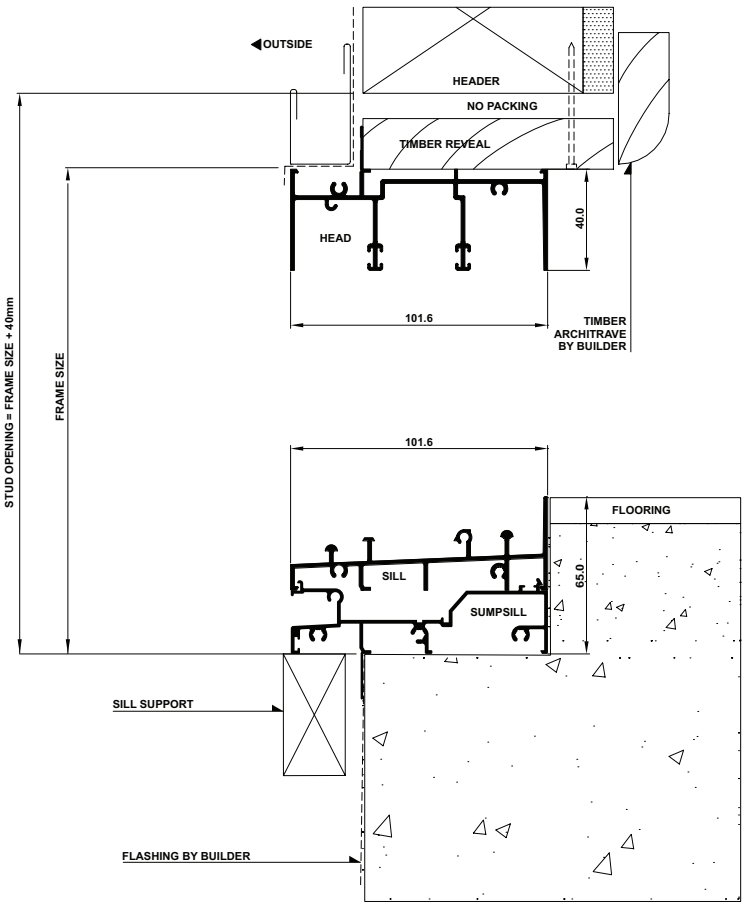


INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:
Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



Sliding Door - Installation

Building In Detail | Cladding on Studwall | Sump Sill

Sliding Door - Installation

Building In Detail | Hebel Power Panel



INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- Caulking between render and frame
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes



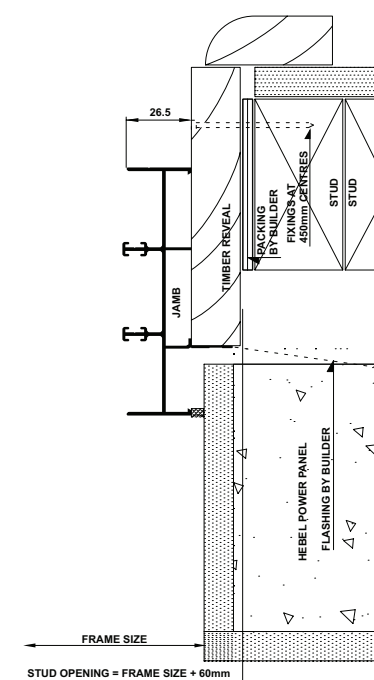
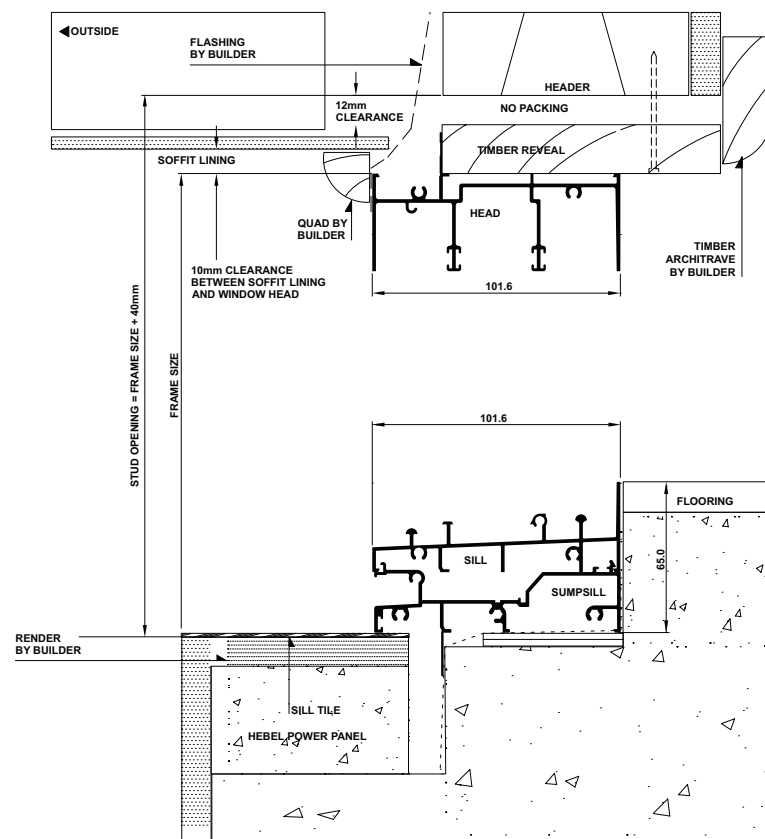
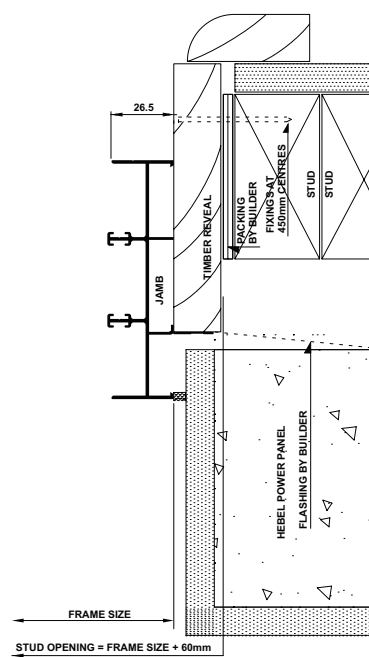
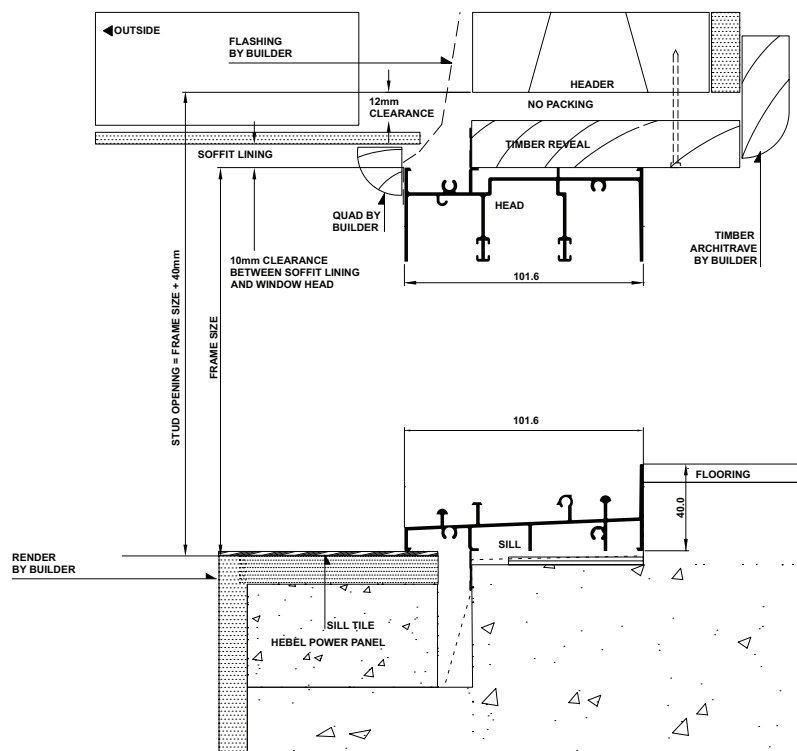
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
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- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
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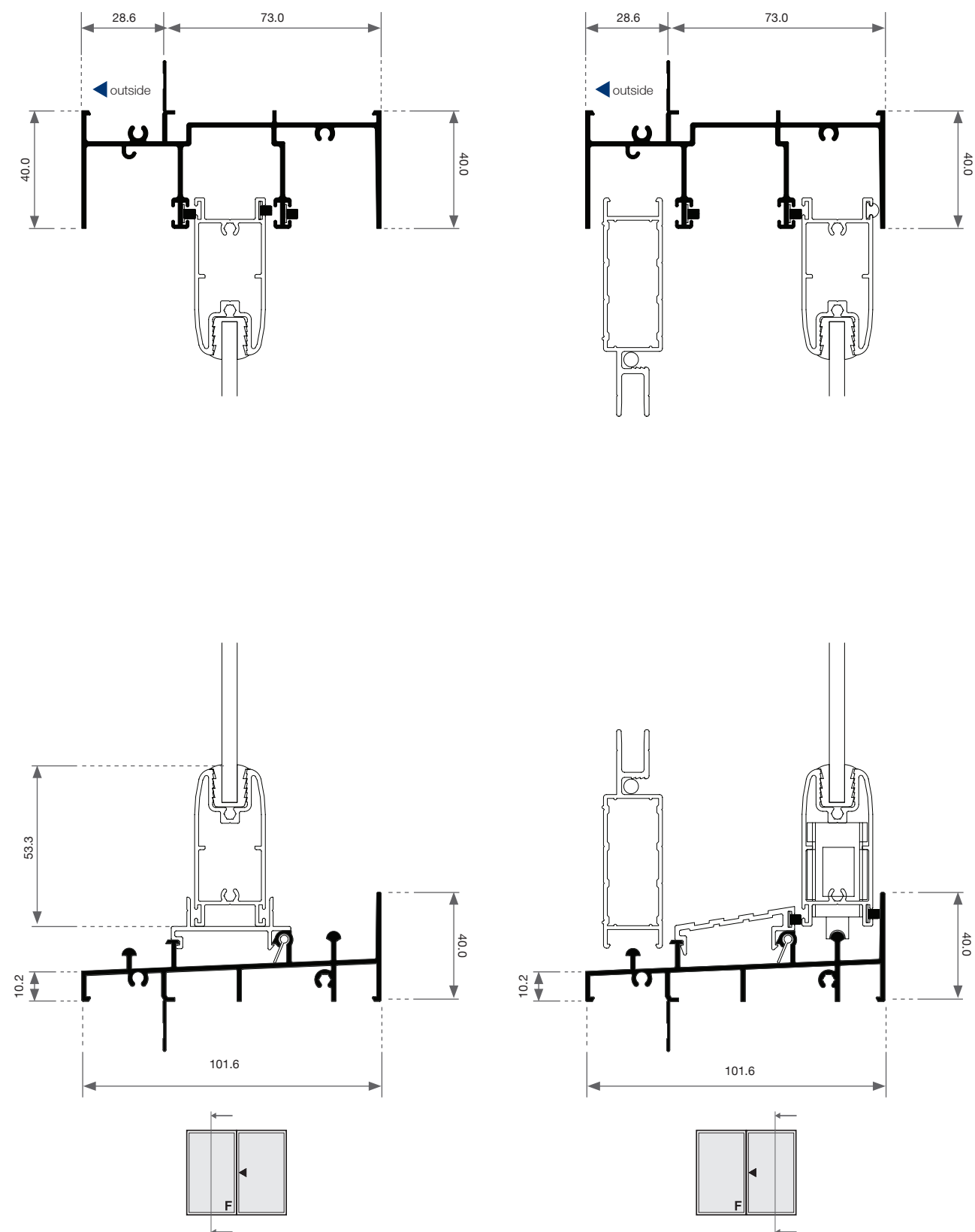




