



# Technical Manual theVISION Windows

| Frame & Sills                                                    | Standard colours                                                           |
|------------------------------------------------------------------|----------------------------------------------------------------------------|
|                                                                  | RAL 7016 Anthracite Grey in matt finish                                    |
|                                                                  | DB703 Gun Metal Grey in textured finish                                    |
| Handles<br>(All handles are made from 316 Grade stainless steel) | RAL 9005 Jet Black in matt finish                                          |
|                                                                  | Satin Black                                                                |
|                                                                  | Satin Brass                                                                |
|                                                                  | Anthracite Grey                                                            |
|                                                                  | Stainless steel                                                            |
|                                                                  | (Other colour matched available, price on application, minimum 10 handles) |

| Maximum and Minimum Sash Sizes (mm) (See page 3 for full table) |                                             |           |            |            |
|-----------------------------------------------------------------|---------------------------------------------|-----------|------------|------------|
| Opening Style                                                   | Min Width                                   | Max Width | Min Height | Max Height |
| Side Hung                                                       | 400                                         | 800       | 500        | 1600       |
| Top Hung                                                        | 400                                         | 1700      | 500        | 1500       |
| Fixed                                                           | 300                                         | 3000*     | 300        | 3000*      |
| Angled Fixed                                                    | See drawing on page 12 for minimum upstands |           |            |            |
| Tilt & Turn                                                     |                                             |           |            |            |

\*Larger may be possible, please send enquiry to [info@idsystems.co.uk](mailto:info@idsystems.co.uk)

| Thermal performance     |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|
| Glass thickness Options | Casement = 28mm, 32mm or 40mm<br>Fixed Frames, Tilt & Turns = 28mm, 32mm and 45mm |

| Centre pane                             | Example of glass                                                                                                | Overall U-value             |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1.0 W/m <sup>2</sup> k<br>Double glazed | 4mm clear toughened x<br>20mm Argon x 4mm clear<br>toughened soft coat                                          | from 1.4 W/m <sup>2</sup> k |
| 0.7 W/m <sup>2</sup> k<br>Double glazed | 4mm clear toughened x<br>20mm Argon x 4mm clear<br>toughened CUI Ultra                                          | from 1.2 W/m <sup>2</sup> k |
| 0.5 W/m <sup>2</sup> k<br>Triple glazed | 4mm clear toughened x<br>16mm Argon x 4mm clear<br>toughened x 16mm Argon x<br>4mm clear toughened soft<br>coat | from 1.0 W/m <sup>2</sup> k |

|                     |                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Security<br>Locking | Multipoint espagnolette locking system<br>Double rebated outer frame<br>Key locking handle                                                         |
| Accreditations      | PAS 24:2022 certification<br>Secure By Design™<br>BSI Kitemark<br>(Requires P1a rated glass to adhere to Building Regulations Approved Document Q) |

| Weather performance |                                  |
|---------------------|----------------------------------|
| Water tightness     | 2400 Pa (Class AE) - BS EN 12208 |
| Air permeability    | 600 Pa (Class 4) - BS EN 12207   |
| Wind resistance     | 2000 Pa (Class 5) - BS EN 12210  |

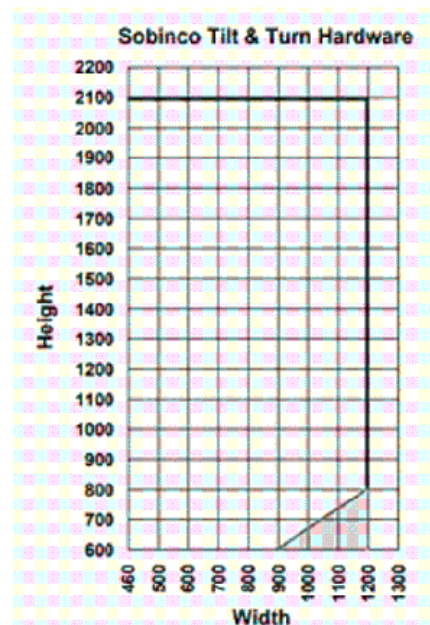
|                                                             |                                                                                                                               |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Trickle Vents                                               | 4000mm <sup>2</sup> & 8000mm <sup>2</sup> airflow                                                                             |
| Sill Options<br>(see page 10<br>for further<br>details)     | 85mm x 25mm                                                                                                                   |
|                                                             | 135mm x 25mm                                                                                                                  |
|                                                             | 150mm x 25mm                                                                                                                  |
|                                                             | 190mm x 25mm                                                                                                                  |
|                                                             | 225mm x 25mm                                                                                                                  |
|                                                             | 300mm x 34mm                                                                                                                  |
| Drainage                                                    | Casements have concealed drainage through the sill, a sill is always required. Fixed and Tilt & Turn frames are face drained. |
| Heritage Style<br>(See page 14<br>for further<br>details)   | 30mm Plant on bar.                                                                                                            |
| Frameless<br>Corner (see<br>page 16 for<br>further details) | Available on fixed frames, glass to glass detail for panoramic views.                                                         |

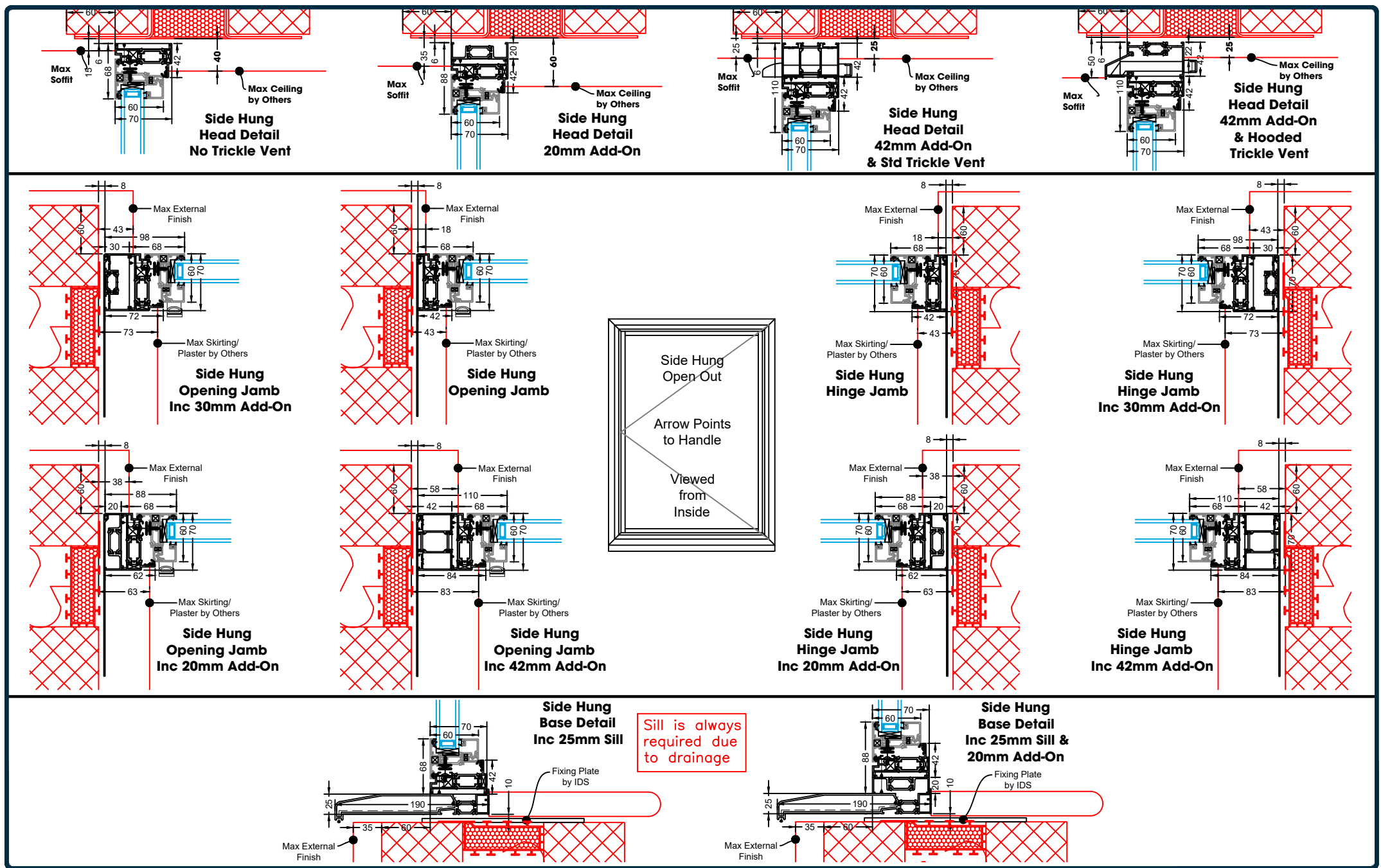
| <b>Standard or Restricted Hinge Side Hung</b>                                  |     |     |     |     |     |     |     |     |     |
|--------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Maximum &amp; Minimum Sash Sizes (mm), with Maximum Glazing Weight (KG)</b> |     |     |     |     |     |     |     |     |     |
| Width<br>Height                                                                | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 500                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 600                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 700                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 800                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 900                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 1000                                                                           | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 1100                                                                           | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 1200                                                                           | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 1300                                                                           | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 40  |
| 1400                                                                           | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 40  | 40  |
| 1500                                                                           | 45  | 45  | 45  | 45  | 45  | 40  | 40  | 35  | 35  |
| 1600                                                                           | 45  | 45  | 45  | 45  | 45  | 40  | 40  | 30  | 30  |

