Installation
Door Building In Details

Photo courtesy of Rowe Aluminium
VANTAGE SNAP-ON COUPLERS AND TRIMS

Vantage offer a wide range of snap-on couplers and trims to deliver tidy integration between products. Often aluminium windows and doors are joined together with pressed metal covers that are secured to window and door with visible blind rivets or screws. Pressed metal covers usually have raw edges and are deformed at fixing points and do not provide a high quality finishing solution.

Vantage snap-on couplers and trims are sealed to the main frame at the nailing fin position. This may not sound like much but it makes sure the joint is waterproof and keeps untidy caulking away from the face of the window/door.

The data and illustrations on the following pages highlight some of our couplers and trims and their basic features:

VERTICAL WINDOW TO DOOR COUPLER (42024)
- This non-load bearing coupler allows us to join 50mm windows to any 102mm door frame while maintaining the weather resistance line.
- The illustration right shows Series 504 sliding window coupled to Series 541 sliding door.

VERTICAL 'I' COUPLER (42030)
- This non-load bearing coupler allows us to join 102mm windows and doors together.
- The illustration right shows Series 504 sliding window with ‘Longreach’ frame extender coupled to Series 541 sliding door.

135° BAY CORNER COUPLER (42026)
- This wrap around coupler can be used to join 50mm windows to 102mm door frames.
- The coupler can also be used to join 102mm window and door frames together.
- Cover will wrap around 51mm steel column.
- The illustration right shows Series 616 awning window coupled to Series 542 sliding door.

90° BOX CORNER COUPLER (42022)
- This wrap around coupler can be used to join 50mm windows to 102mm door frames.
- The coupler can also be used to join 102mm window and door frames together.
- Cover will wrap around 76mm steel column.
- The illustration right shows Series 616 awning window coupled to Series 616 fixed window.
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180° FLAT COUPLER (42066)
- This wrap around coupler can be used to join 50mm windows to 102mm door frames.
- The coupler can also be used to join 102mm window and door frames together.
- Cover will wrap around 76mm steel column.
- The illustration right shows Series 517 fixed window coupled to Series 542 sliding door.

HORIZONTAL WINDOW TO DOOR COUPLER (42025)
- This light transom coupler allows us to join 50mm windows over 102mm door frame while maintaining the weather resistance line.
- The illustration right shows Series 504 sliding window coupled to Series 541 sliding door.

HEAVY DUTY TRANsOM COUPLER (42027)
- This 102mm x 50mm snap fit box transom coupler allows us to join 102mm windows over 102mm door frames.
- Heavy wall thickness front and back allows us to span wider openings.
- The illustration right shows Series 517 awning window coupled to Series 541 sliding door.

EXTRA HEAVY DUTY TRANsOM COUPLER (42346)
- This 133mm x 50mm snap fit box transom coupler allows us to join 102mm windows over 102mm door frames and the wider 133mm Magnum™ sliding door frame.
- Heavy wall thickness front and back allows us to span very wide openings.
- The illustration right shows Series 517 awning window coupled to Series 542 sliding door.

LONgREACH FRAmE EXTENDERS (16114)
- This extrusion snaps to Series 541 sliding door frame and is used to beef up the standard 10mm frame from 102mm x 10mm to 102mm x 27mm.
- The extender frame sections maintain the weather line, has a nailing fin and will accept building-in lugs and trims.
- The detail right shows the extended window frame on Series 541 installed into cavity brick wall using height adjustable galvanised building in lugs.
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PADDDINGTON FEDERATION TRIMS (10214)

- These federation trims can be clipped to the 102mm 'Longreach' frame extender or the 'Homebush' extender shown below.
- The illustration right shows Paddington trim clipped to Series 541 sliding door fitted with 'Longreach' frame extender.

HOMEBUSH FRAME EXTENDERS (16115)

- This extrusion snaps to Series 541 sliding door frame and is used to beef up the frame from 102mm x 10mm to 102mm x 45mm.
- The extender frame sections maintain the weather line, has a nailing fin and will accept building-in lugs and trims.
- The detail right shows the Series 541 standard 10mm jamb with 'Homebush' extender installed into cavity brick wall.

EXTERNAL FLANGE (EF) TRIMS (42062)

- This external flange trim can be clipped to any of the Vantage 102mm door or window frames.
- This can be useful on replacement doors.

FLAT FRAME CLOSER (42057)

- This jamb closer will clip to any of the Vantage 102mm door or window frames.
- Makes installation into patio room enclosures easier and cleaner as the flat face caters for the radius on the patio posts and closes off the unwanted recess as shown right.

SILL FLASHING TRAY (42350)

- This flashing tray is designed to go under Series 542 and 618 sliding doors where they are installed into first floor situations.
- The purpose of the tray is to guide any water that should get past the sill area back to the outside.
- The sill detail should be fitted with damp course flashing by the builder as detailed right. But this tray would be a major benefit if the builder should forget to fit the damp course flashing.
ENTRY DOOR COUPLERS (51315 and 51321)

- We have snap fit couplers that allow us to join any Vantage 50mm or 102mm window frame to Series 549 entry door frame.
- The illustration right shows Series 514 (50mm frame) double-hung window clipped to Series 549 using 51315 coupler.