Quantum® Sliding Door Cross Sectional Views

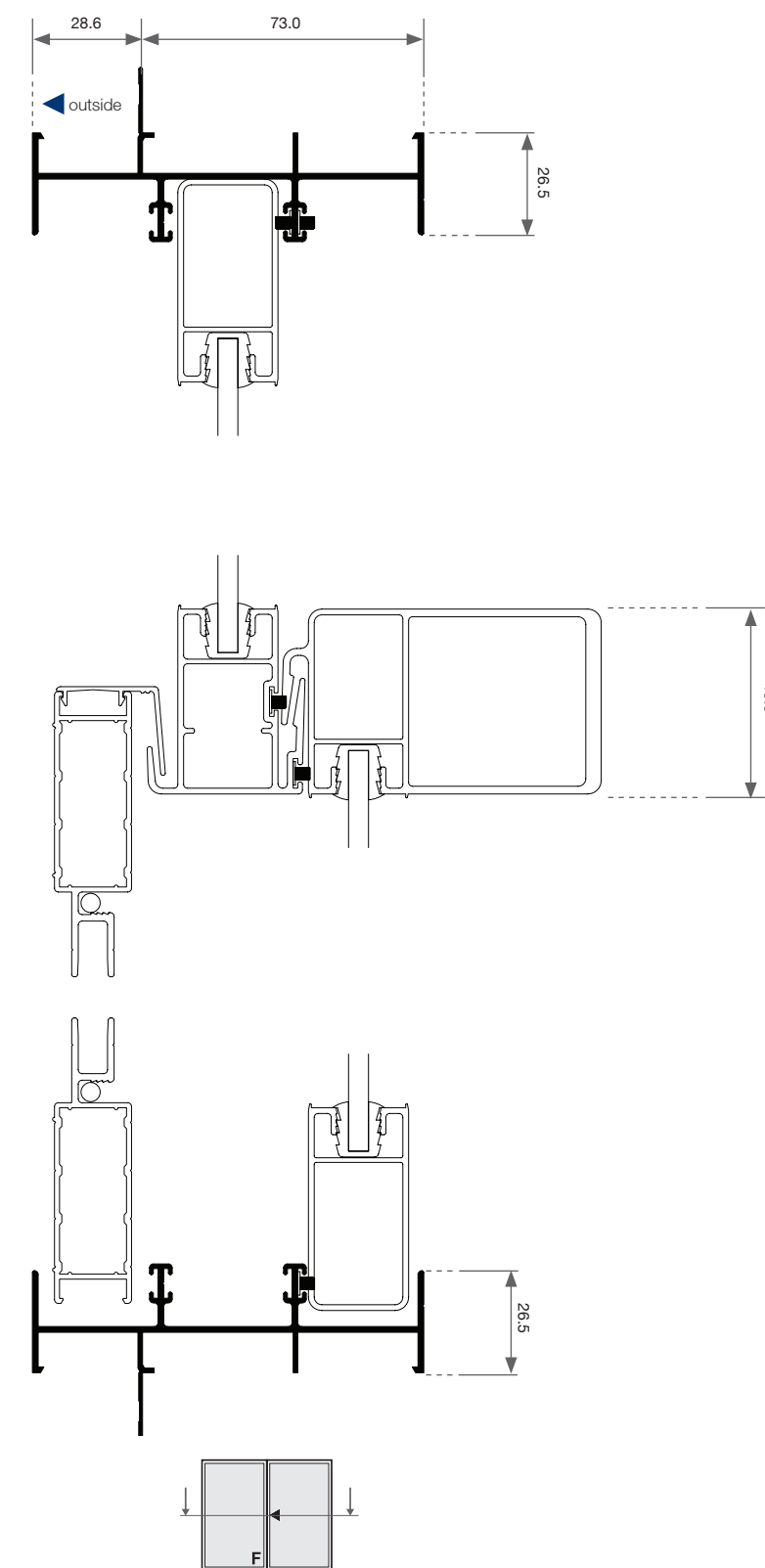
Sliding Door - Cross Sectional View

Two Panel | FX



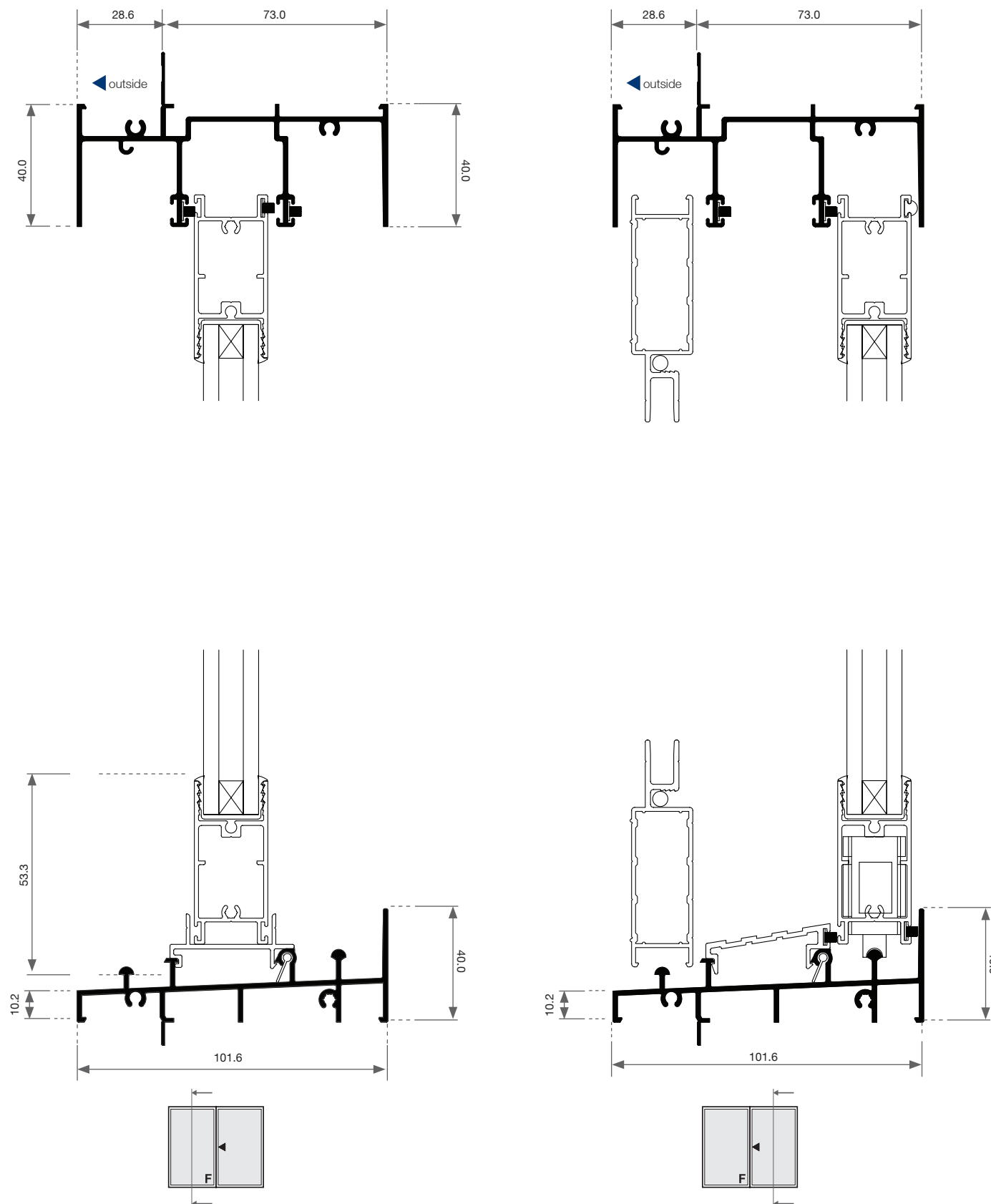
Sliding Door - Cross Sectional View

Two Panel | FX



Sliding Door - Cross Sectional View

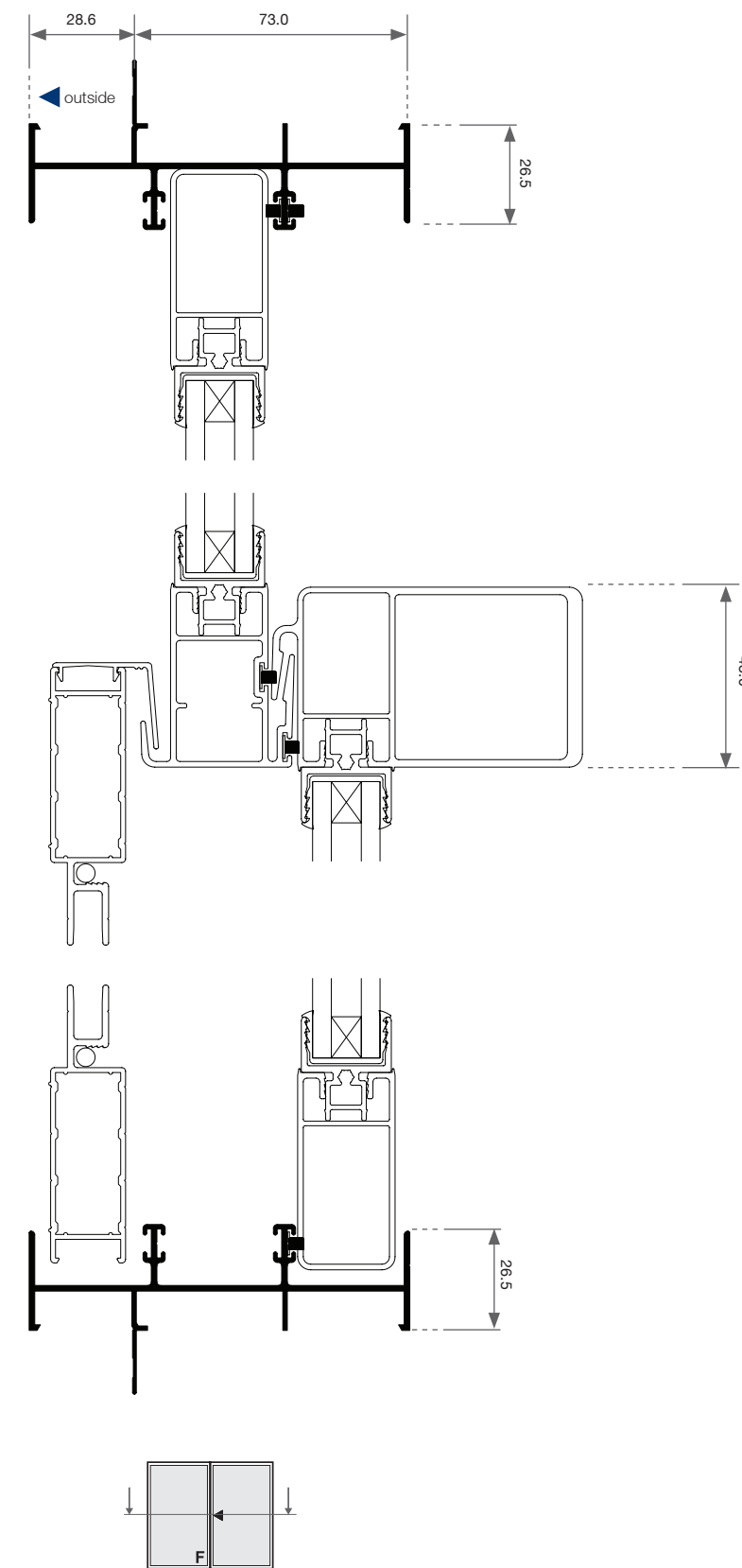
Two Panel | FX | Double Glazed



Please note that drawings displayed are not to scale

Sliding Door - Cross Sectional View

Two Panel | FX | Double Glazed

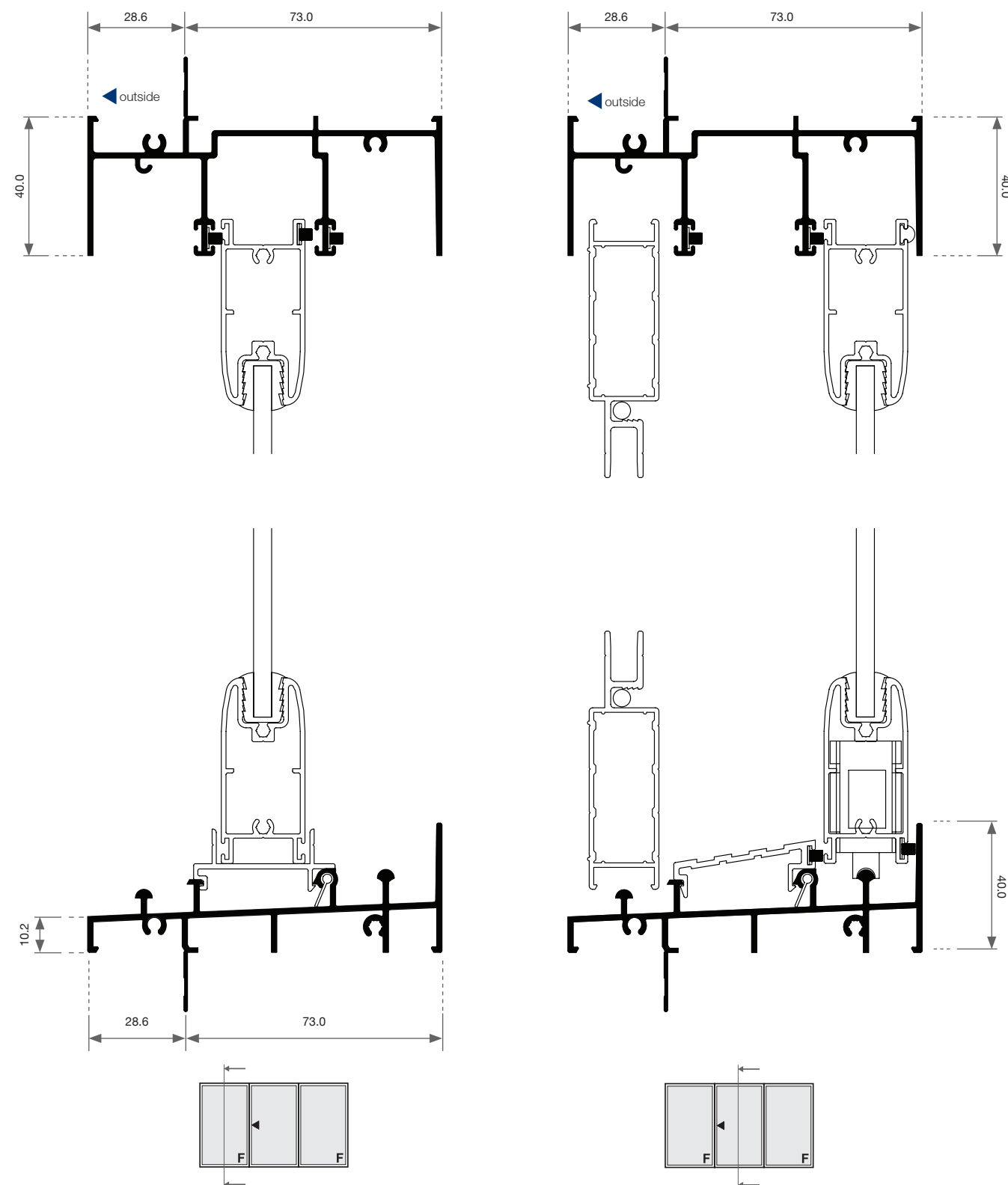


Please note that drawings displayed are not to scale



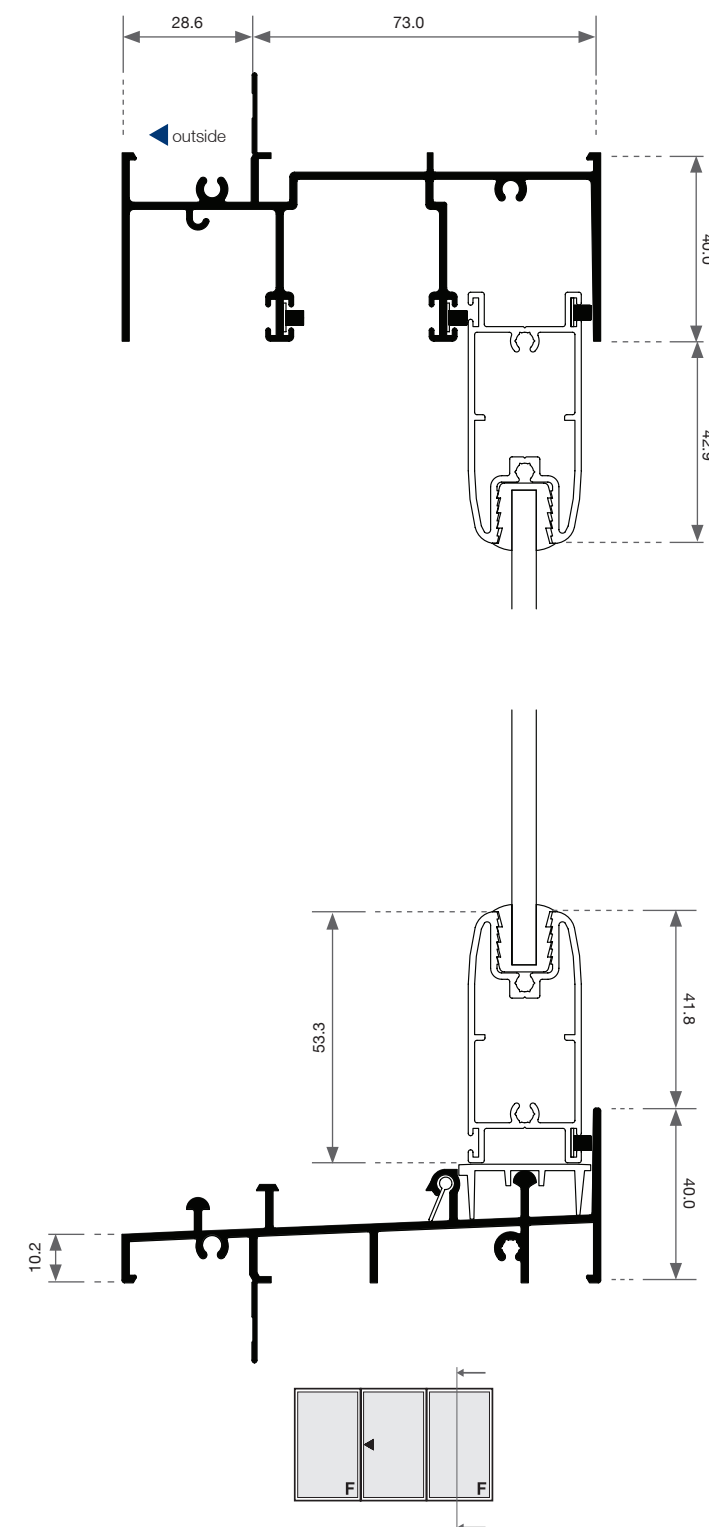
Sliding Door - Cross Sectional View

Three Panel | FXF



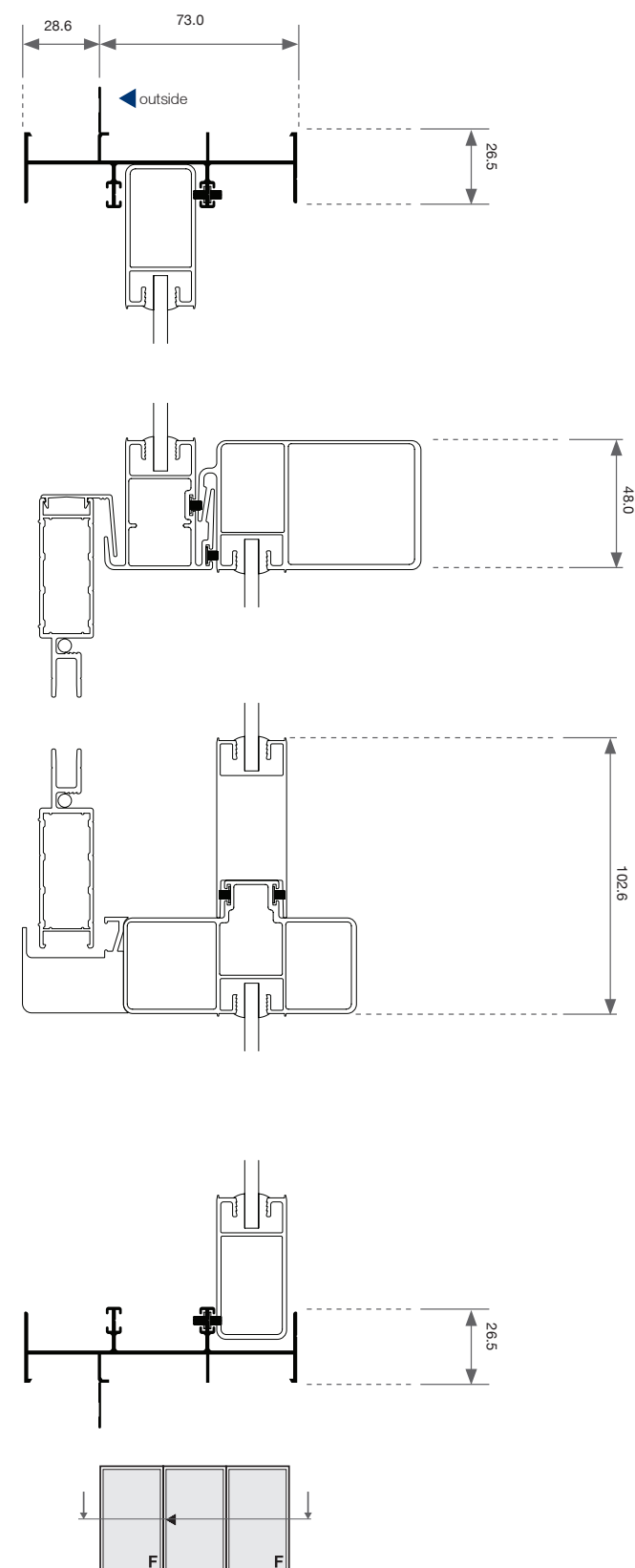
Sliding Door - Cross Sectional View

Three Panel | FXF



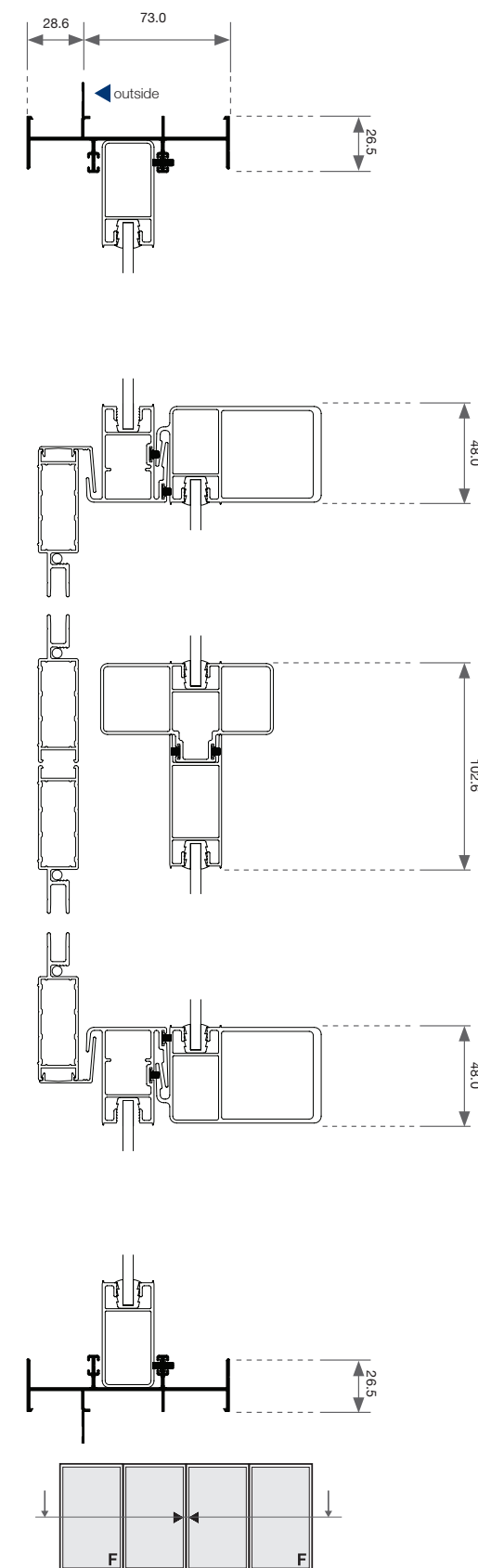
Sliding Door - Cross Sectional View

Three Panel | FXF



Sliding Door - Cross Sectional View

Four Panel | FXXF



Quantum® Sliding Stacker Door

Features & Benefits

Sliding Stacker Door - Features & Benefits

Sliding Stacker Door - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium door frame (160mm with flyscreen tracks).
- Combine with windows or can be used in integrated with Trend®'s Crestlite® commercial applications.

Note: If Sliding Stacker Door has a screen track it cannot be coupled with other Quantum products.

PANELS

- 50mm wide aluminium door panel sash section.
- Individual panels can measure up to 2700mm high and 1500mm wide.
- Head, sill and jamb all have infills for clean lines
- Panels can be reversed*.
- Operating panels are removable - by lifting the panel up into the head.
- Panel punched holes are fitted with infill caps.
- Heavy duty double bogey roller system.
- Five types of interlockers are available.

*Striker holes in jamb will be visible.

SILL

- Aluminium threshold features the **Easyrider** sill which is ideal for wheelchair access.
- Protected rolling track – an extruded aluminium splayed threshold protects both glass door and fly door rolling tracks.
- Easy fit adaptor for flyscreens available.

GLAZING & ENERGY EFFICIENCY

- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 18mm insulated glazed units (IGUs) .
- Safety Grade “A” toughened glass as option.
- Available in a range of glazing options.
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction.
- High R_w ratings available.



WIND RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Pascal deflection rates up to 2200Pa.
- Sliding Stacker Door rated at an air infiltration of 1.33L/s m² .

SECURITY

- Dead lock supplied as standard.
- Optional security, barrier and **Prowler Proof** screens available.

BUSHFIRE

- Xtreme® Bushfire Protection option available.
- Xtreme® options have been tested by CSIRO to meet BAL-40 - compliant to AS1530.8.1 within Australian Standards AS3959-2009.



HARDWARE

- **Infinity** Satin Chrome hardware supplied as standard**
- Optional Slimline and Dura handles are available
- Optional colour available are:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Door locks can be keyed alike to other Quantum® products for ease of use.
- Heavy duty dual roller system.

***Infinity “D” handle supplied as standard (see picture right).*

BUILD-IN ACCESSORIES

- 180° non-load bearing couplers.
- 135° non-load bearing corner couplers.
- 100mm aluminium architraves for replacement door installations.
- Adjustable storm mould.
- Extruded aluminium 180° mullion covers to hide load bearing posts.

OPTIONS

- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powder coating colours.
- Customised WERS ratings.
- Variety of sizes and custom made options available.
- Variety of configuration options available.

**Ovolo only available in single glazing.*

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.



Please note that drawings displayed are not to scale

Trend® Windows & Doors | Design Manual | Q-Mk-1 | May 2014

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Please note that drawings displayed are not to scale

Trend® Windows & Doors | Design Manual | Q-Mk-1 | May 2014

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Quantum® Sliding Stacker Door Installation

Sliding Stacker Door - Installation

Building In Detail | Brick Veneer - 240mm wall



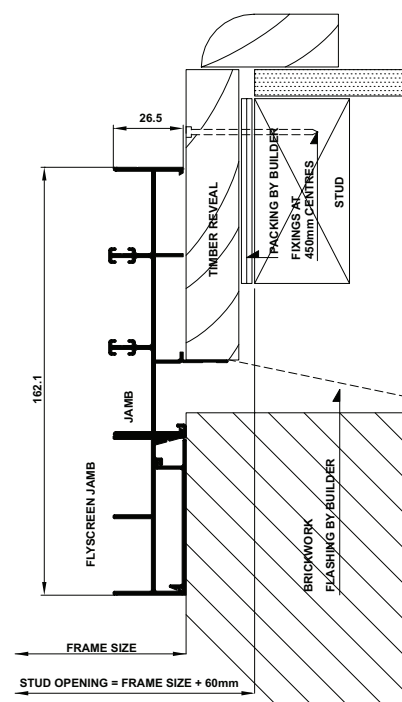
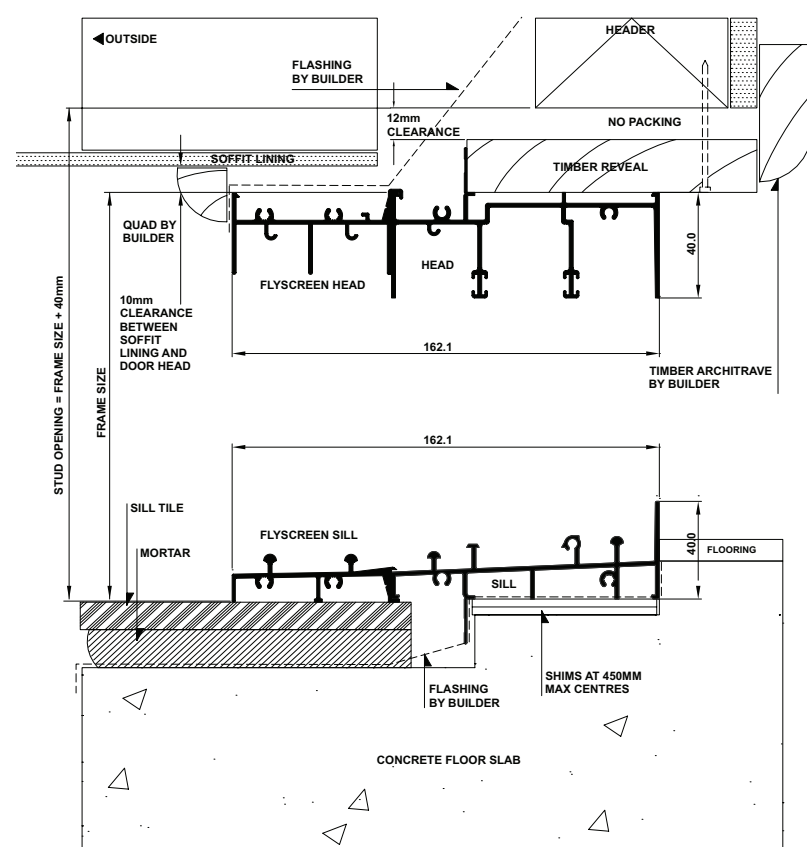
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



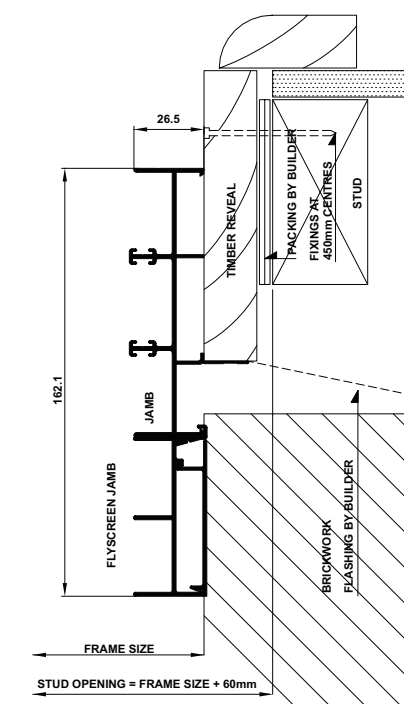
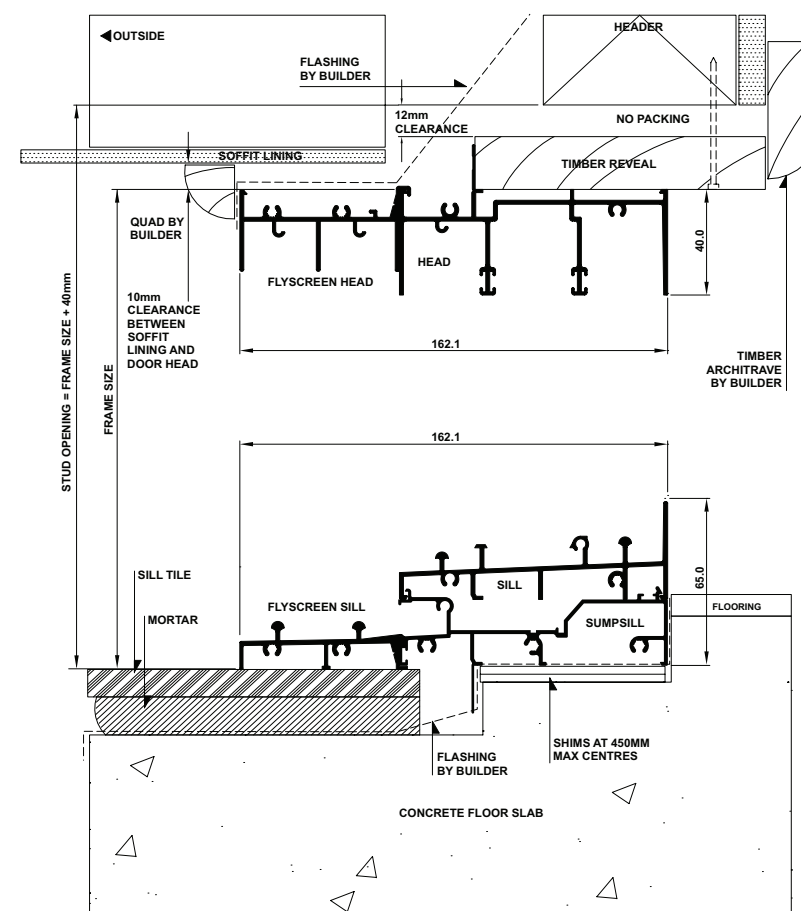
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

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- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
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- Ensure outside finish does not block sill drainage holes.



Sliding Stacker Door - Installation

Building In Detail | Brick Veneer - 240mm wall | Rebated



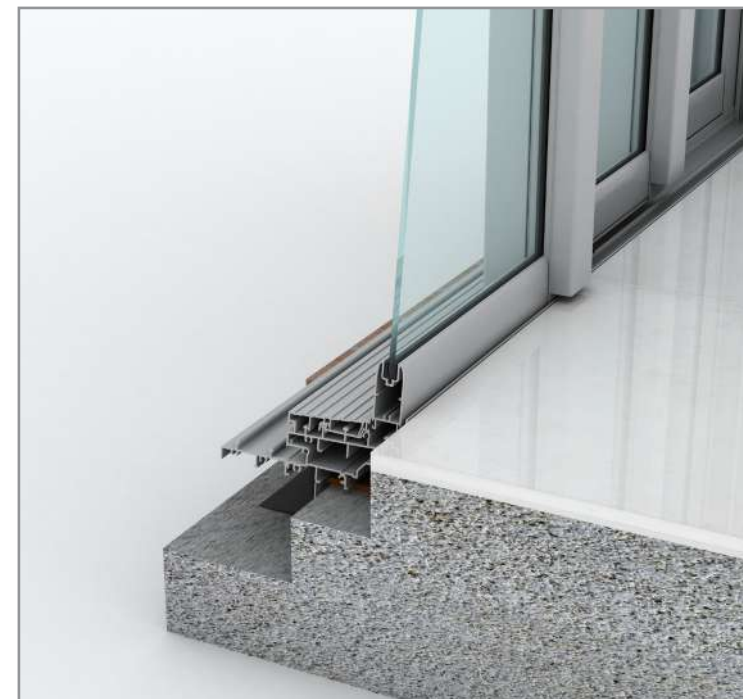
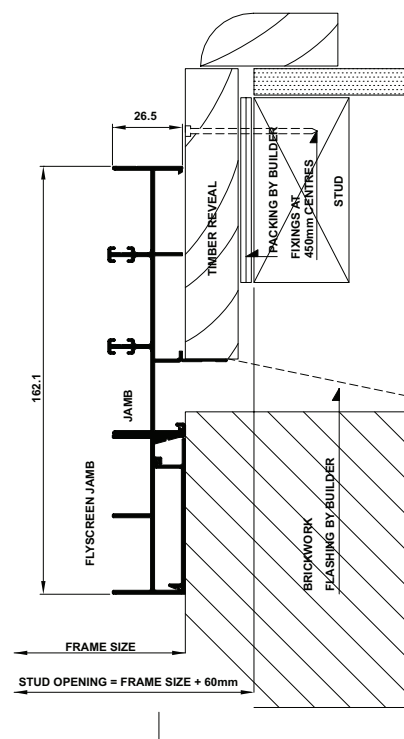
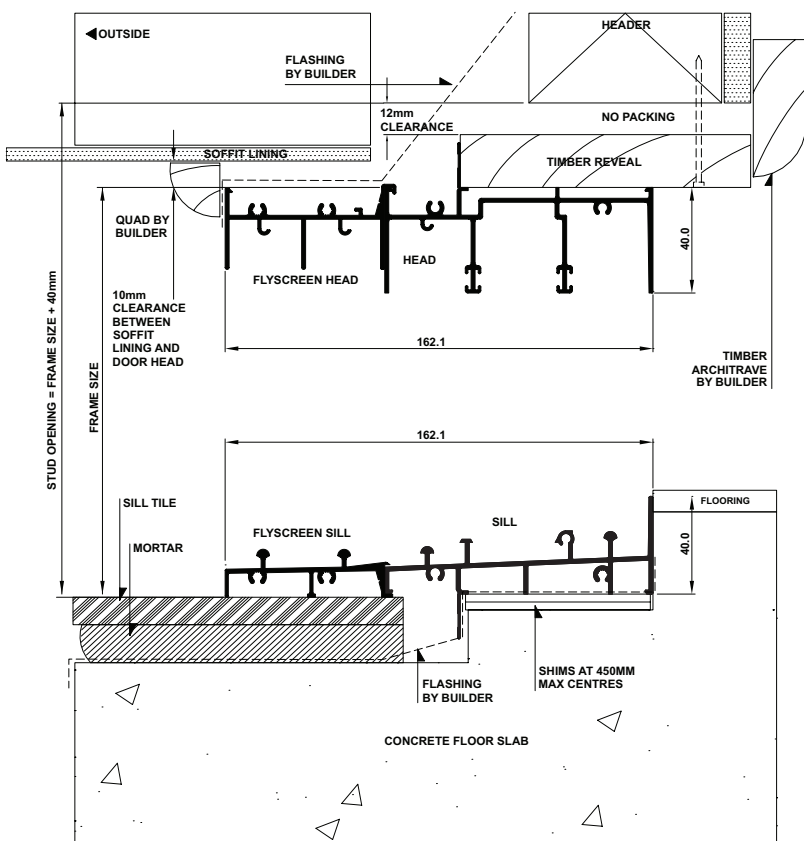
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



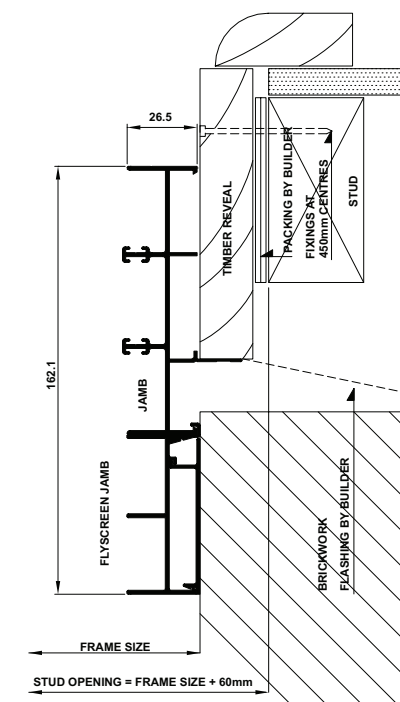
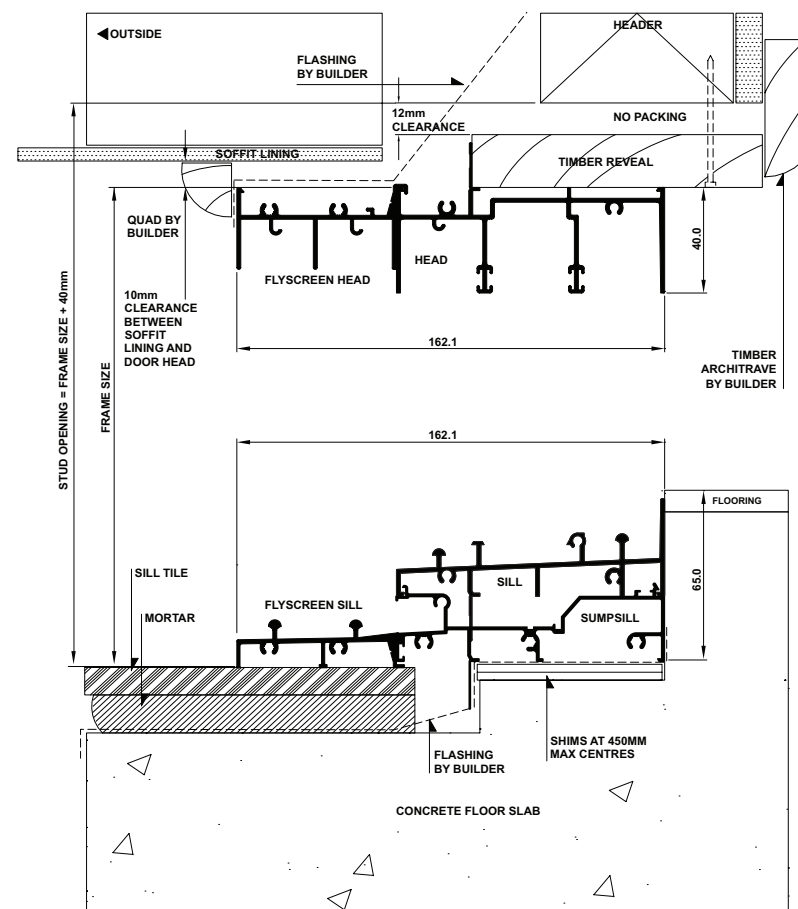
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Sliding Stacker Door - Installation

Building In Detail | Brick Veneer - 240mm wall | Joists



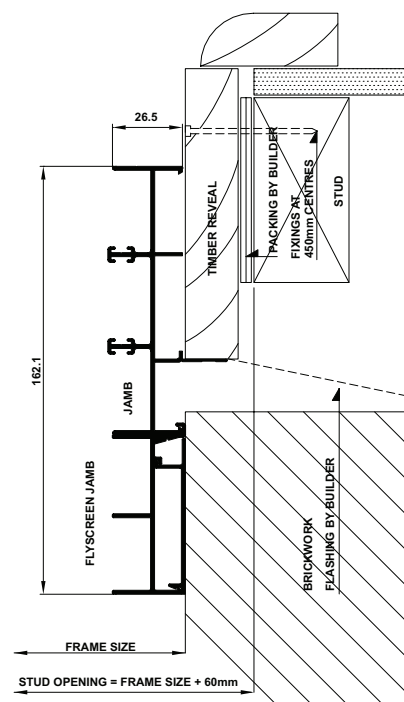
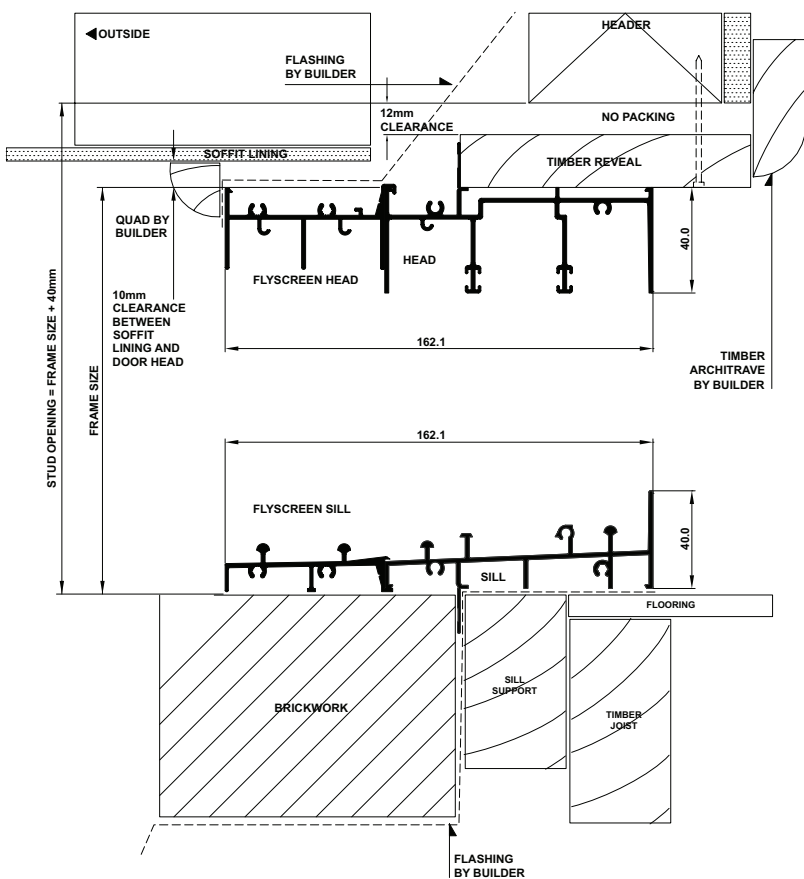
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of door, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



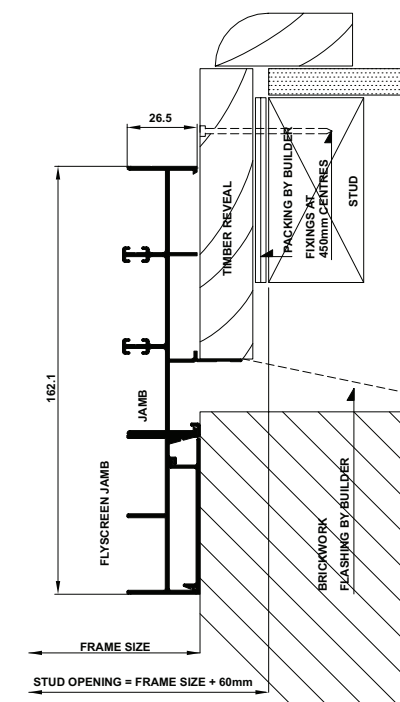
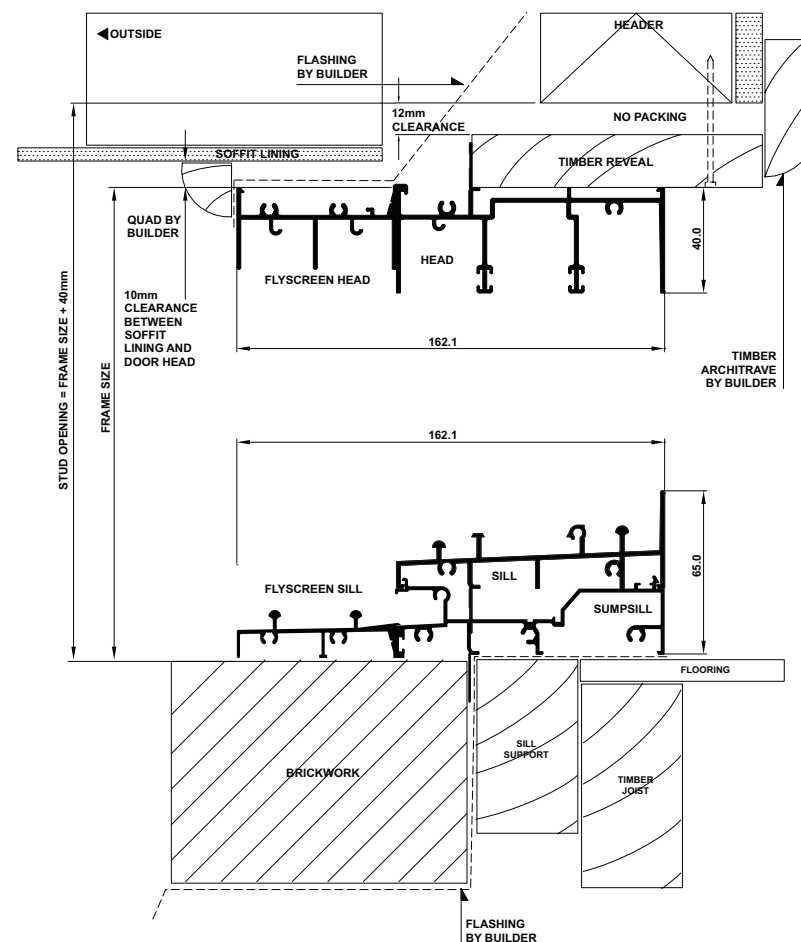
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

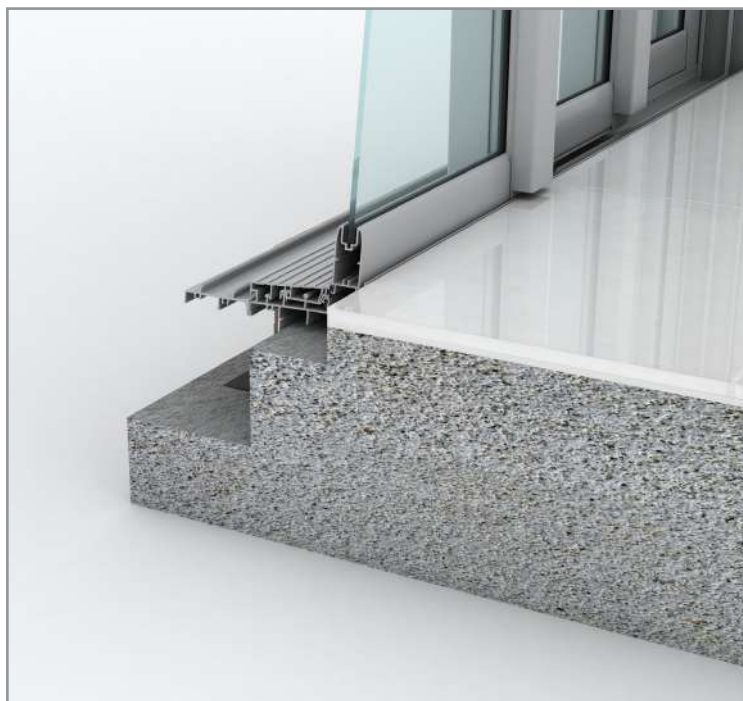
Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of door, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