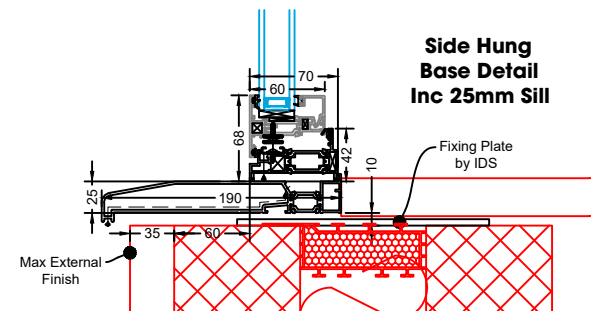
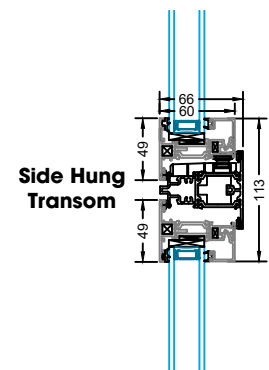
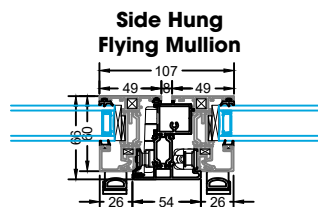
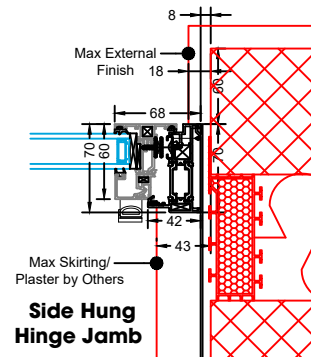
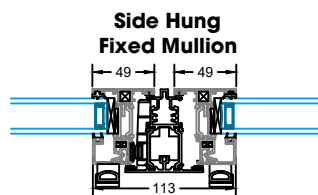
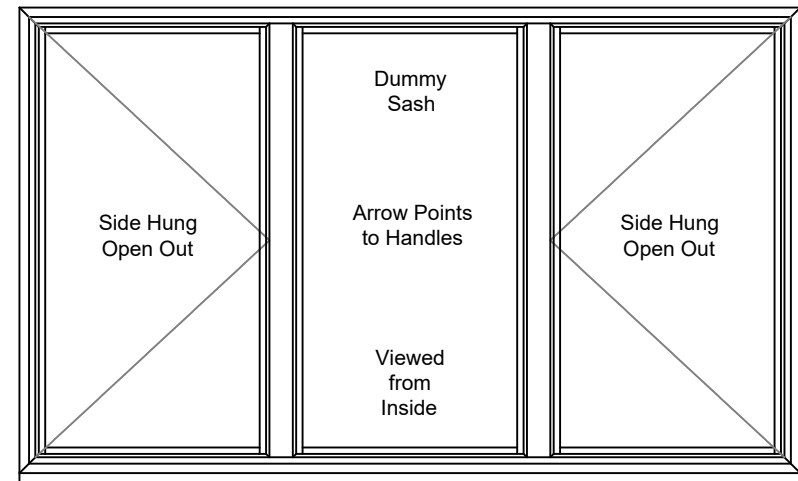
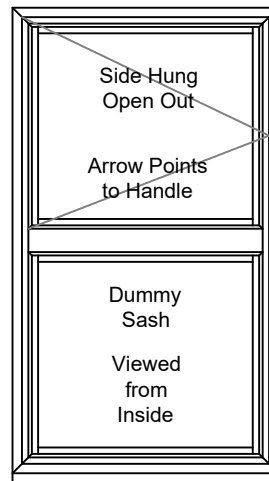
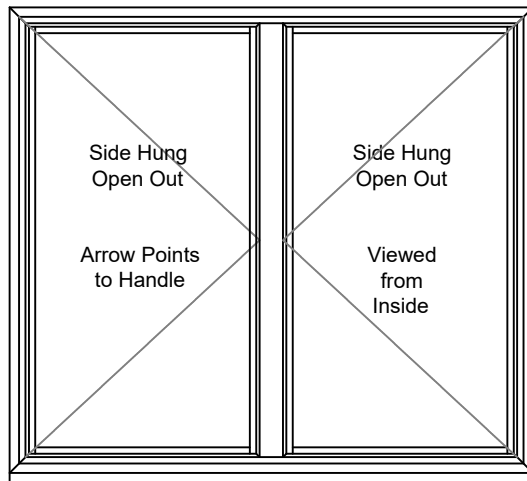
| <b>Standard Or Restricted Hinge- Top Hung</b>                                  |     |     |     |      |      |      |      |      |
|--------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|------|
| <b>Maximum &amp; Minimum Sash Sizes (mm), with Maximum Glazing Weight (KG)</b> |     |     |     |      |      |      |      |      |
| Width<br>Height                                                                | 422 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1700 |
| 500                                                                            | 45  | 45  | 45  | 45   | 45   | 45   | 45   | 45   |
| 600                                                                            | 45  | 45  | 45  | 45   | 45   | 45   | 45   | 45   |
| 700                                                                            | 45  | 45  | 45  | 45   | 45   | 45   | 45   | 45   |
| 800                                                                            | 45  | 45  | 45  | 45   | 45   | 45   | 45   | 45   |
| 900                                                                            | 45  | 45  | 45  | 45   | 45   | 45   | 45   | 45   |
| 1000                                                                           | 45  | 45  | 45  | 45   | 45   | 40   | 45   | 40   |
| 1100                                                                           | 45  | 45  | 45  | 45   | 45   | 40   | 40   | 35   |
| 1200                                                                           | 45  | 45  | 45  | 45   | 45   | 35   | 40   | 35   |
| 1300                                                                           | 45  | 45  | 45  | 40   | 40   | 30   | 30   | 30   |
| 1400                                                                           | 45  | 45  | 45  | 40   | 40   | 30   | 30   | NA   |
| 1500                                                                           | 45  | 45  | 45  | 35   | 35   | 30   | 30   | NA   |
| 1600                                                                           | 45  | 45  | 45  | 30   | 30   | NA   | NA   | NA   |

