ROCK DOOR®

Technical **Manual**

REVISION **9.9**

Rockdoor Styles

MINIMUM SIZE OVERIDES

COLOURS

Construction Details

Sections

Thresholds

Frame

Locks

Hinge

Lever Handles

Bar Handles

Letterplates

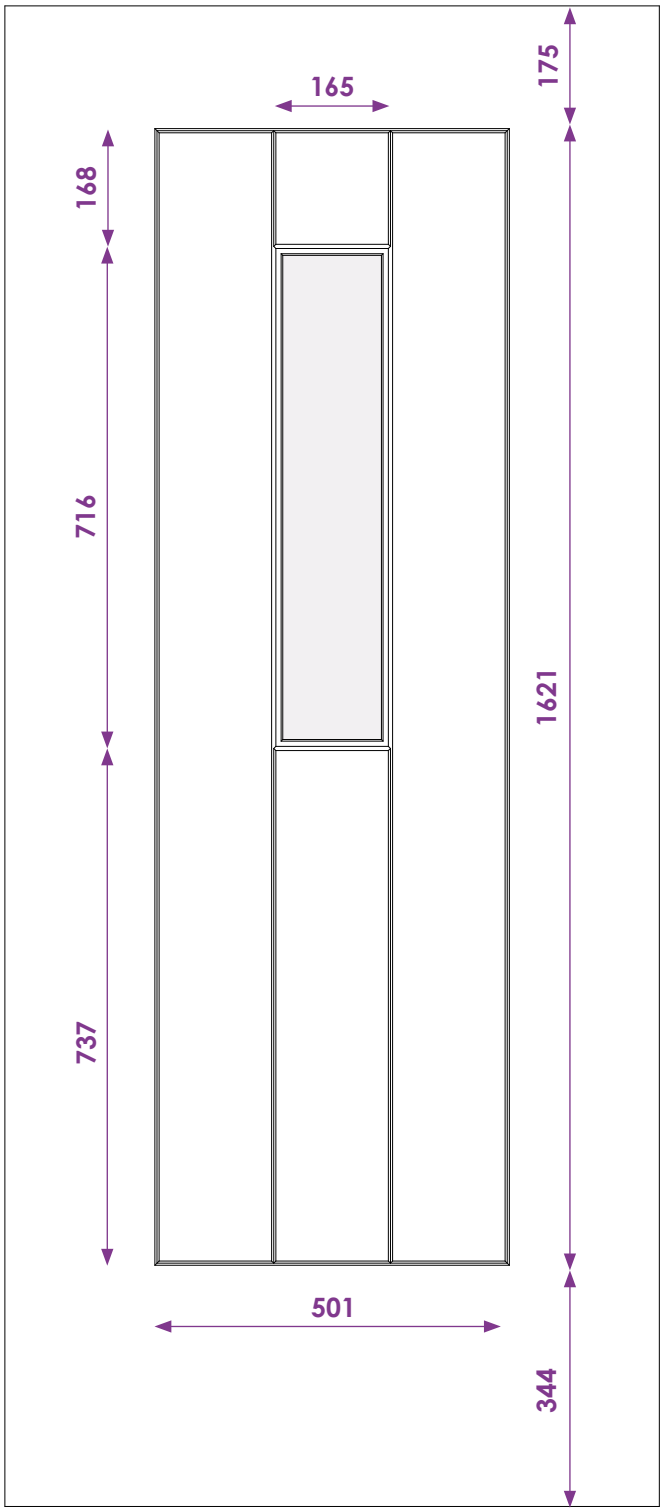
Furniture

Door Pulls

OTHER INFORMATION

The technical manual is regularly updated. The current version can be found on rockdoor.com

New Forest Texture & 26mm Unit



Door Sash

Width

Max: 908mm
Min: 674mm

Height

Max: 2098mm
Min: 1789mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

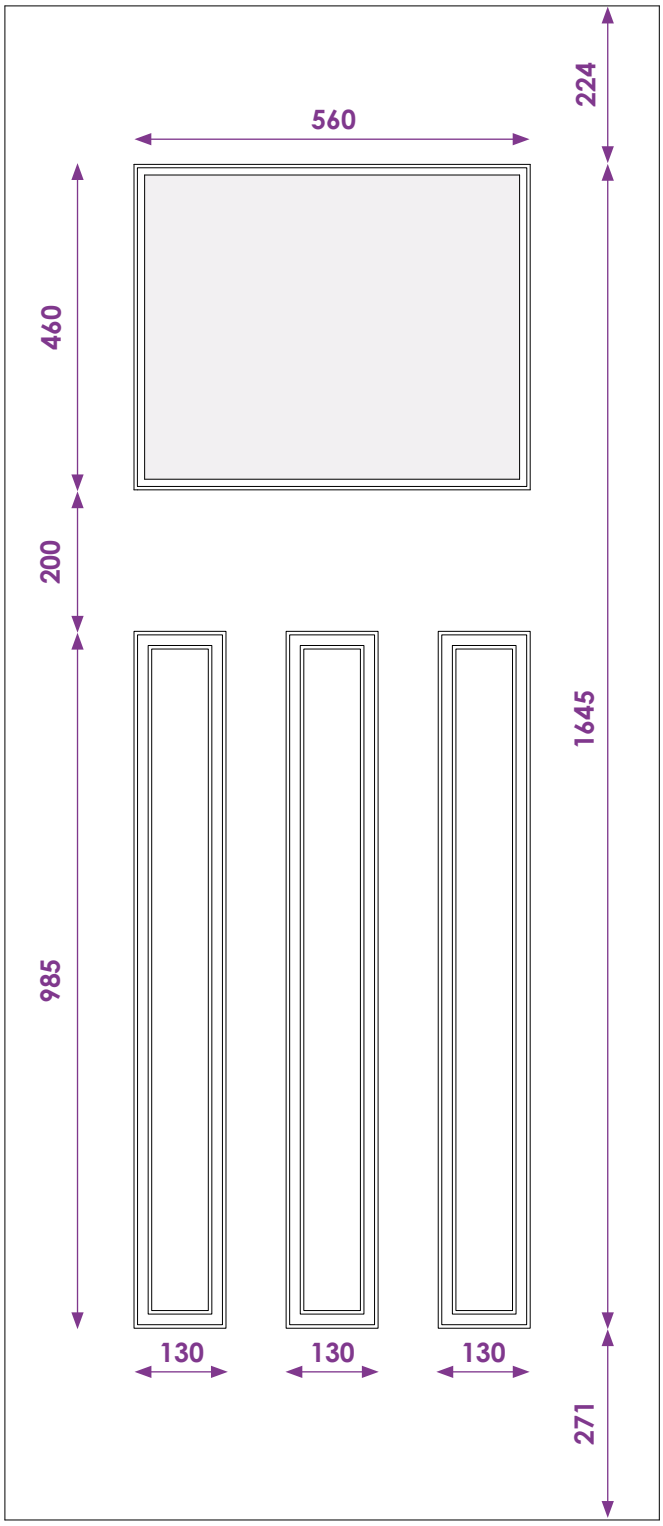
Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

PRESS GLAZING

UNIT THICKNESS:	26
UNIT SIZE:	177 x 729
APERTURE:	140x 690

ROCK DOOR

New Forest Texture & 26mm Unit



Door Sash

Width
Max: 908mm
Min: 760mm

Height
Max: 2098mm
Min: 1942mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

PRESS GLAZING

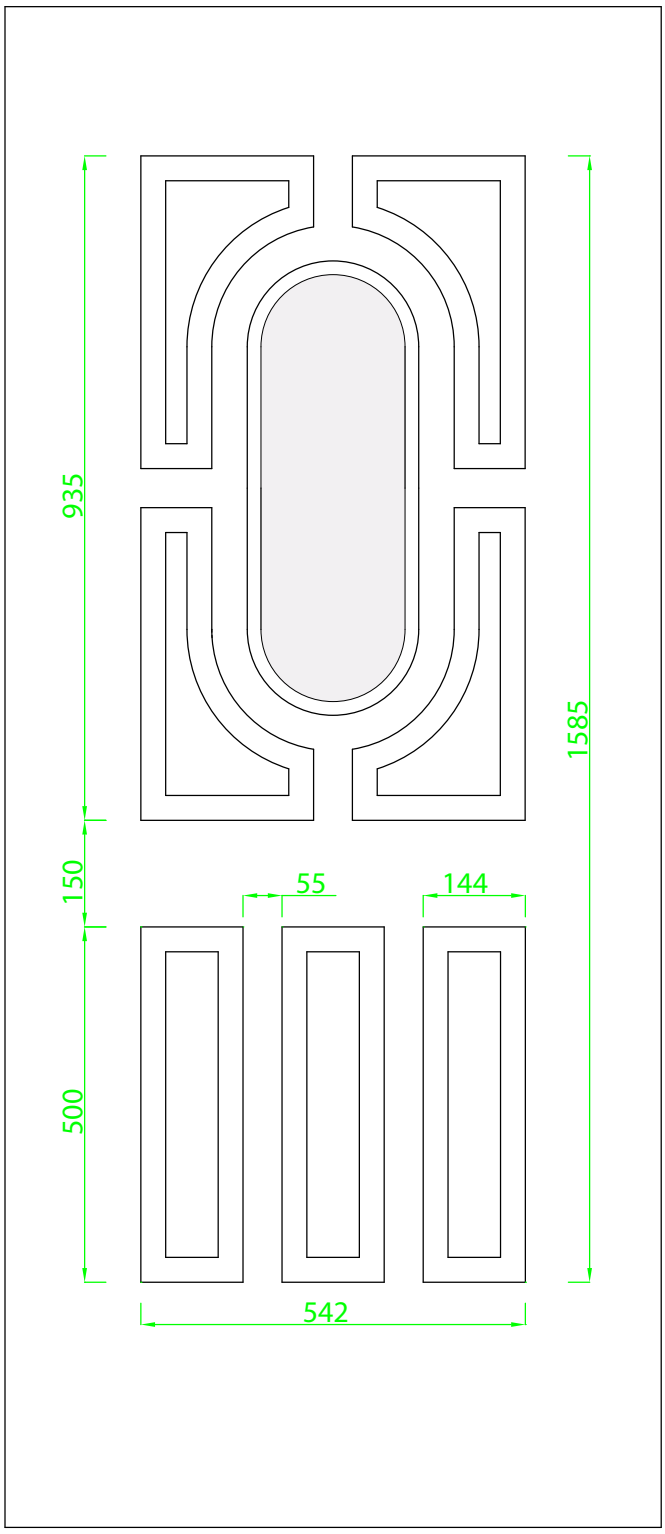
UNIT THICKNESS:	26
UNIT SIZE:	562 x 468
APERTURE:	530x 430