ENTRY DOOR FRAME CLOSER (51316)

- For entry doors going into clad walls we offer a half closer that removes the unsightly external frame recess.

THERMAL HEART™ TRANSOM COUPLER (72240)

- This 100mm x 20mm snap fit double box transom coupler allows us to join 100mm windows over hinged, bi-fold or sliding doors.
- The thermal break and dual colour option is maintained through the coupler.
- The illustration right shows Series 726 awning window coupled to Series 731 sliding door.

THERMAL HEART™ HEAVY TRANSOM COUPLER (72241)

- This 100mm x 50mm snap fit double box transom coupler allows us to join 100mm windows over hinged, bi-fold or sliding doors. The stronger coupler allows us to offer wider transom that are required on bi-fold and sliding doors.
- The thermal break and dual colour option is maintained through the coupler.
- The illustration right shows Series 726 awning window coupled to Series 731 sliding door.

THERMAL HEART™ EXTRA HEAVY TRANSOM COUPLER (72242)

- This 163mm x 50mm snap fit double box transom coupler allows us to join 100mm windows over bi-fold or sliding doors. This extra stronger coupler allows us to offer very wide transoms that are required on bi-fold and sliding doors.
- The thermal break and dual colour option is maintained through the coupler.
- The illustration right shows Series 726 awning window coupled to Series 731 stacking sliding door.
Typical door installation into 280mm cavity brick wall
The following pages show a number of typical door building-in details and coupling arrangements, if the information you require is not covered in these pages contact your local Vantage fabricator.

**Fix the door to structure with steel building-in lugs or nails, shim as indicated.**

Installation of sliding doors to be in accordance with Australian Standard AS 2047.

**Suggested installation steps:**

1. If flashing is required fit the flashing to sill.
2. Fit shims on sill plate / slab on meeting stile centre line and at 300mm maximum centres. Make sure these shims are level.
3. Install the frame into the opening.
4. Fit shims on jamb making sure that frame is plumb and square, measure frame across diagonals to check for square.
5. Fix the frame to structure by nailing through timber reveals, Make sure that frame is not twisted. Alternative - On solid brick construction fit galvanised M.S. building-in lugs at 450mm maximum centres.
6. Take care that head, sill and/or jamb are not dished or bowed during installation.
7. Sliding door sills are not strong enough to carry wheel barrows. Protect the sill with timber ramps to protect them from damage during construction.
8. Cement mortar droppings can permanently damage aluminium. Remove cement as soon as possible.
9. Leave at least 10mm gap between sill brick and frame to allow for possible future building settlement.
10. On brick veneer construction there should be at least a 12mm gap between timber header and aluminium frame.
11. Aluminium door frames are not designed to support eaves linings.

**Important Note:**

If you install door frames and/or panels out or square or without sufficient shims the doors won’t perform correctly.
Installation
Door Building in Details

250mm BRICK VENEER WITH TIMBER FLOOR

Head

- 12mm Clearance between reveal and header
- 10mm Clearance between eaves lining and window head.
- Quad trim by builder

Frame size

Stud opening size = Frame size + 40

Sill

- Caulking
- Sill tile
- Brickwork
- Flashing
- Sill support by builder

Series 541 Sliding door illustrated

Header

- No packing
- Timber reveal

Timber architrave internal lining by builder.

If sill is screwed to structure seal the screw head to sill.

Timber flooring

- Fixings at 450mm maximum centres. These centres would be reduced in high wind load areas.

Floor joist

Jamb

- Fixings at 450mm maximum centres. These centres would be reduced in high wind load areas.
- Caulking

Brickwork

Floor joist

Timber reveal

- Packing by builder
- Stud

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DATE: NOV 09
REPLACES: AUG 03
SCALE: HALF FULL SIZE
Stud opening size = Frame size + 70 (with hardwood sill)

Frame size

Head

12mm Clearance between reveal and header

10mm Clearance between eaves lining and window head.

Quad trim by builder

Caulking

Sill tile

Sill

Brickwork

Flashing

Sill support by builder

Jamb

Brickwork

Caulking

Fixings at 450mm maximum centres. These centres would be reduced in high wind load areas.

Timber reveal

If sill is screwed to structure seal the screw head to sill.

Optional Timber flooring

Floor joist

Fixings at 450mm maximum centres. These centres would be reduced in high wind load areas.

Timber architrave internal lining by builder.

Series 541 Sliding door illustrated

No packing

Timber reveal

Sill support by builder

Packing by builder

Stud

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Installation
Door Building in Details

DATE:  NOV 09
REPLACES:  AUG 03
SCALE:  HALF FULL SIZE
Installation
Door Building in Details

Stud opening size = Frame size + 35

12mm Clearance between reveal and header

10mm Clearance between eaves lining and window head.
Quad trim by builder

Frame size

Stud opening size = Frame size + 56

Sill tile

Sill

Floor slab

Brickwork

Jamb

250mm BRICK VENEER WITH CONCRETE FLOOR SLAB

Series 541 Sliding door illustrated

Timber reveal

No packing

Fixings at 450mm maximum centres. These centres would be reduced in high wind load areas.