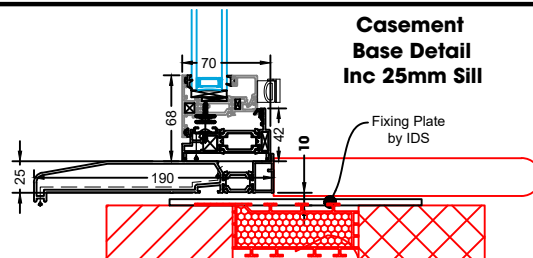
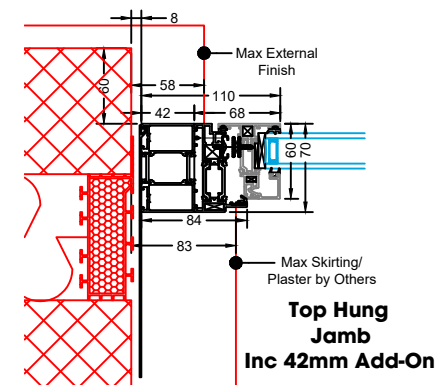
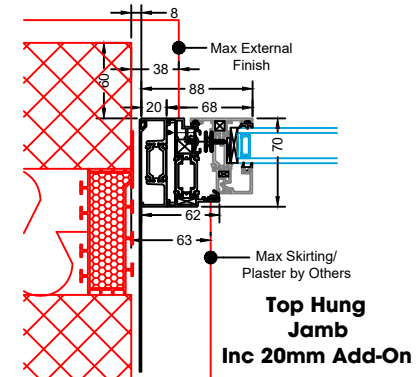
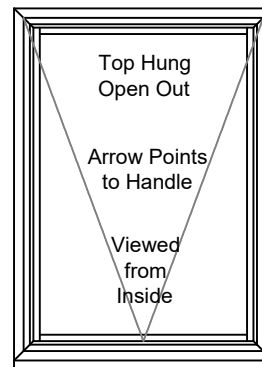
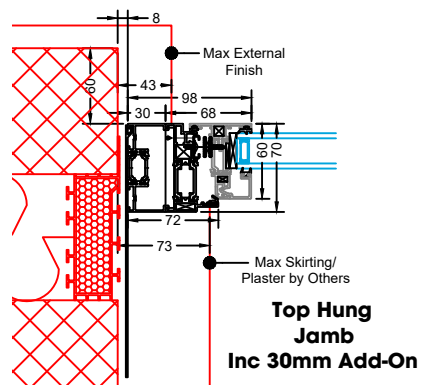
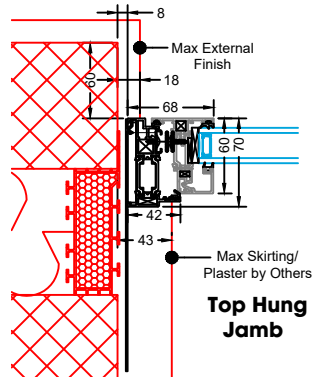
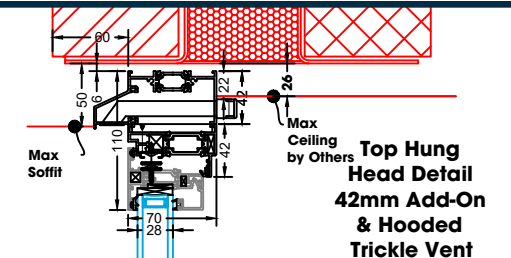
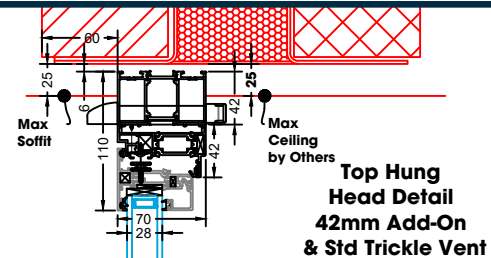
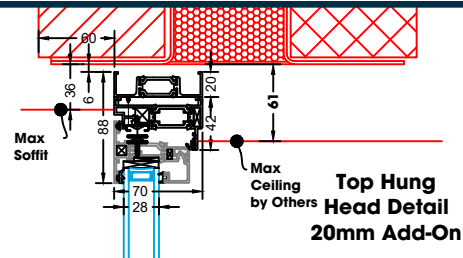
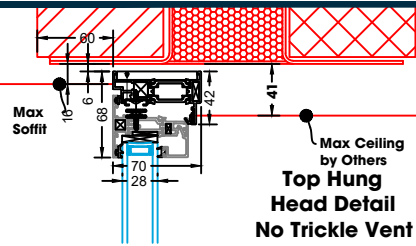
| <b>Egress Hinge Side Hung</b>                                                  |     |     |     |     |     |     |     |     |     |
|--------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Minimum Manufacturing Width for 450mm Clear Opening = 595mm</b>             |     |     |     |     |     |     |     |     |     |
| <b>Minimum Mullion Centre Width for 450mm Clear Opening = 585mm</b>            |     |     |     |     |     |     |     |     |     |
| <b>Maximum &amp; Minimum Sash Sizes (mm), with Maximum Glazing Weight (KG)</b> |     |     |     |     |     |     |     |     |     |
| Width<br>Height                                                                | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 500                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 600                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 700                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 800                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 900                                                                            | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 1000                                                                           | 45  | 45  | 45  | 45  | 45  | 40  | 45  | 40  | 40  |
| 1100                                                                           | 45  | 45  | 45  | 45  | 45  | 40  | 40  | 35  | 35  |
| 1200                                                                           | 45  | 45  | 45  | 45  | 45  | 35  | 40  | 35  | 35  |
| 1300                                                                           | 45  | 45  | 45  | 40  | 40  | 30  | 30  | 30  | 30  |
| 1400                                                                           | 45  | 45  | 45  | 40  | 40  | 30  | 30  | 25  | 25  |
| 1500                                                                           | 45  | 45  | 45  | 35  | 35  | 30  | 30  | 25  | 25  |
| 1600                                                                           | 45  | 45  | 45  | 30  | 30  | 25  | 25  | 20  | 20  |

### Tilt & Turn Minimum/Maximum Sash Sizes

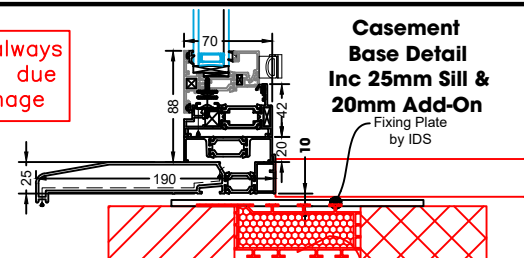


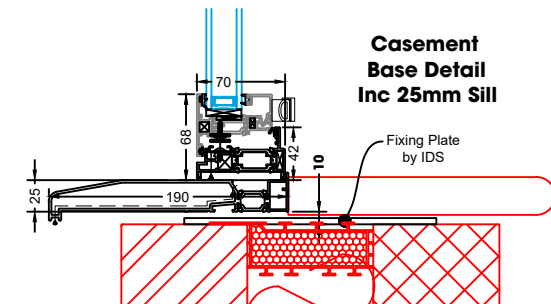
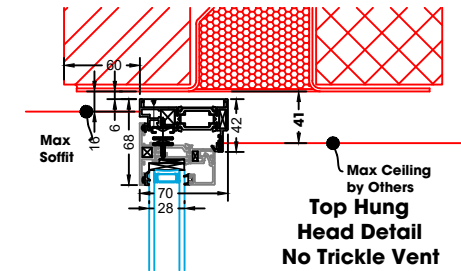
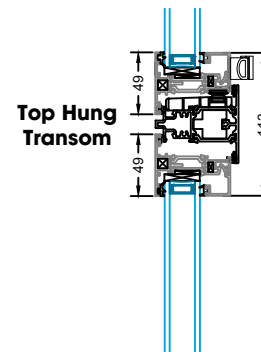
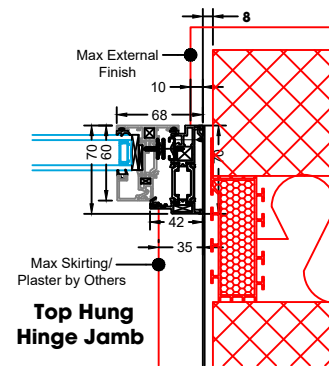
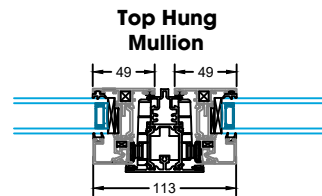
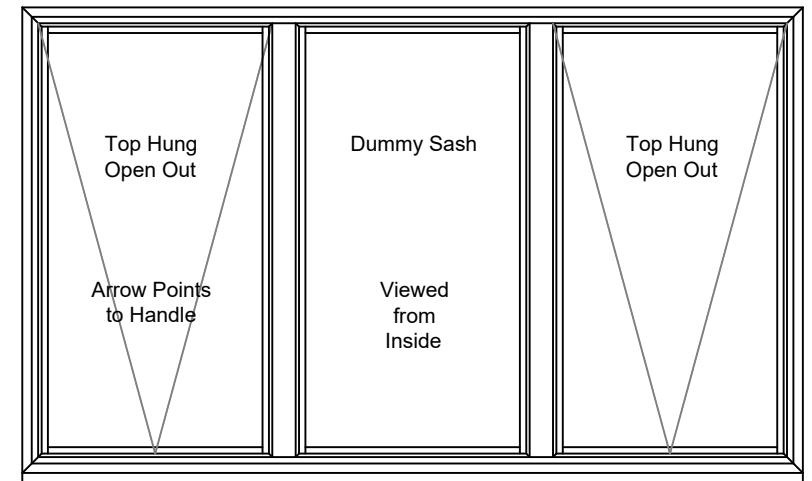
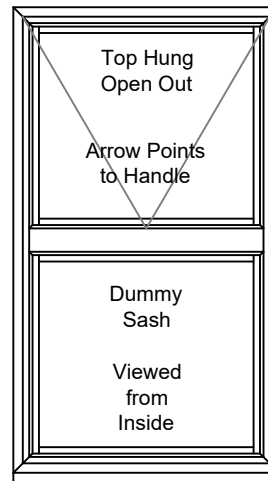
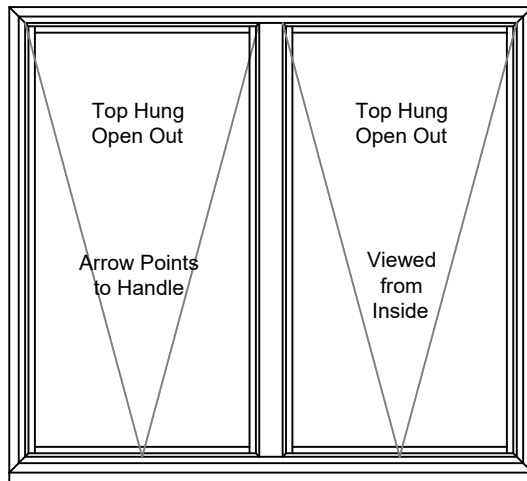