Sliding Stacker Door - Installation

Building In Detail | Double Brick - 280mm wall



INSTALLING FRAME CORRECTLY

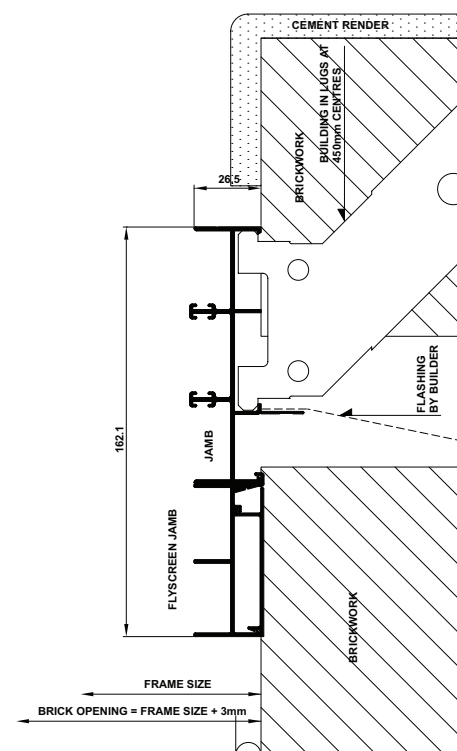
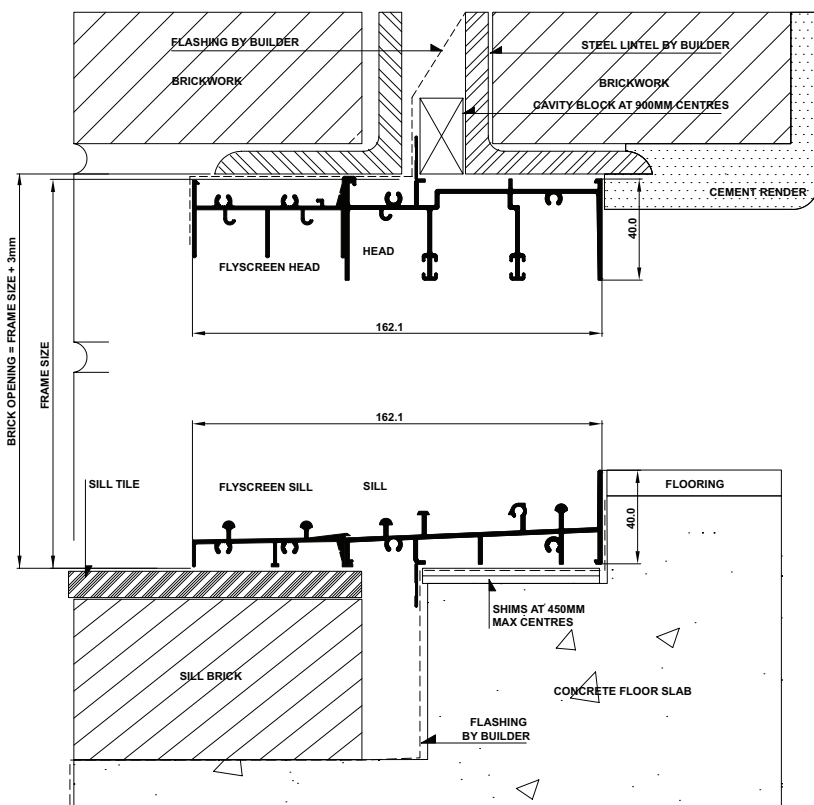
- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm

Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 450mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of door, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



INSTALLING FRAME CORRECTLY

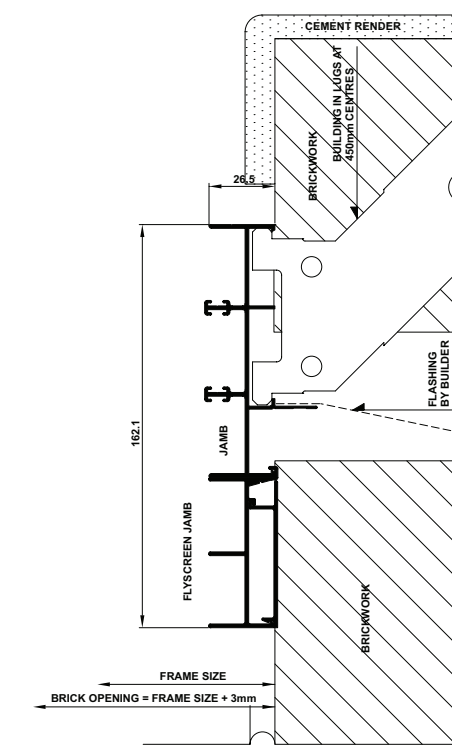
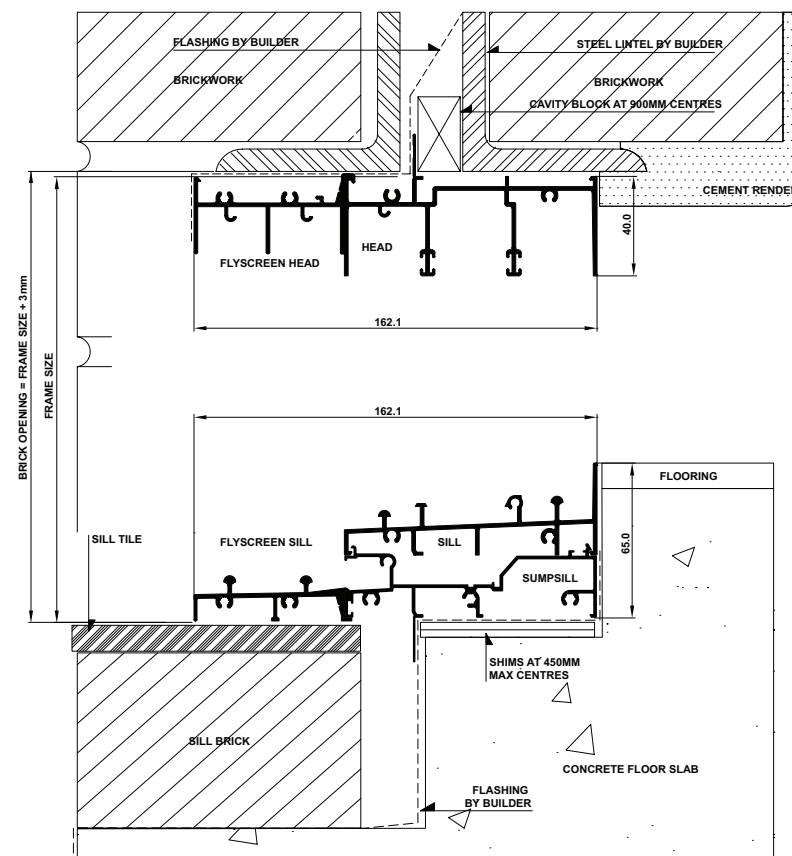
- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm

Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 450mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of door, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



Sliding Stacker Door - Installation

Building In Detail | Double Brick - 280mm wall | Prepared Opening



INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 450mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- Ensure outside finish does not block sill drainage holes.



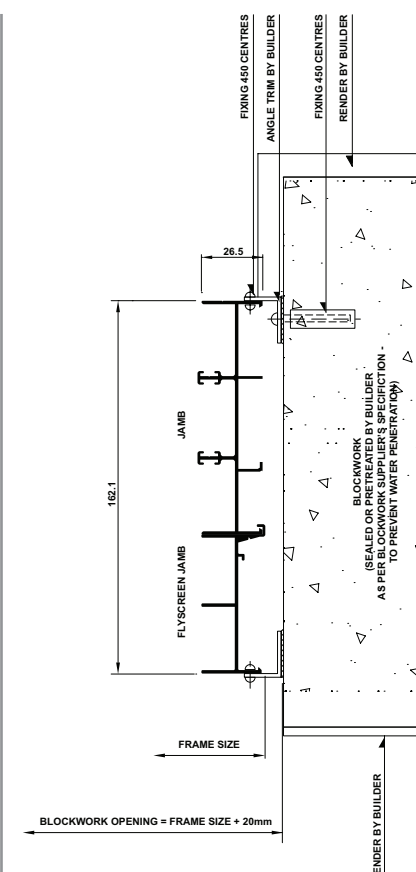
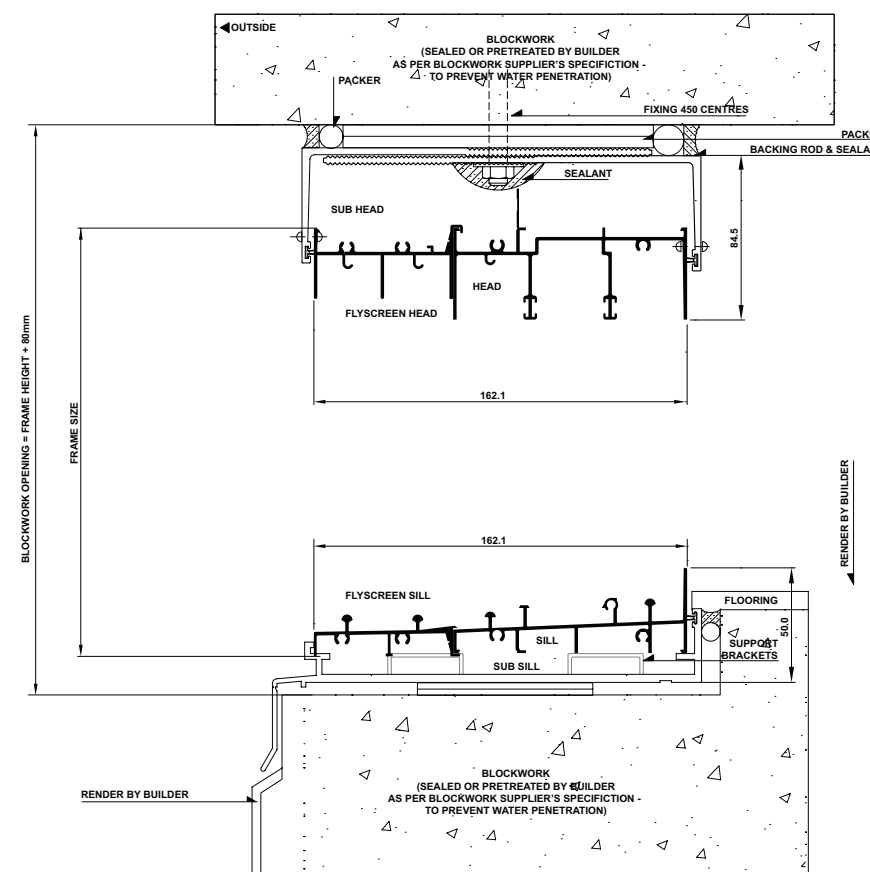
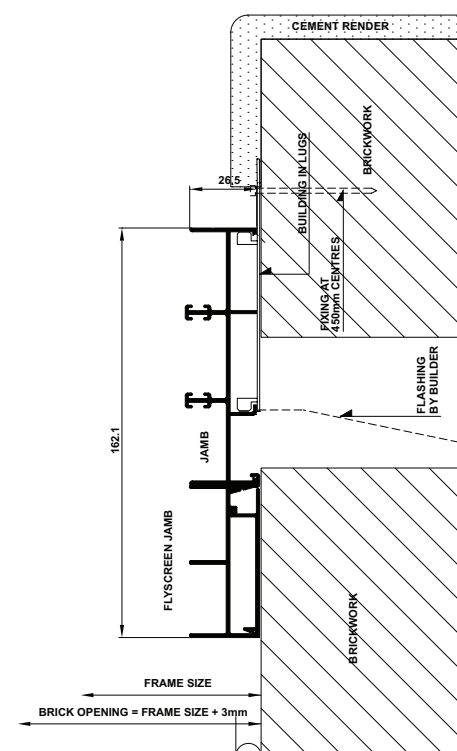
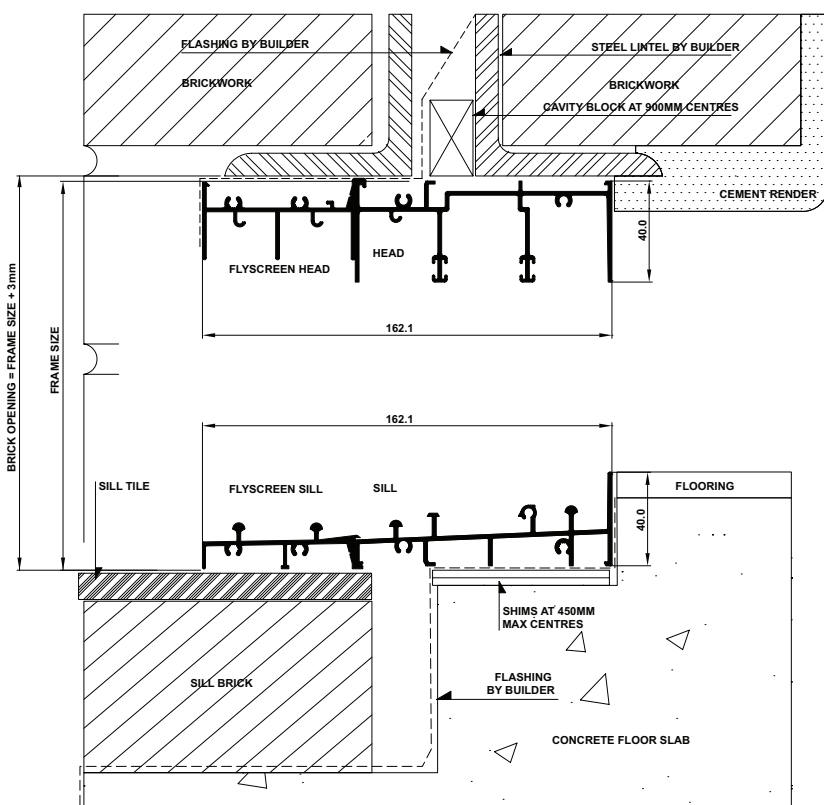
INSTALLING FRAME CORRECTLY

- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm
Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of window, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



Sliding Stacker Door - Installation

Building In Detail | Cladding on Studwall



INSTALLING FRAME CORRECTLY

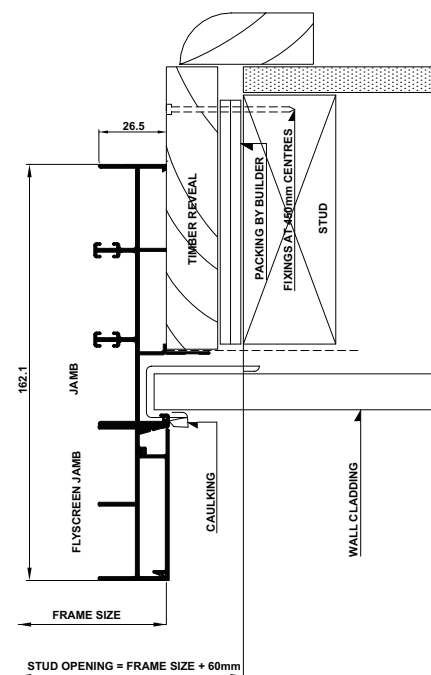
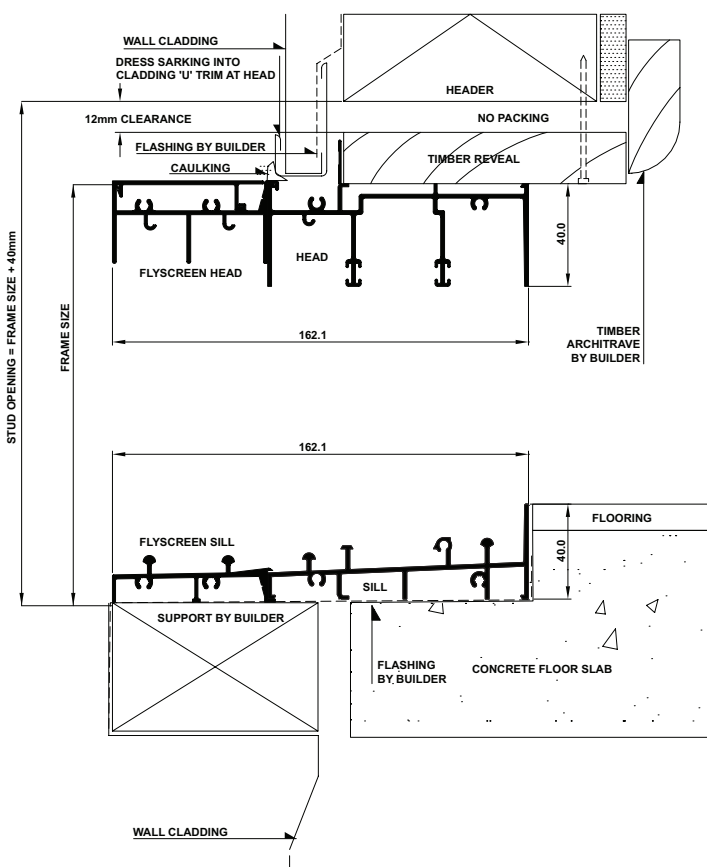
- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm

Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes



INSTALLING FRAME CORRECTLY

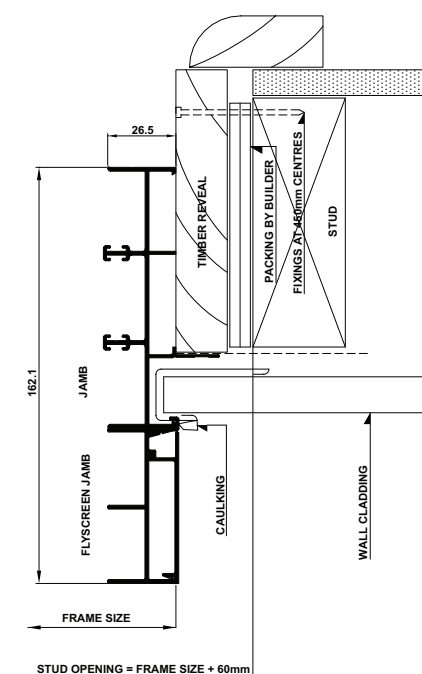
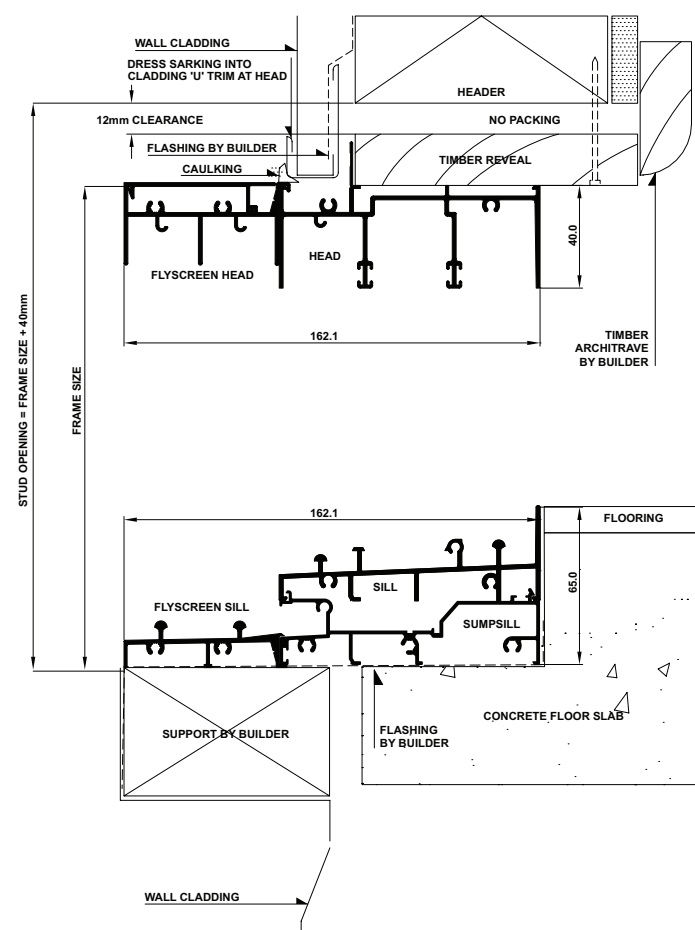
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- Ensure outside finish does not block sill drainage holes



Sliding Stacker Door - Installation

Building In Detail | Hebel Power Panel

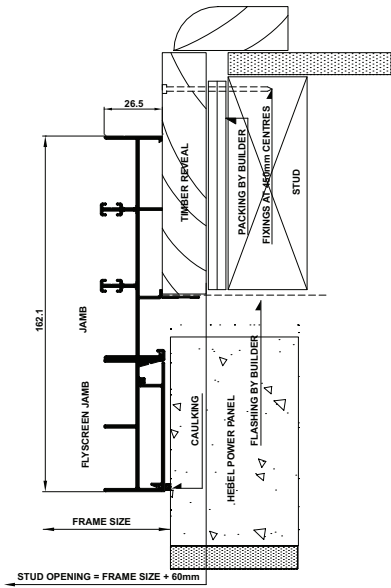
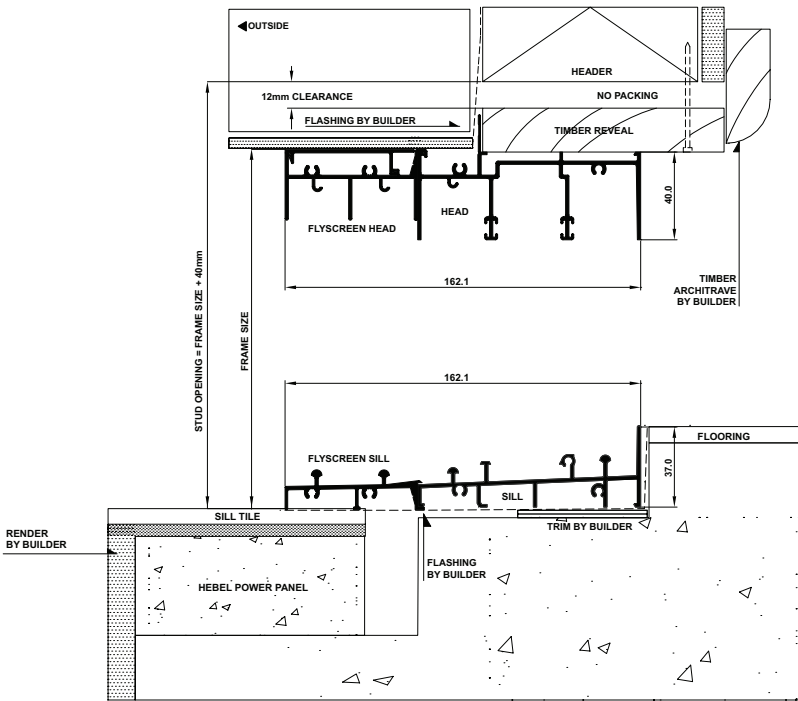


INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:
Height = Frame Size + 40mm
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- To ensure the satisfactory long term performance of doors, install sill support (refer to drawings below).
- Caulking between render and frame
- Ensure outside finish does not block sill drainage holes

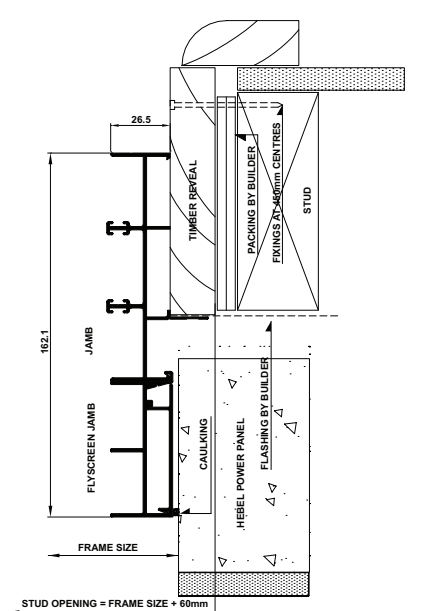
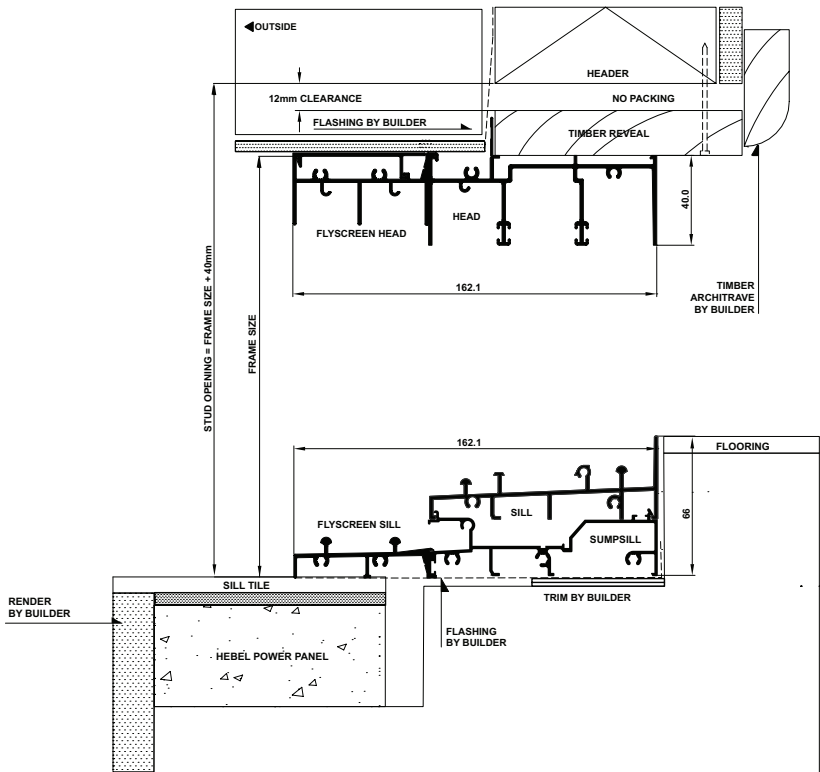


INSTALLING FRAME CORRECTLY

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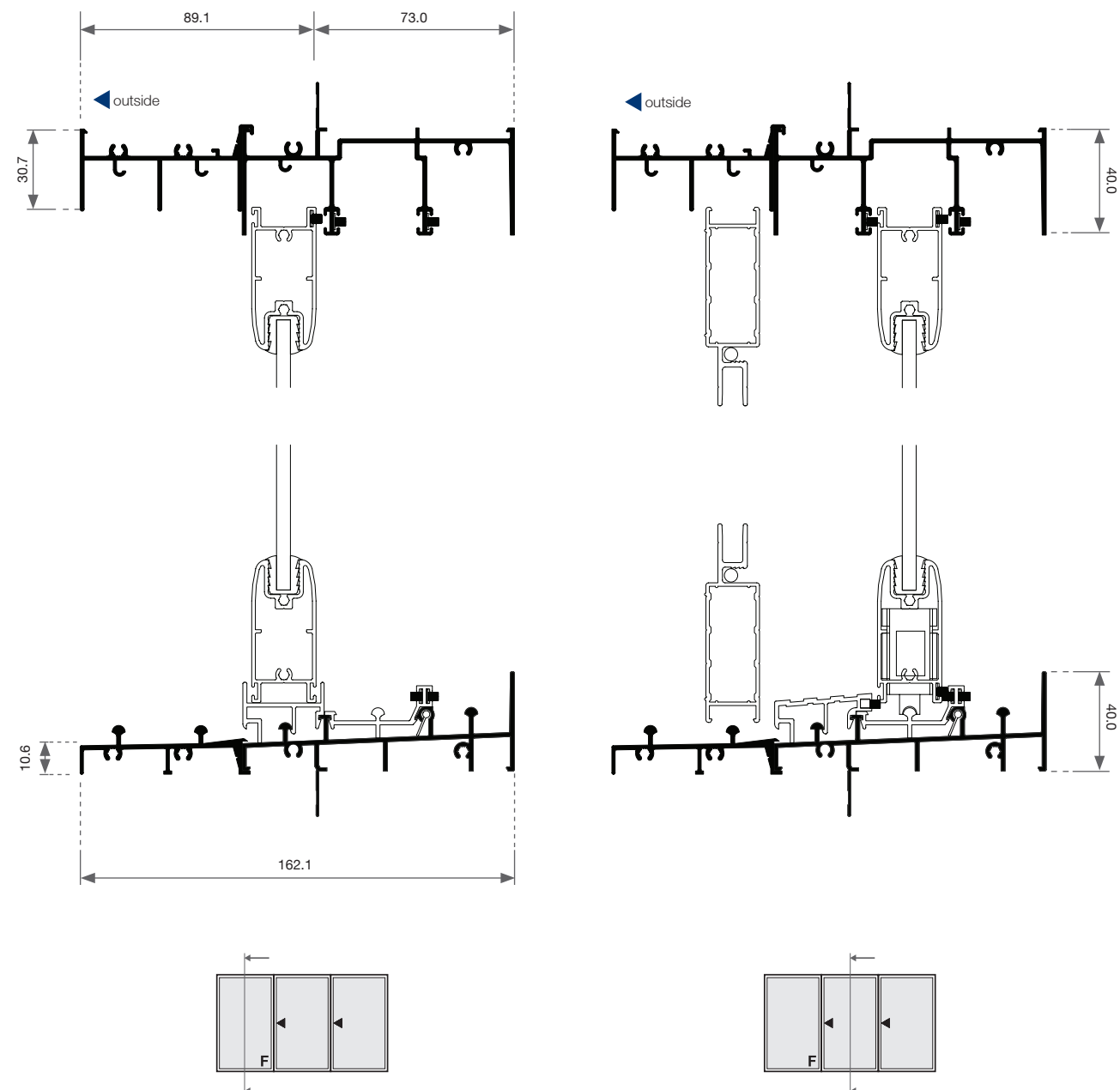




Quantum® Sliding Stacker Door Cross Sectional Views

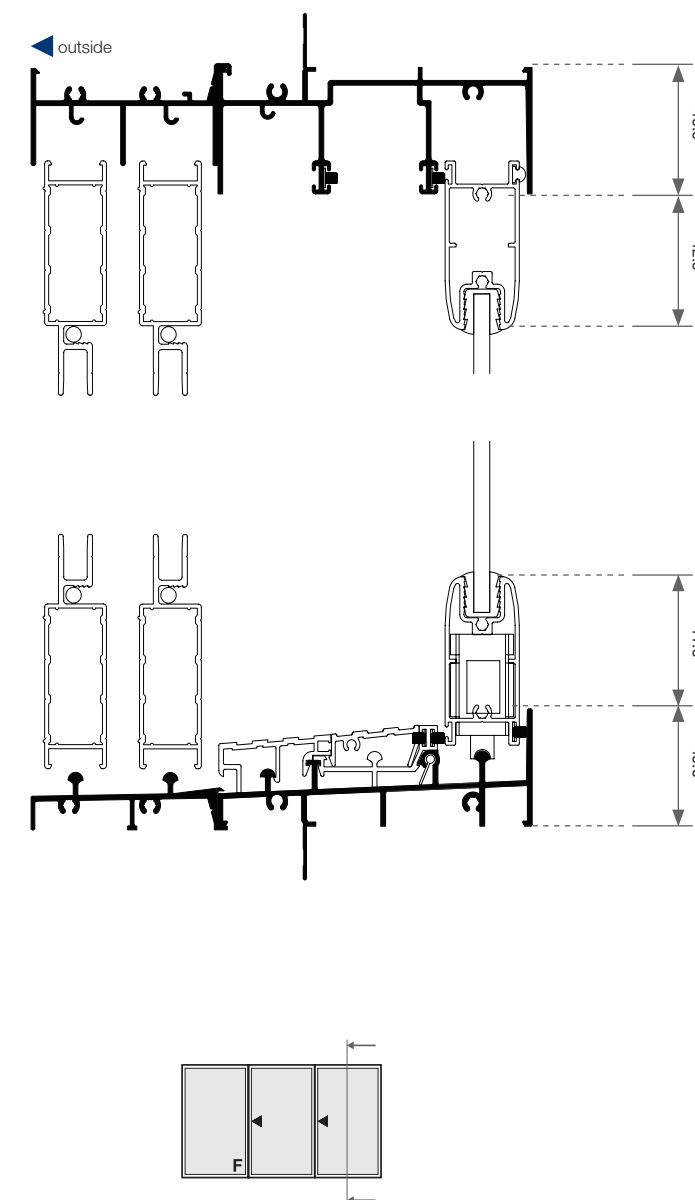
Sliding Stacker Door - Cross Sectional View