Timber architrave internal lining by builder.

Continuous caulking

Carpet or floor tiles

Aluminium angle weather bar, caulked and screwed to floor slab

Screw through the tubular sill at this location and Shims at 450mm max. centres. Seal the screw head to the countersunk recess.

Date: NOV 09
Replaces: AUG 03
Scale: HALF FULL SIZE

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Australian registered design.
Installation
Door Building in Details

250mm BRICK VENEER WITH REBATED CONCRETE FLOOR SLAB

Head

- 12mm Clearance between reveal and header
- 10mm Clearance between eaves lining and window head.
- Quad trim by builder
- Frame size
- Stud opening size = Frame size + 35
- Fixings at 450mm maximum centres. These centres would be reduced in high wind load areas.
- Timber reveal by builder.

Sill

- 130 75
- 75
- Screw through the tubular sill at this location and Shims at 450mm max. centres.
- Seal the screw head to the countersunk recess.
- Continuous caulking

Jamb

- Caulking
- Fixings at 450mm maximum centres. These centres would be reduced in high wind load areas.
- Timber reveal
- Packing by builder
- Stud
280mm CAVITY BRICK WITH REBATED CONCRETE FLOOR SLAB

Head

Mild steel lintel angles
Cavity block at 900mm centres

Caulking
Sill tile

Floor slab

Sill

Opening size = Frame size + 6
Frame size

Internal brick wall
Cement render

Sill tile

Continuous caulking

Screw through the tubular sill at this location and Shims at 450mm max. centres. Seal the screw head to the countersunk recess.

Jamb

Extruded aluminium adjustable storm mould with clips at 450mm maximum centre.

Brick wall

Cement render

Brick wall

Building-in lugs at 450mm maximum centres. These centres would be reduced in high wind load areas.
280mm CAVITY BRICK WITH REBATED CONCRETE FLOOR SLAB

Head

Mild steel lintel angles
Cavity block at 900mm centres

Tubular high water resistance sill
Caulking
Important Note: Don’t seal over drainage holes

Sill

Floor slab
160
75

Screw through the tubular sill at this location and Shims at 450mm max. centres.
Seal the screw head to the countersunk recess.

Continuous caulking

Extruded aluminium adjustable storm mould with clips at 450mm maximum centre.

Jamb

Brick wall

Internal brick wall
Cement render

Series 541 Sliding door illustrated
High performance sump sill illustrated.

Carpet or Floor tiles

Brick wall

Frame size
Opening size = Frame size + 6

DATE: NOV 09
REPLACES: AUG 03
SCALE: HALF FULL SIZE

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LOAD BEARING MULLION

Any 50mm Vantage window
- Series 501-504 Sliding window
- Series 514 Double-hung window
- Series 516 Awnings/Fixed

Any 102mm Vantage frame
- Series 541 Sliding door.
- Series 542 DStacker™ door.
- Series 618 MAGNUM™ Sliding Door
- Series 517 Awnings/Fixed.
- Series 548 Hinged door/Bi-fold door/Fixed.
- Series 525 Louvres.

Note:
Load bearing 76mm diameter mild steel column can be fitted inside the aluminium coupler, the strength of the steel column would depend on the load it has to carry and would be specified by the structural engineer.

Adjoining windows still have to comply with Section 5 of AS1288 and will require grade ‘A’ safety glass if they fall within 300mm of the door opening.

CAD file: DWG or DXF
VAN_COUPLERS

CAD drawings in DXF and DWG format can be found on the WEB. In this case the file name is VAN_COUPLERS.
LOAD BEARING MULLION

180° Load Bearing Door to Door or Door to Window Coupler into Brick Veneer Wall - Layout Detail

\[
\text{Stud Opening Size} = \text{Door W} + \text{Window W} + 158 \text{ mm}
\]

Timber reveal

76 mm dia. mild steel load bearing mullion

Extruded aluminium cover 42066 with 81022.

\[
\text{Brick Opening Size} = \text{Door W} + \text{Window W} + 79 \text{ mm}
\]
**DOOR TO WINDOW 135° VERTICAL COUPLER**

102mm 135° Bay Coupler

This coupler has been designed to join together 102mm windows and doors or 102mm door on one face and a 50mm window on the other without screws or rivets. Both of these details are shown in full size on the next couple of pages.

When you are laying out the bay arrangement remember to allow the 45mm at the corners for the couplers.

This coupler is designed to wrap around a steel load bearing posts shown below. Maximum post size 50.8mm (2").

If the bay is installed without steel posts the assembly is non-load bearing (it can’t be used to support the building above).

Coloured images of this detail can be viewed on our web site: [www.vantagealuminium.com.au](http://www.vantagealuminium.com.au)
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DOOR TO WINDOW 135° VERTICAL COUPLER

Any 50mm Vantage window
• Series 501-504 Sliding window
• Series 514 Double-hung window
• Series 516 Awnings/Fixed

Any 102mm Vantage frame
• Series 541 Sliding door:
• Series 542 DStacker™ door:
• Series 618 MAGNUM™ Sliding Door
• Series 517 Awnings/Fixed:
• Series 548 Hinged door/Bi-fold door/ Fixed:
• Series 525 Louvres.