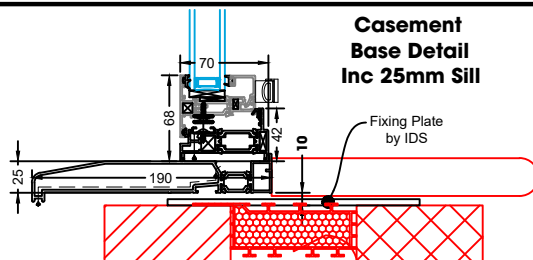
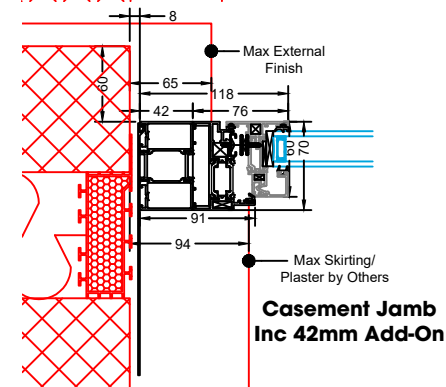
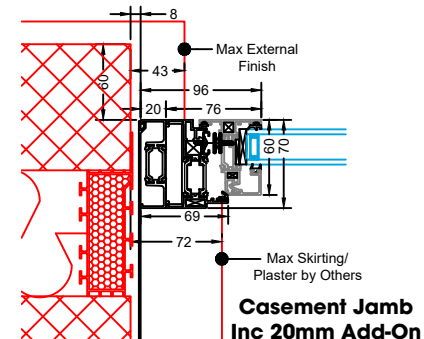
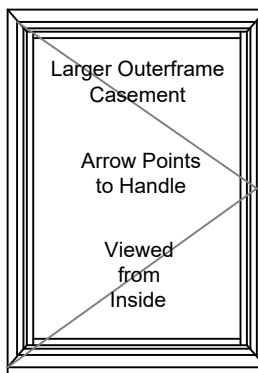
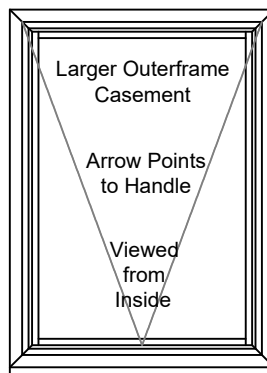
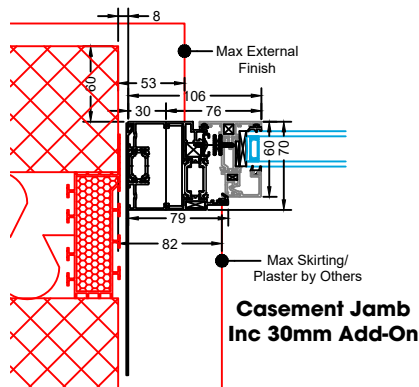
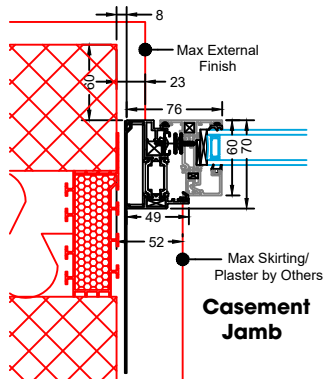
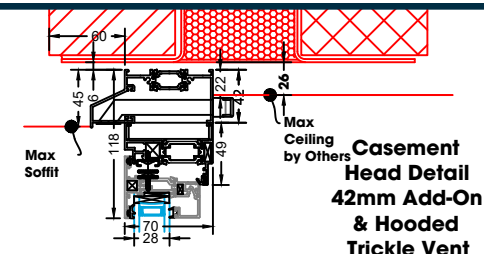
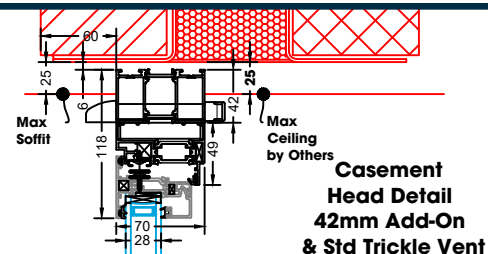
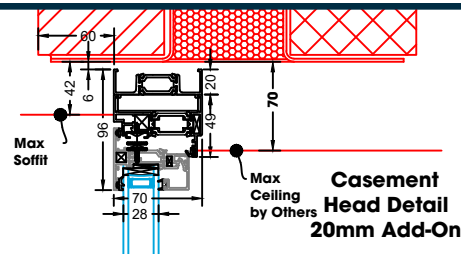
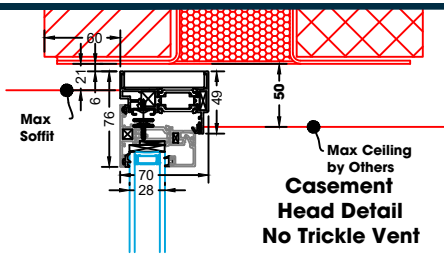




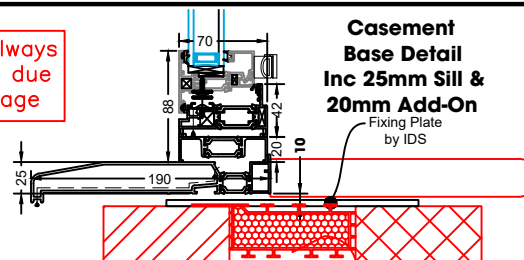
Sill is always  
required due  
to drainage