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 710mm

Height

Max: 2098mm
Min: 1763mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

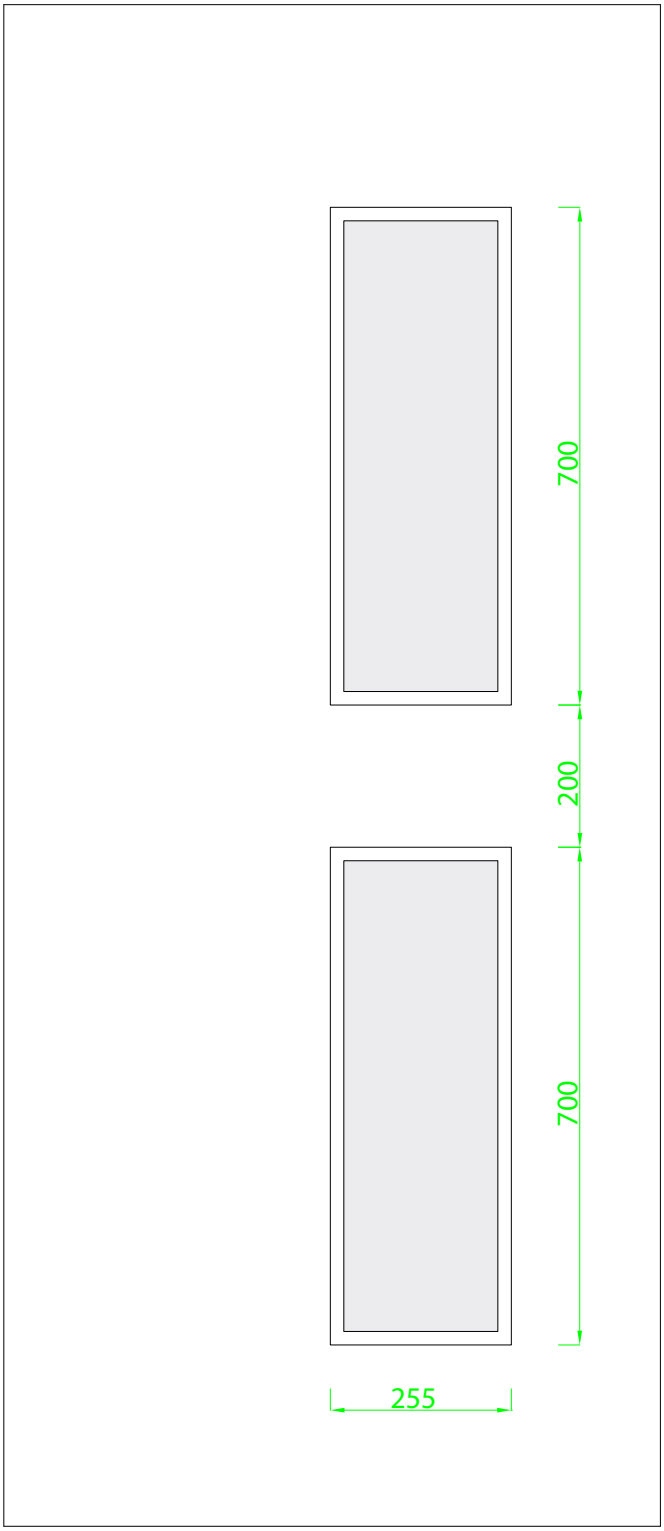
PRESS GLAZING

UNIT THICKNESS: 22	
UNIT SIZE:	246 x 668
APERTURE:	208x 630

PRESS BEAD GLAZING

UNIT THICKNESS: 24	
UNIT SIZE:	207 x 632
APERTURE:	182 x 604

ROCK DOOR



Door Sash

Width

Max: 908mm
Min: 713mm

Height

Max: 2098mm
Min: 1808mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 185 X 630
Aperture: 148 X 590

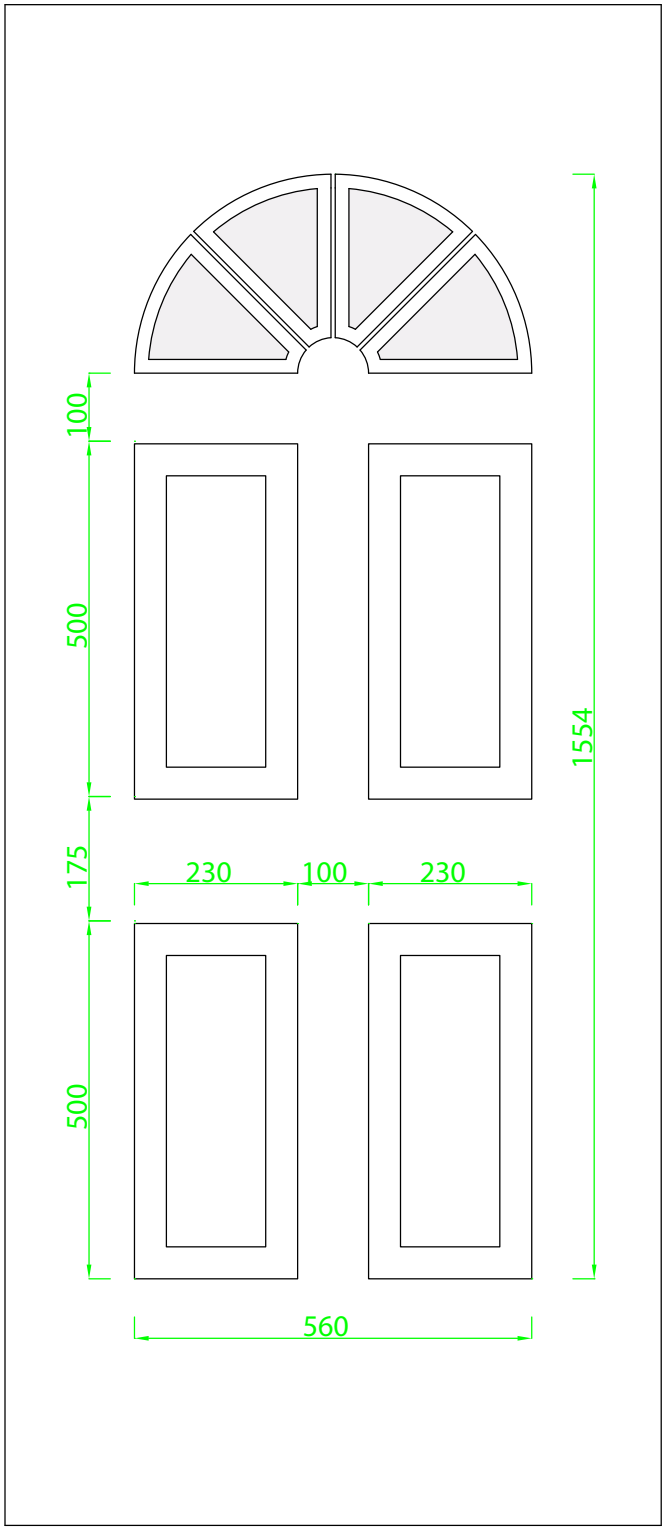
Press Bead Glazing
Unit Thickness: 24
Unit Size: 185 X 630
Aperture: 148 X 590

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width
Max: 908mm
Min: 769mm

Height
Max: 2098mm
Min: 1758mm

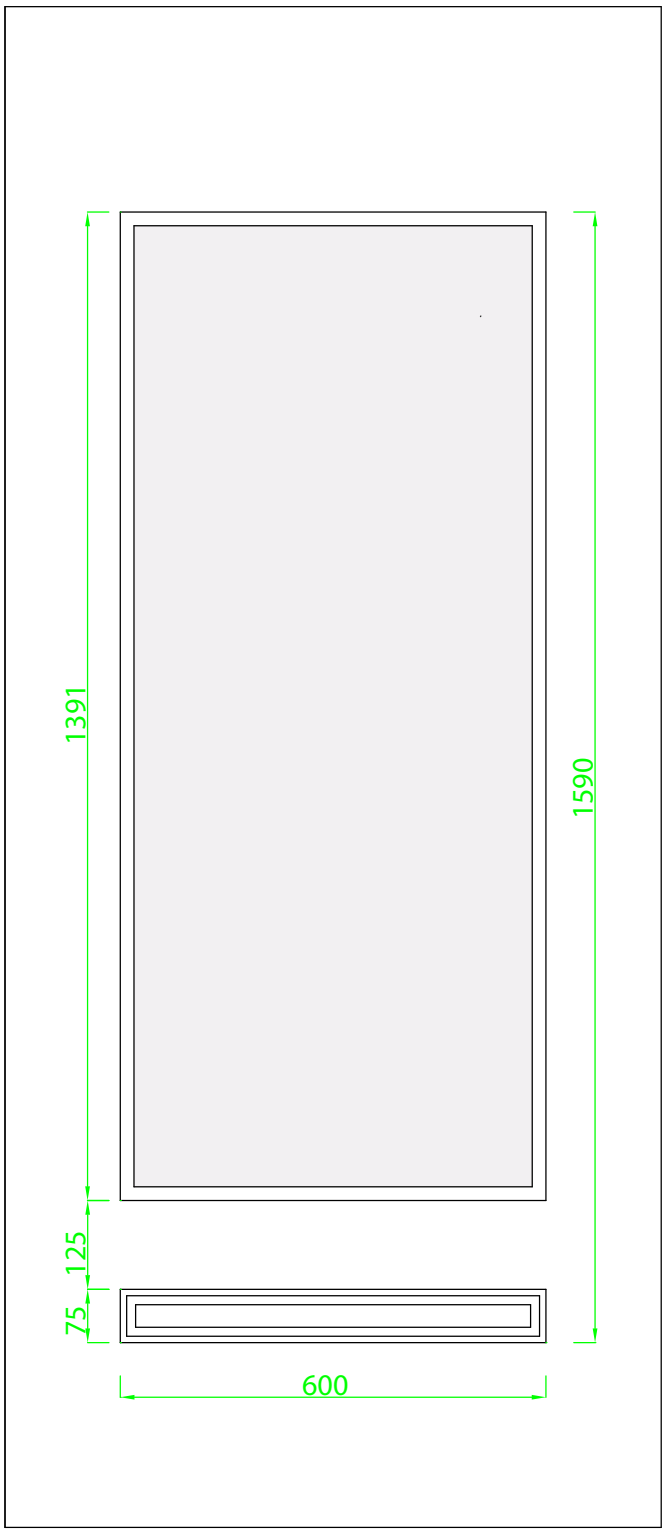
Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
Height
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 560 X 275
Aperture: N/A