Optional 51mm mild steel load bearing column

Seal the door and window jamb to coupler at nailing fin location with continuous concealed foam tape or small joint caulking.

CAD file: DWG or DXF
VAN_COUPLERS

CAD drawings in DXF and DWG format can be found on the WEB. In this case the file name is VAN_COUPLERS.

Note:
Load bearing 51mm diameter mild steel column can be fitted inside the aluminium coupler, the strength of the steel column would depend on the load it has to carry and would be specified by the structural engineer.
Any 102mm Vantage window
- Series 517 Awnings/Fixed
- Series 548 Hinged door/Fixed

Note:
Load bearing 51mm diameter mild steel column can be fitted inside the aluminium coupler, the strength of the steel column would depend on the load it has to carry and would be specified by the building engineer.

Adjoining windows still have to comply with Section 5 of AS1288 and will require grade 'A' safety glass if they fall within 300mm of the door opening.
DOOR TO WINDOW 135° VERTICAL COUPLER

Typical bay layout (using the 102mm couplers 42026)

Stud Opening Size =
- \( C + 1064\)mm when wing windows are 610mm
- \( C + 1488\)mm when wing windows are 910mm

Front Bay Wall Size = \( C + 170\)mm

Brick Opening Size =
- \( C + 1026\)mm when wing windows are 610mm
- \( C + 1450\)mm when wing windows are 910mm

Overall Brick Bay Size =
- \( C + 1122\)mm when wing windows are 610mm
- \( C + 1546\)mm when wing windows are 910mm

Important Setout Note: The inner face of the outer bay skin meets at this corner.

Note:
The above layout suits the 102mm bay coupler (42026) with 102mm windows or doors on the front and any of the 102mm windows or doors on the wings.
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DOOR TO WINDOW 90° VERTICAL COUPLER

Vantage Series 541 sliding door

Vantage Series 517 awning window

Optional 76mm mild steel load bearing column

Seal the door and window jamb to coupler at nailing fin location with continuous concealed foam tape or small joint caulk.

Note:
Load bearing 76mm diameter mild steel column can be fitted inside the aluminium coupler, the strength of the steel column would depend on the load it has to carry and would be specified by the structural engineer.

Adjoining windows still have to comply with Section 5 of AS1288 and will require grade 'A' safety glass if they fall within 300mm of the door opening.

CAD file: DWG or DXF  VAN_COUPLERS

CAD drawings in DXF and DWG format can be found on the WEB. In this case the file name is VAN_COUPLERS.
102mm to 102mm 90° Coupler

This coupler has been designed to couple together 102mm windows and doors or 102mm door on one face and a 50mm window on the other without screws or rivets. This detail is shown in full size on the previous page.

When you are laying out the bay arrangement remember to allow the 102mm at the corners for the couplers.

This coupler is designed to wrap around a steel load bearing posts shown below. Maximum post size 76.2mm (3").

If the corner is installed without steel posts the assembly is non-load bearing (it can't be used to support the building above).

Coloured images of this detail can be viewed on our web site: [www.vantagealuminium.com.au](http://www.vantagealuminium.com.au)
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SLIDING DOOR TO WINDOW 90° VERTICAL COUPLER

Typical 90° Corner layout (using the 102mm couplers 42022)

Note:
The above layout suits the 102mm bay 90° (42022) with 102mm windows or doors on the front and any of the 50mm windows or 102mm windows or doors on the wings.
Door Building in Details

DOOR TO WINDOW 90° VERTICAL COUPLER

Typical 90° Double Corner layout (using the 102mm couplers 42022)

Stud Opening Size =
- 104mm with 250mm brick veneer wall
- 54mm with 225mm brick veneer wall

Overall Brick Projection =
R + 198mm with 250mm brick veneer wall or 225mm brick veneer wall construction

Brick Opening Size =
X + 166mm with 250mm brick veneer wall or 225mm brick veneer wall construction

Also available:
We can offer a 180° coupler that will wrap around steel columns as shown below.

Note:
If the corner coupler is used without a steel load bearing column the assembly won’t be load bearing.

This detail above left shows how these couplers can be used to join 102mm windows to each other.
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102mm HEAVY DUTY ‘T’ COUPLER

Mullion Ratings (Pa)

- **S** = Serviceability limit state (deflection = L/150).
- **U** = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties. Ultimate strength rating has been limited to 4500 Pa.

Any 102mm Vantage frame
- Series 541 Sliding door.
- Series 542 DStacker™ door.
- Series 618 MAGNUM™ Sliding door
- Series 517 Awnings/Fixed.
- Series 548 Hinged door/Bi-fold door/Fixed.
- Series 525 Louvres.
- Series 601 sliders.
- Series 613 double-hung
- Series 616 awnings

Wind Ratings (Pa) Mullion coupler 42030 with awning jamb 16111 and door jamb 42005.

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<th>Frame Height mm</th>
<th>Widths Window mm</th>
<th>Widths Door mm</th>
<th>Mullion Ratings (Pa)</th>
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<td></td>
<td>1314 1972</td>
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</table>

Series 541, 542 or 618 sliding doors coupled to Series 517 or 616 awnings.