Three Panel | FXX



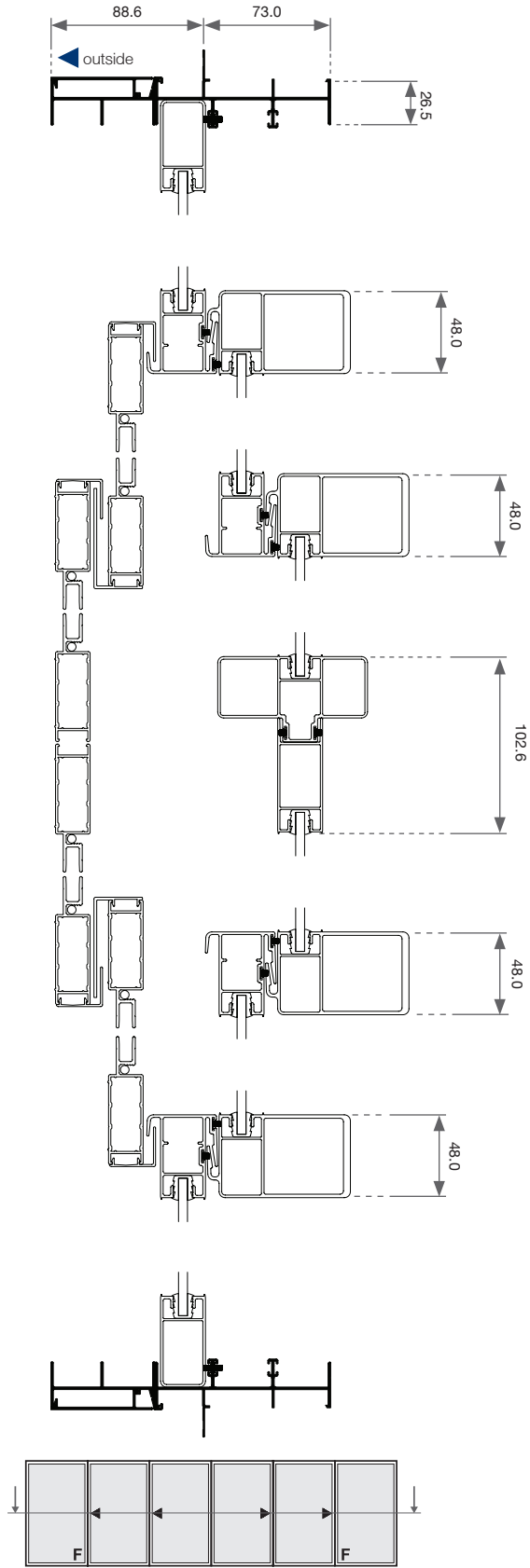
Sliding Stacker Door - Cross Sectional View

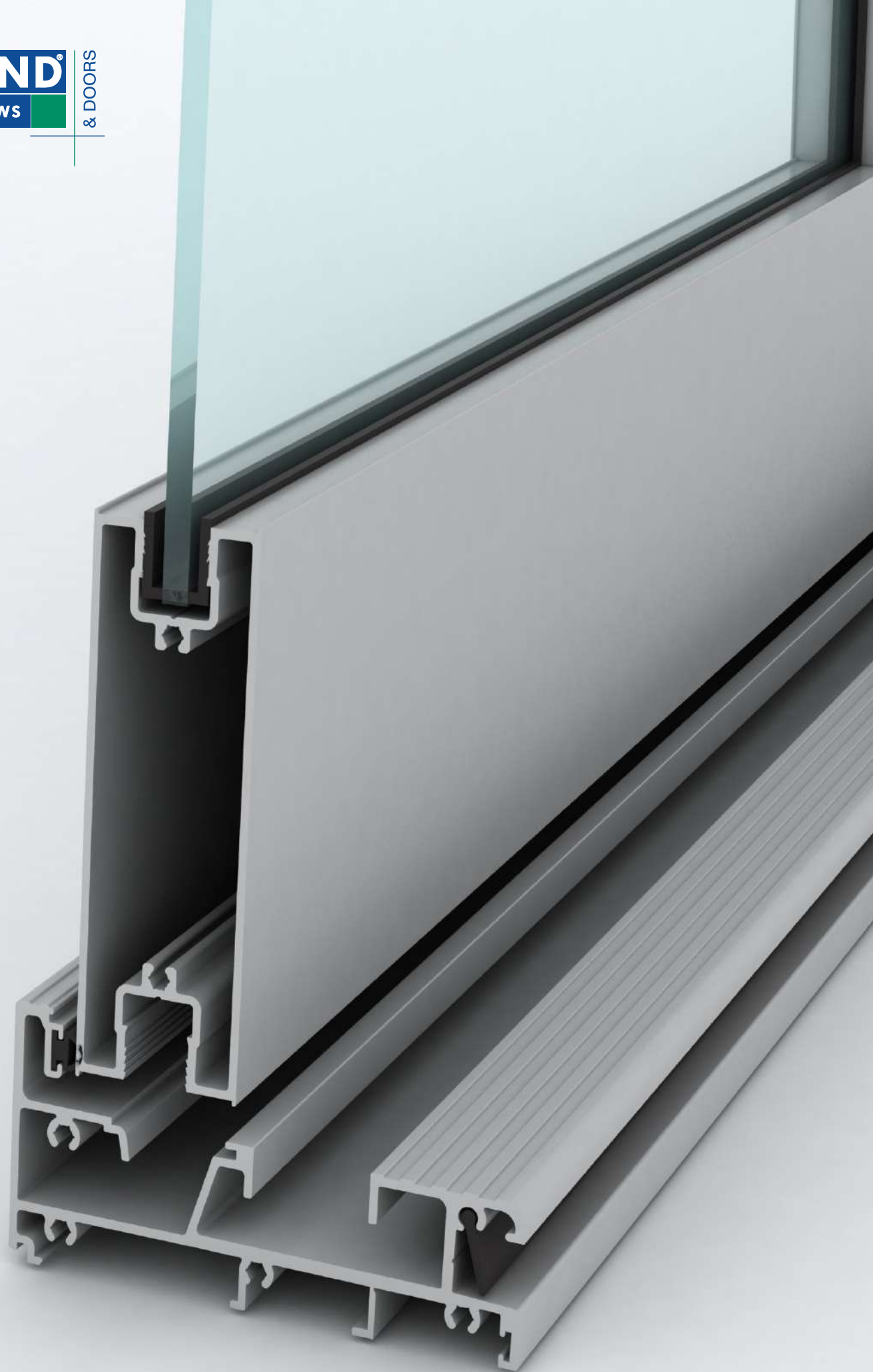
Three Panel | FXX



Sliding Stacker Door - Cross Sectional View

Six Panel | FXXXXF





Quantum® Bifold Door Features & Benefits



Bifold Door - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium door frame.

PANEL

- 62mm door sash stile
- Durable bifold panels.
- Individual panels can measure up to 2400mm high and 900mm wide. (Note: 2700mm high in Heavy Duty panel and 1000mm wide is available)
- Sash punched holes are fitted with infill caps.

*Panels configure to open out only.

SILL

- If no sill is required option is available for clear alfresco walkway.*

*No sill option does not meet water and wind requirements.

GLAZING & ENERGY EFFICIENCY

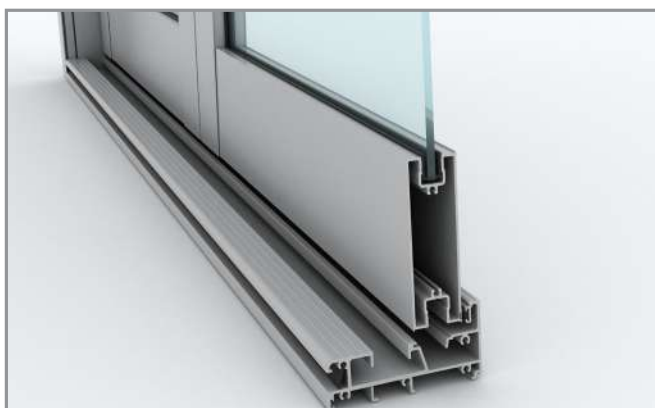
- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 18mm insulated glazed units (IGUs) .
- Available in a range of glazing option.
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction.
- High R_w ratings available .

WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Pascal deflection rates up to 2200Pa.
- Bifold door rated at an air infiltration of 0.67L/s m².



SECURITY

- **Infinity** night latch key lock hardware supplied as standard
- Mortice lock mechanism pulls the door panels in tight in the center, top and bottom locking the doors securely.

BUSHFIRE

- Xtreme® Bushfire Protection option is available**.
- Xtreme® options have been tested by CSIRO to meet BAL-40 - compliant to AS1530.8.1 within Australian Standards AS3959-2009.



**Max door width for bushfire zones is 2400mm

HARDWARE

- **Infinity** Satin Chrome hardware supplied as standard.
- **Infinity** bifold lock include night latch feature - locking doors when handle is in verticle position.
- Optional colours are available:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Door locks can be keyed alike to other Quantum® door products for ease of use.
- Hinges made out of durable stainless steel - optional black color is also available.

OPTIONS

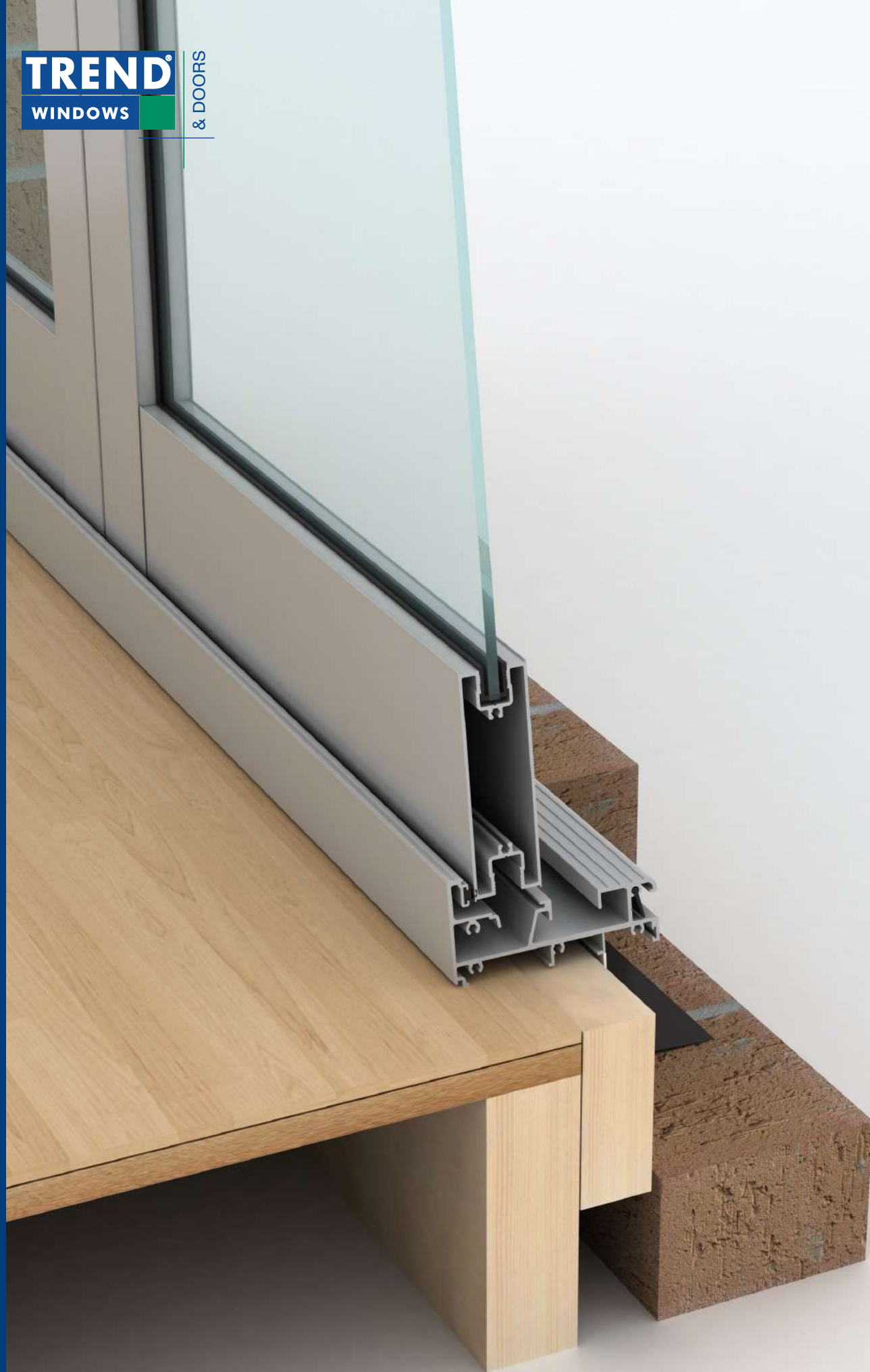
- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powder coating colours.
- Customised WERS ratings.
- Variety of sizes and custom made options available.
- Variety of configuration options available.

* Ovolo only available in single glazing.

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.





Quantum® Bifold Door Installation

Bifold Door - Installation

Building In Detail | Brick Veneer - 240mm wall | Rebated



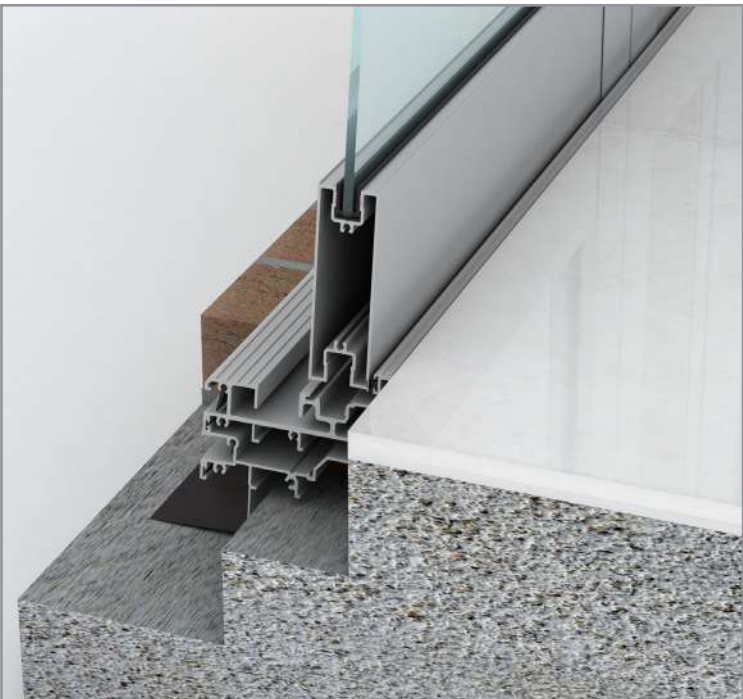
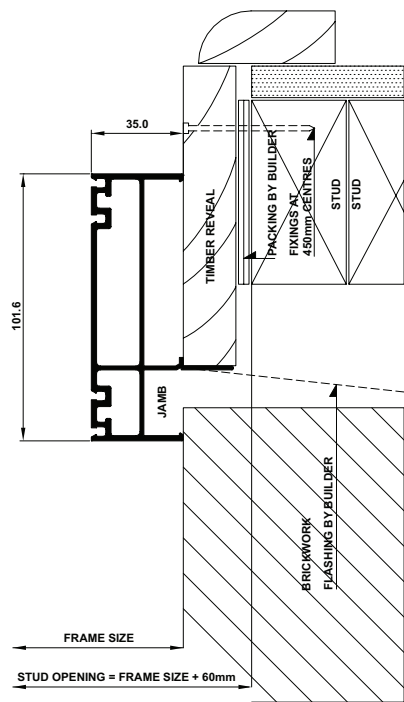
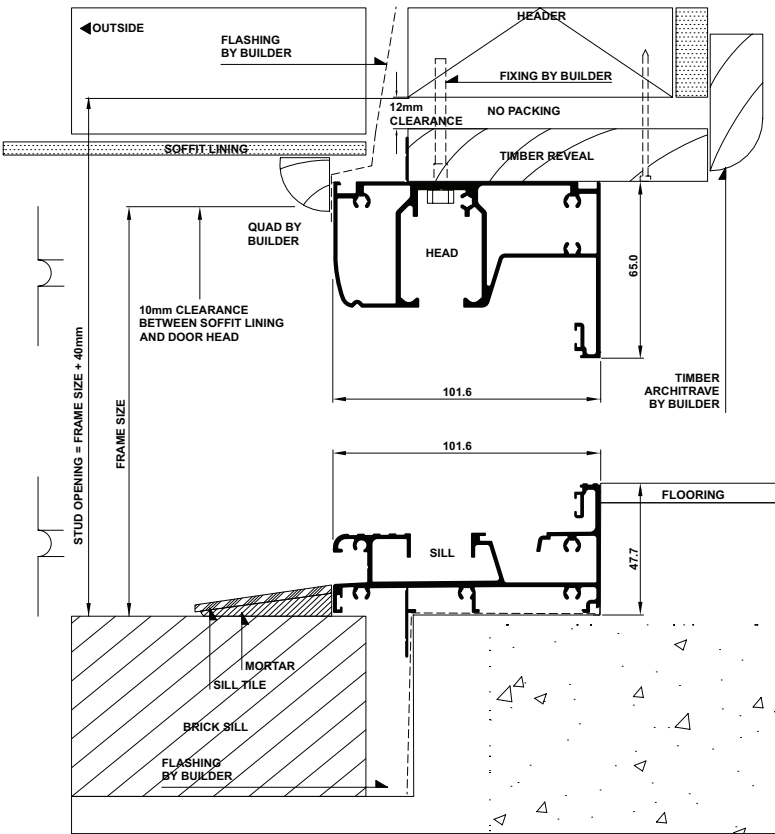
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



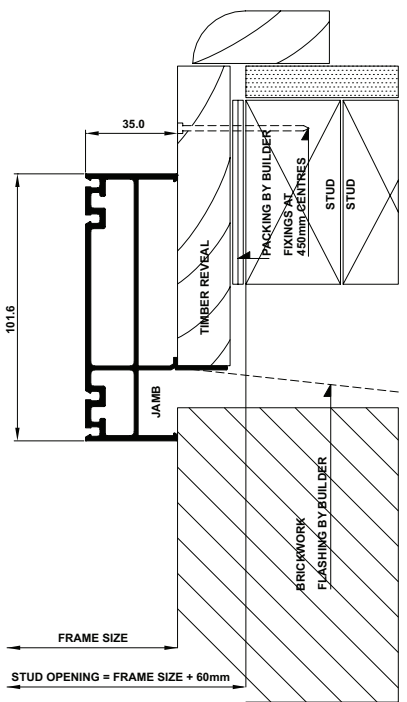
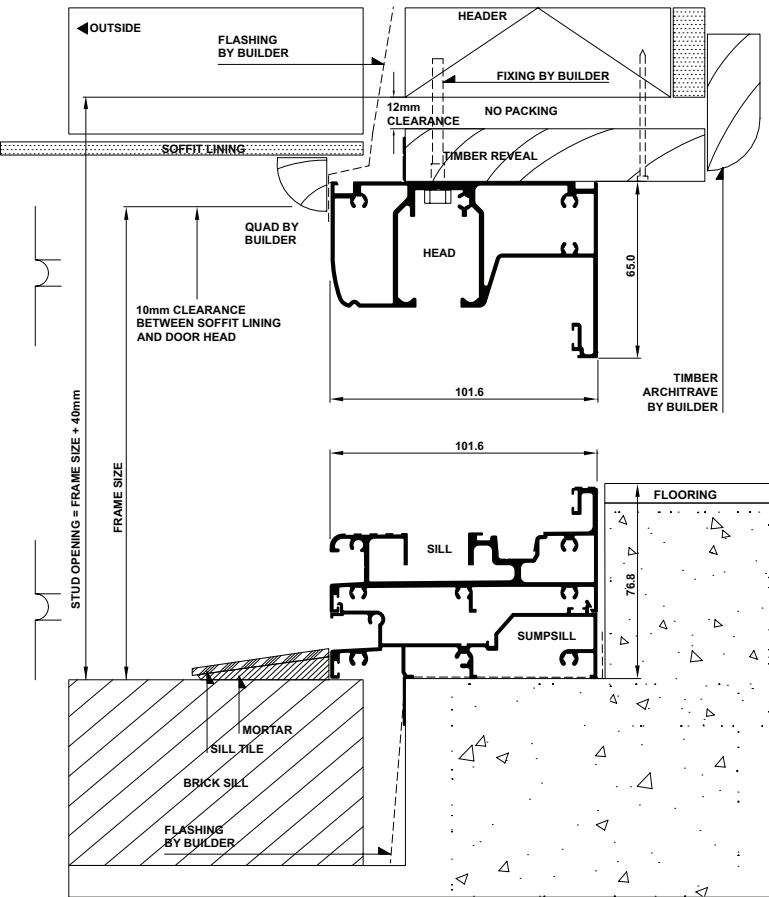
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



Bifold Door - Installation

Building In Detail | Brick Veneer - 240mm wall | Joists



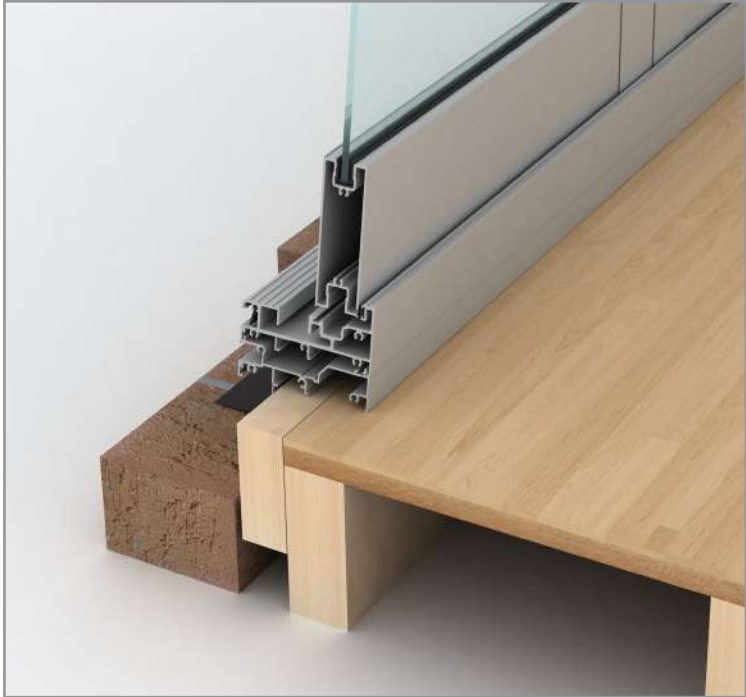
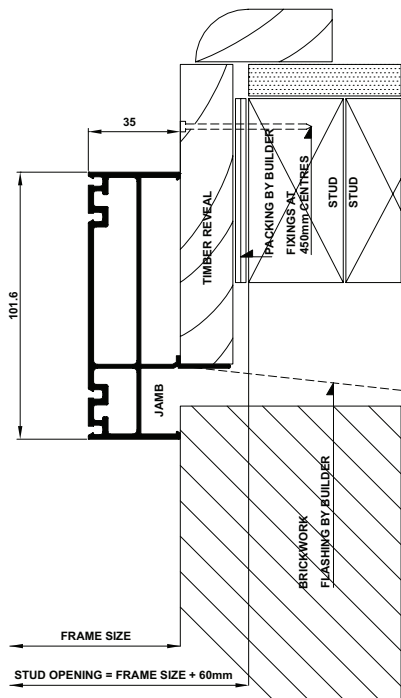
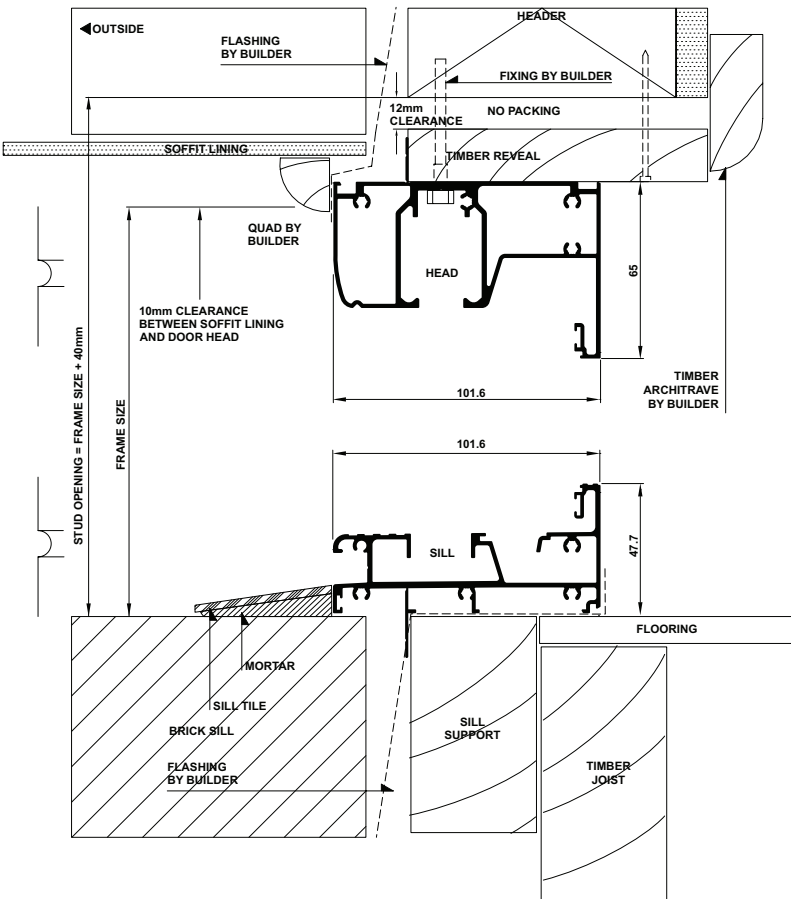
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of door, install sill support (refer to drawings below).
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



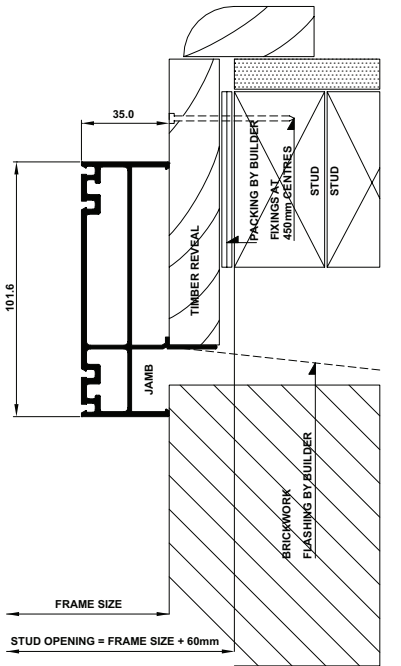
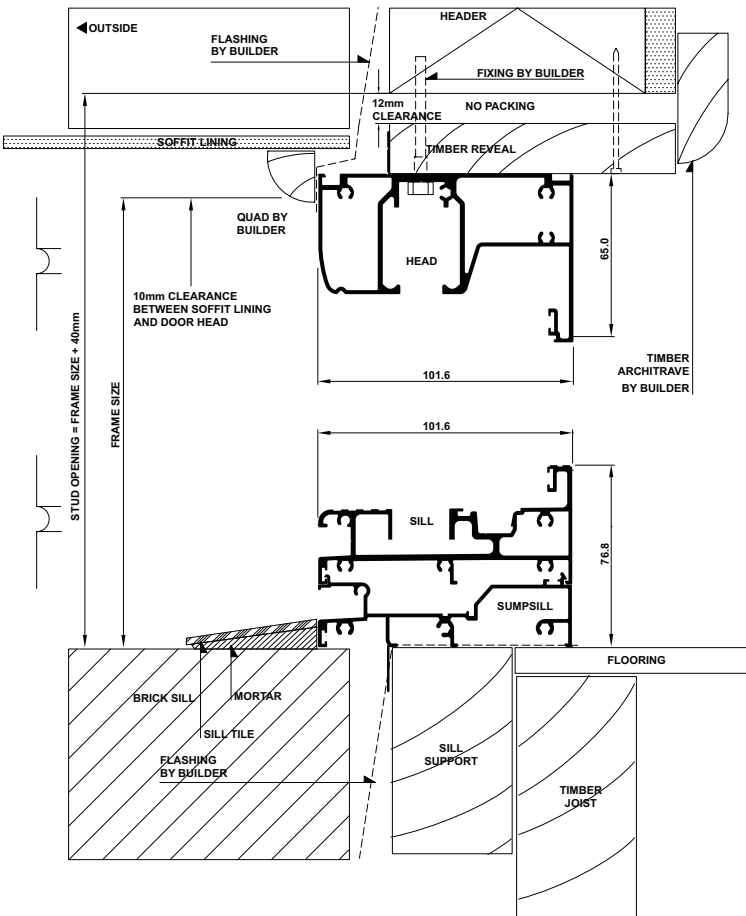
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

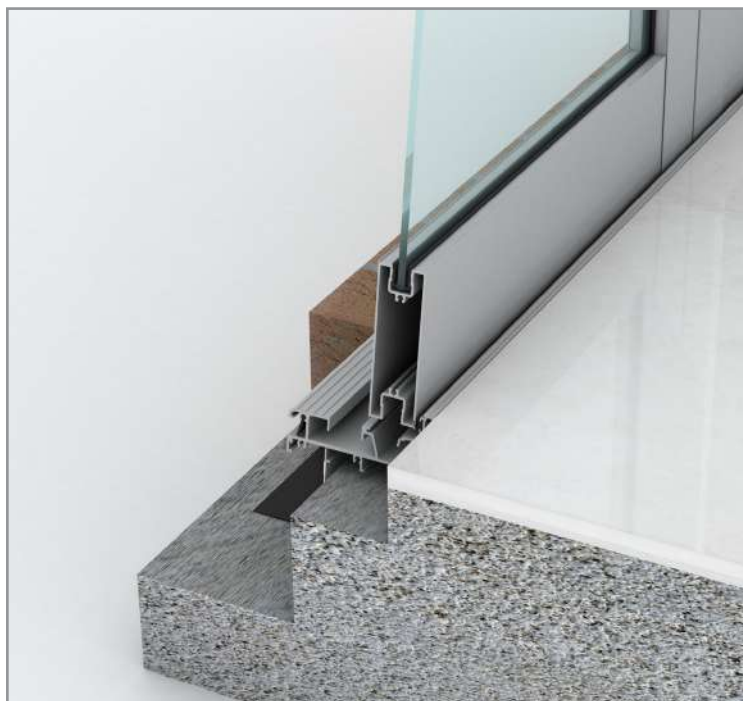
- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of door, install sill support (refer to drawings below).
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.