Press Bead Glazing
Unit Thickness: 24
Unit Size: 490 X 225
Aperture: 452 X 192



Door Sash

Width

Max: 908mm
Min: 808mm

Height

Max: 2098mm
Min: 1799mm Lock overide 1893mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 599 X 1390
Aperture: 565 X 1356

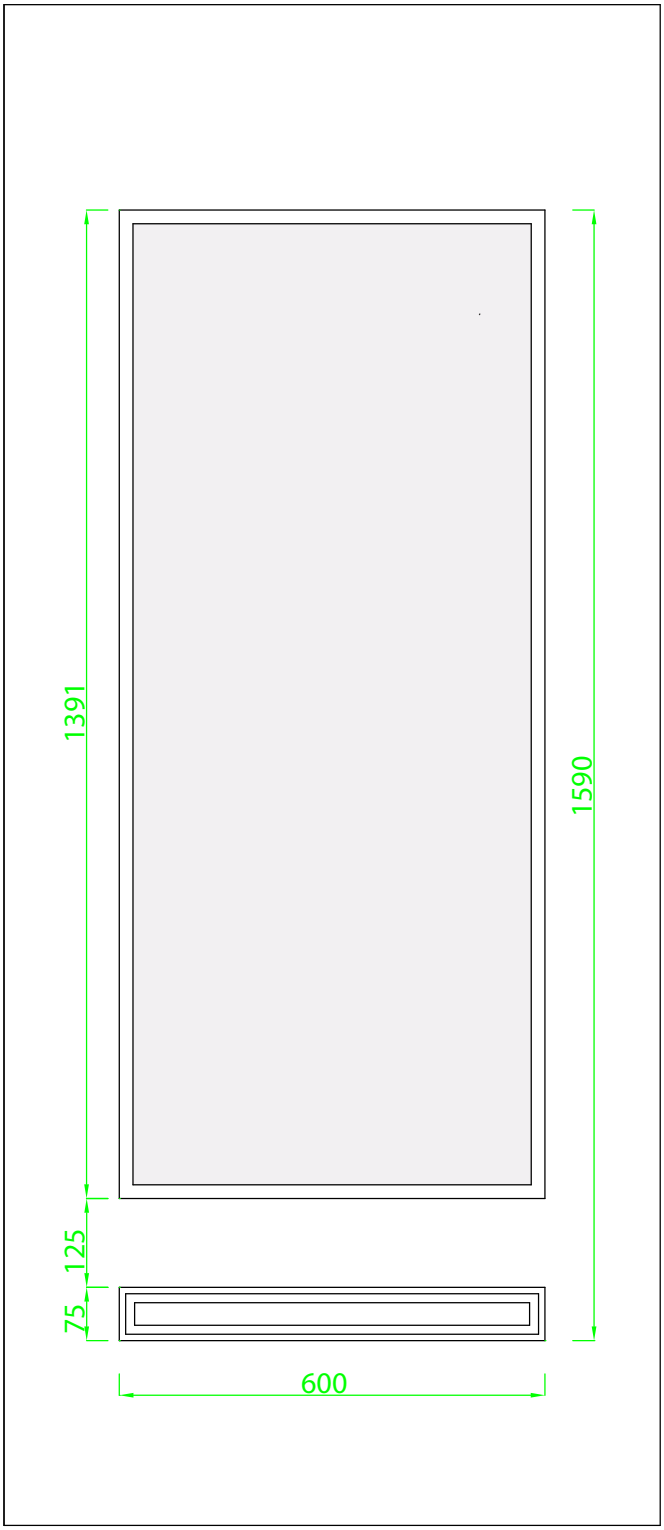
Press Bead Glazing
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sashs

Width

Max: 908+7+908 = 1823mm
Min: 808+7+808 = 1623mm

Height

Max: 2098mm
Min: 1799mm

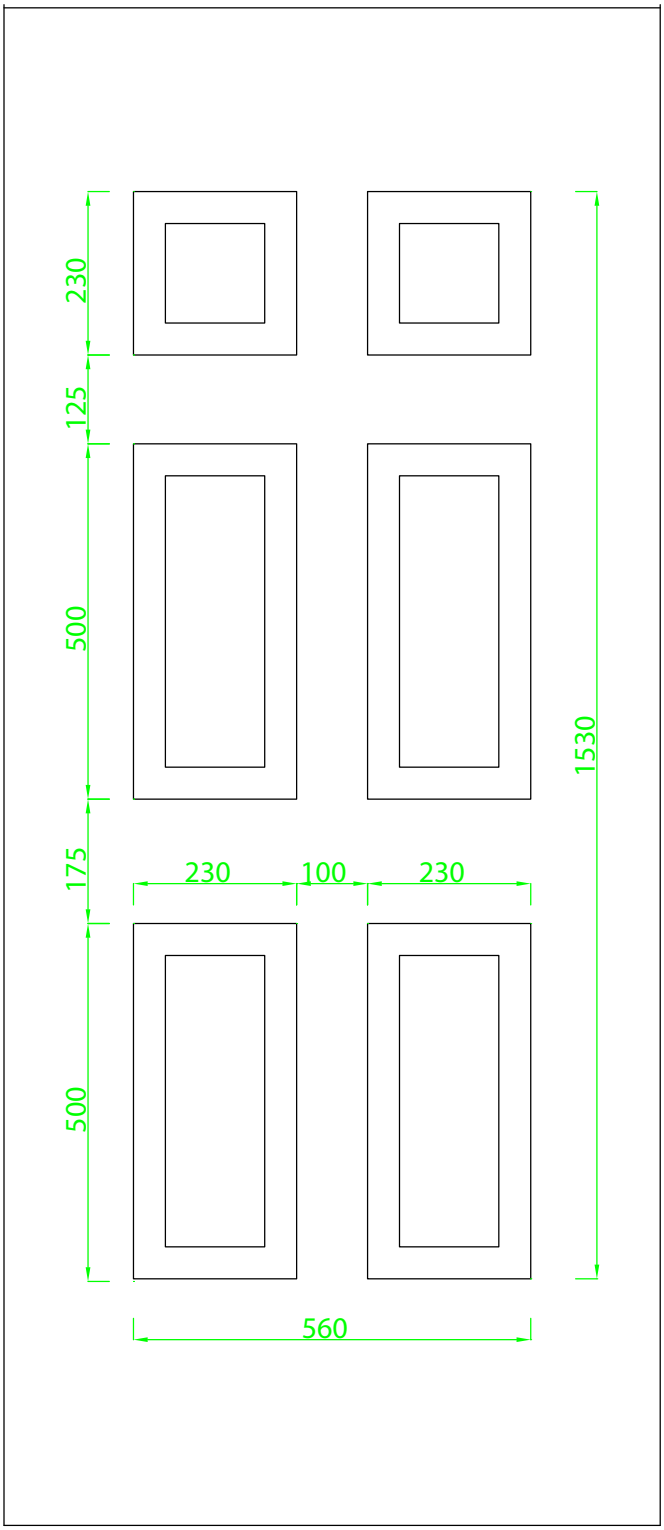
Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Bead Glazing
N/A



Door Sash

Width

Max: 908mm
Min: 729mm

Height

Max: 2098mm
Min: 1728mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
N/A

Press Bead Glazing
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
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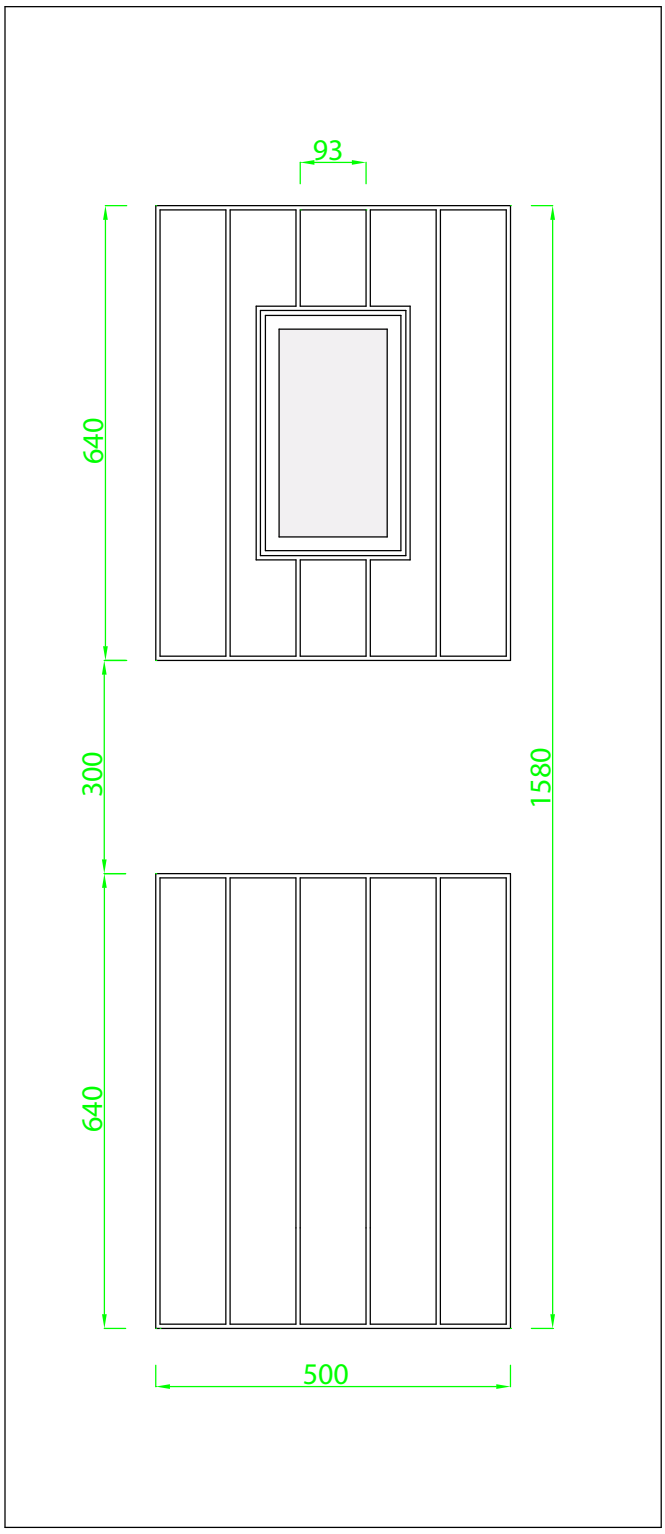
Add On / Frame Extensions page 53