This coupler will also join Series 525 Louvres to Series 541, 542 or 618 sliding doors sliding doors as illustrated above.

Series 548 Hinged door frame coupled to another Series 548 frame.
102mm HEAVY DUTY ‘I’ COUPLER

102mm to 102mm 180° Coupler

This coupler has been designed to join together 102mm windows and doors without screws or rivets. A full size detail of the assembly is shown on the previous page. This coupler won’t clip 102mm frames to 50mm frames (use 42024).

When you are calculating the window/door sizes remember to allow the 2mm for the couplers.

This assembly is non-load bearing (it can’t be used to support the building above).

Coloured images of this detail can be viewed on our web site:
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DOOR TO WINDOW TRANSOM COUPLER

Door to Window highlight coupler
\( I_{xx} = 775 \times 10^3 \text{mm}^4 \)

Fixed over sliding door

Continuous bead of small joint caulking or 1.60mm thick closed cell foam tape.

Window and door jambs factory notched to allow the highlight coupler to run through.

CAD file: DWG or DXF

<table>
<thead>
<tr>
<th>Frame Width (mm)</th>
<th>Height Window (mm)</th>
<th>Height Door (mm)</th>
<th>Transom Ratings (Pa)</th>
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<td>3175</td>
<td>900</td>
<td>2100</td>
<td>605 907</td>
</tr>
<tr>
<td>3589</td>
<td>900</td>
<td>2100</td>
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</tr>
<tr>
<td>3625</td>
<td>900</td>
<td>2100</td>
<td>Blank 859</td>
</tr>
</tbody>
</table>

Transom Ratings (Pa)
\( S \) = Serviceability limit state (deflection = \( L/150 \)).
\( U \) = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties.
Ultimate strength rating has been limited to 4500 Pa.
2200 Serviceability ratings were restricted by the maximum water resistance (300Pa) achieved on the Series 541 sliding door.
Blank Denotes rating under 500 Pa.

Wind Ratings (Pa) Transom coupler 42025 with slider sill 10002 and door head 42001.
DOOR TO WINDOW TRANSOM COUPLER

42025 Highlight Coupler

This coupler will allow any of the Vantage 50mm windows to be coupled over Series 541 or 542 sliding doors. It can also be used over Series 548 French and hinged doors.

This option allows the 50mm frame to be used as a highlight over doors. This includes the sliding window as illustrated plus awning, casement and fixed windows.

There are limitations on the strength, refer table on the previous page.

Transom is sealed on the nailing fin line for maximum weatherproofing and there is no unsightly caulking visible on external or internal faces.

For full height high performance sliding doors consider using MAGNUM™ Series 618 Sliding Doors

Series 541 sliding door illustrated

Coloured images of this detail can be viewed on our web site: www.vantagealuminium.com.au

Internal view
Installation
Door Building in Details

DOOR TO WINDOW TRANSOM COUPLER

CAD file: DWG or DXF

VAN_COUPLERS

Continuous small joint caulking applied to transom at this location.

Frame Width Window Door Transom Ratings (Pa)

<table>
<thead>
<tr>
<th>Width</th>
<th>Window</th>
<th>Door</th>
<th>S</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>1810</td>
<td>600</td>
<td>2100</td>
<td>3000</td>
<td>4500</td>
</tr>
<tr>
<td>2110</td>
<td>600</td>
<td>2100</td>
<td>1939</td>
<td>2908</td>
</tr>
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<td>2410</td>
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<td>2100</td>
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<td>2058</td>
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<td>2725</td>
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<td>2100</td>
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<td>1526</td>
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<td>3175</td>
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<td>3625</td>
<td>600</td>
<td>2100</td>
<td>507</td>
<td>797</td>
</tr>
</tbody>
</table>

Ultimate strength rating has been limited to 4500 Pa.

Wind Ratings (Pa) Transom 16112 with 42001.

Transom Ratings (Pa)

S = Serviceability limit state (deflection = L/150).

U = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties.

Ultimate strength rating has been limited to 4500 Pa.
DOOR TO WINDOW TRANSOM COUPLER

16112 Highlight Coupler

The Series 517 awning male frame section (16112) snaps directly to Series 541 sliding door to create a highlight window as detailed right.

The main feature with this option is that the 102mm frame lines through with the door frame under.

There are limitations on the strength, but if this is a problem use the 42027 coupler shown on the following pages.

Transom is sealed on the nailing fin line for maximum weatherproofing and there is no unsightly caulking visible on external or internal faces.

Splayed fixed light beads prevent water/dust build-up.

For full height high performance sliding doors consider using MAGNUM™ Series 618 Sliding Doors

Series 541 sliding door illustrated

Coloured images of this detail can be viewed on our web site: www.vantagealuminium.com.au

Internal view
Installation
Door Building in Details

DOOR TO WINDOW BOX TRANSOM COUPLER

Door to Window H.D. box highlight coupler

I_xx = 2558 x 10^4 mm^4

Continuous bead of small joint caulking.

Custom heavy duty door transom coupler

42027

Wind Ratings (Pa) Transom coupler 42027 with fixed sill 16111 and door head 42001.