Bifold Door - Installation

Building In Detail | Double Brick - 280mm wall



INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



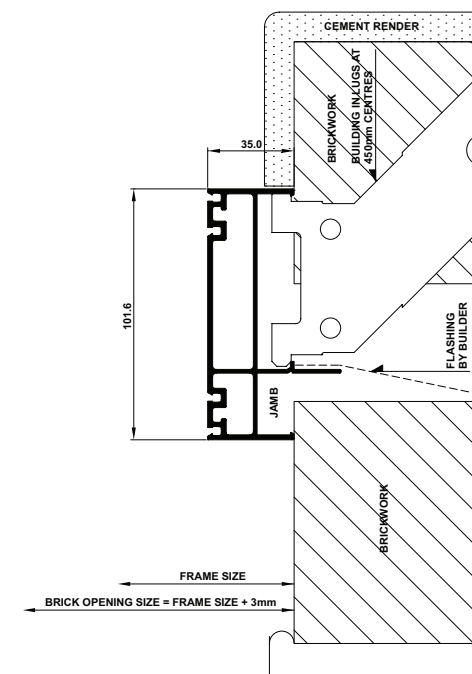
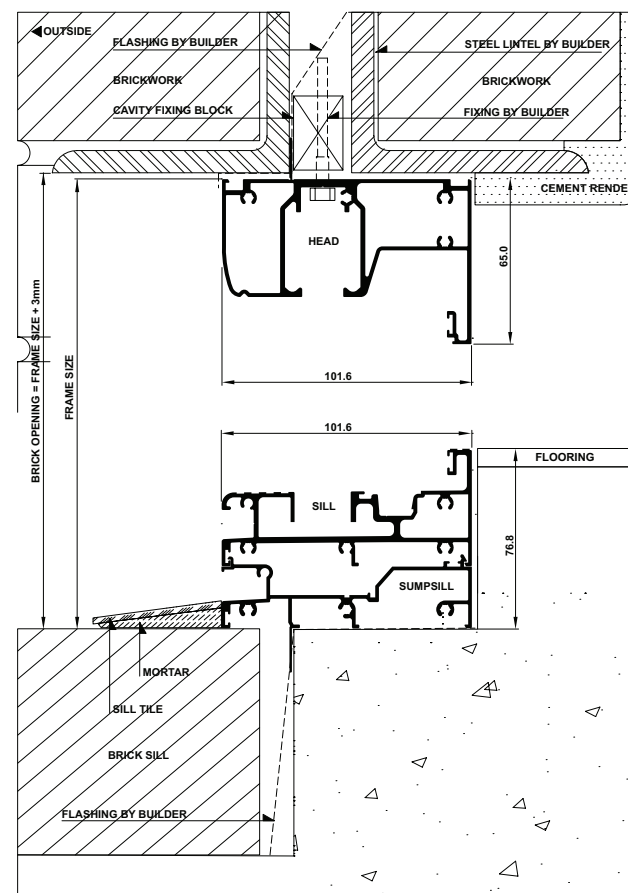
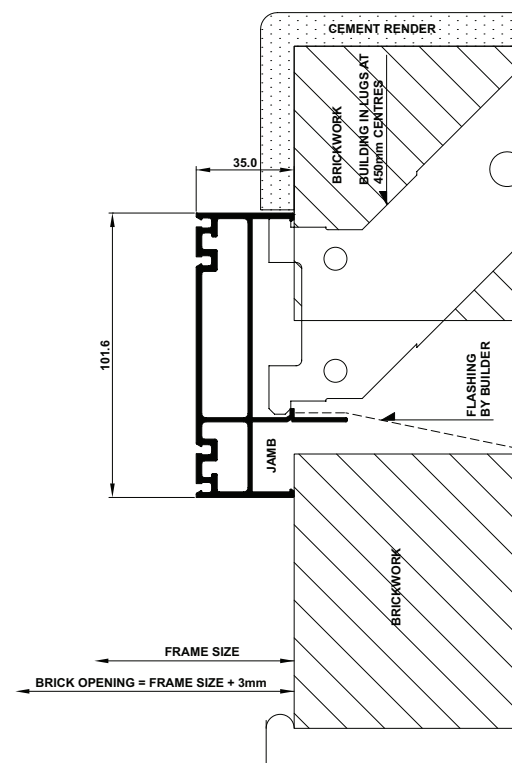
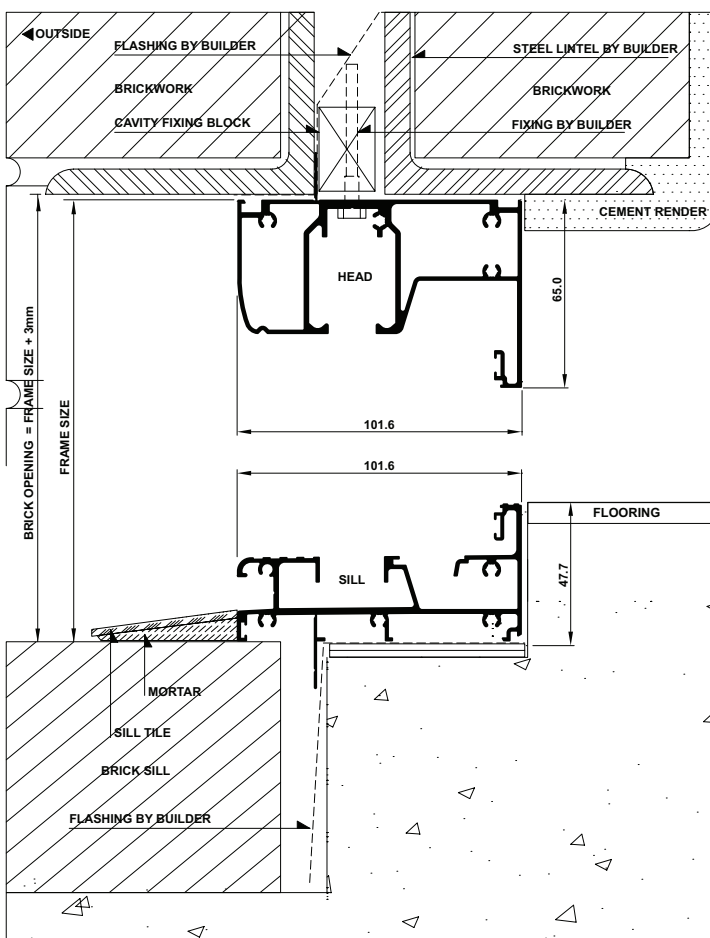
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

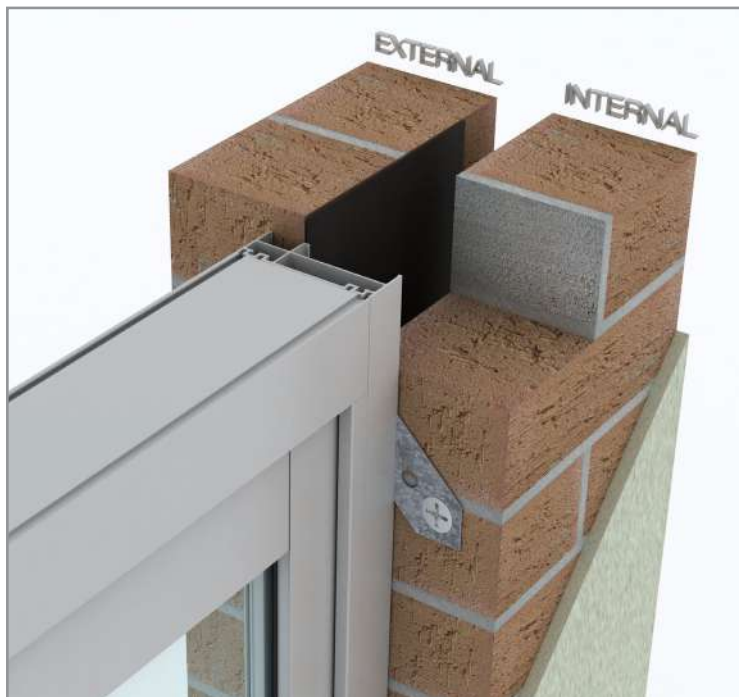
Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



Bifold Door - Installation

Building In Detail | Double Brick - 280mm wall | Prepared Opening



INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 450mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



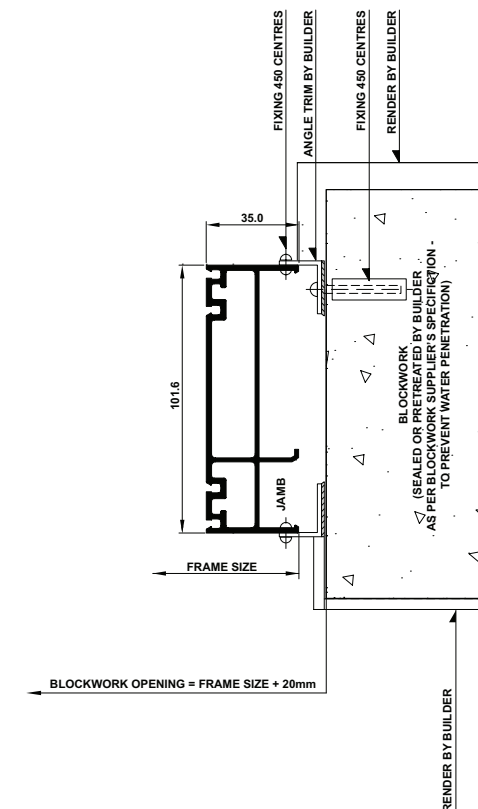
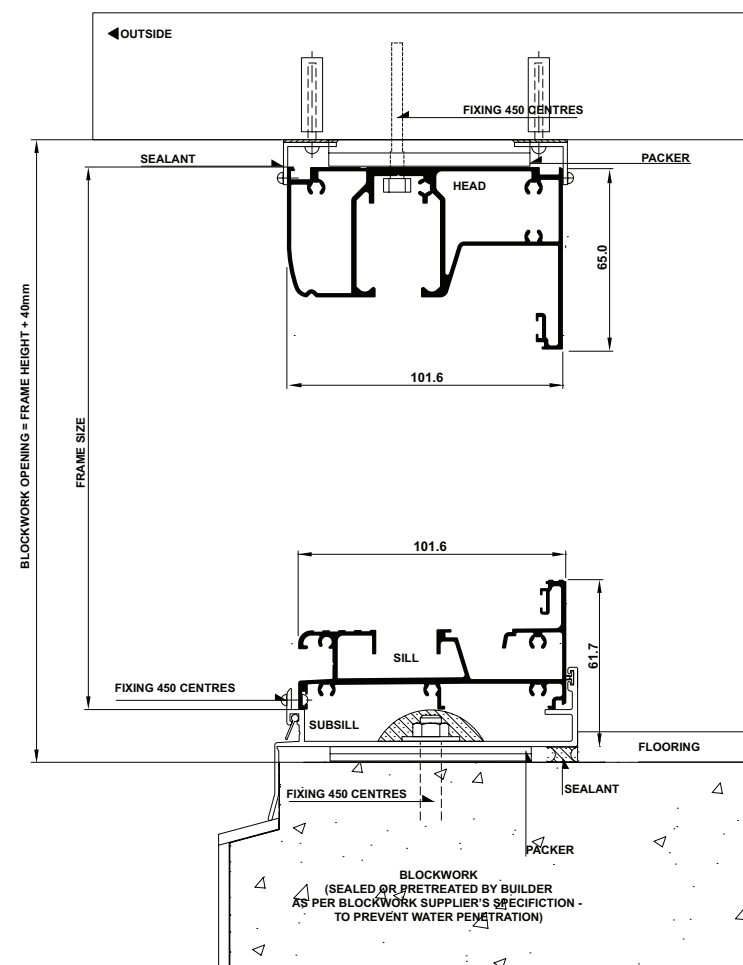
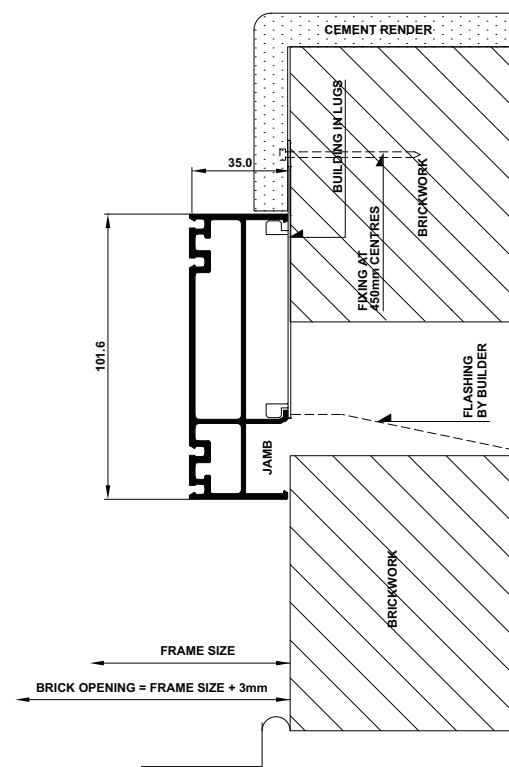
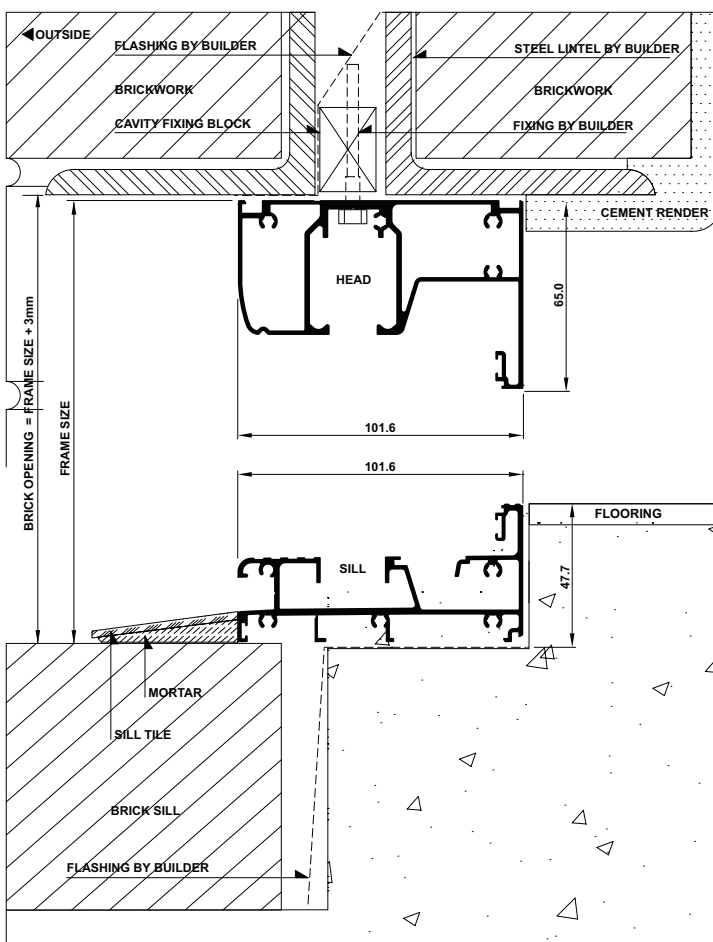
INSTALLING FRAME CORRECTLY

- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Height + 40mm
Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



Please note that drawings displayed are not to scale

Please note that drawings displayed are not to scale

Bifold Door - Installation

Building In Detail | Cladding on Studwall



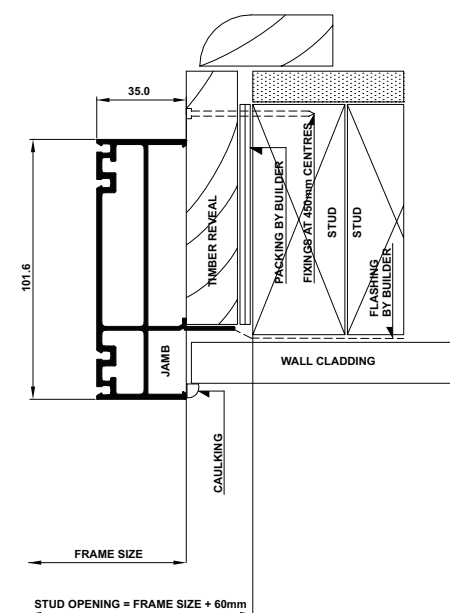
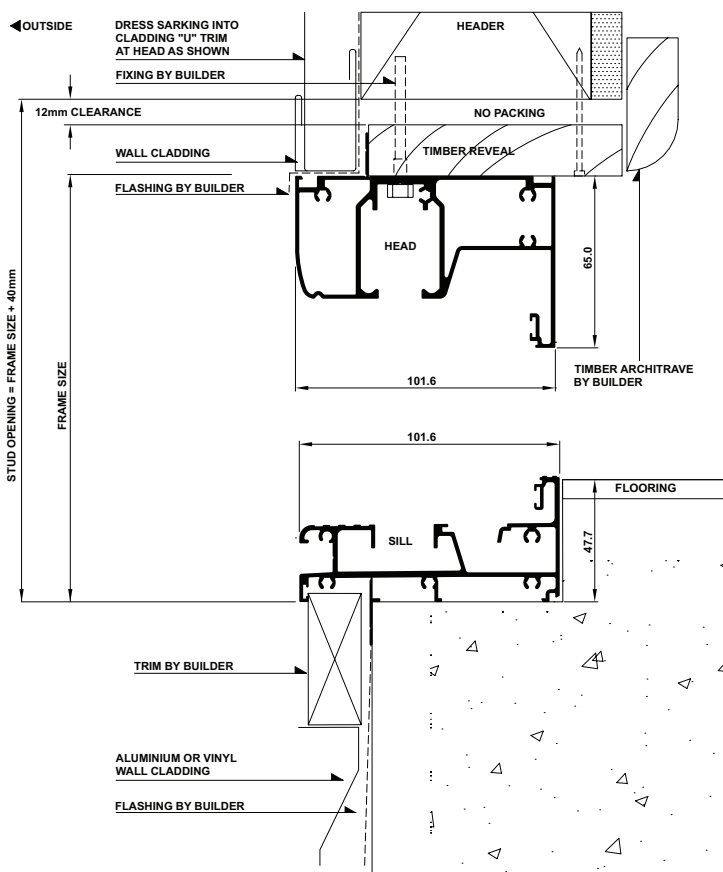
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, install sill support (refer to drawings below).
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



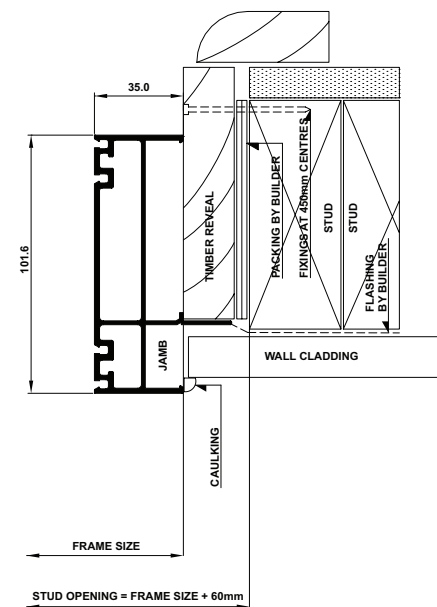
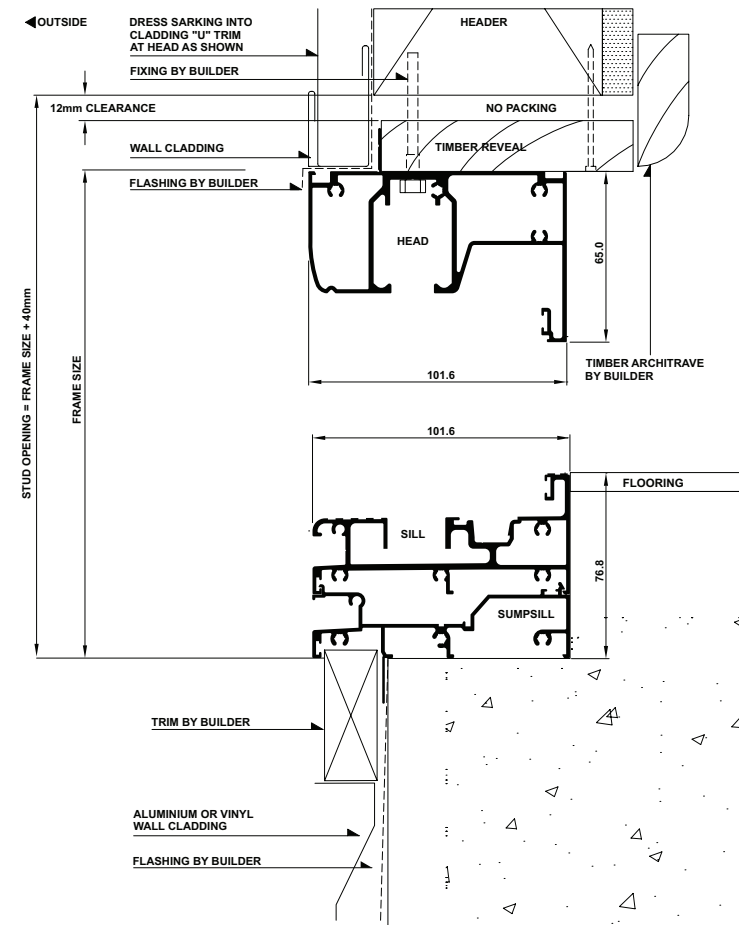
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors install sill support (refer to drawings below).
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



Bifold Door - Installation

Building In Detail | Cladding on Studwall | Sump Sill



Bifold Door - Installation

Building In Detail | Hebel Power Panel



INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Caulking between render and frame
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.



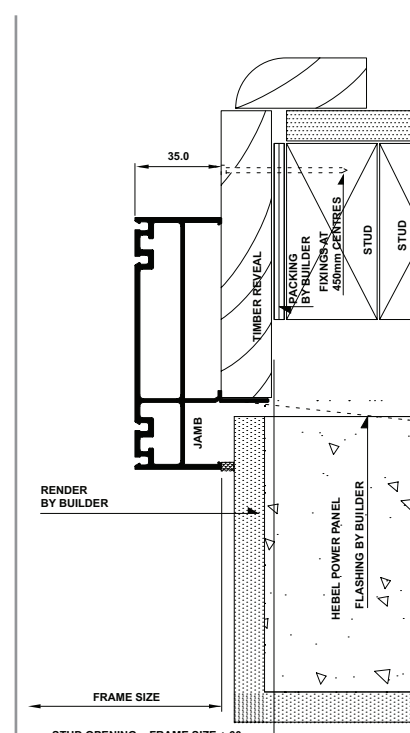
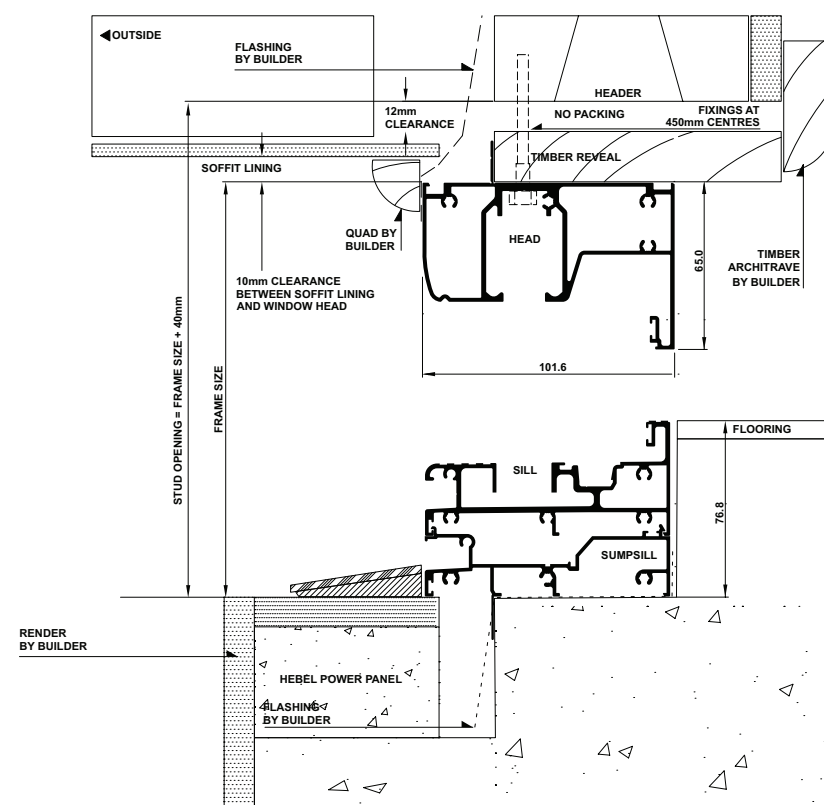
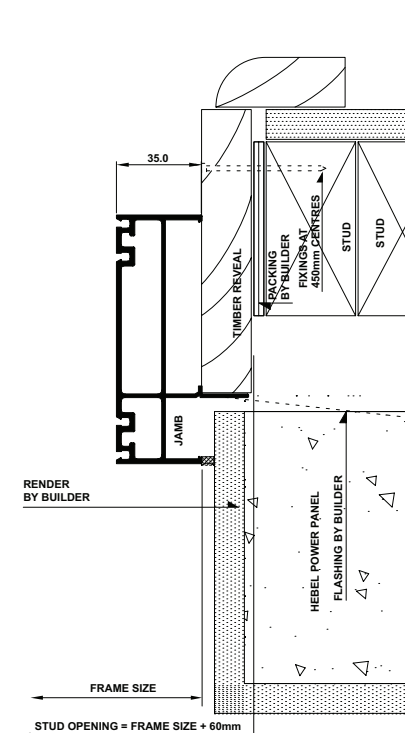
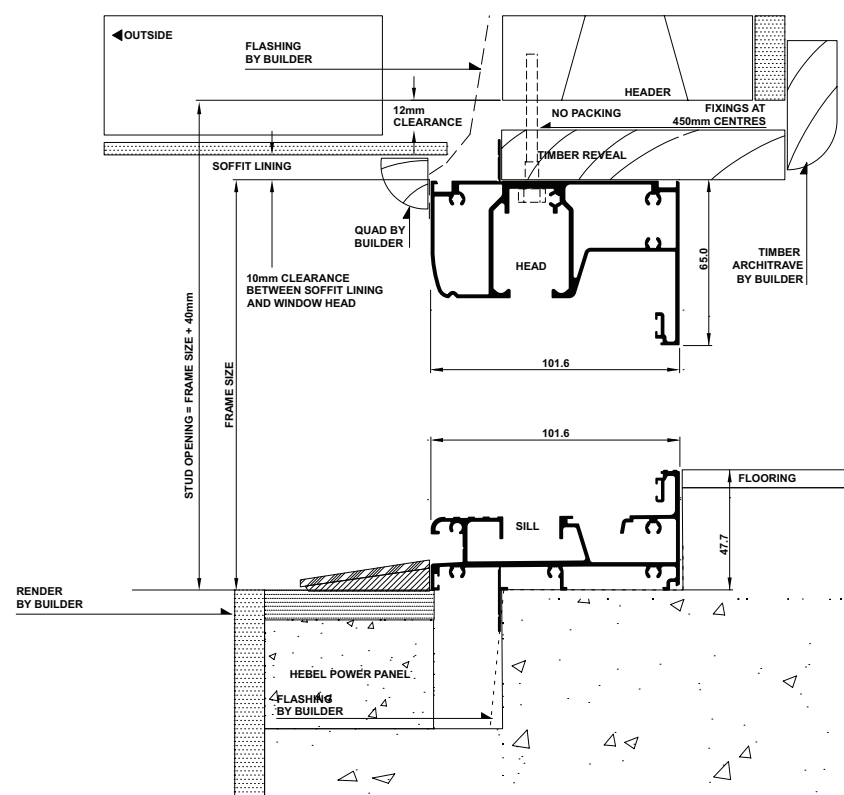
INSTALLING FRAME CORRECTLY

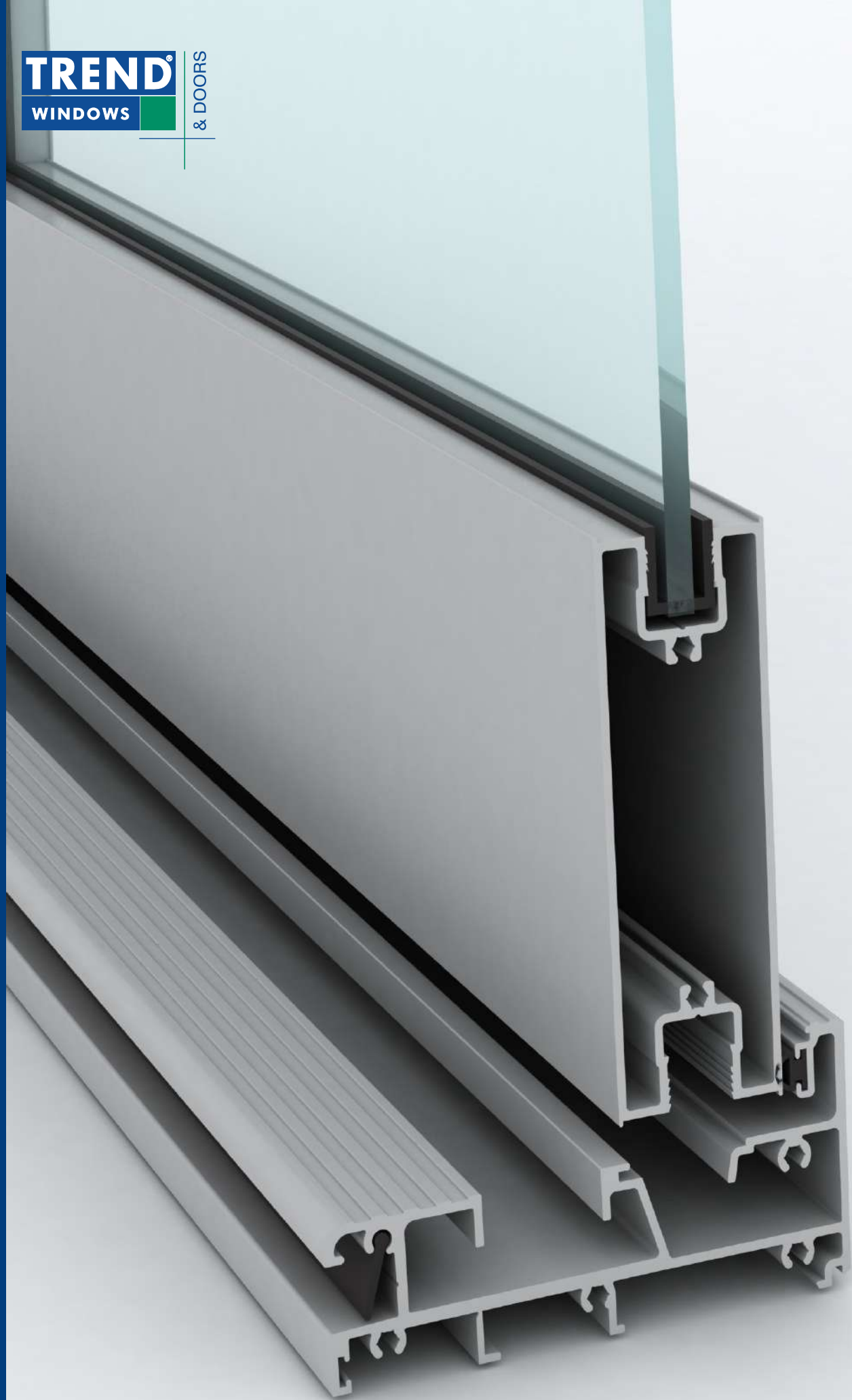
- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Caulking between render and frame
- **Build-in 3mm camber to head.**
- **Bifolds top-hung - beam must support weight.**
- Ensure outside finish does not block sill drainage holes.