COTTAGE SPY VIEW



Door Sash

Width

Max: 908mm
Min: 673mm

Height

Max: 2098mm
Min: 1748mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

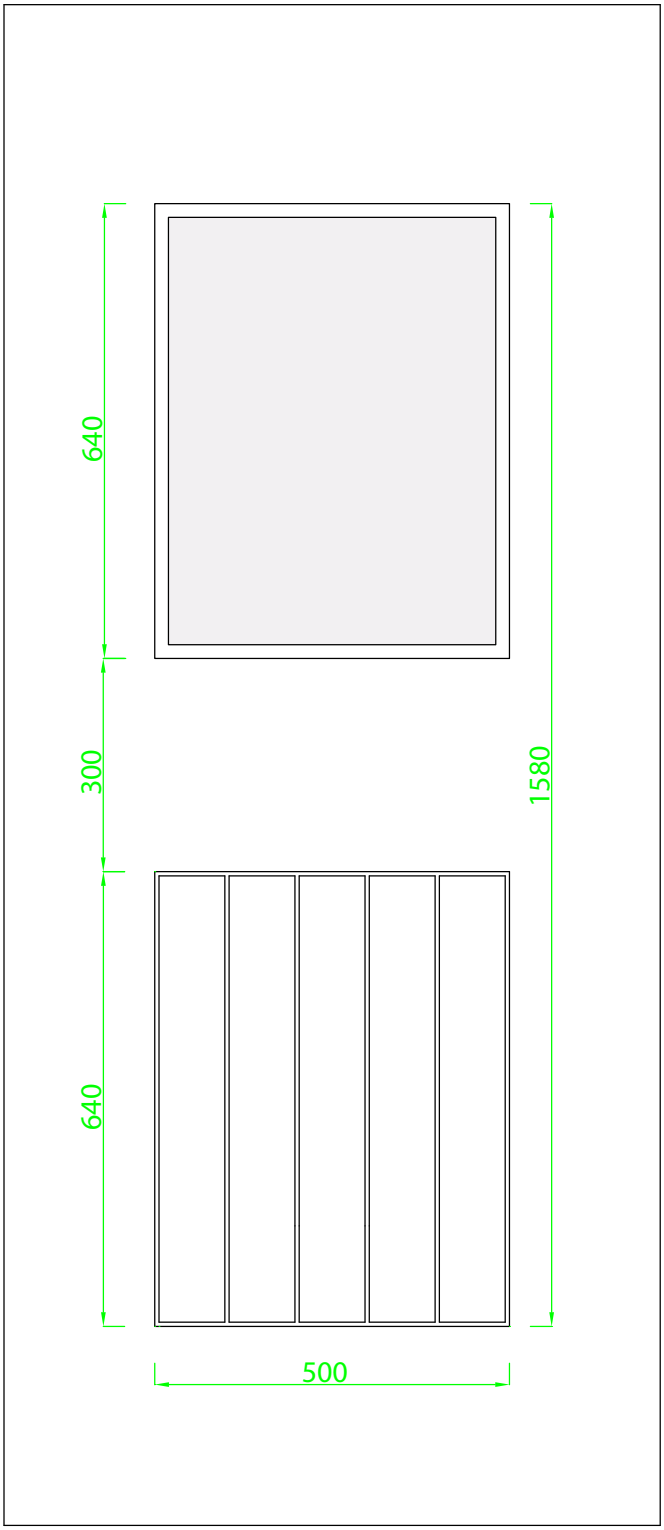
Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
Height
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 150 X 300
Aperture: 109 X 252

Press Bead Glazing
Unit Thickness: 24
Unit Size: 114 X 255
Aperture: 85 X 226

COTTAGE VIEW LIGHT



Door Sash

Width

Max: 908mm
Min: 708mm

Height

Max: 2098mm
Min: 1788mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 485 X 625
Aperture: 436 X 576

Press Bead Glazing
Unit Thickness: 24
Unit Size: 440 X 580
Aperture: 410 X 550

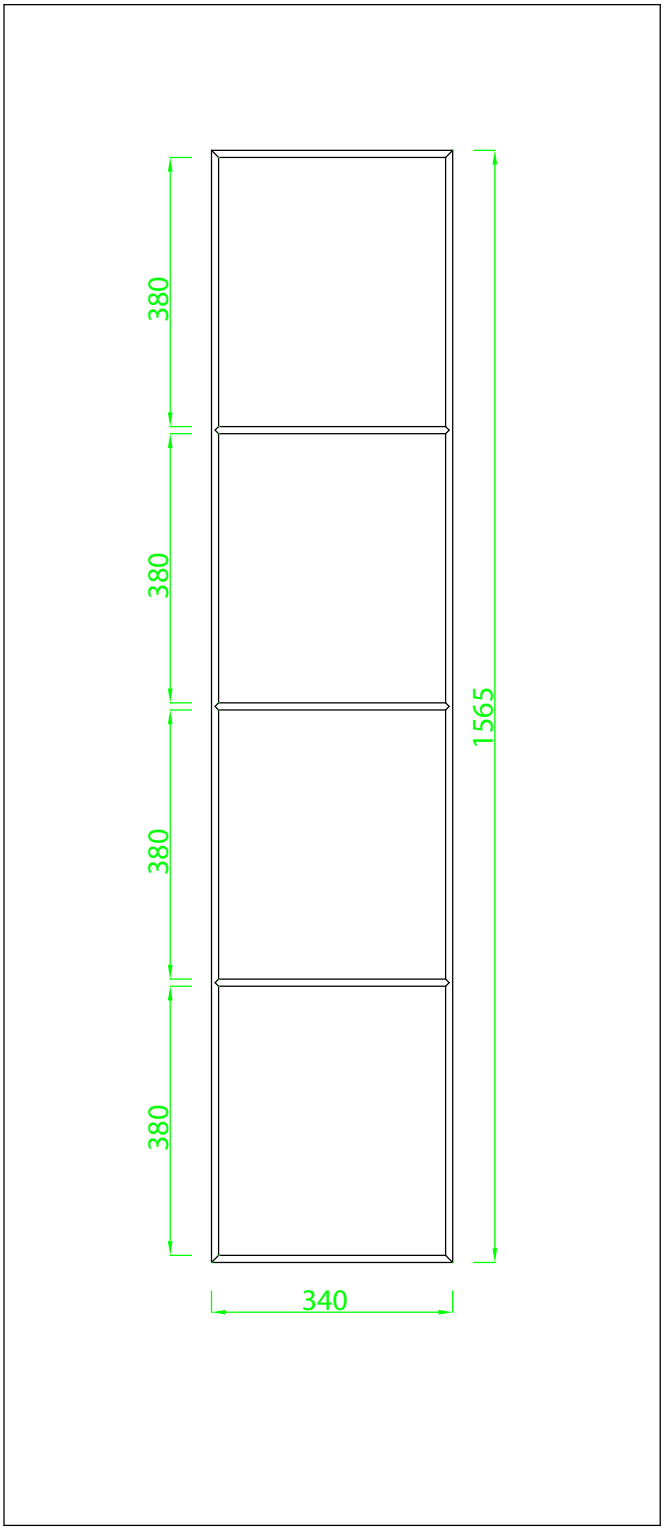
Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53