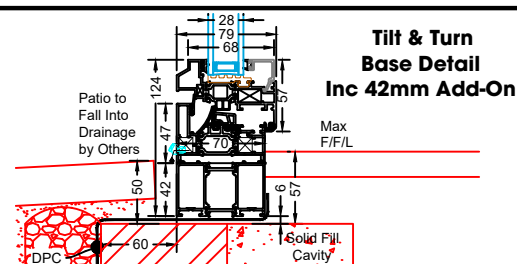
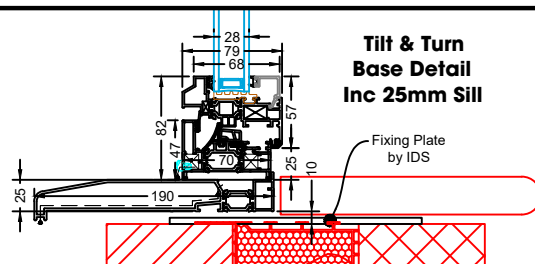
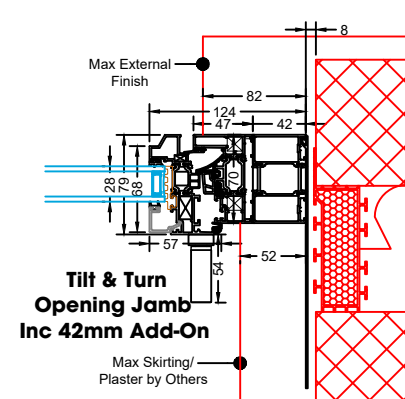
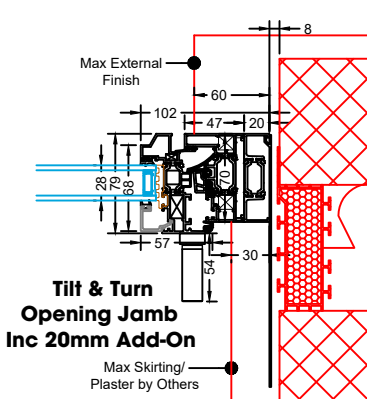
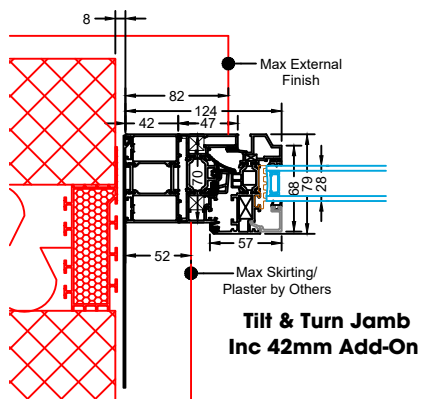
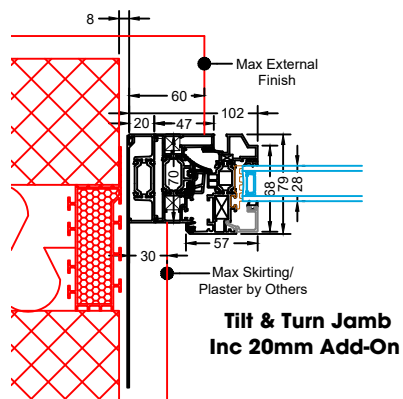
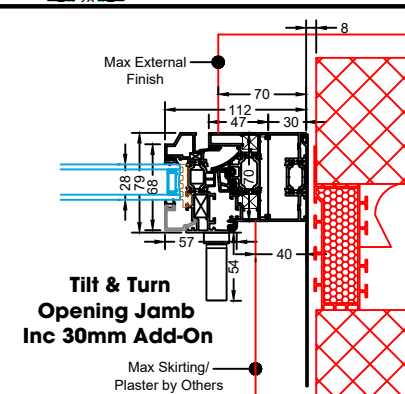
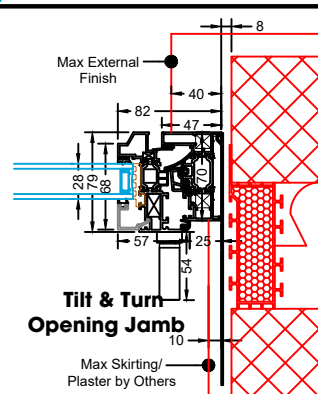
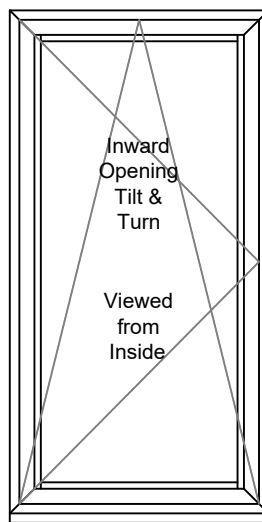
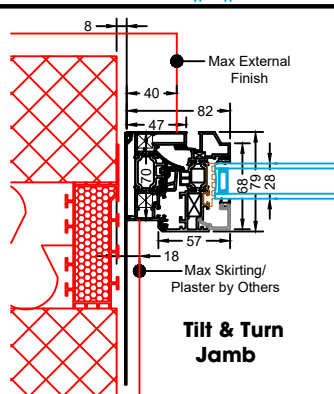
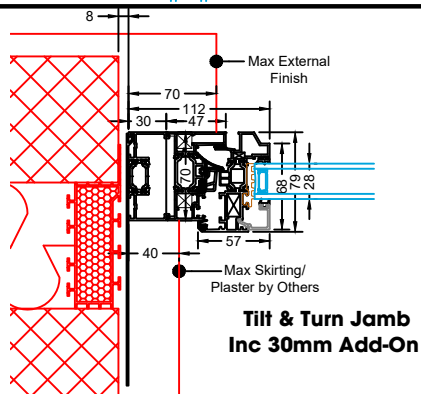
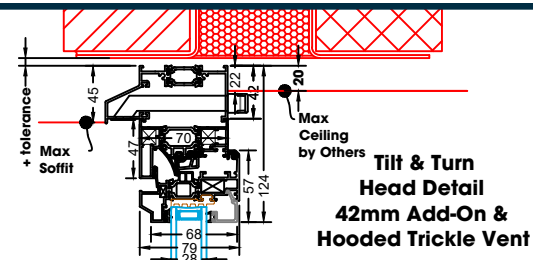
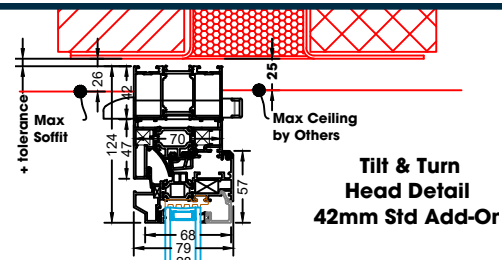
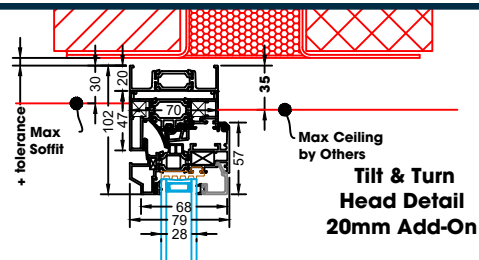
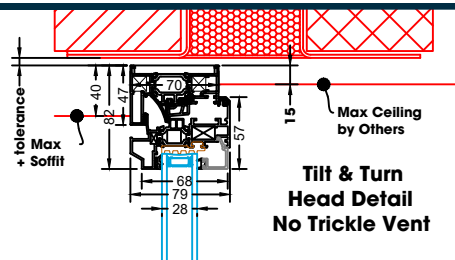


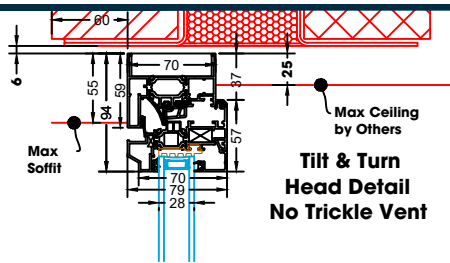




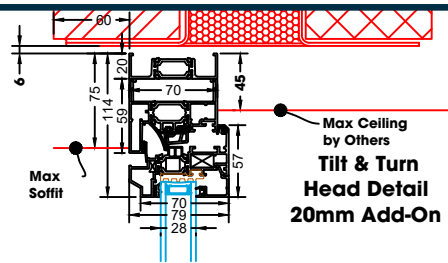
Sill is always required due to drainage



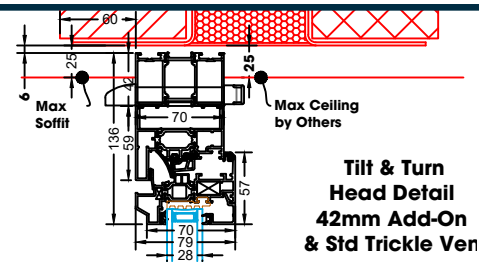




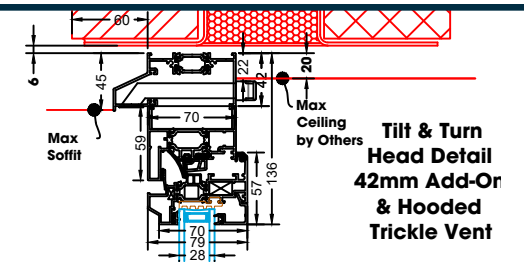
**Tilt & Turn  
Head Detail  
No Trickle Vent**



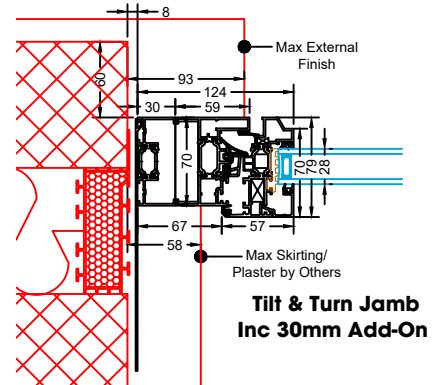
**Tilt & Turn  
Head Detail  
20mm Add-On**



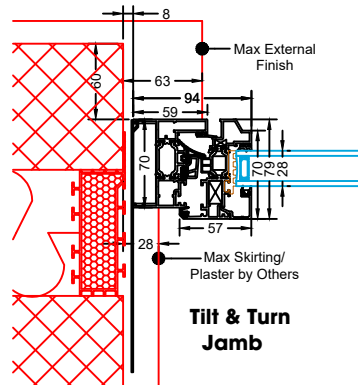
**Tilt & Turn  
Head Detail  
42mm Add-On  
& Std Trickle Ven**



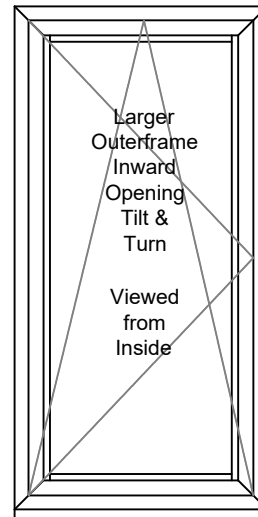
**Tilt & Turn  
Head Detail  
42mm Add-On  
& Hooded  
Trickle Vent**



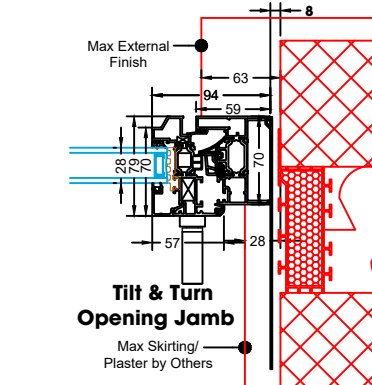
**Tilt & Turn Jamb  
Inc 30mm Add-On**



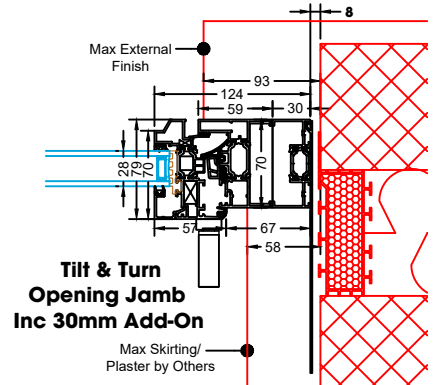
**Tilt & Turn  
Jamb**



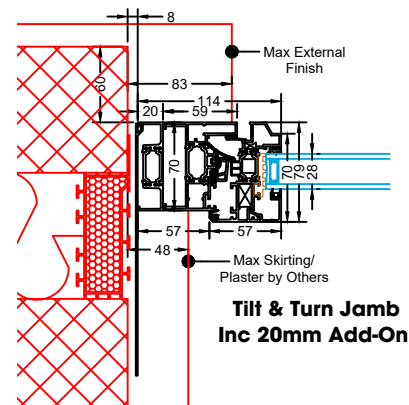
**Larger  
Outerframe  
Inward  
Opening  
Tilt &  
Turn  
Viewed  
from  
Inside**