<table>
<thead>
<tr>
<th>Frame Width (mm)</th>
<th>Heights (mm)</th>
<th>Transom Ratings (Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Window</td>
<td>Door</td>
</tr>
<tr>
<td>3000</td>
<td>300 2100</td>
<td>2952 4428</td>
</tr>
<tr>
<td>3300</td>
<td>300 2100</td>
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<tr>
<td>3600</td>
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<td>4200</td>
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<td>707 1427</td>
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<tr>
<td>4800</td>
<td>900 2100</td>
<td>578 1246</td>
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</table>

Transom Ratings (Pa)
S = Serviceability limit state (deflection = L/150).
U = Ultimate strength limit state (factored yield strength = 104 MPa).

Ultimate strength rating has been limited to 4500 Pa.

These tables have been calculated using nominal section properties.
42027 Heavy Duty Highlight Coupler

This heavy duty tubular box section will allow any of the Vantage 102mm windows to be coupled over Series 541, or 542 sliding doors without screws or rivets. It can also be used over Series 548 French and hinged doors.

The main feature with this option is strength and that the 102mm frame lines through with the door frame under.

This is a very strong transom coupler but remember there are still limitations on the strength, refer table on the previous page.

Transom is sealed on the nailing fin line for maximum weatherproofing and there is no unsightly caulking visible on external or internal faces.

Splayed fixed light beads prevent water/dust build-up.

Internal view

Series 541 sliding door illustrated

For full height high performance sliding doors consider using MAGNUM™ Series 618 Sliding Doors

Coloured images of this detail can be viewed on our web site: www.vantagealuminium.com.au
Installation
Door Building in Details

SERIES 517 WINDOW CLIPPED TO HINGED DOOR

Mullion Ratings (Pa)

S = Serviceability limit state (deflection = L/150).
U = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties.
Ultimate strength rating has been limited to 4500 Pa.

Hinged door to Window non-load bearing coupler

Wind Ratings (Pa) Mullion coupler 16112 snapped to hinged door jamb 51039.

The Series 517 awning has been illustrated. But Series 525 Louvres will also snap to hinged doors.

Continuous concealed bead of small joint caulking

Glass thickness to comply with AS1288, paying particular attention to Section 5 Human Impact.

Series 548 French doors.

Snap together weatherproof mullion
Installation
Door Building in Details

SERIES 517 WINDOW CLIPPED TO SLIDING DOOR

38 x 6# Pan head self tapping spline screws 91011.

Continuous small joint caulking applied to mullion at this location.

Closed cell foam glazing tape.

Glass thickness to comply with AS1288, paying particular attention to Section 5 Human Impact.

Transom Ratings (Pa)

S = Serviceability limit state (deflection = L/150).

U = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties.

Ultimate strength rating has been limited to 4500 Pa.

Wind Ratings (Pa) Mullion 16112 with 42005:

<table>
<thead>
<tr>
<th>Frame Height mm</th>
<th>Window Width mm</th>
<th>Door Width mm</th>
<th>Mullion Ratings (Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100</td>
<td>600</td>
<td>1810</td>
<td>S 1546 U 2319</td>
</tr>
<tr>
<td>2100</td>
<td>600</td>
<td>2110</td>
<td>S 1516 U 2274</td>
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<td>S 1516 U 2274</td>
</tr>
<tr>
<td>2100</td>
<td>900</td>
<td>1810</td>
<td>S 1363 U 2044</td>
</tr>
<tr>
<td>2100</td>
<td>900</td>
<td>2110</td>
<td>S 1340 U 2010</td>
</tr>
<tr>
<td>2100</td>
<td>900</td>
<td>2410</td>
<td>S 1340 U 2010</td>
</tr>
</tbody>
</table>
Installation
Door Building in Details

SLIDING DOOR TO WINDOW COUPLER

Door to Window

\( I_{xx} = 865 \times 10^3 \text{mm}^4 \)

Important Note:
This non-load bearing coupler can't be used to support building structure.

Continuous bead of small joint caulking or 1.60mm thick closed cell foam tape.

Mullion Ratings (Pa)

\( S \) = Serviceability limit state (deflection = L/150).
\( U \) = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties. Ultimate strength rating has been limited to 4500 Pa.

<table>
<thead>
<tr>
<th>Frame Height (mm)</th>
<th>Width Window (mm)</th>
<th>Width Door (mm)</th>
<th>Mullion Ratings (Pa)</th>
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<td>1810</td>
<td>1581 2371</td>
</tr>
<tr>
<td>2100</td>
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</tr>
<tr>
<td>2400</td>
<td>2110</td>
<td>2410</td>
<td>998 1497</td>
</tr>
</tbody>
</table>

Wind Ratings (Pa) Mullion coupler 42024 with slider jamb 10015 and door jamb 42005.
102mm to 50mm 180° Coupler

This coupler has been designed to join 102mm doors to 50mm windows without screws or rivets. A full size detail of the assembly is shown on the previous page.

When you are calculating the window/door sizes remember to allow the 20mm for the couplers.

This assembly is non-load bearing (it can’t be used to support the building above).