New Forest Texture



Door Sash

Width

Max: 908mm
Min: 679mm

Height

Max: 2098mm
Min: 1768mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

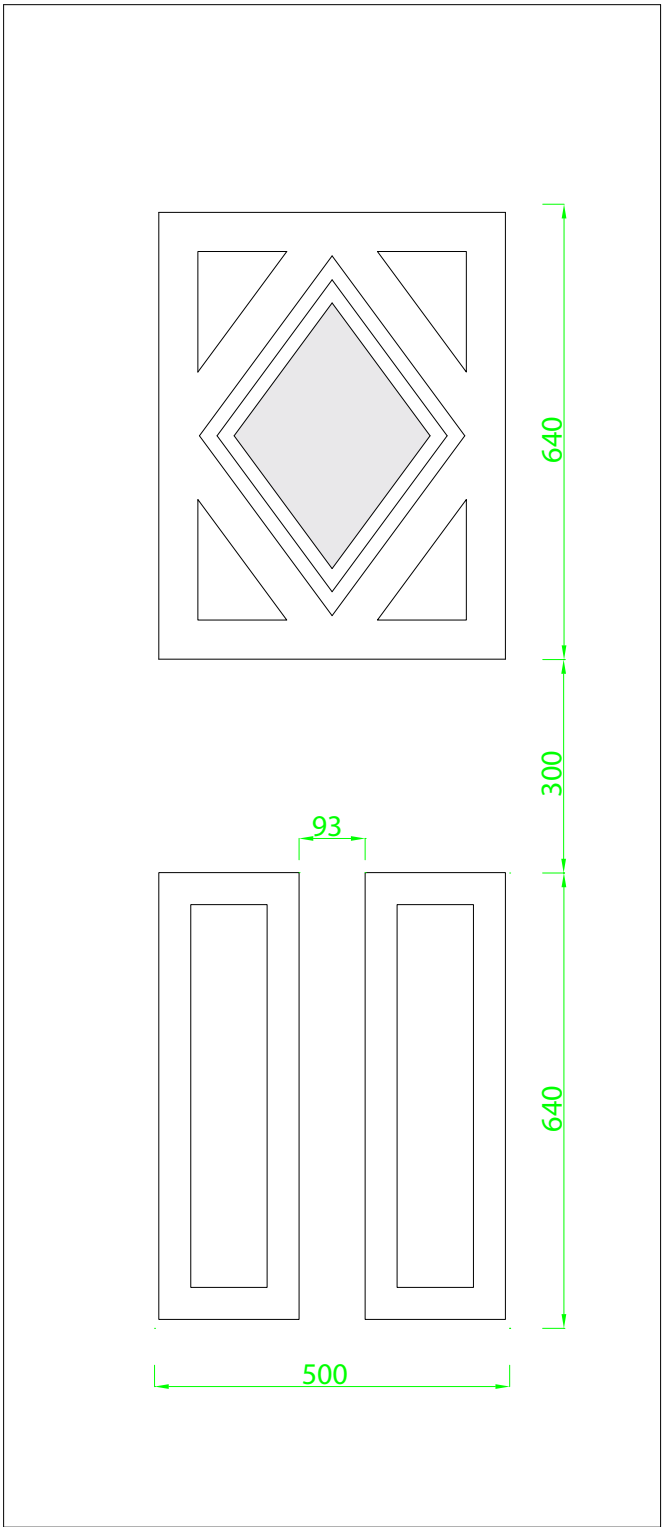
Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)



Door Sash

Width
Max: 908mm
Min: 696mm

Height
Max: 2098mm
Min: 1764mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 320 X 435
Aperture: 277 X 371

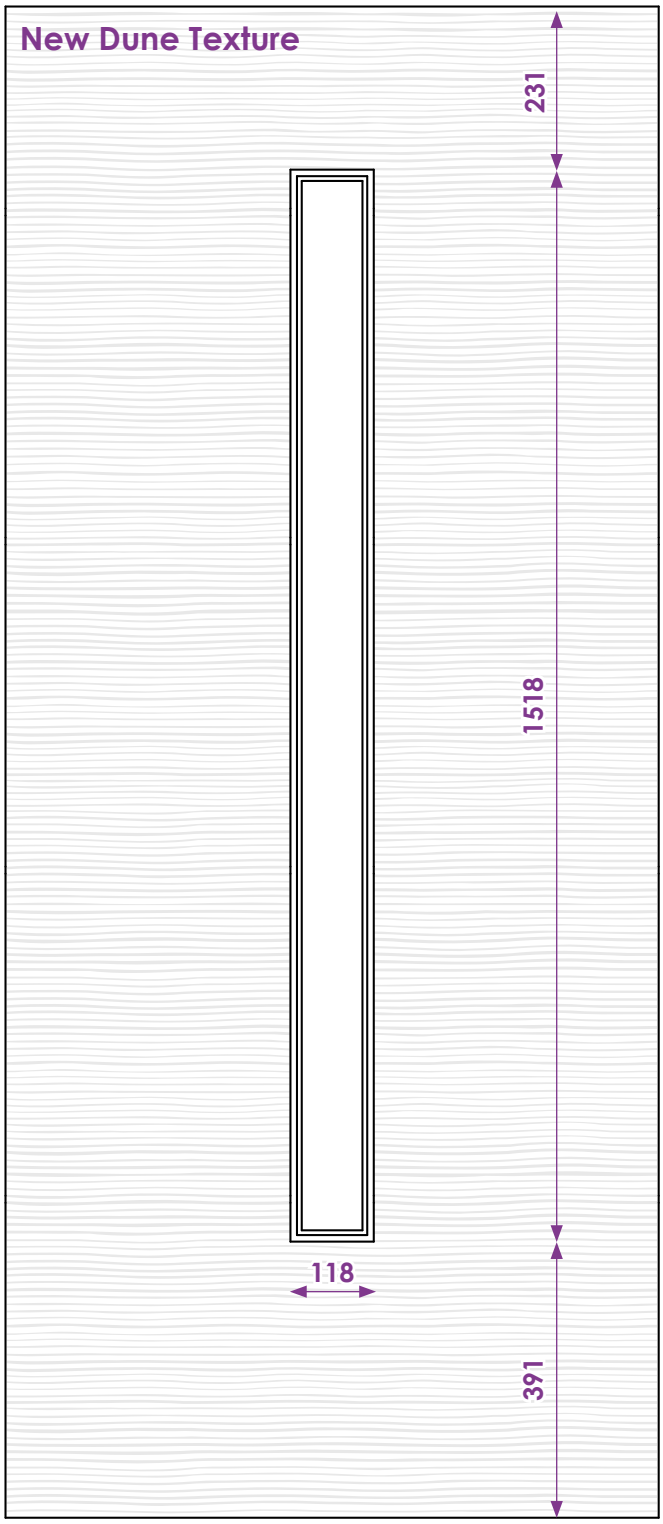
Press Bead Glazing
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 679mm

Height

Max: 2098mm
Min: 1880mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

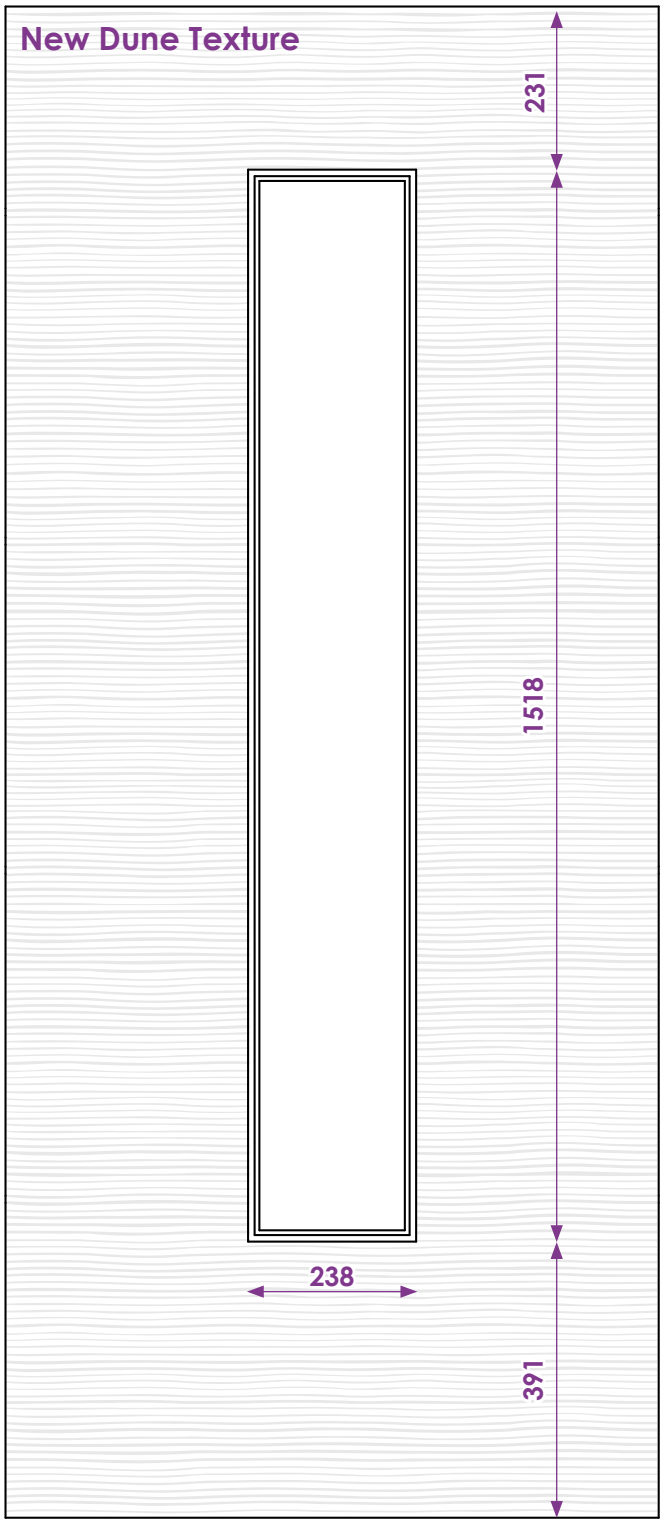
Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 118 X 1518
Aperture: 80 X 1480

Press Bead Glazing
N/A



Door Sash

Width
Max: 908mm
Min: 679mm

Height
Max: 2098mm
Min: 1880mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 238 X 1518
Aperture: 200 X 1480