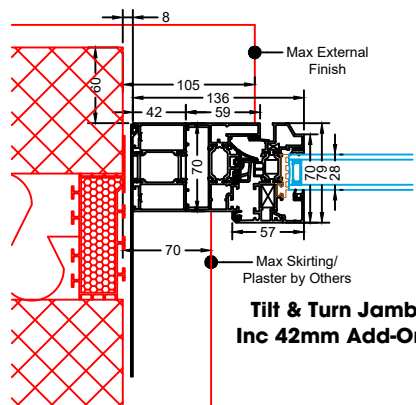
**Tilt & Turn  
Opening Jamb  
Inc 30mm Add-On**



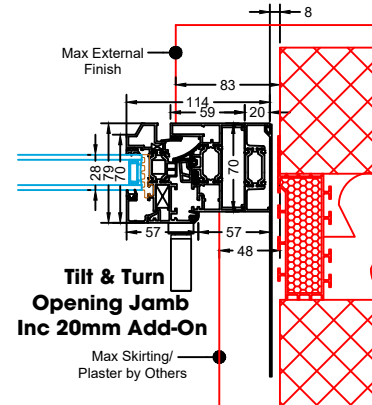
**Tilt & Turn  
Opening Jamb  
Inc 30mm Add-On**



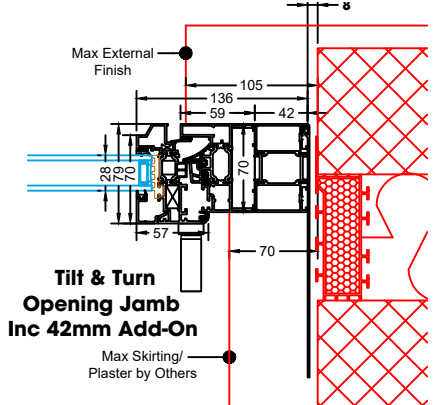
**Tilt & Turn Jamb  
Inc 20mm Add-On**



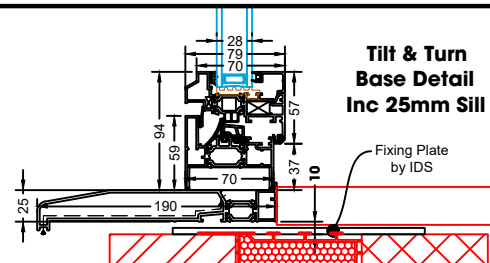
**Tilt & Turn Jamb  
Inc 42mm Add-On**



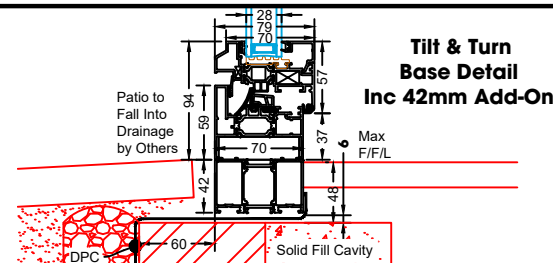
**Tilt & Turn  
Opening Jamb  
Inc 20mm Add-On**



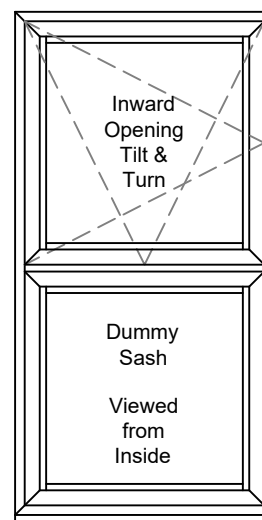
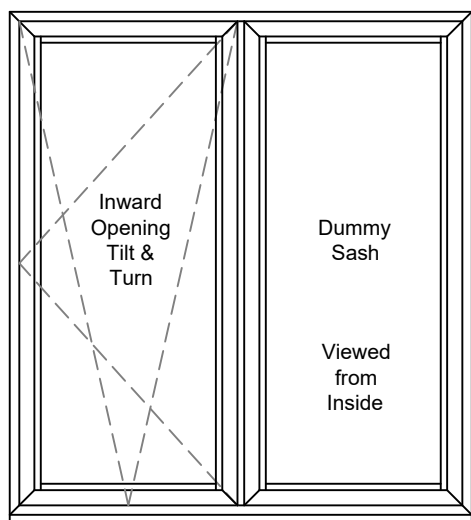
**Tilt & Turn  
Opening Jamb  
Inc 42mm Add-On**



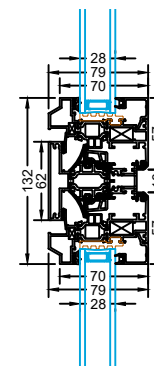
**Tilt & Turn  
Base Detail  
Inc 25mm Sill**



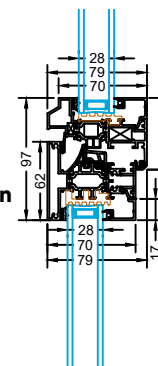
**Tilt & Turn  
Base Detail  
Inc 42mm Add-On**



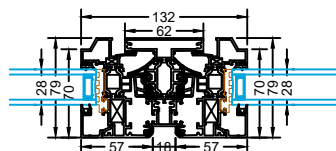
**Tilt & Turn Transom**



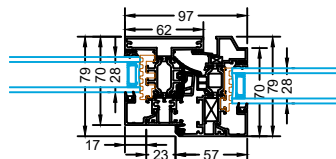
**Tilt & Turn Fixed Mullion**

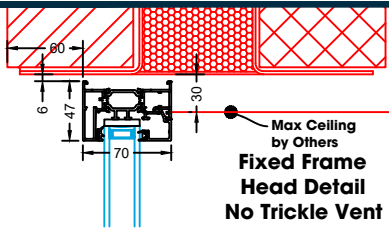


**Tilt & Turn Mullion**

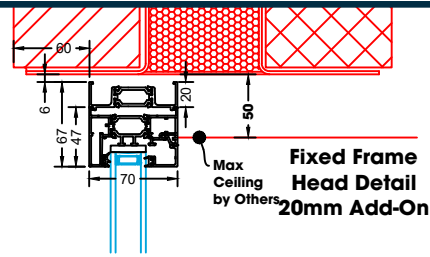


**Tilt & Turn Fixed Mullion**

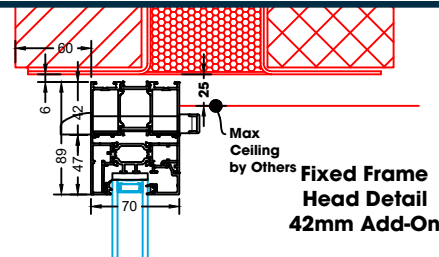




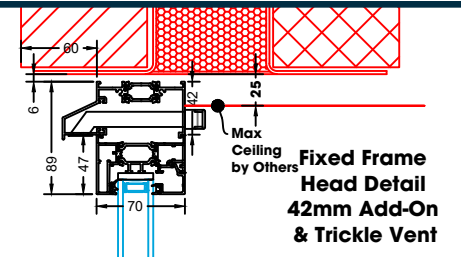
**Fixed Frame Head Detail  
No Trickle Vent**



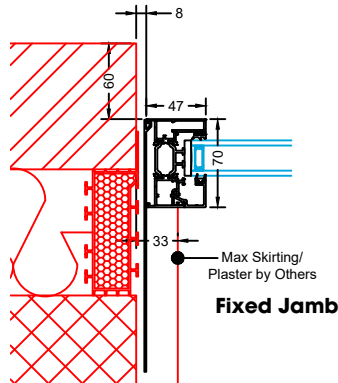
**Fixed Frame Head Detail  
20mm Add-On**



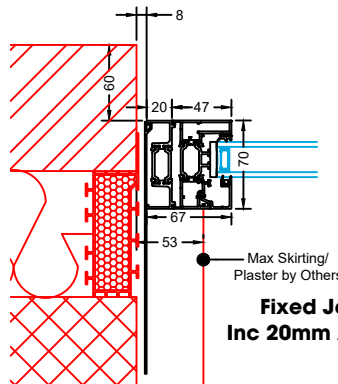
**Fixed Frame Head Detail  
42mm Add-On**