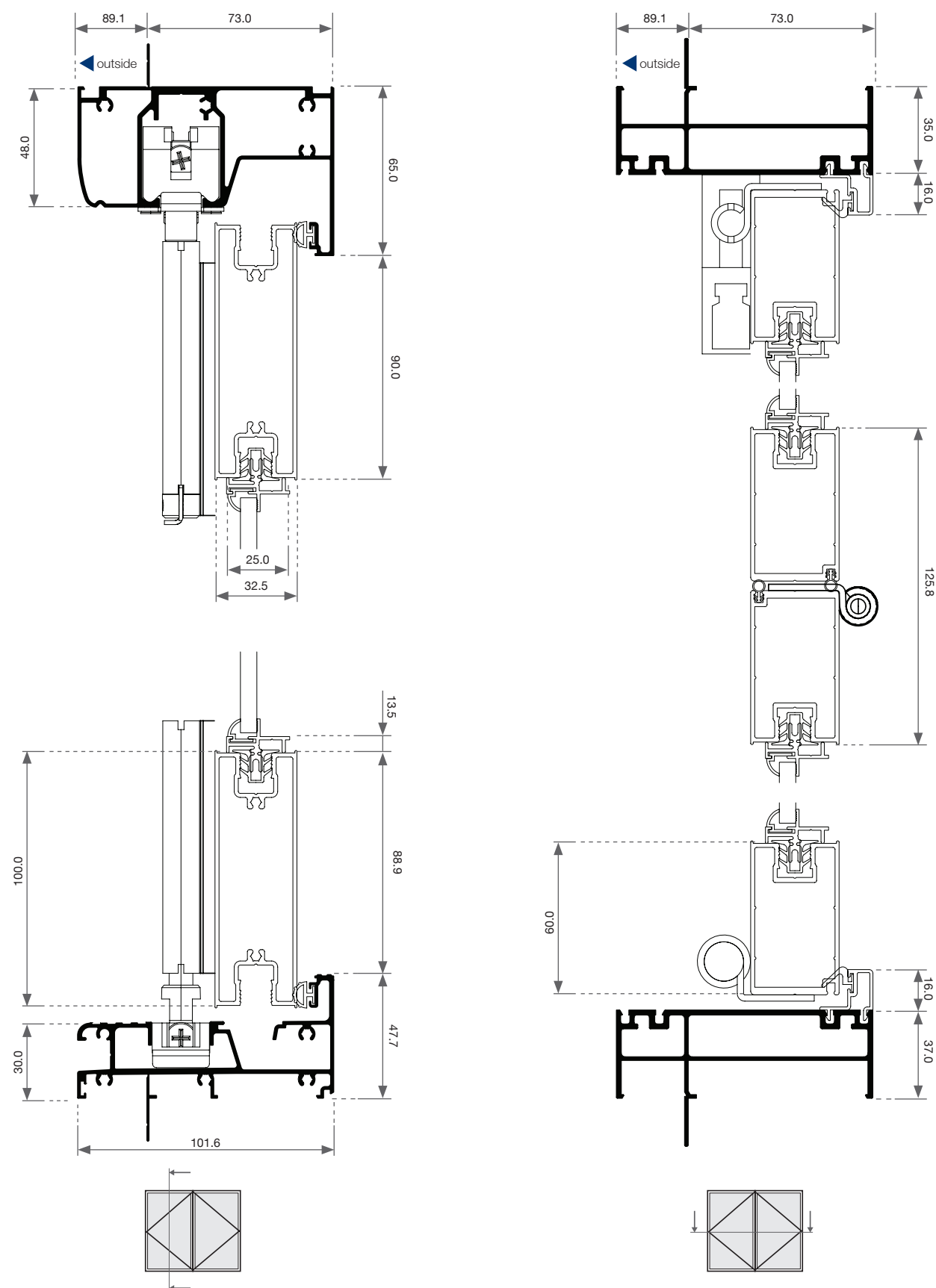




Quantum® Bifold Door Cross Sectional Views

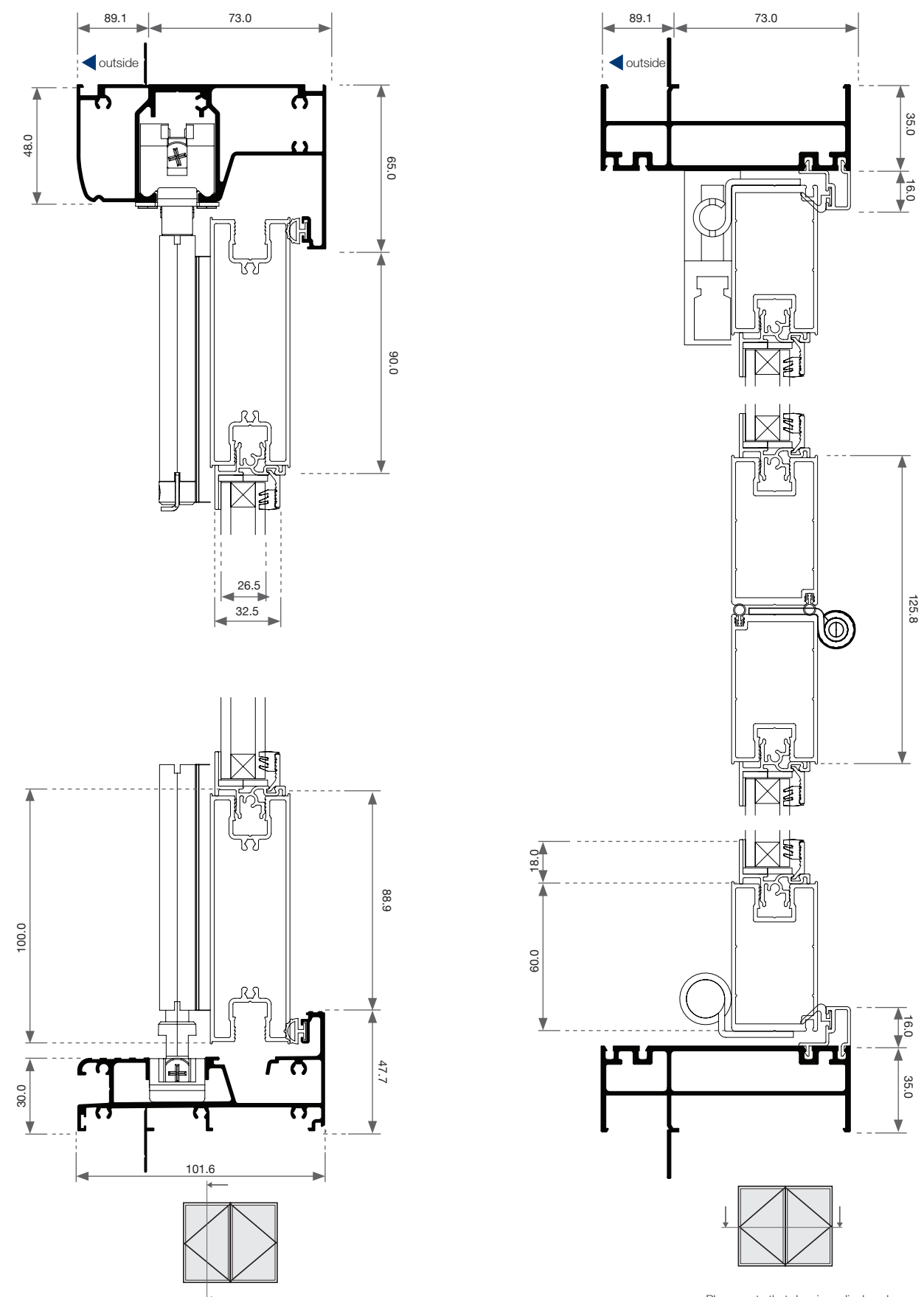
Bifold Door - Cross Sectional Views

Two Panel



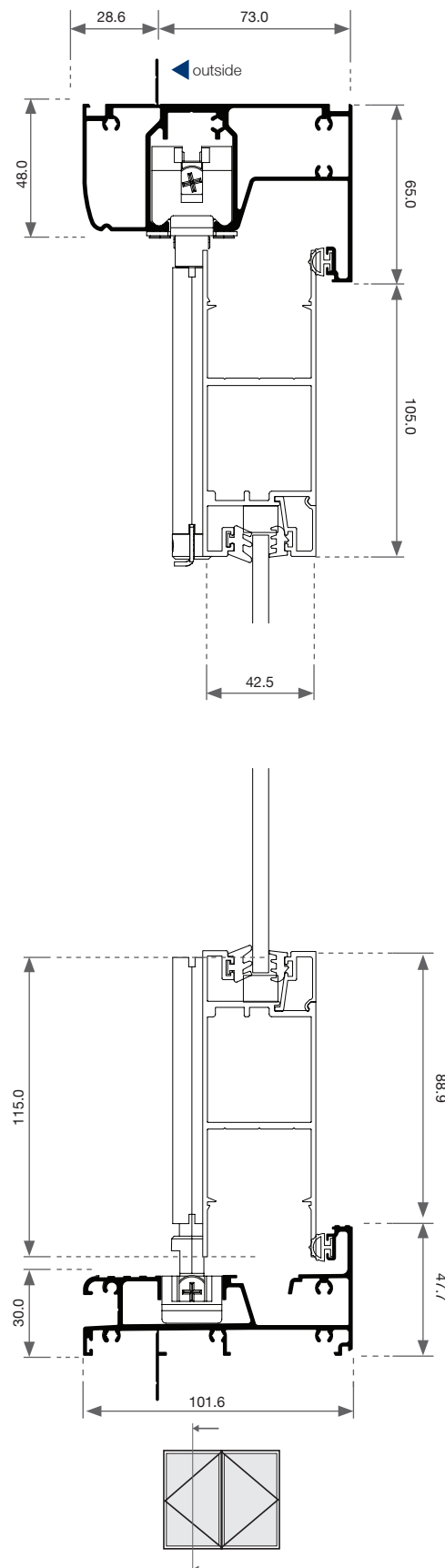
Bifold Door - Cross Sectional Views

Two Panel | Thermashield



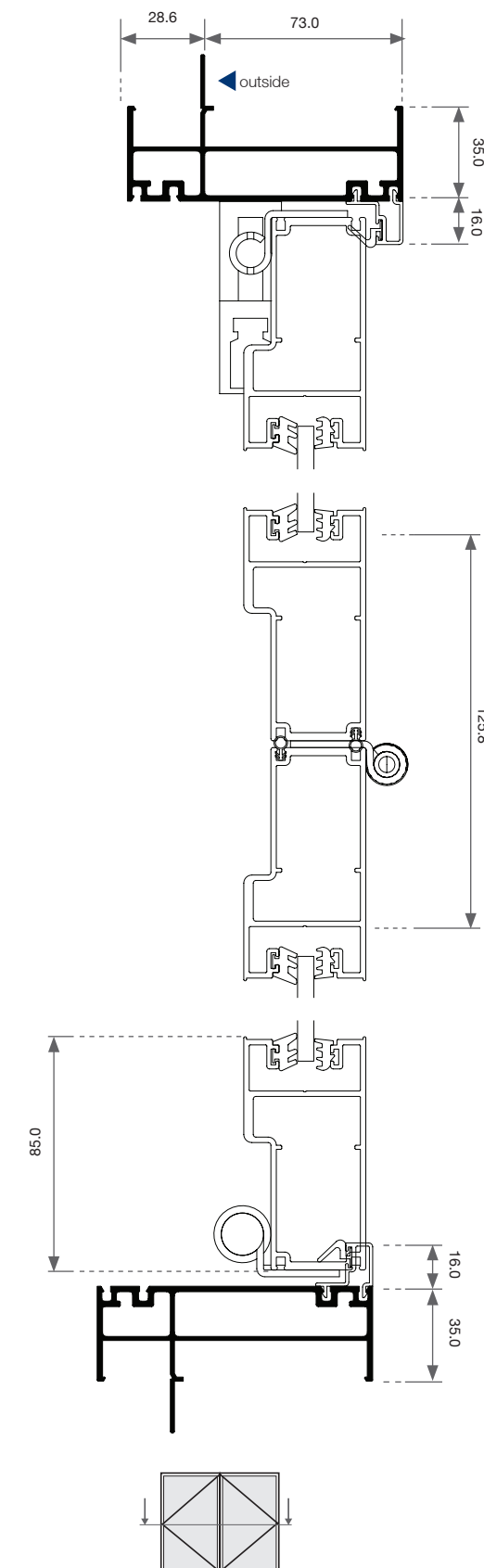
Bifold Door - Cross Sectional Views

Two Panel | Heavy Duty | Elevation



Bifold Door - Cross Sectional Views

Two Panel | Heavy Duty | Plan



Quantum® Hinge Door Features & Benefits

Hinge Door - Features & Benefits

FRAME

- Robust 102mm semi commercial aluminium door frame.

PANEL

- Durable hinged panels.
- Individual panels can measure up to 2400mm high (2700mm high in heavy duty panels) and up to 920 wide (1000mm wide in heavy duty panels).
- Single or paired french doors available.
- Sash punched holes are fitted with infill caps.
- Open-in and Open-out option available.

SILL

- Sill has built-in sump sill and no insect traps for easy maintenance and cleaning.

GLAZING & ENERGY EFFICIENCY

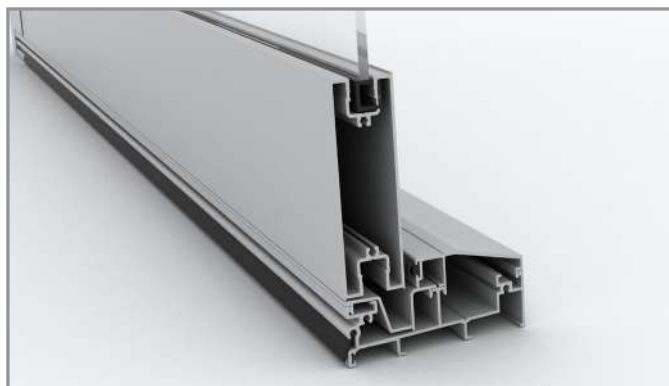
- All Trend® Windows and Doors comply with Australian Standards AS1288.
- Glazing options from 4mm single glazed to 18mm insulated glazed units (IGUs).
- Available in a range of glazing styles.
- Energy efficiency options available to help reduce home energy consumption.
- All glazing options are Window Energy Rating Scheme (WERS) rated - providing a wide range of energy efficient solutions.

ACOUSTICS

- Acoustic solutions available for improved noise reduction.
- High R_w ratings available.

WIND & WATER RATINGS

- All Trend® Windows and Doors are designed to meet and surpass 700Pa wind velocity rating and 150Pa water penetration rating and comply with Australian Standards AS2047.
- Pascal deflection rates up to 2200Pa.
- Hinge door rated at an air infiltration of 1.00L/s m².



SECURITY

- **Infinity** night latch key lock hardware supplied as standard.
- Mortice lock mechanism pulls the door panels in tight in the center, top and bottom locking the doors securely.
- Optional security, barrier and **Prowler Proof** screens available.

BUSHFIRE

- Xtreme® Bushfire Protection option available*.
- Xtreme® options have been tested by CSIRO to meet BAL-40 - compliant to AS1530.8.1 within Australian Standards AS3959-2009.



HARDWARE

- **Infinity** Satin Chrome hardware supplied as standard
- **Infinity** hinge door lock include night latch feature - locking doors when handle is in vertical position.
- Four point locking to improve sealing supplied as standard.
- Optional colours available are:
 - Pearl White
 - Stone Beige
 - Anodic Natural Matt
 - Gloss Black
- Door locks can be keyed alike to other Quantum® products for ease of use.
- Hinges made out of durable stainless steel - optional black colour is also available.
- Parliament hinges available where door needs to be flush to the brickwork.
- Adjustable lift off hinge supplied as standard allows the door to be adjusted vertically and horizontally by up to 3mm.

OPTIONS

- Glazing options also available in bar layout styles:
 - Colonial
 - Federation
 - Ovolo glazing bar style*
- Wide range of powder coating colours.
- Customised WERS ratings.
- Variety of sizes and custom made options available.
- Variety of configuration options available.

* Ovolo available in single glazing only.

DELIVERY

- Protective wrapping for delivery to site comes standard for all Quantum® products.





Quantum® Hinge Door Installation

Hinge Door - Installation

Building In Detail | Brick Veneer - 240mm wall



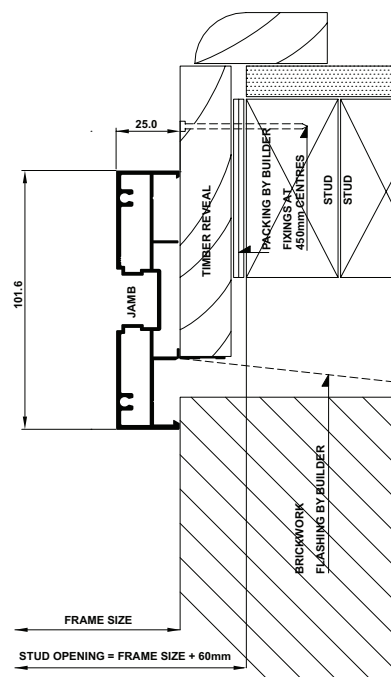
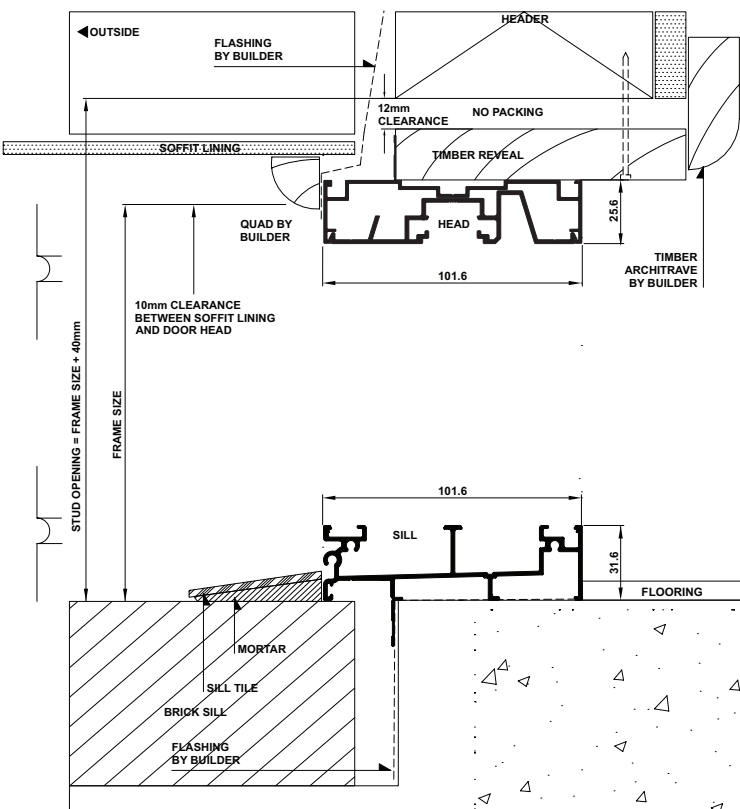
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



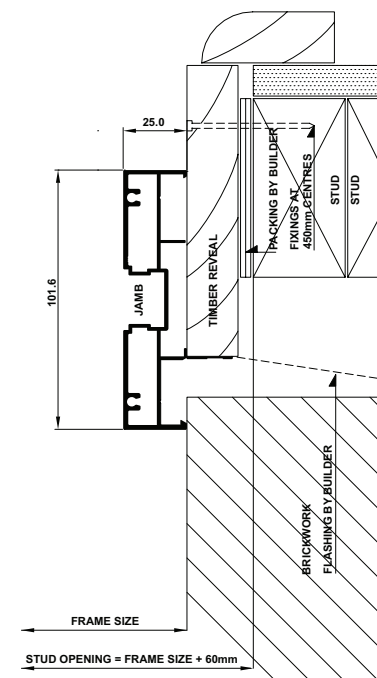
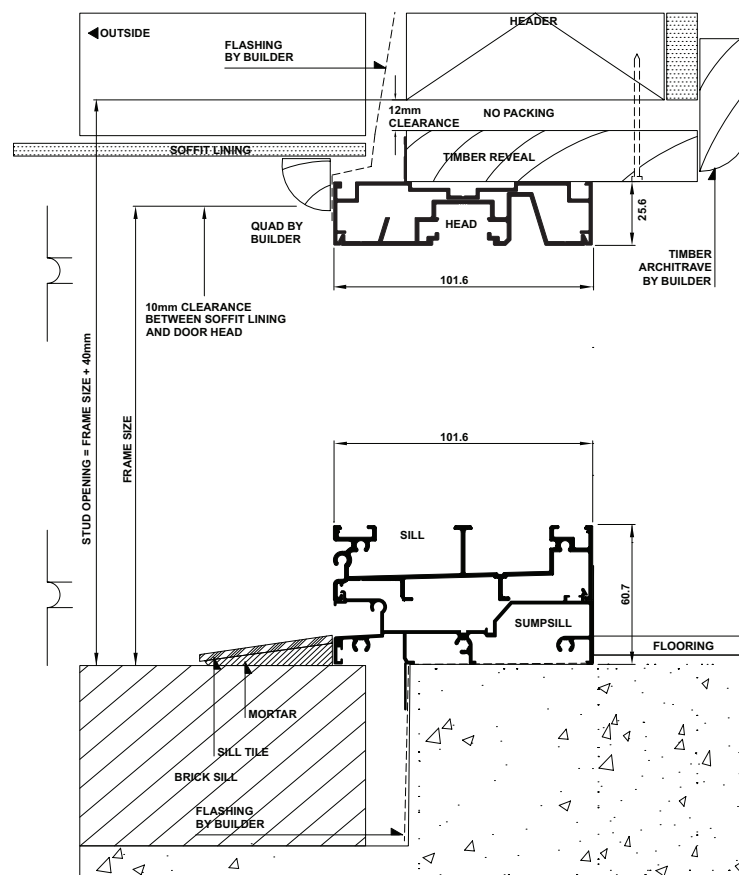
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Hinge Door - Installation

Building In Detail | **Brick Veneer - 240mm wall | Rebated | Sump Sill**

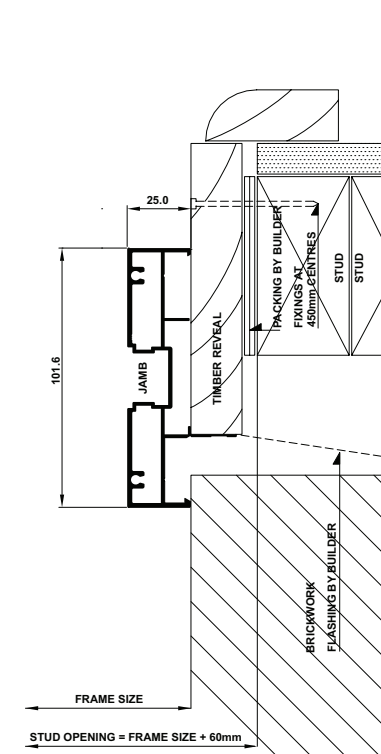
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Hinge Door - Installation

Building In Detail | Brick Veneer - 240mm wall | Joists



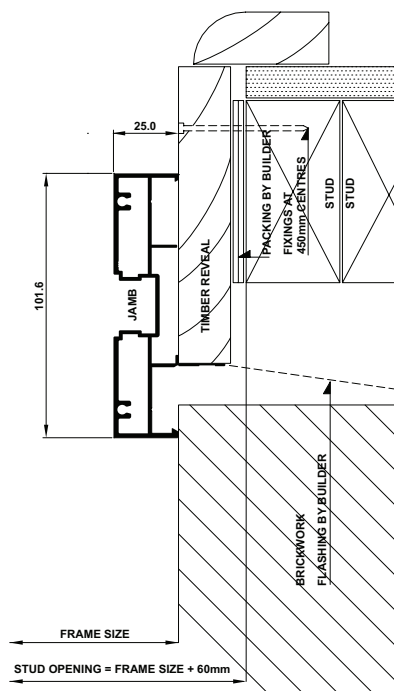
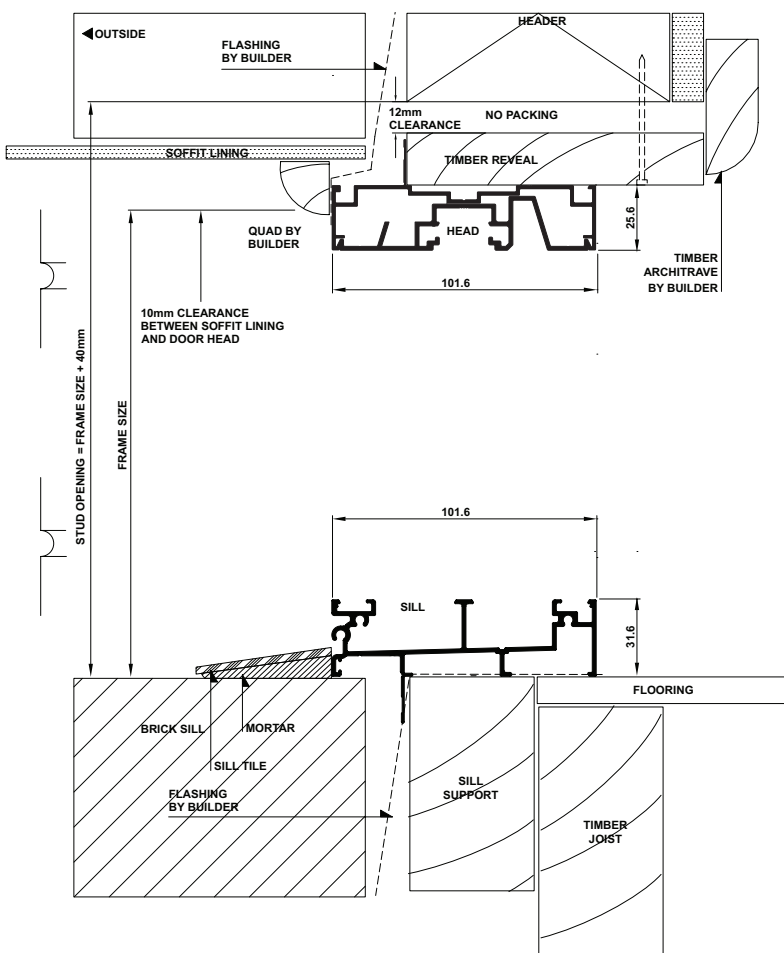
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



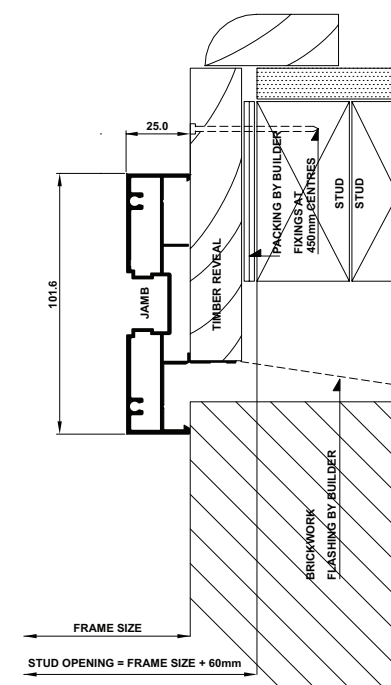
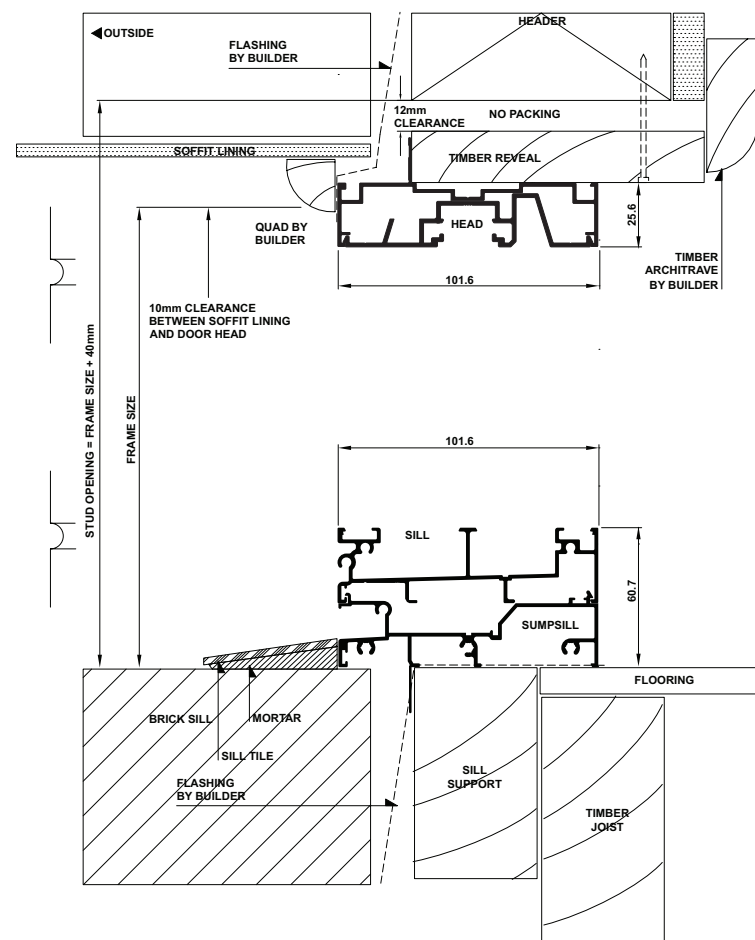
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

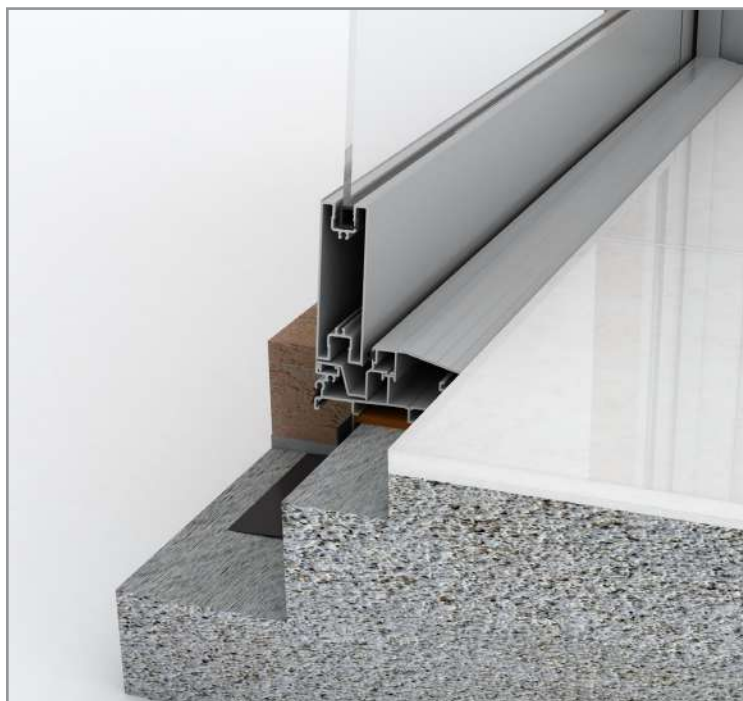
Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Sill bricks should be at least 10mm clear of door frame to allow settlement in brick veneer construction.
- Header beam should be at least 12mm clear of door frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Hinge Door - Installation

Building In Detail | Double Brick - 280mm wall



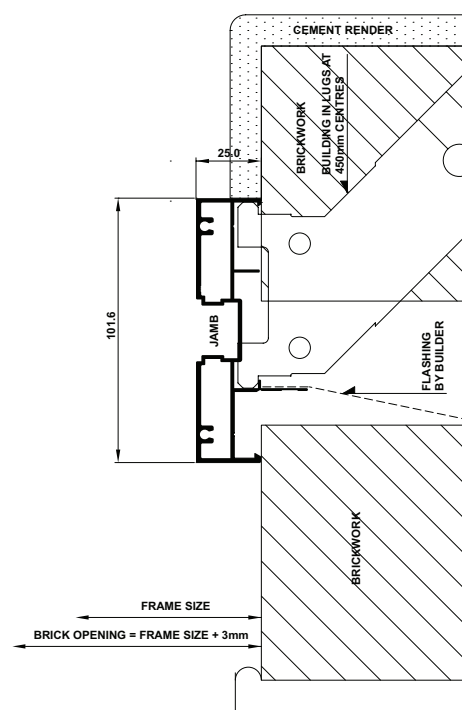
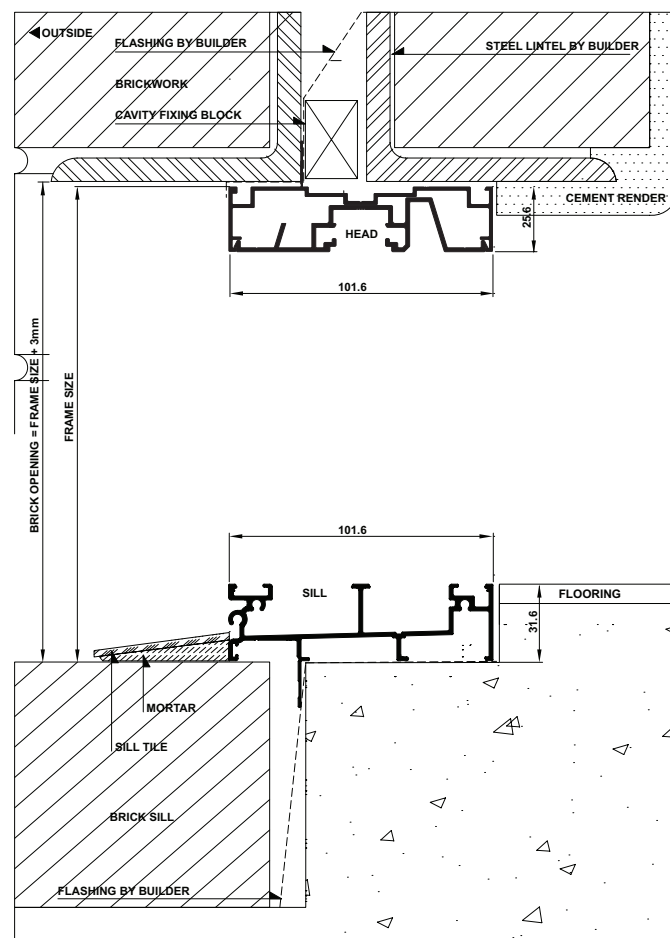
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