Coloured images of this detail can be viewed on our web site:

www.vantagealuminium.com.au
**LONGREACH FRAME EXTENDERS**

**X2** Frame Extender on sides only
Series 541 sliding door frames can be fabricated with the adaptor on both sides.

**X3** Frame Extender on sides & head
Series 541 sliding door frames can be fabricated with the adaptor on both sides and the head.

Seal nailing fin leg to extender.
'Longreach' Frame Extender

You may want to fit a wider jamb:

- When the inner wall is going to be rendered or tiled and the standard jamb would be buried.
- You are using a special colour and the customer wants to see what they are paying for.
- 'Paddington' Federation trims are going to be fitted on the outside.
- Type 'X2 Longreach' extenders illustrated - Trims on sides only (no trims on head).
HOMEBUSH FRAME EXTENDERS

**H2** Frame Extender on sides only
Series 541 sliding door frames can be fabricated with the adaptor on both sides.

**HL3** Frame Extender on sides & head
Series 541 sliding door frames can be fabricated with the 'Homebush' adaptor on both sides and the 'Longreach' adaptor on the head, as illustrated top right.

Seal nailing fin leg to extender.

Series 541 Sliding door
Standard 10mm frame and Special 15mm Wide jamb shown dotted

35mm
'Homebush' Frame Extender

There may be situations where you want very wide frames:

- When you want a frame basically the size of commercial.
- 'Paddington' Federation trims can be snapped to 'Homebush extenders.'
- Type 'H2 Homebush' extenders illustrated - Trims on sides only (no trims on head).
Installation
Door Building in Details

‘PADDINGTON’ FRAME FEDERATION TRIMS

X2P  ‘Paddington’ trims and frame Extender on sides only
Series 541 sliding door frames can be fabricated with the adaptor and trims on both sides.

X3P  ‘Paddington’ trims and frame Extender on sides & head
Series 541 sliding door frames can be fabricated with the adaptor and trims on both sides and head
'Paddington' Trim

This Federation external trim can be clipped to the sliding doors as detailed.

- The trim clips to the 'Longreach' frame extender which snaps to the door.
- Trims can be painted to match the frame or another colour as a contrast.
- 'Paddington’ trims can also be fitted to most of the other Vantage products.

Coloured images of this detail can be viewed on our web site: www.vantagealuminium.com.au
Installation
Door Building in Details

102mm EXTERNAL FLANGE ADAPTOR

102mm External Flange (EF) Trims
Designed for the replacement door market. When you are fitting a (102mm wide frame) door into a room enclosure, and you want the window on the external perimeter of the wall.

Series 541 sliding door illustrated.

Note:
With the centre nailing fin on door frame broken off. The door frame is sealed to EF trims at this location with continuous closed cell foam tape.
On Series 541 the trim will only clip to head and jambs.

Coloured images of this trim can be viewed on our web site:
www.vantagealuminium.com.au
102mm Jamb Closer

Allows you to fit 102mm doors or 102mm wide window frames into patio room enclosures.

Cutting formula:
Same length as door frame height.

On Series 541 the trim will only clip to head and jambs.

Series 541 Sliding door illustrated.

Continuous bead of caulking both sides of post.

Continuous concealed foam tape seal.
**Installation**

**Door Building in Details**

**VERTICAL SECTION THROUGH CAVITY BRICK & CONCRETE SLAB**

- **Bi-Fold Door**
  - **Head**
  - **Sill**
  - **Cement render**
  - **Mortar key @ 900mm approximate centres keeps the head in position.**

**Note**

Ensure that there is no external obstruction that will clash with the opening of the door panels.

Fit rigid PVC sill protector over running rails during construction.

**Optional chair rails, 68mm or 122mm as drawn.**

**Alternative square internal threshold available.**

**Snap-in splayed aluminium threshold fitted after the sill is screwed to slab.** Apply protective tape to threshold which will be removed by builder just before hand over.

**Screw sill to slab @ 900mm maximum centres.** Shims should be fitted @ 450mm max centres or closer on heavy double glazed doors to prevent the sill from dishing under roller load.

**Floor finish carpet or tiles**

**Recess in concrete floor slab to allow the sill to be recessed as drawn.**

**Waterproof membrane with turned up ends applied by builder.**

**PVC sill flap**

**CAD file: DWG or DXF**

VAN_548

**DATE:** NOV 09

**REPLACES:** AUG 03

**SCALE:** NOT TO SCALE

© Architectural Window Systems Pty Ltd 2009
**Vertical Section Through Brick Veneer & Timber Floor**

**Bi-Fold Door**

**Note**
Ensure that there is no external obstruction that will clash with the opening of the door panels. This could include light fittings and or sloping eaves lining.

Fit rigid PVC sill protector over running rails during construction.

**Head**

Timber reveal

Nail reveal to header without shims @ 450mm maximum centres, this spacing will reduce in higher wind load areas.

**Eaves lining**

**Head sill**

Optional chair rails, 68mm or 122mm as drawn.

**Sill**

Screw sill to timber floor @ 900mm maximum centres. Shims should be fitted @ 450mm max. centres or closer on heavy double glazed doors to prevent the sill from dishing under roller load.

Drain holes in and out of tube sill.

Alternative square internal threshold available.