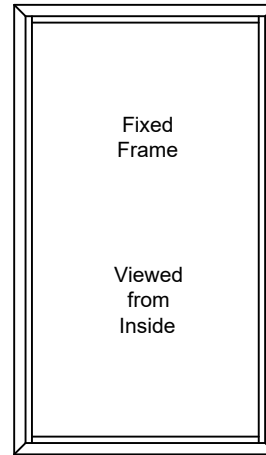
**Fixed Frame Head Detail  
42mm Add-On  
& Trickle Vent**



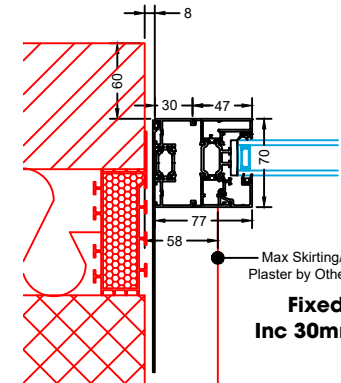
**Fixed Jamb**



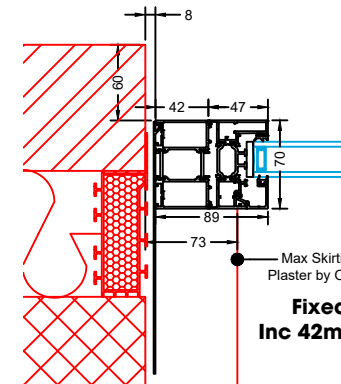
**Fixed Jamb  
Inc 20mm Add-On**



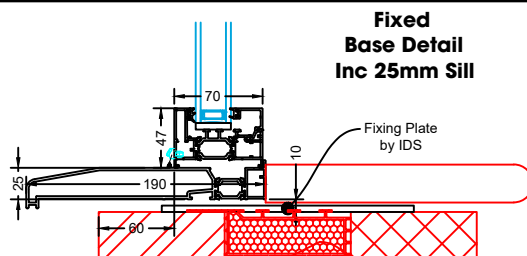
Fixed Frame  
Viewed from  
Inside



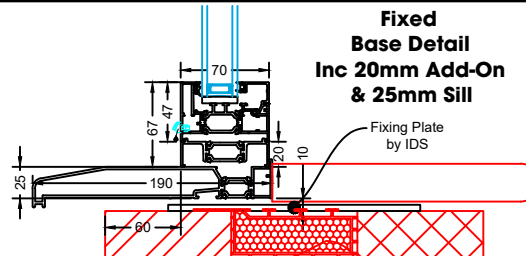
**Fixed Jamb  
Inc 30mm Add-On**



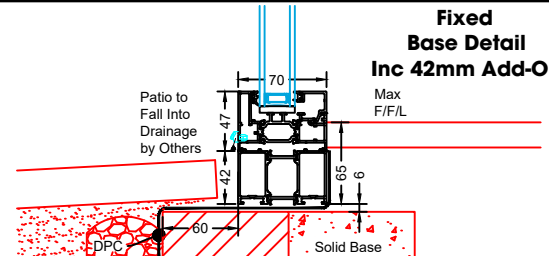
**Fixed Jamb  
Inc 42mm Add-On**



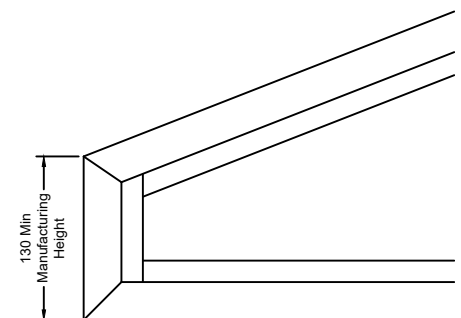
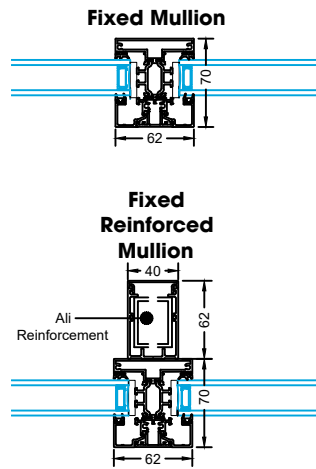
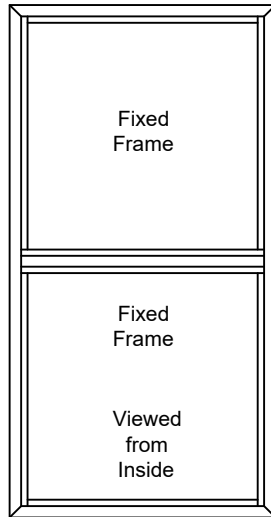
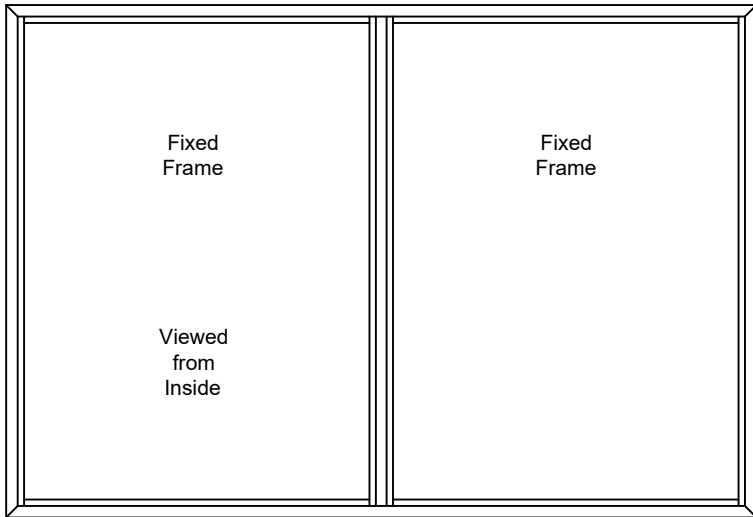
**Fixed Base Detail  
Inc 25mm Sill**



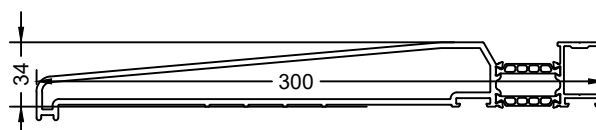
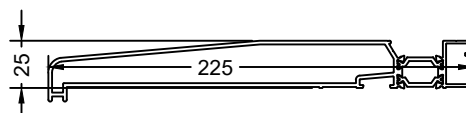
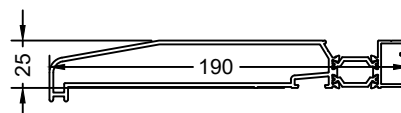
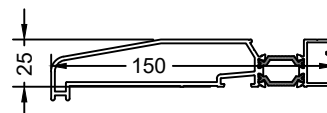
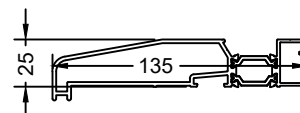
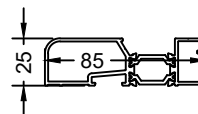
**Fixed Base Detail  
Inc 20mm Add-On  
& 25mm Sill**

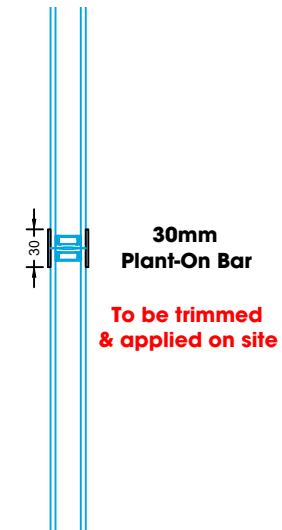
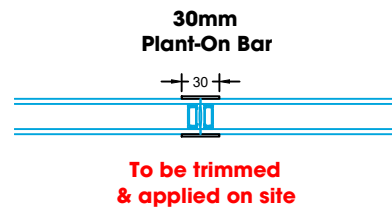
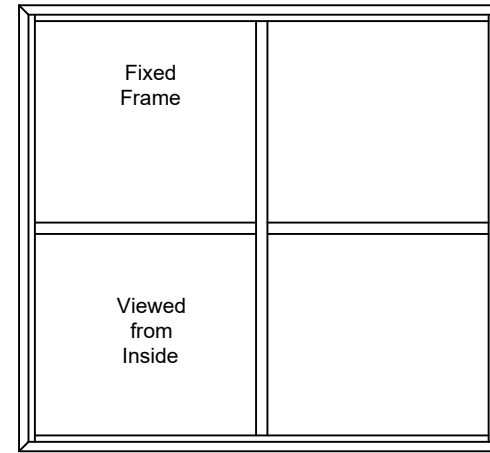
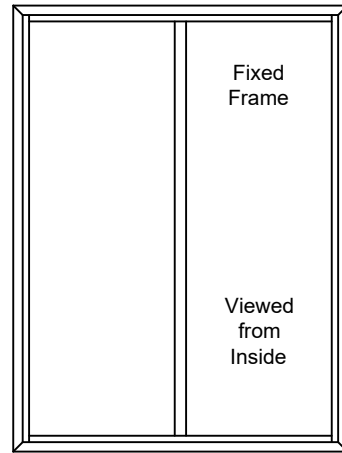