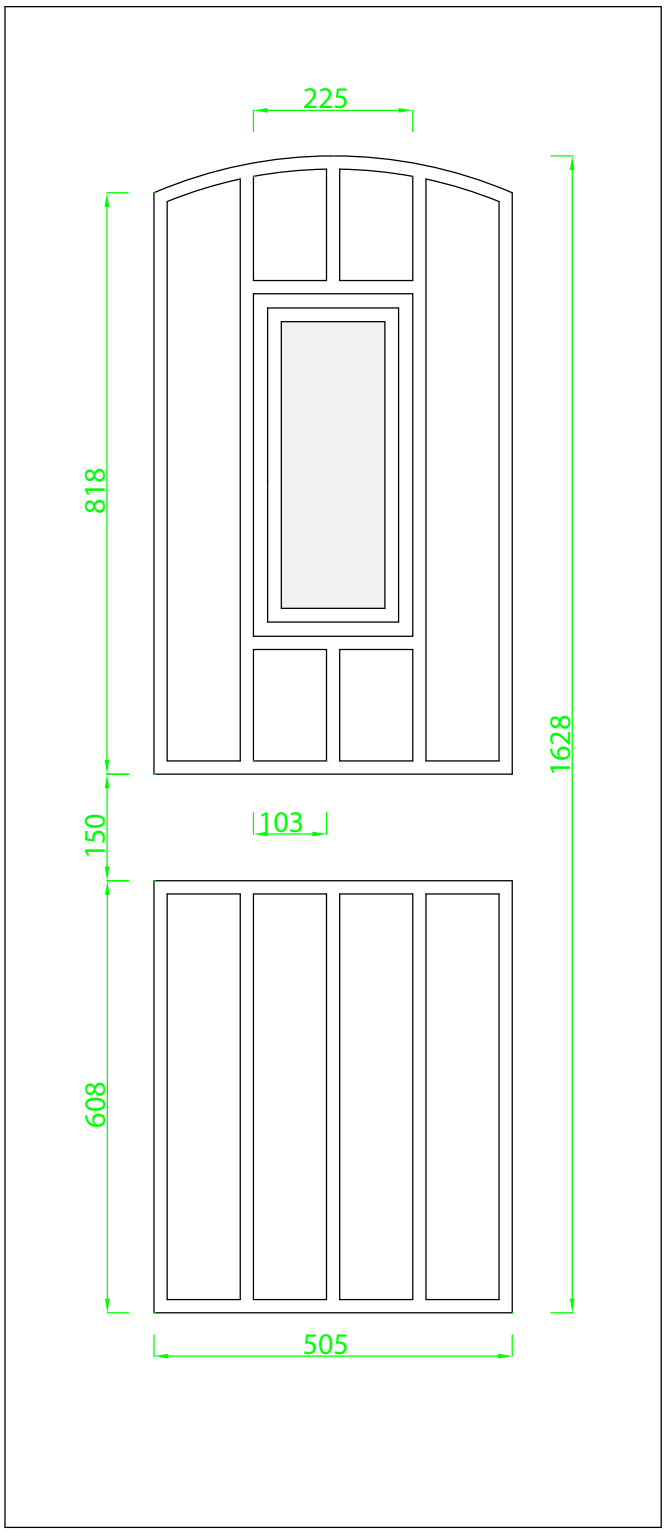
Press Bead Glazing
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width
Max: 908mm
Min: 679mm

Height
Max: 2098mm
Min: 1796mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

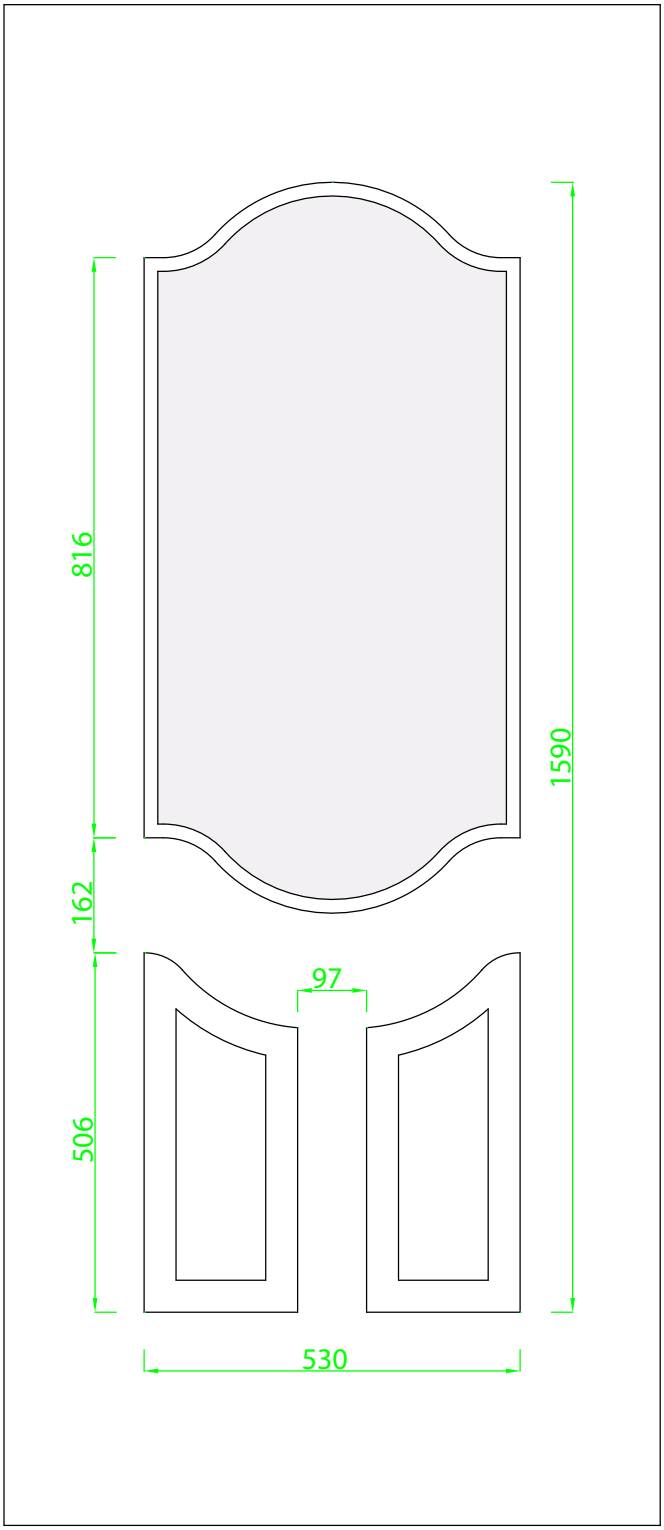
Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 192 X 447
Aperture: 152 X 413

Press Bead Glazing
N/A



Door Sash

Width
Max: 908mm
Min: 724mm

Height
Max: 2098mm
Min: 1797mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 512 X 1008
Aperture: 462X (752 /961/752)

Press Bead Glazing
N/A

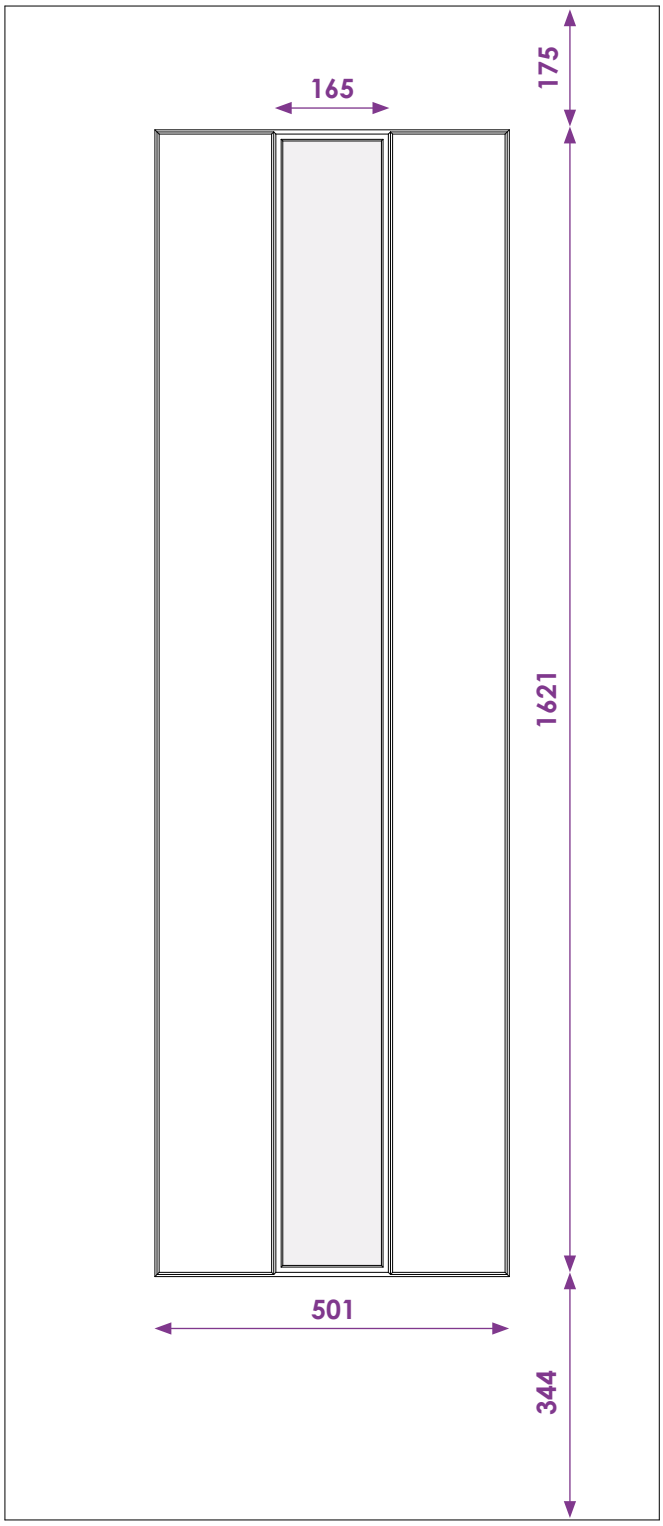
Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53