Snap-in splayed aluminium threshold fitted after the sill is screwed to slab, apply protective tape to threshold which will be removed by builder just before hand over.

Floor finish carpet or tiles

PVC sill flap

Flashing by builder

**CAD file:** DWG or DXF

VAN_548

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Installation
Door Building in Details

VERTICAL SECTION THROUGH CAVITY BRICK & CONCRETE SLAB

Head

Cement render
Mortar key @ 900mm approximate centres keeps the head in position.

Note
Ensure that there is no external obstruction that will clash with the opening of the door panels.
Fit rigid PVC sill protector over running rails during construction.

Run floor finish over sill and up to the weather leg.
Drain holes in and out of tube sill.
Screw sill to slab @ 900mm maximum centres. Shims should be fitted @ 450mm max. centres or closer on heavy double glazed doors to prevent the sill from dishing under roller load.

Floor finish carpet or tiles (19mm maximum thickness).

Recess in concrete floor slab to allow the sill to be recessed as drawn.

Waterproof membrane with turned up ends. Applied by builder.

PVC sill flap

Bi-Fold Door

Optional chair rails, 68mm or 122mm as drawn.
VERTICAL SECTION THROUGH RECESSSED FLOOR TRACK

Bi-Fold Door Restaurant Sill designed for high traffic areas

When the doors are opened there is an optional filler channel to close the roller cavity.

Note
Ensure that there is no external obstruction that will clash with the opening of the door panels.

Fit a length of extruded aluminium sill infill channel into the recessed track during construction.

This recessed track fitted with extruded aluminium channel infill when doors are in the open position. This keeps high heels and rubbish out of the recess.

Adjoining fixed sill (if applicable)

Important Note
The size and location of the recess in concrete is critical to the correct positioning of the frame.

Most Important
This sill treatment is not water resistant and is only suitable for applications where there is no exposure to the weather.
Installation

Door Building in Details

HORIZONTAL SECTION THROUGH JAMB FIXING DETAILS

**Bi-Fold Door**

**Brick veneer construction**
Timber reveal nailed to stud @ 450mm maximum centres, this dimension will reduce in higher wind load areas. Shim under reveal at fixing points.

If required the reveal can be double screwed to frame in this location.

**Cavity brick construction**
Galvanised mild steel building-in lugs @ 450mm maximum centres, this will reduce in higher wind load areas.

Extruded adjustable aluminium storm mould 10036 secured to frame with rigid PVC clips @ 450mm maximum centres.

**Note**
If storm moulds are used on Bi-fold doors make sure the bottom roller carriage doesn’t clash with the trim.
Cavity brick construction
Galvanised mild steel building-in lugs @ 450mm maximum centres, this will reduce in higher wind load areas.

Extruded 'Paddington' trim snaps direct to the Series 548 hinged door frame (open in or out).

Note
This trim would also clip to the Bi-fold door frame, but the bottom roller carriage would crash into the trim on those configurations where a wheel occurs on the last panel (i.e. BFD2, BFD4 and BFD6).

Cavity brick construction
Galvanised mild steel building-in lugs @ 450mm maximum centres, this will reduce in higher wind load areas.

Extruded adjustable aluminium storm mould 10036 secured to frame with rigid PVC clips @ 450mm maximum centres.
HEAVY DUTY TRANSOM WITH FIXED HIGHLIGHT

Bi-Fold Door

102mm Awning or fixed lights in Series 517 framing

Seal the box stiffener to both frames at nailing fin position with concealed single sided foam tape.

Standard 15mm wide frame

Special 32mm wide frame using the longreach frame extender

Highlight Jamb alternatives

102mm Bi-fold door or Hinged door frame.

CAD file: DWG or DXF
VAN_548
HEAVY DUTY TRANSOM WITH LOUVRE HIGHLIGHT

S = Serviceability limit state (deflection = L/150).
U = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties.
Ultimate strength rating has been limited to 4500 Pa.

2200 Serviceability ratings were restricted by the maximum water resistance (300Pa) achieved on this product.
Blank Denotes rating under 500 Pa.

Important Note:
The Pascal Ratings listed below cover the strength of the transom only and in most cases this number will be reduced by the rating of the door meeting stiles. Cross section detail through this transom occurs later in these notes.

<table>
<thead>
<tr>
<th>Frame Width m m</th>
<th>Bifold m m</th>
<th>Highlight mm</th>
<th>Transom Ratings (Pa) S</th>
<th>U</th>
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Seal the box stiffener to both frames at nailing fin position with concealed single sided foam tape.

Louvre highlight windows are made with full width louvre window frame. Details on how we create a fixed light in the louvre frame are shown in the Series 525 section.

Adjustable glass louvre window Series 525

102mm Bi-fold door or Hinged door frame.
 Seal the box stiffener to both frames at nailing fin position with concealed single sided foam tape.

Most Important
This is not a load bearing coupler.
### Installer - Fixed Over Magnum™ Sliding Door

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<th>Frame Width (mm)</th>
<th>Heights Window (mm)</th>
<th>Door (mm)</th>
<th>Transom Ratings (Pa)</th>
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**Seal coupler to frame at nailing fin position with closed cell foam tape.**

**Magnum fixed frame illustrated.**