**Fixed Base Detail  
Inc 42mm Add-On**

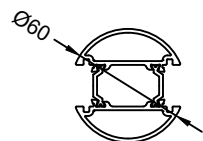


## theVISION Sill Options

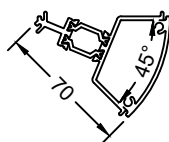




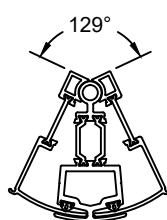
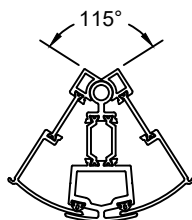
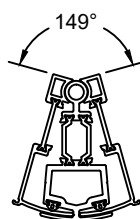
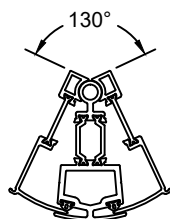
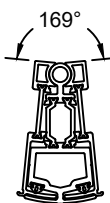
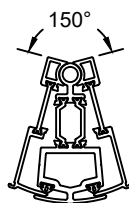
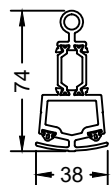
**60mm  
Bay Pole**



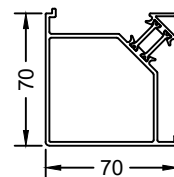
**135°  
Bay Pole**



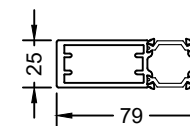
**Bay Pole**



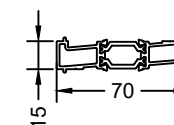
**90°  
Corner Post**

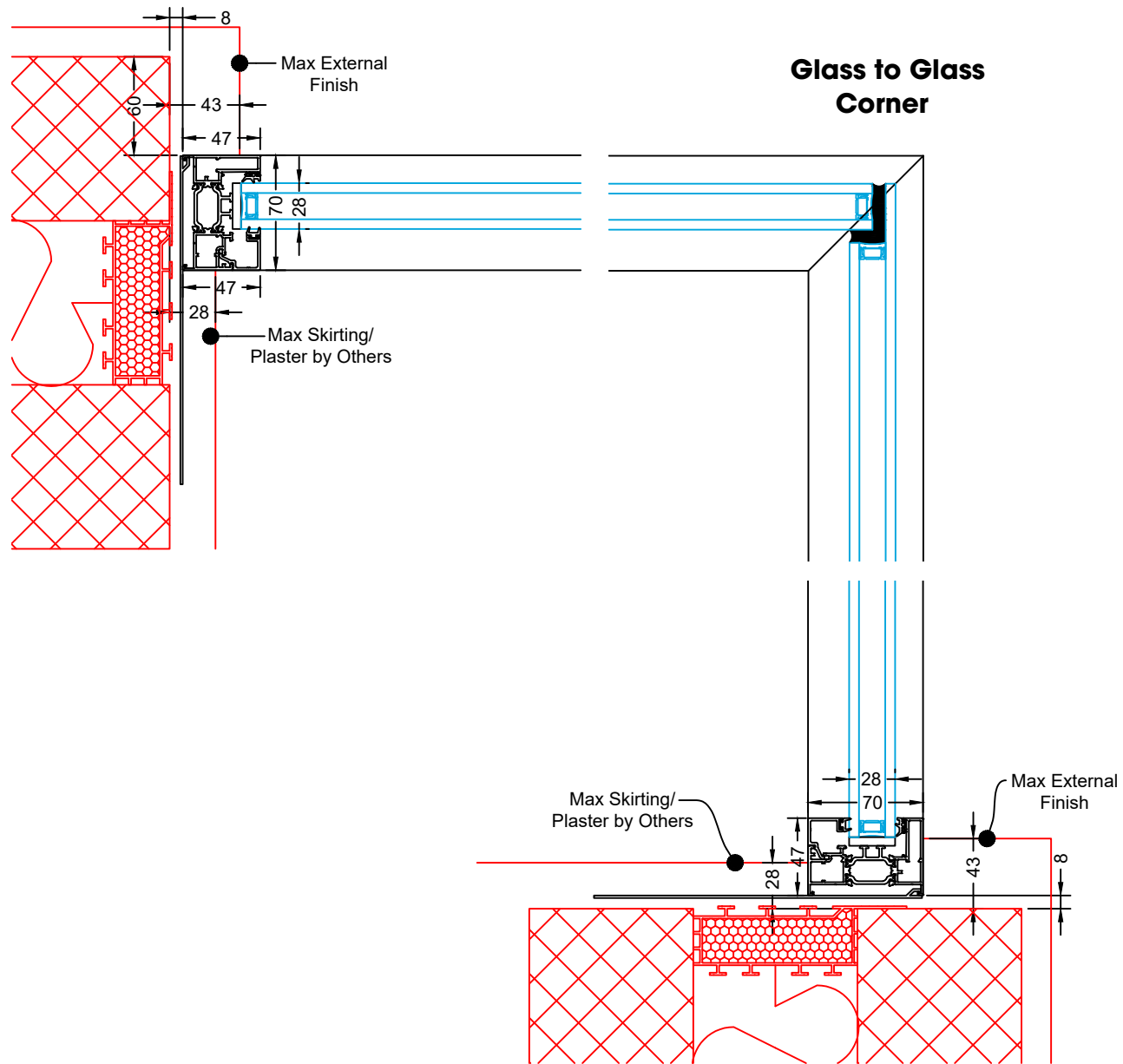


**25mm  
Coupler**



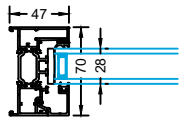
**15mm  
Horizontal  
Coupler**



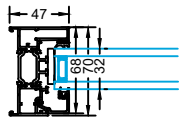


### Fixed Glazing Unit Options

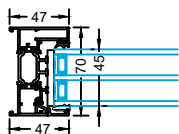
**28mm Glass Unit**



**32mm Glass Unit**

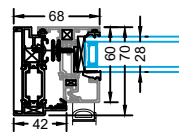


**45mm Glass Unit**

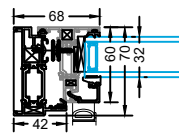


### Casement Glazing Unit Options

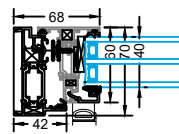
**28mm Glass Unit**



**32mm Glass Unit**

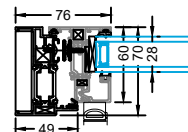


**40mm Glass Unit**

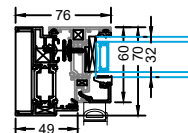


### Larger Outerframe Casement Glazing Unit Options

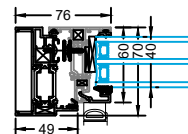
**28mm Glass Unit**



**32mm Glass Unit**

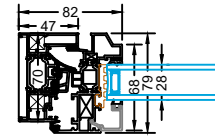


**40mm Glass Unit**

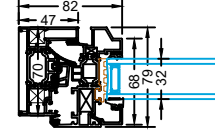


### Tilt & Turn Glazing Unit Options

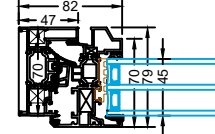
**28mm Glass Unit**



**32mm Glass Unit**

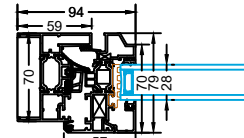


**45mm Glass Unit**

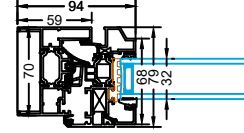


### Larger Outerframe Tilt & Turn Glazing Unit Options

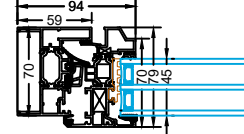
**28mm Glass Unit**



**32mm Glass Unit**



**45mm Glass Unit**





sliding doors



bifold doors



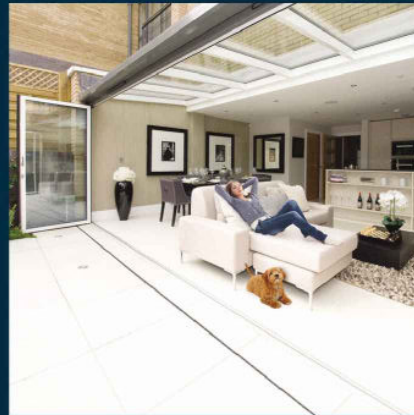
slide & turn doors



heritage doors



aluminium windows



glass roofs



internal glazing



front doors

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B2 Rhombus Park Diamond Road Norwich NR6 6NN

[www.idsystems.co.uk/technical-manuals](http://www.idsystems.co.uk/technical-manuals)

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