New Forest Texture & 26mm Unit



Door Sash

Width

Max: 908mm
Min: 674mm

Height

Max: 2098mm
Min: 1841mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

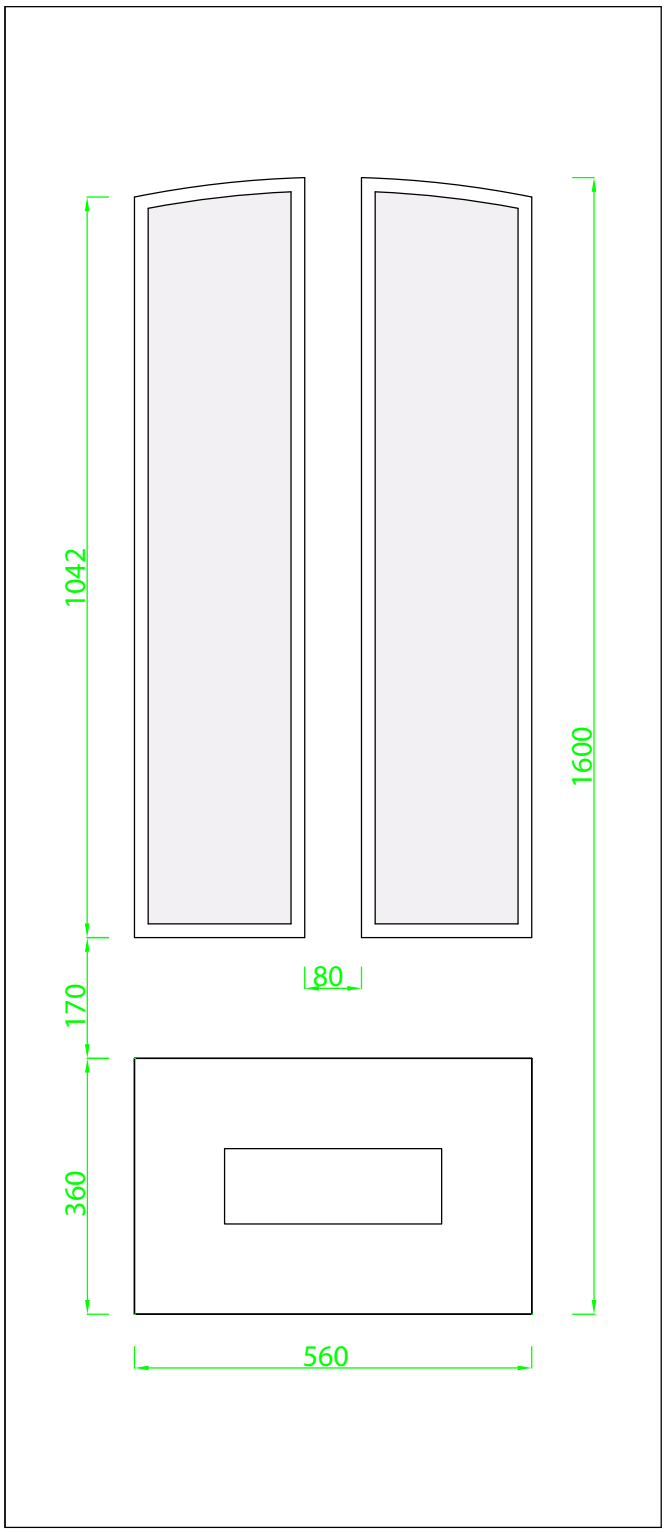
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

PRESS GLAZING

UNIT THICKNESS:	26
UNIT SIZE:	177 x 1627
APERTURE:	140x 1590

ROCK DOOR



Door Sash

Width
Max: 908mm
Min: 768mm

Height
Max: 2098mm
Min: 1808mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width
72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm +7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 240 X 1067 (2 Off)
Aperture: 202 X 1030 (2 Off)

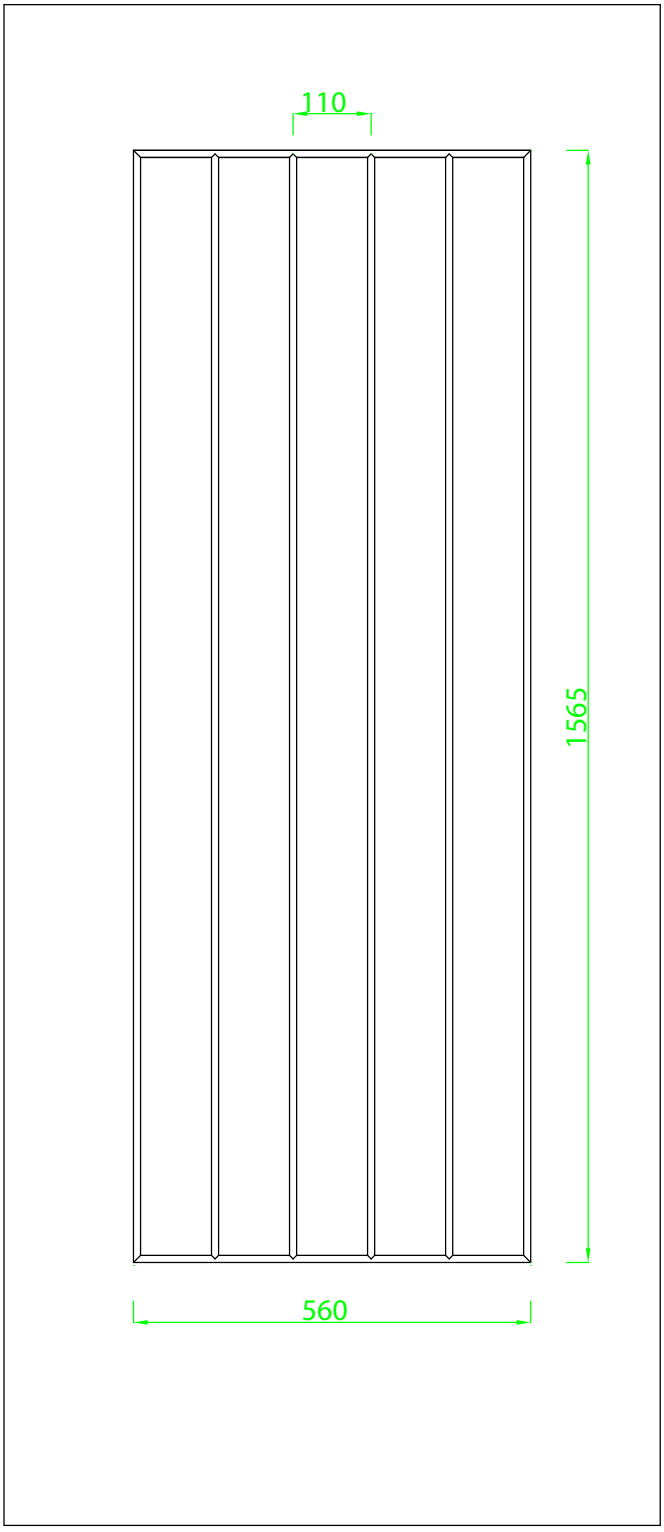
Press Bead Glazing
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 768mm

Height

Max: 2098mm
Min: 1808mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

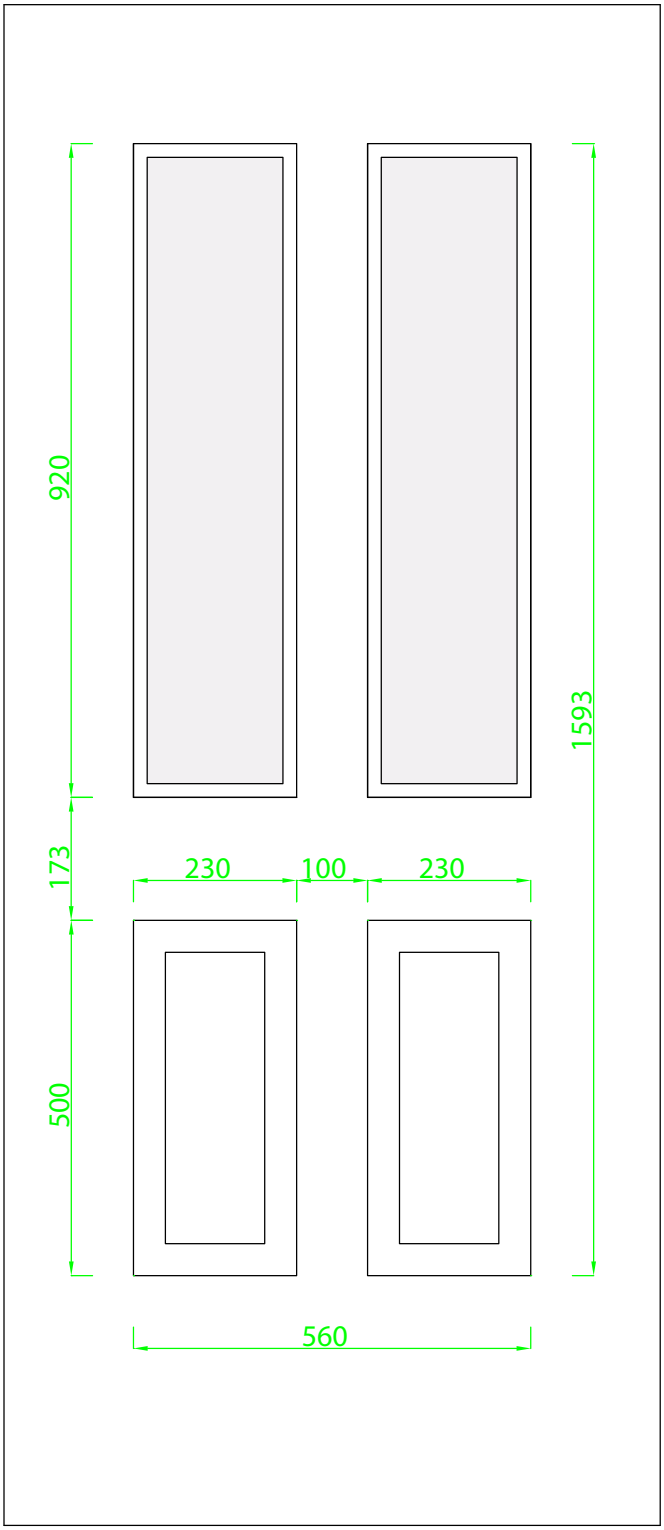
Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)



Door Sash

Width

Max: 908mm
Min: 753mm

Height

Max: 2098mm
Min: 1801mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 220 X 910
Aperture: 180 X 866