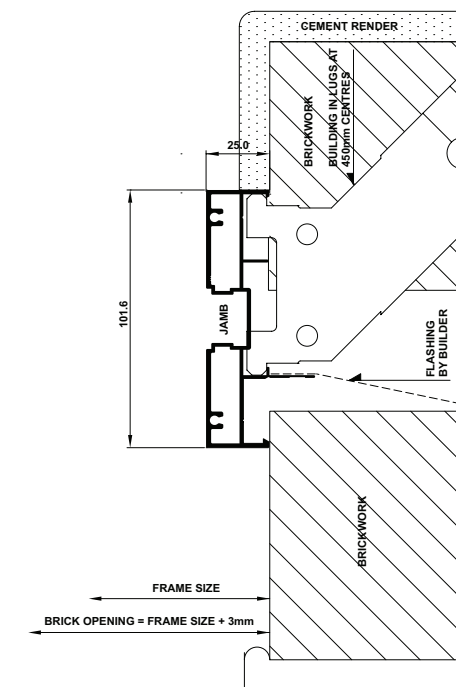
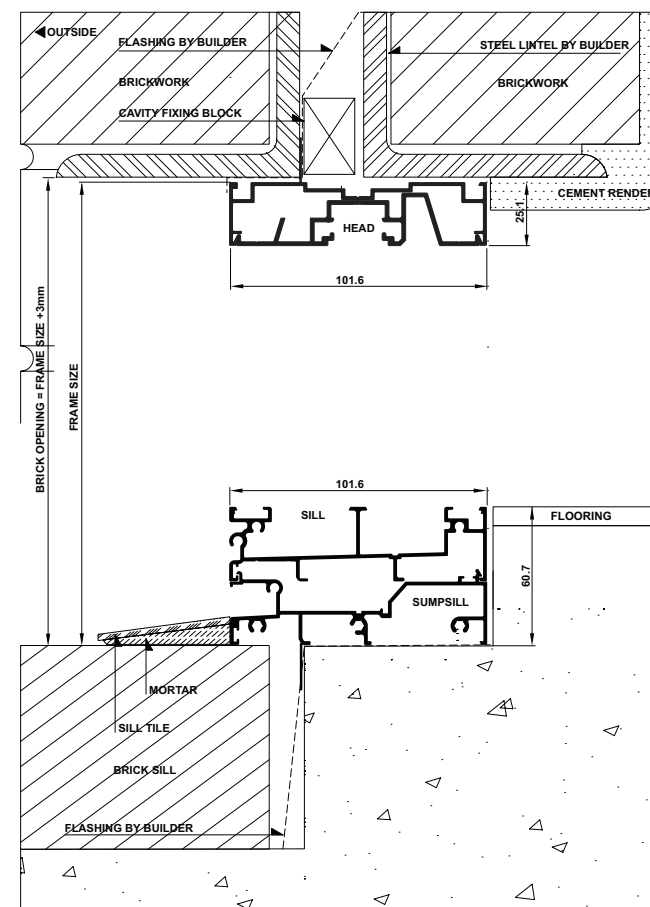
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

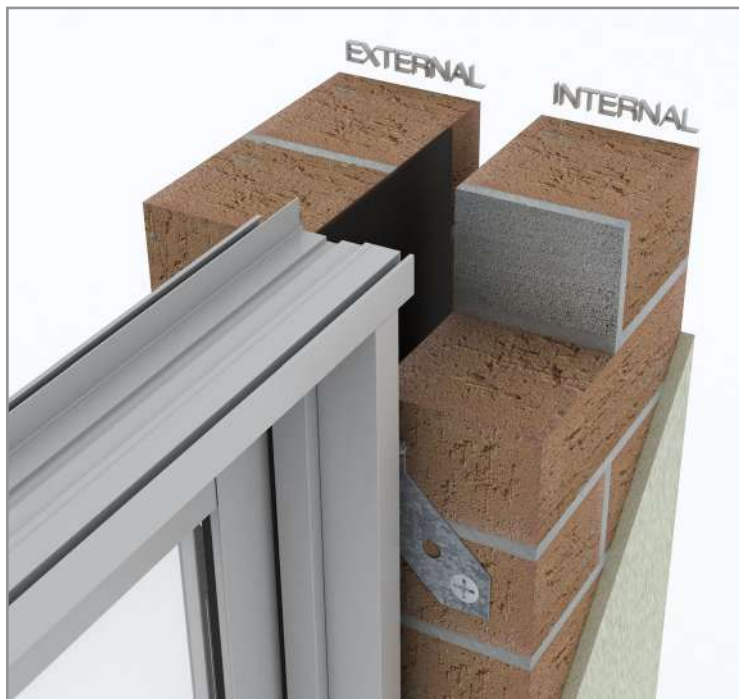
Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Hinge Door - Installation

Building In Detail | Double Brick - 280mm wall | Prepared Opening



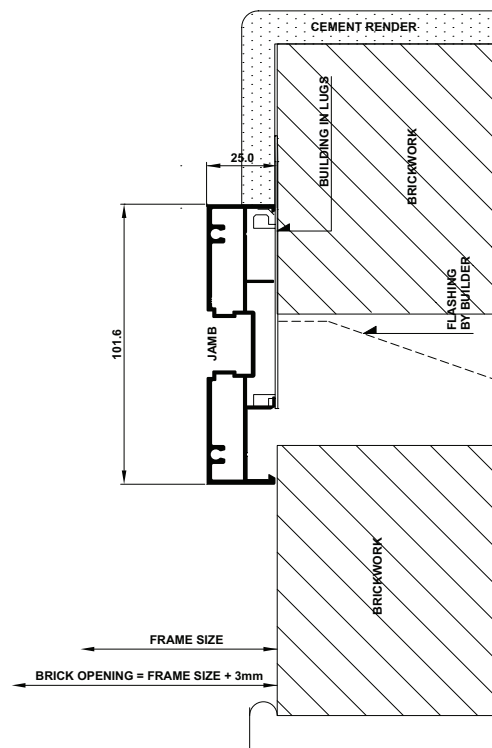
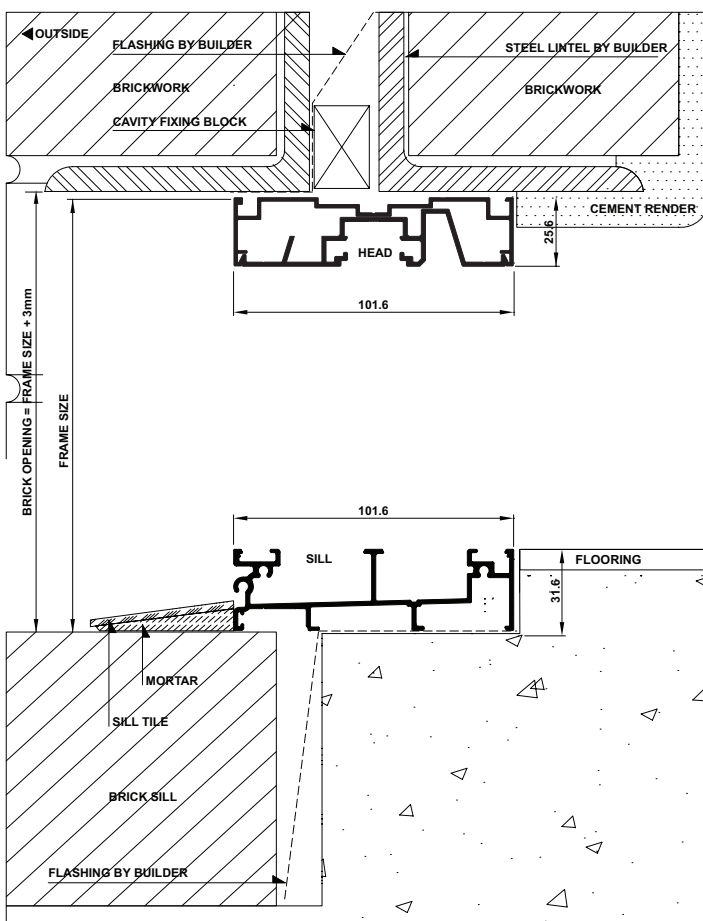
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Brick Opening:

Height = Frame Size + 3mm
Width = Frame Size + 3mm

- Secure aluminum doors using building lug into mortar - fixing at 450mm max centres
- Sill bricks should be at least 10 mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



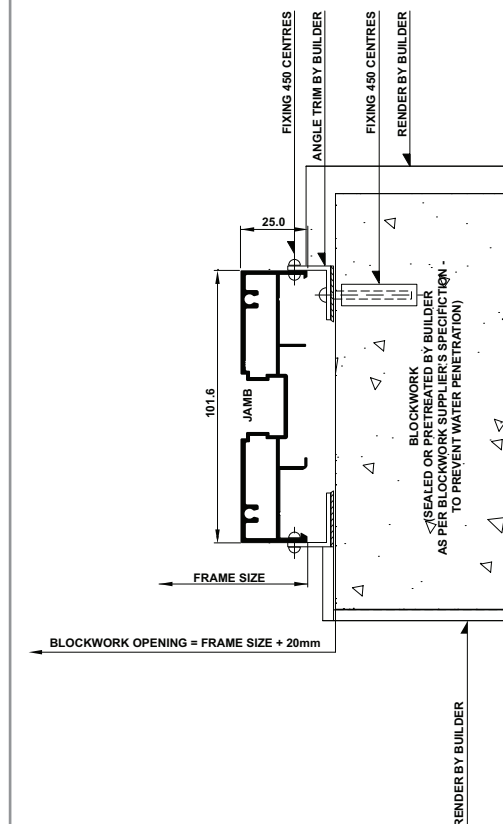
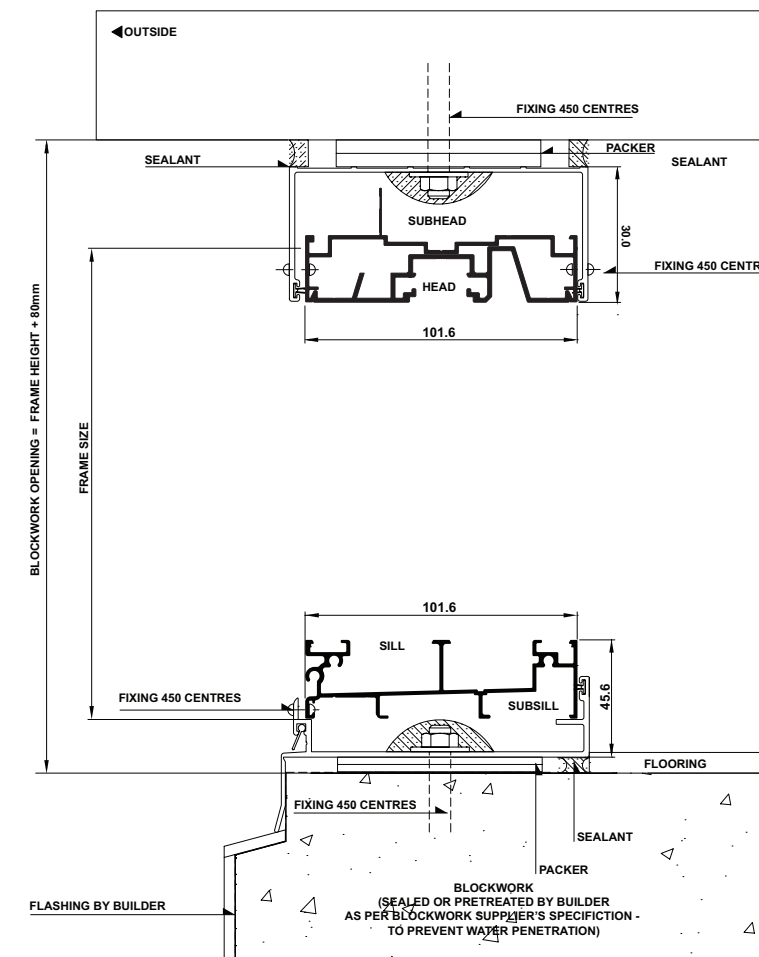
INSTALLING FRAME CORRECTLY

- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Blockwork Opening:

Height = Frame Size + 80mm
Width = Frame Size + 20mm

- Fit subframe to opening and seal fixings.
- Fit window to subframe (screw or pop-rivet).
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



Hinge Door - Installation

Building In Detail | Cladding on Studwall



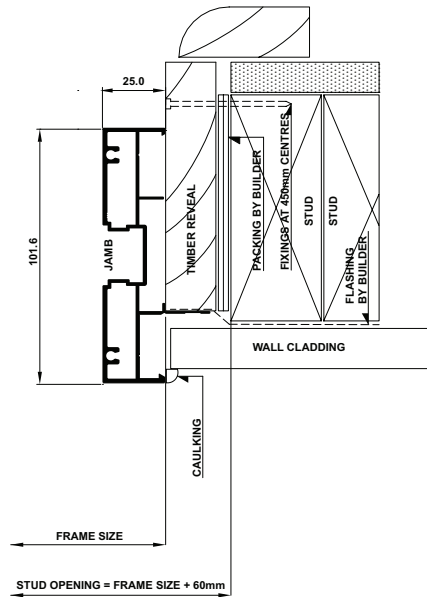
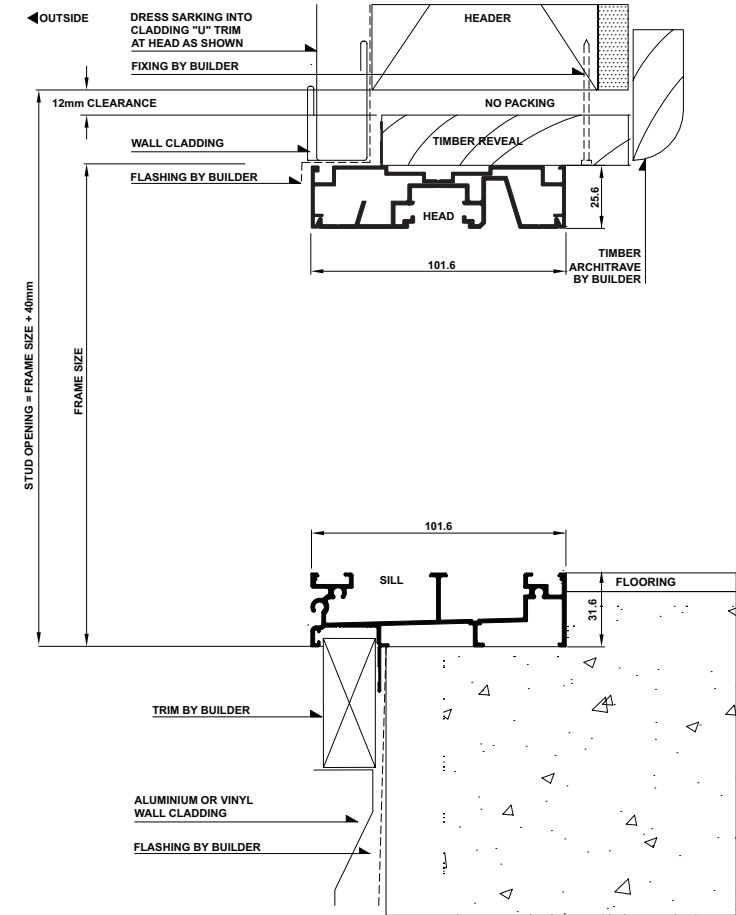
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



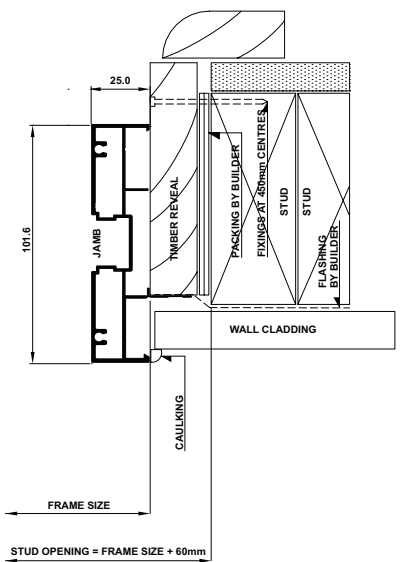
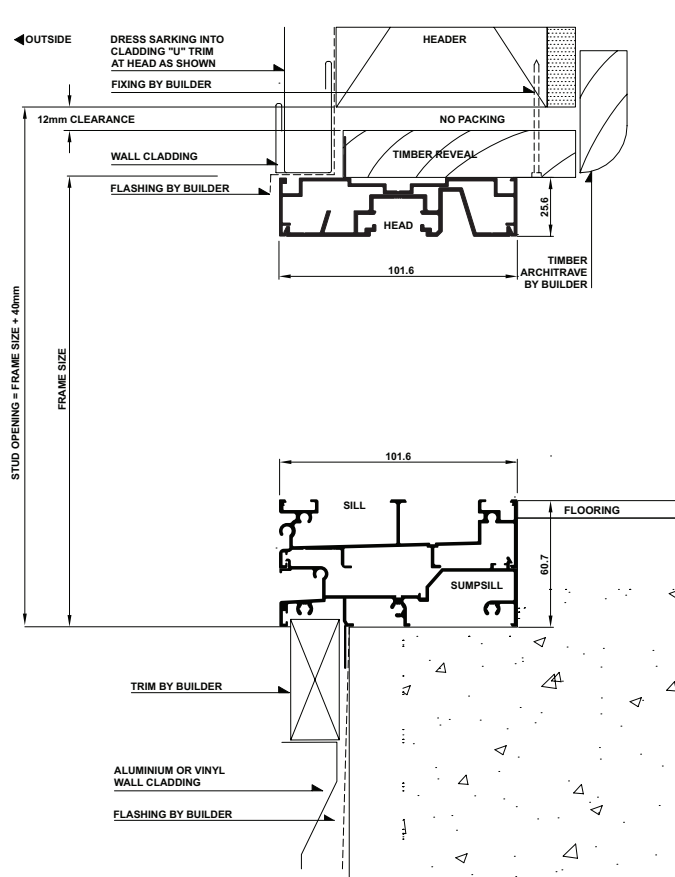
INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors install sill support (refer to drawings below).
- Ensure outside finish does not block sill drainage holes.



Hinge Door - Installation

Building In Detail | Hebel Power Panel



INSTALLING FRAME CORRECTLY

- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.



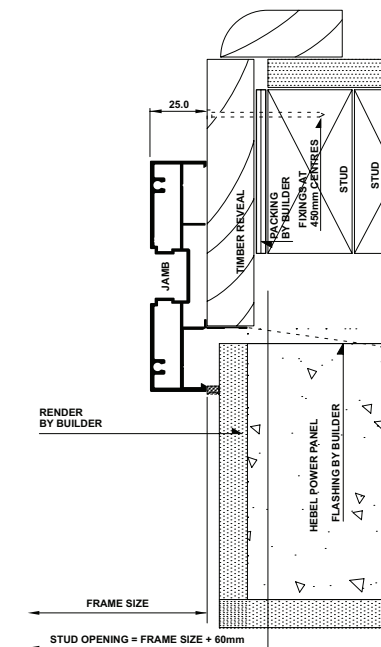
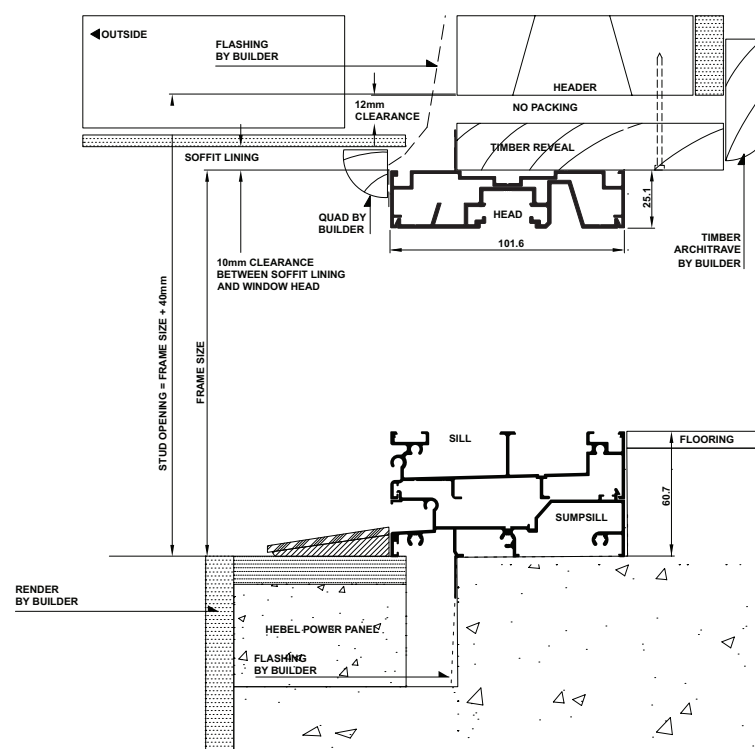
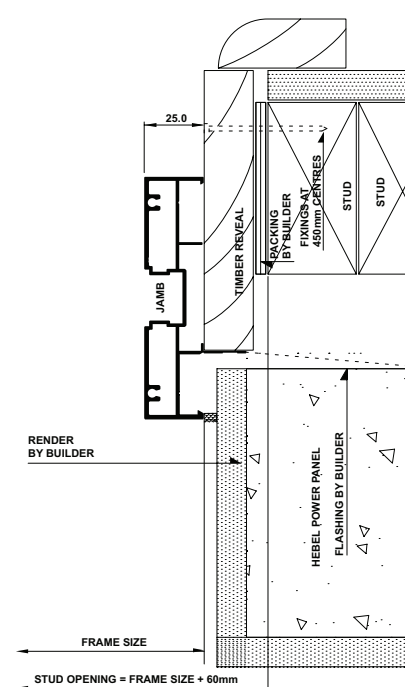
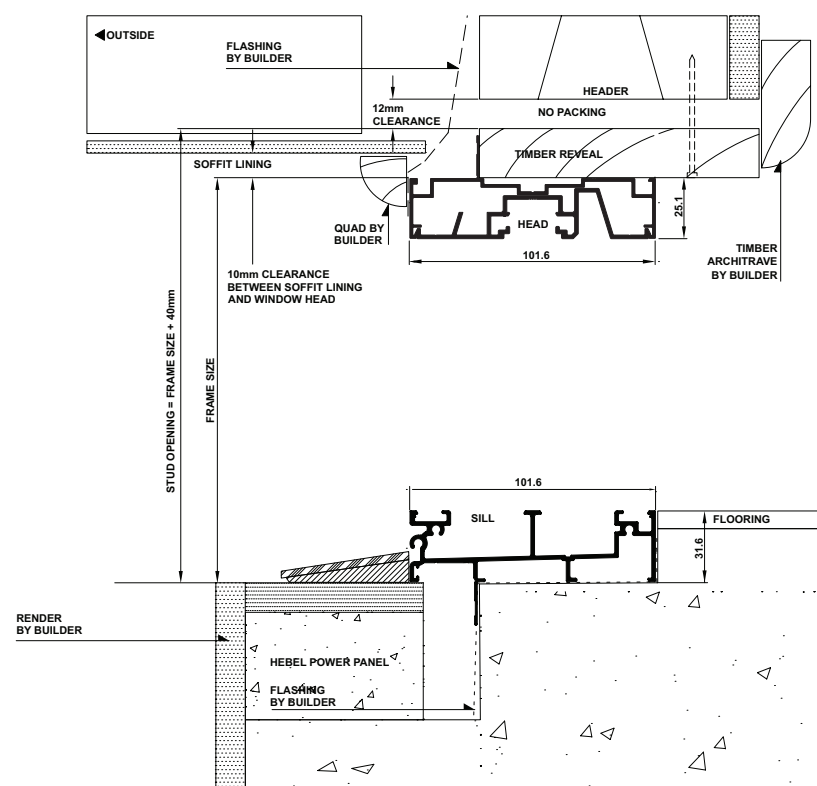
INSTALLING FRAME CORRECTLY

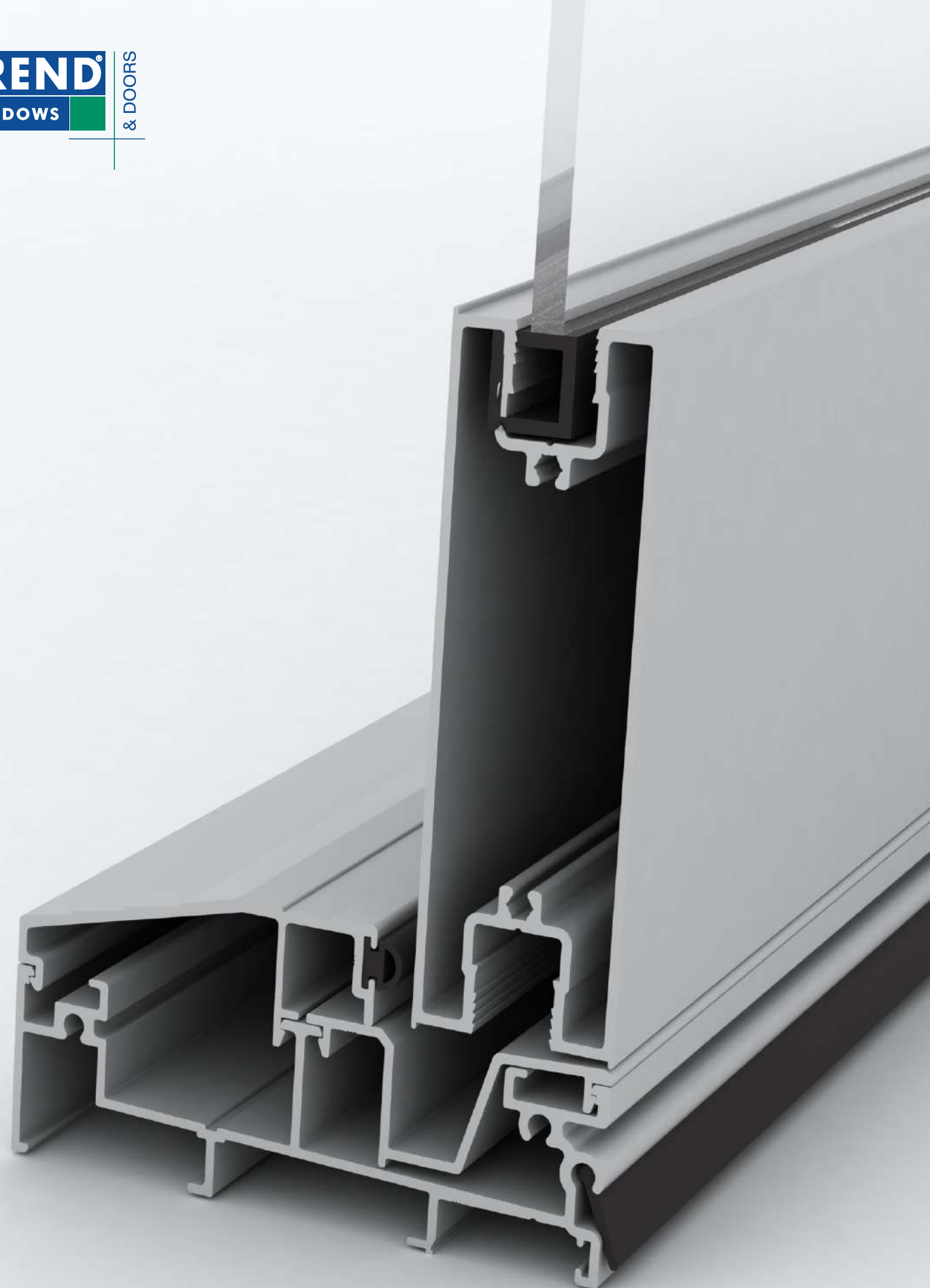
- Fit flashing to door surround (refer to drawing below).
- Measure the frame opening to ensure that there is sufficient room for the product and additional packing.

Stud Opening:

Height = Frame Size + 40mm
Width = Frame Size + 60mm

- Secure aluminum door by nailing through reveal into studwork - fixing at 450mm maximum centres.
- Header beam should be at least 12mm clear of window frame.
- Do not permit weight of eaves or arch bars to bear on any window or door frame. **(Windows and doors are not load bearing.)**
- To ensure the satisfactory long term performance of doors, sill must be fully supported.
- Ensure outside finish does not block sill drainage holes.





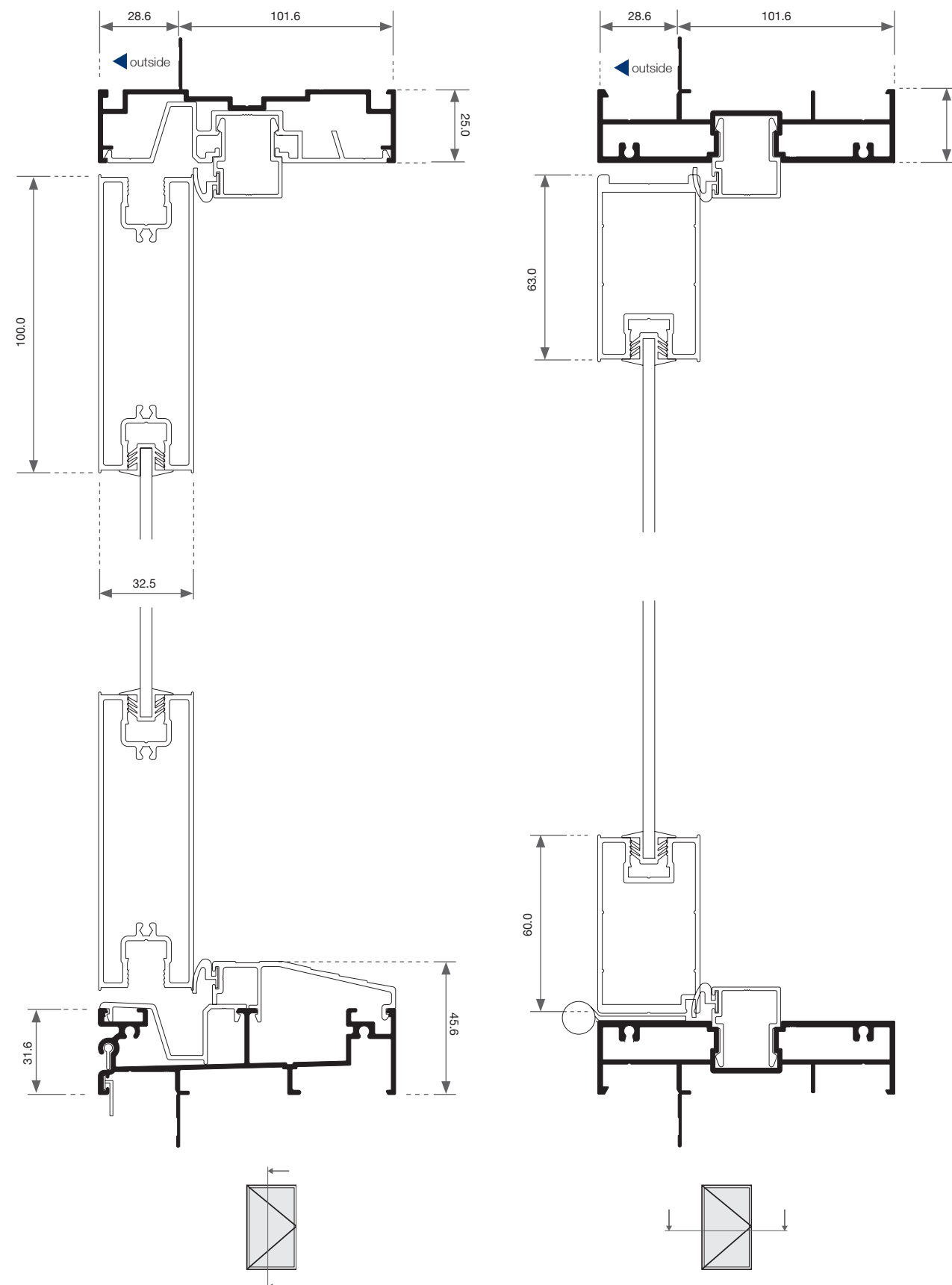
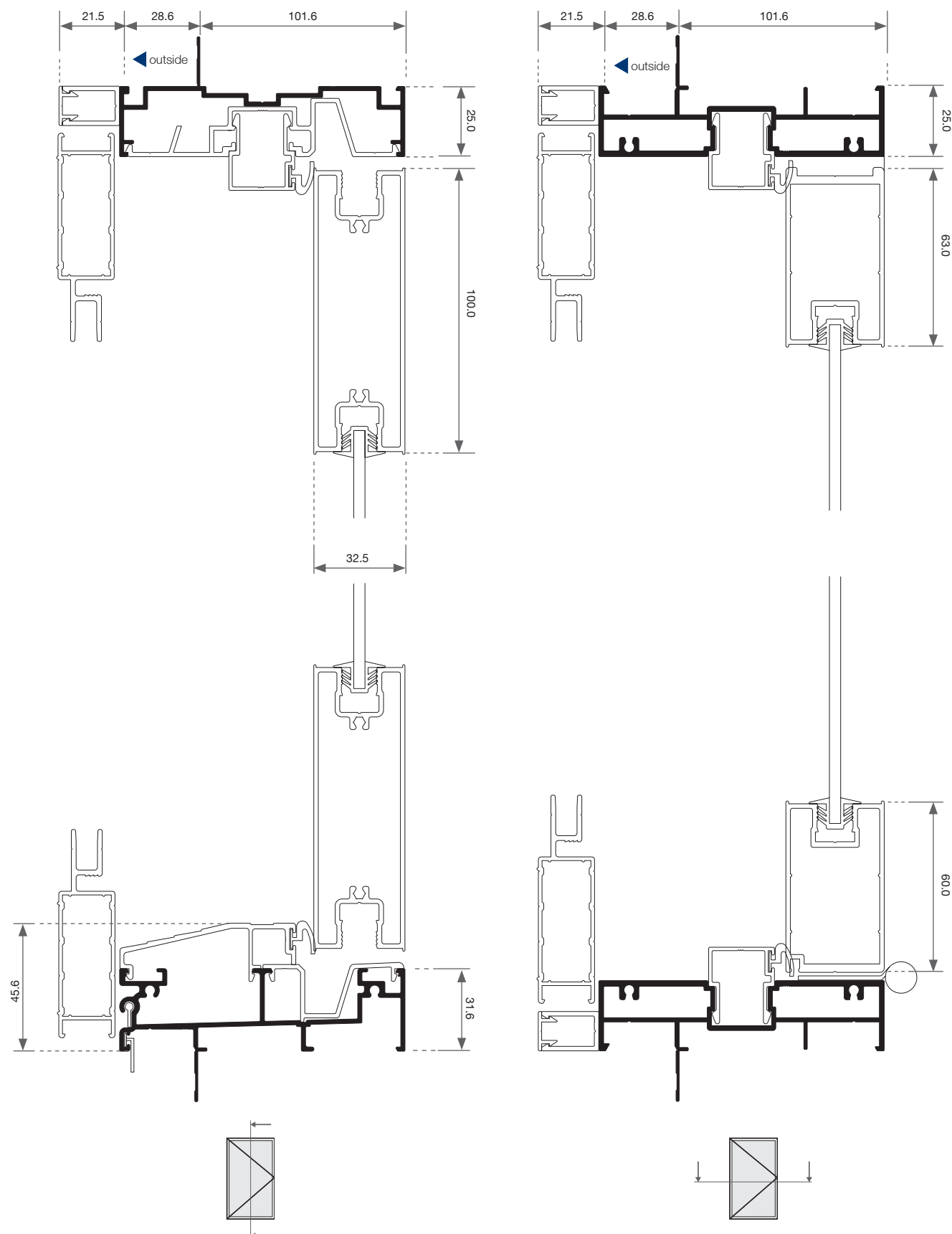
Quantum® Hinge Door Cross Sectional Views

Hinge Door - Cross Sectional View

Hinge Door - Cross Sectional View

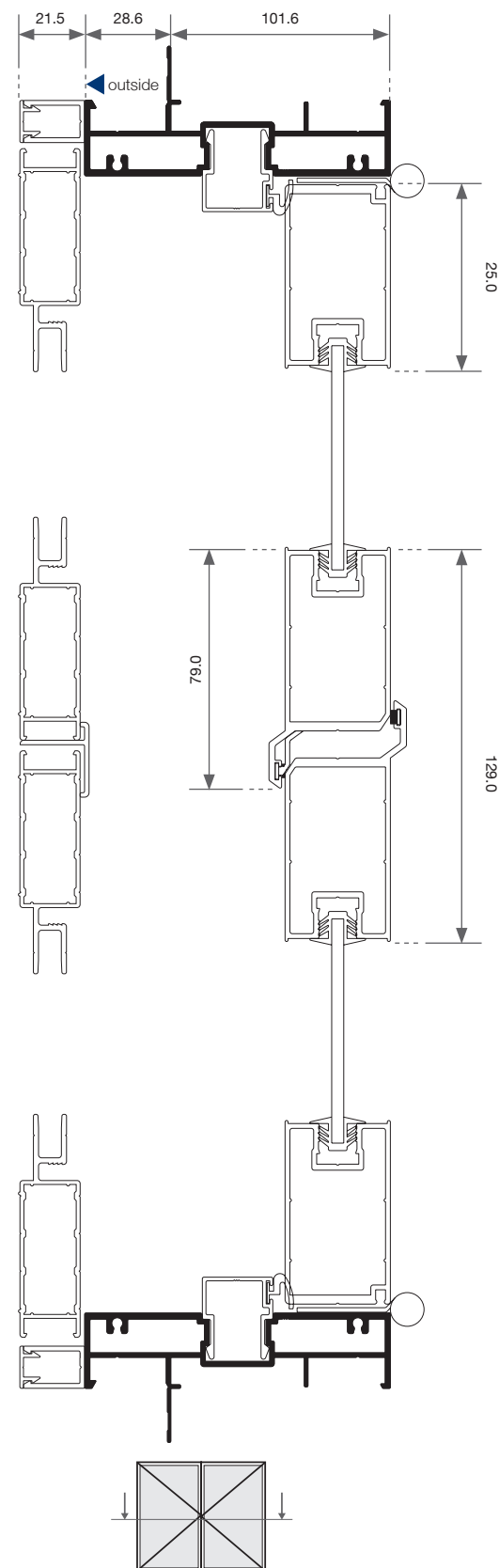
Single | Open In

Single | Open Out



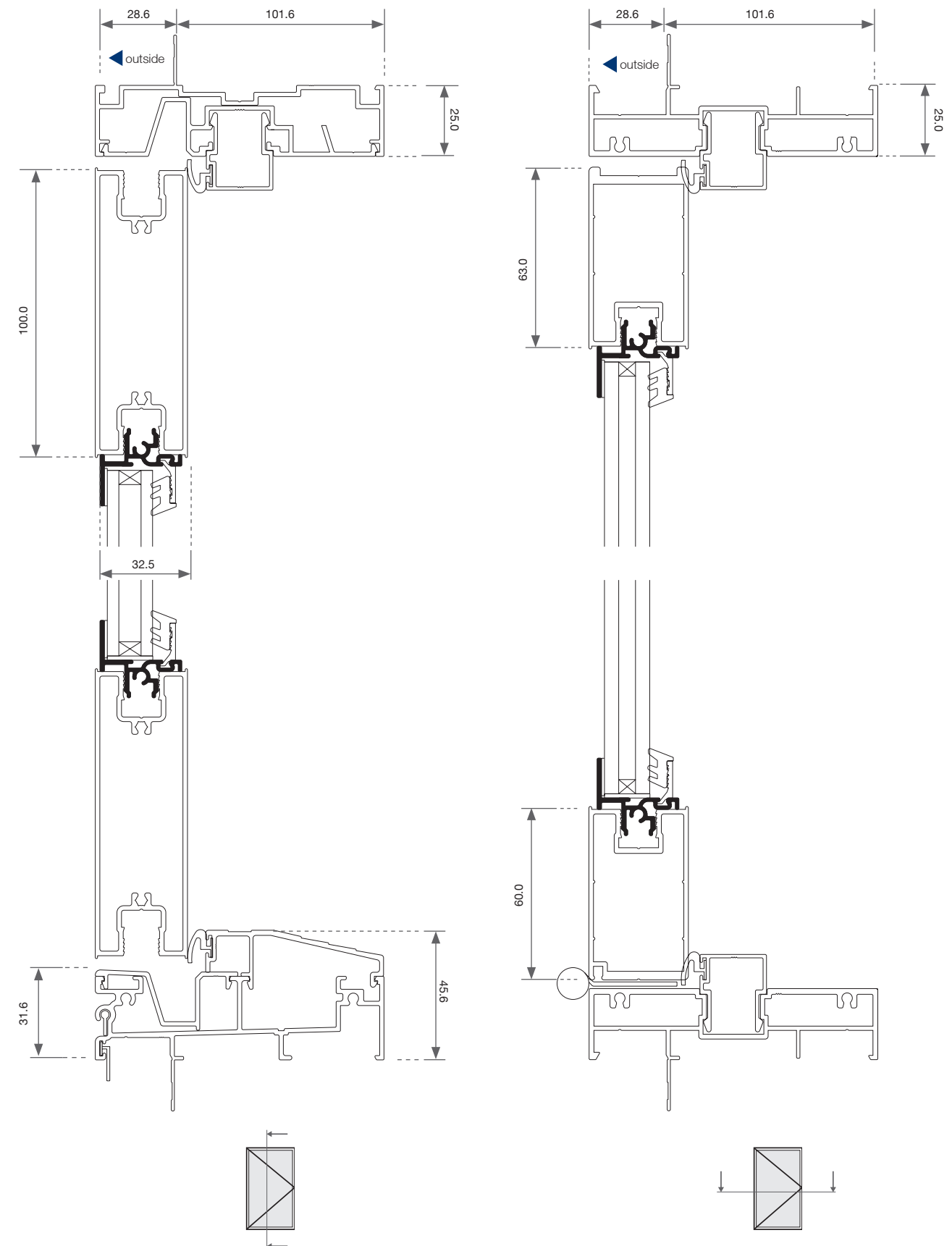
Hinge Door - Cross Sectional View

Pair | Open In



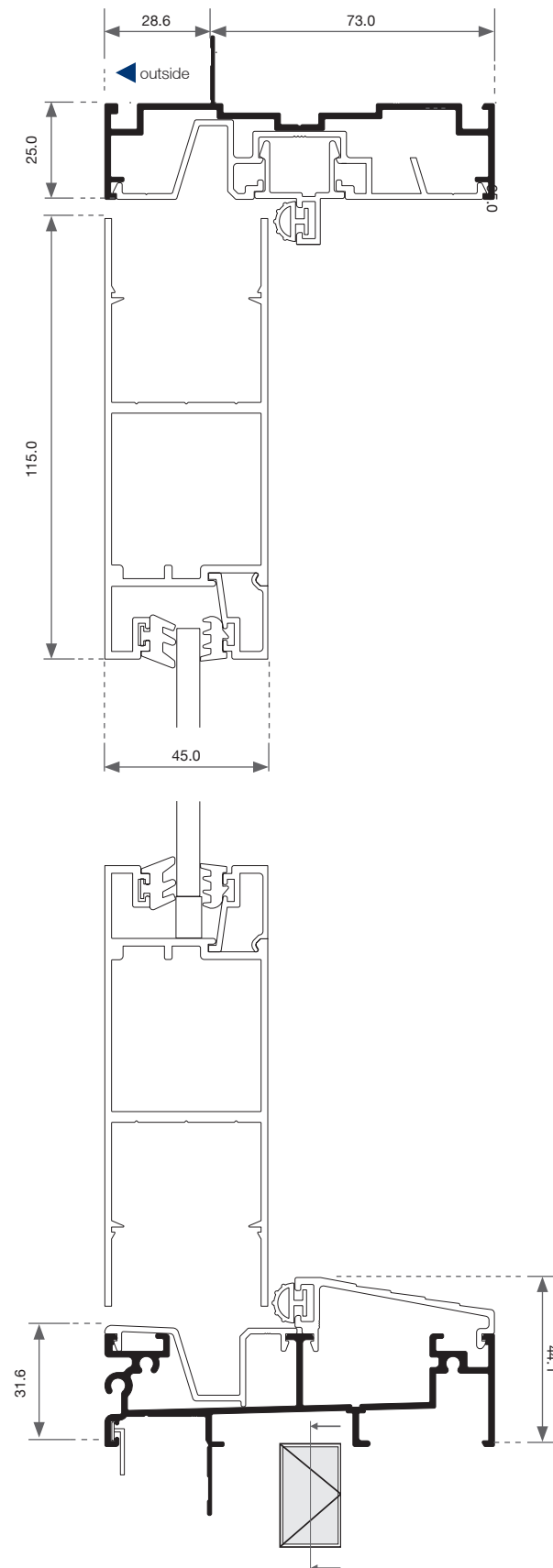
Hinge Door - Cross Sectional View

Single | Double Glazed



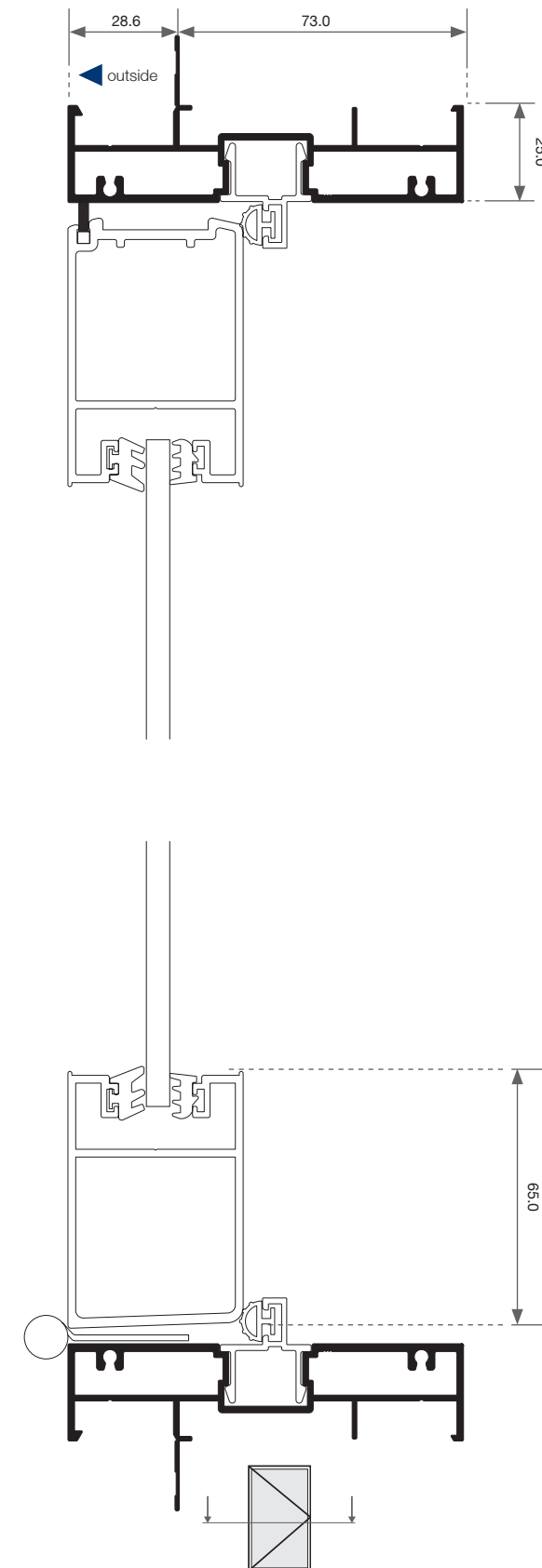
Hinge Door - Cross Sectional View

Single | Heavy Duty | Open Out | Elevation



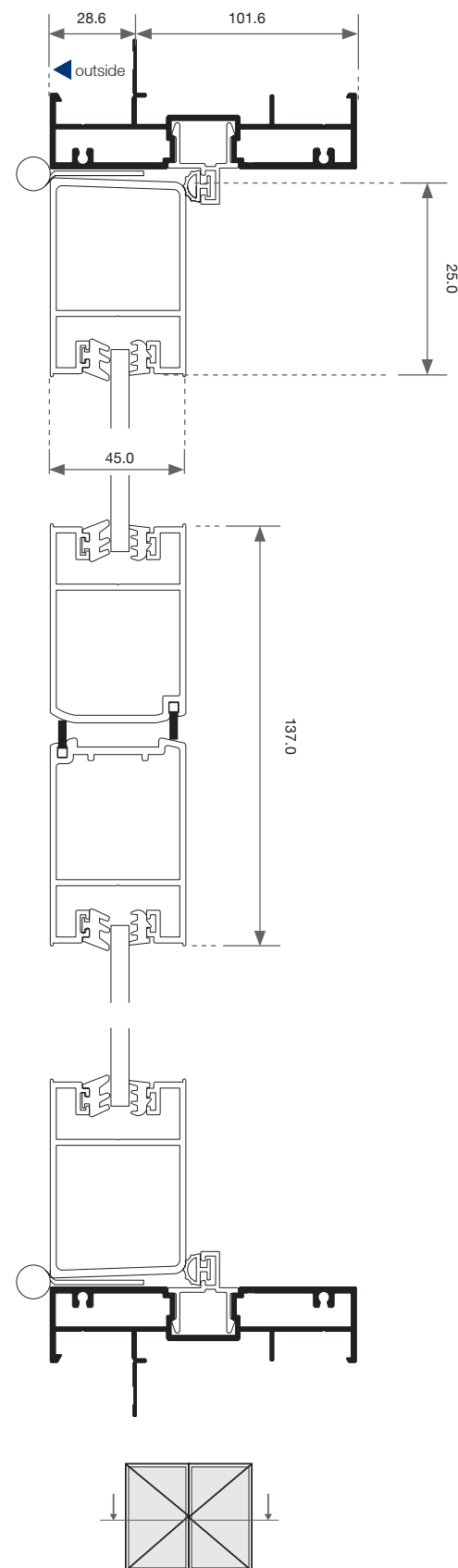
Hinge Door - Cross Sectional View

Single | Heavy Duty | Open Out | Plan



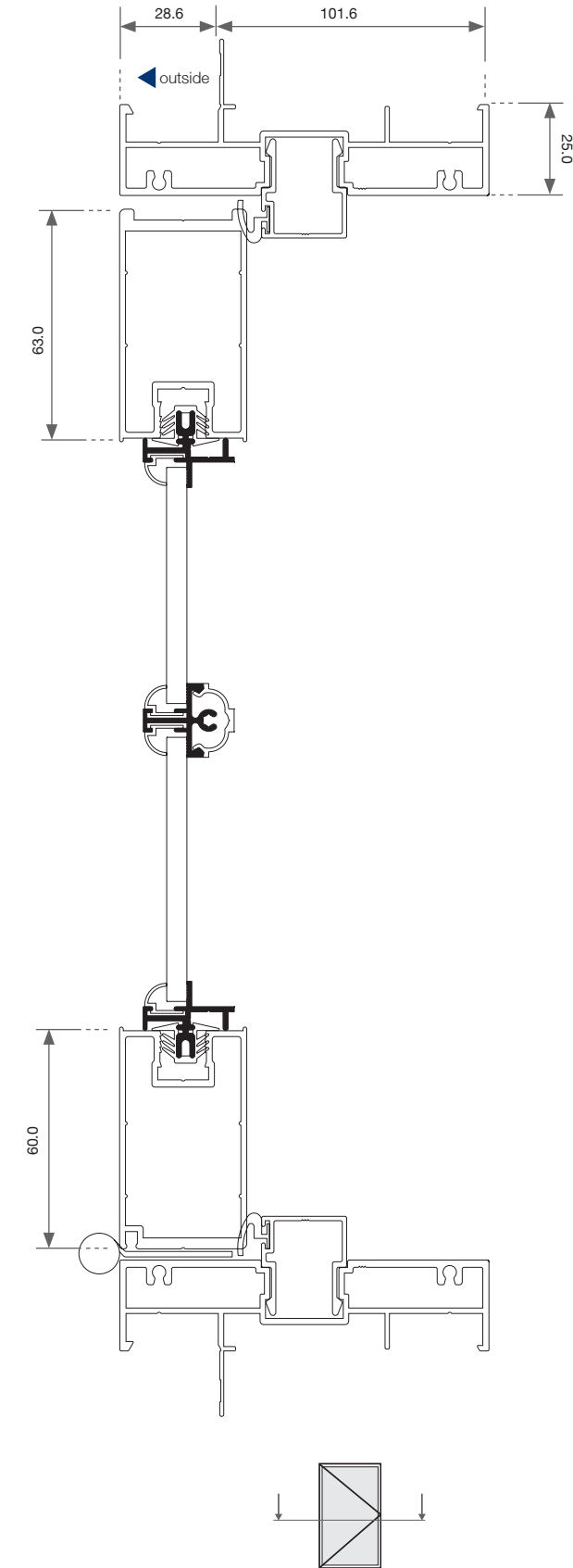
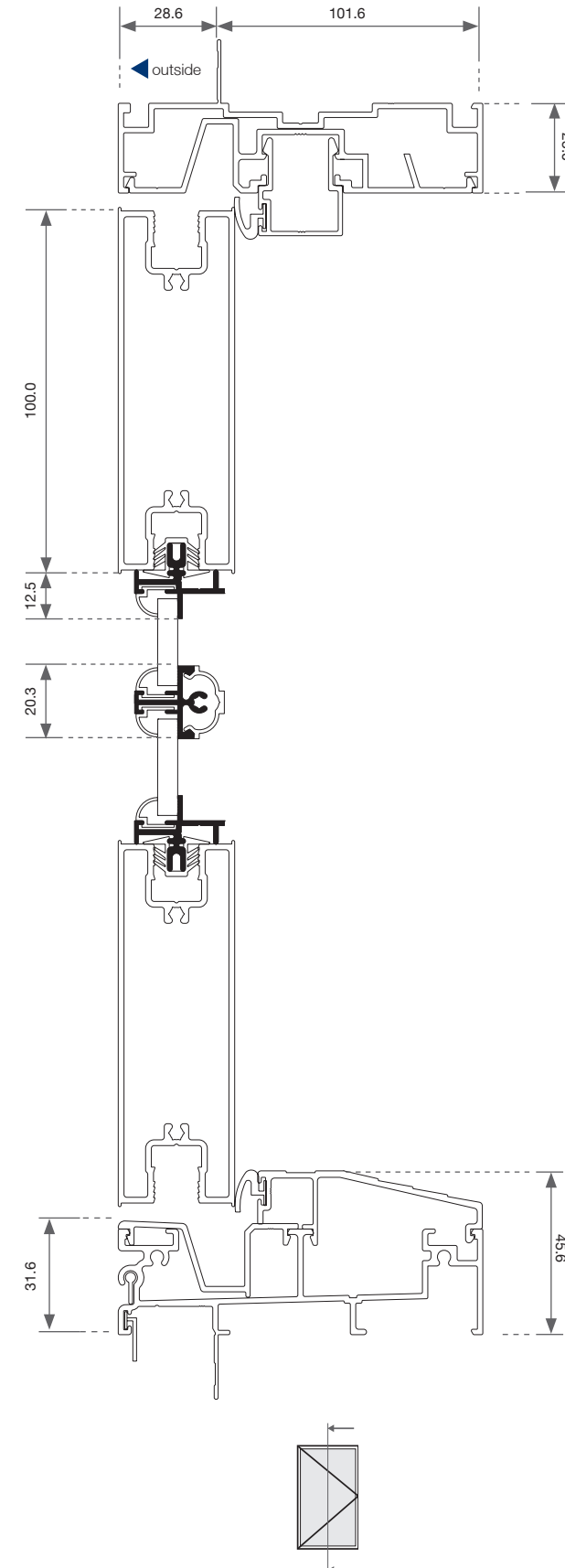
Hinge Door

Pair | Heavy Duty | Open Out



Cross Sectional View

Cross Sectional Views | **Single** | **Ovolo**



Please note that drawings displayed are not to scale

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Please note that drawings displayed are not to scale

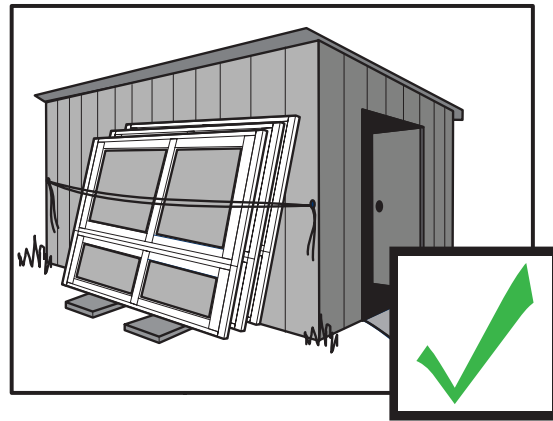
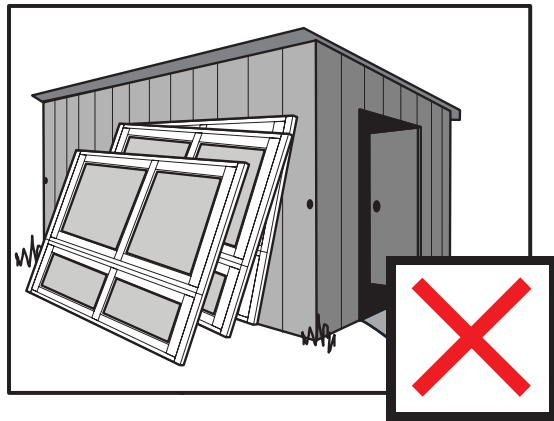
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Quantum® Care & Maintenance

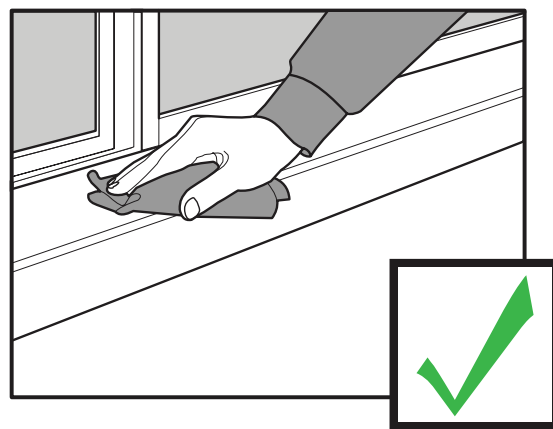
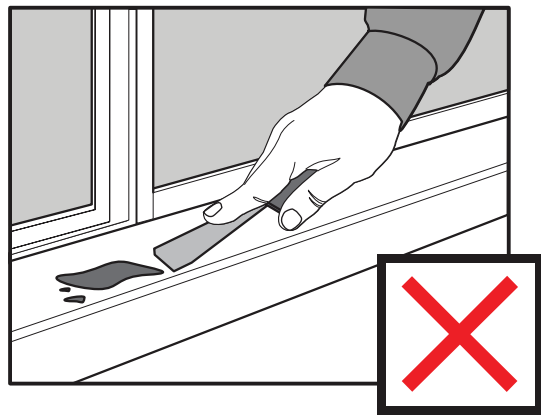
STORAGE

On site, windows and doors should be stored in a clean dry free area from cement, lime, paint, acid etc. During and after installation windows and doors must be protected from building, materials and loose debris such as wet plaster, mortar, paint and welding splatter. Wet plaster and mortar should be removed immediately and soiled areas washed down with a sponge and clean water and a sponge or rag, to avoid permanent staining or scratching of finished surfaces.



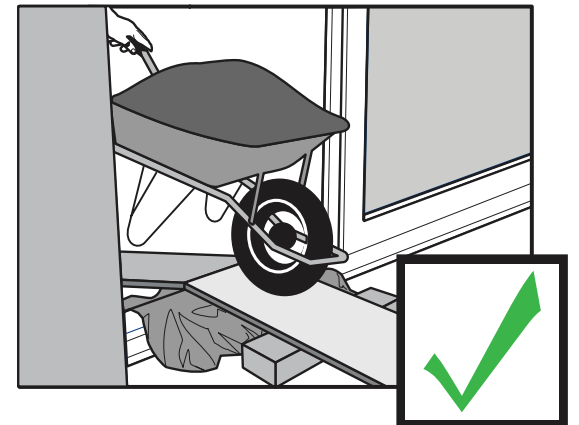
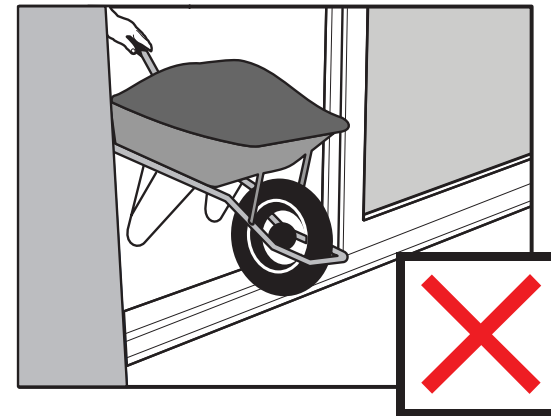
DEBRIS REMOVAL

If removal of debris is delayed and scraping becomes necessary the surface finish may be damaged. Remove cement, mortar and other droppings immediately, using ample clean water and a sponge or rag to avoid permanent staining of finished surfaces.



ON-SITE PROTECTION

Door tracks and window sills should be protected from planks, scaffolding and barrows.

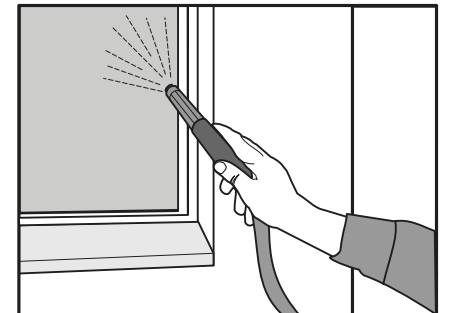


ON-SITE CLEANING

Acid used for cleaning brickwork must be prevented from making contact with powder coated aluminium window and door surfaces. If any acid or similar corrosive material does come into contact with window or door surfaces those areas must be washed immediately with large quantities of clean water.

If using a hose or similar apparatus to clean windows and/or doors ensure the hose nozzle/jet fitting is set to a fine spray as shown in the diagram. At no time should a window or door be hit with full force of a hose nozzle/jet setting.

If stripable coatings or pressure sensitive tapes are used to protect exposed surfaces, care must be taken not to damage the finish during their removal. Prolonged exposure to sunlight can make them increasingly difficult to remove.



MAINTENANCE CONDITIONS

1. All powdercoated surfaces should be cleaned using a soft cloth or sponge with a solution of warm water. In industrial environments or environments with atmospheric pollution the normal frequency of cleaning should be at not more than three (3) monthly intervals. However, where there is high atmospheric pollution, such as a marine/coastal environment, cleaning should be conducted at monthly intervals. Where the atmosphere is deemed to be non-hazardous eg rural, the period between cleaning frequency can be extended up to twelve (12) months.
2. Remove cement mortar dropping from windows immediately, taking care to avoid scratching glass and frames as permanent damage can result. Trend® Windows & Doors will not be liable for any damage that may occur if the timber or aluminium painted surfaces come into contact with acid when cleaning brickwork.
3. Timber products MUST BE sealed (within one (1) month of delivery) with two coats of paint, varnish or sealer to both faces and edges including top and bottom. Exterior quality finishes in light reflective colours (not DARK colours) must be applied to all products exposed to direct sunlight or the elements.



Trend® National Customer Assistance Centre

(between 8:30am - 4:30pm EST, Mon-Fri)

13 72 74

www.trendwindows.com.au

info@trendwindows.com.au

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