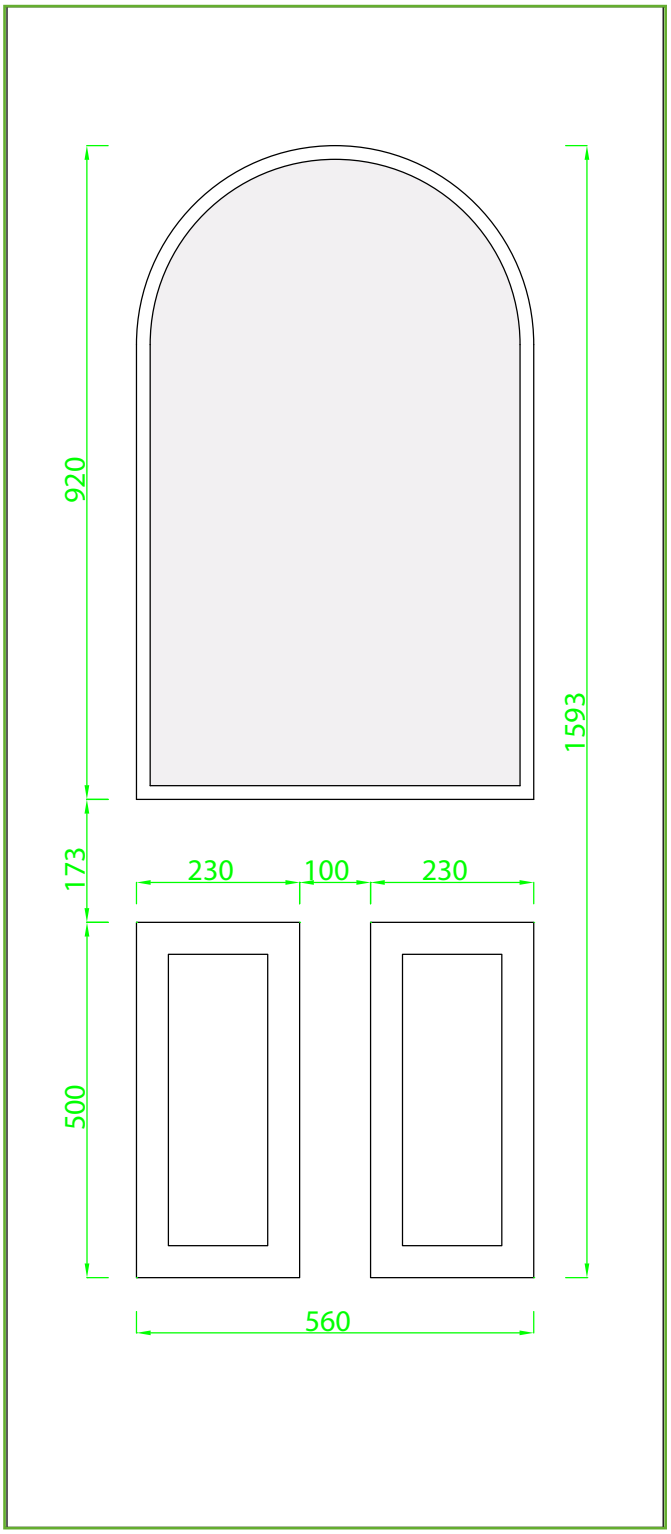
Press Bead Glazing
Unit Thickness: 24
Unit Size: 188 X 875
Aperture: 155 X 842

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 768mm

Height

Max: 2098mm
Min: 1801mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

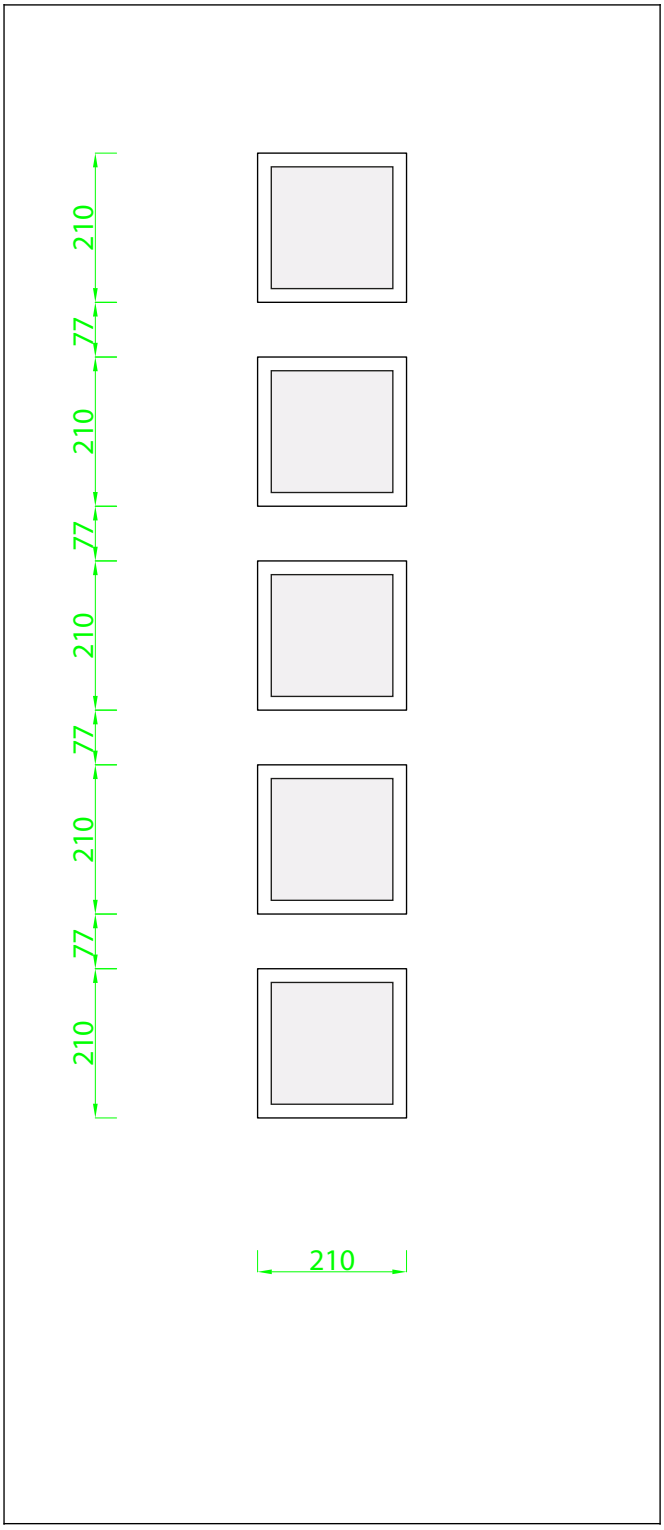
Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 560 X 912
Aperture: 508 X 867

Press Bead Glazing
Unit Thickness: 24
Unit Size: 516 X 875
Aperture: 482 X 840



Door Sash

Width

Max: 908mm
Min: 679mm

Height

Max: 2098mm
Min: 1800mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

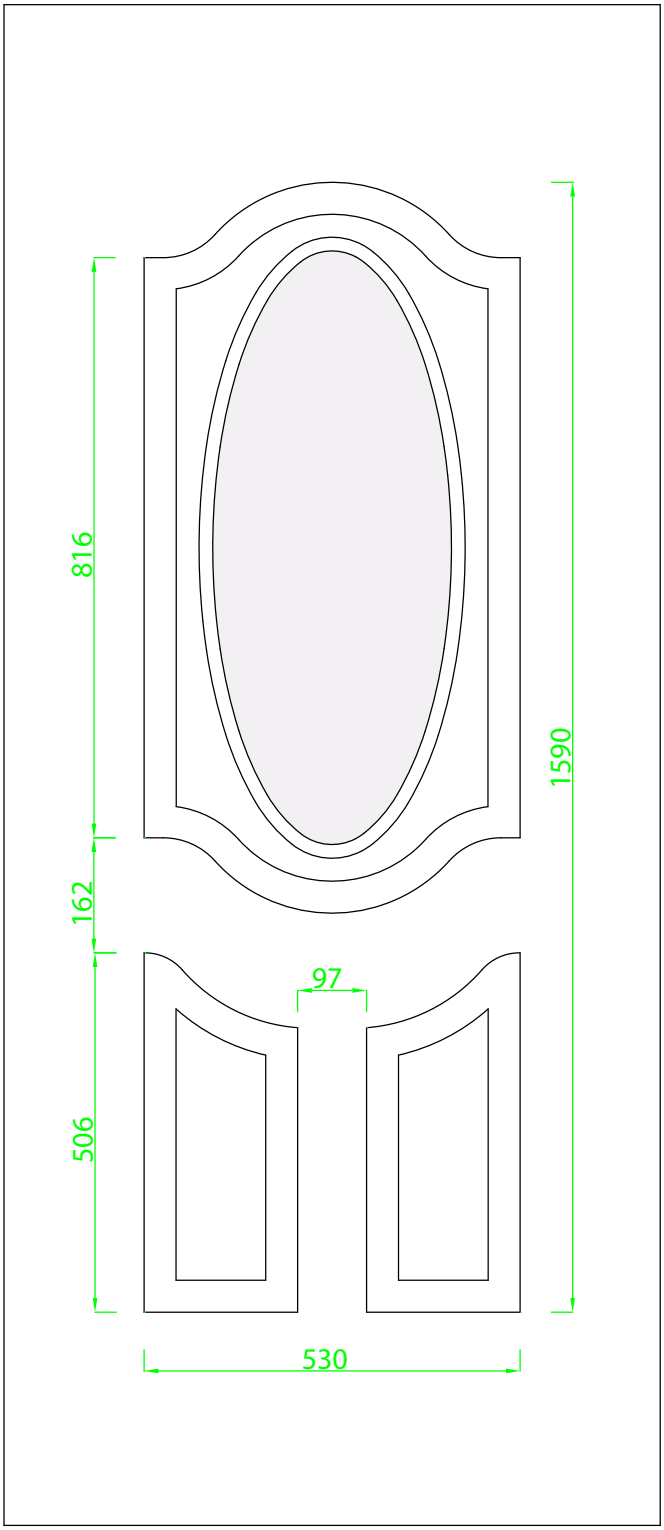
Press Glazing
Unit Thickness: 22
Unit Size: 212 X 212
Aperture: 172 X 172

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 684mm

Height

Max: 2098mm
Min: 1797mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

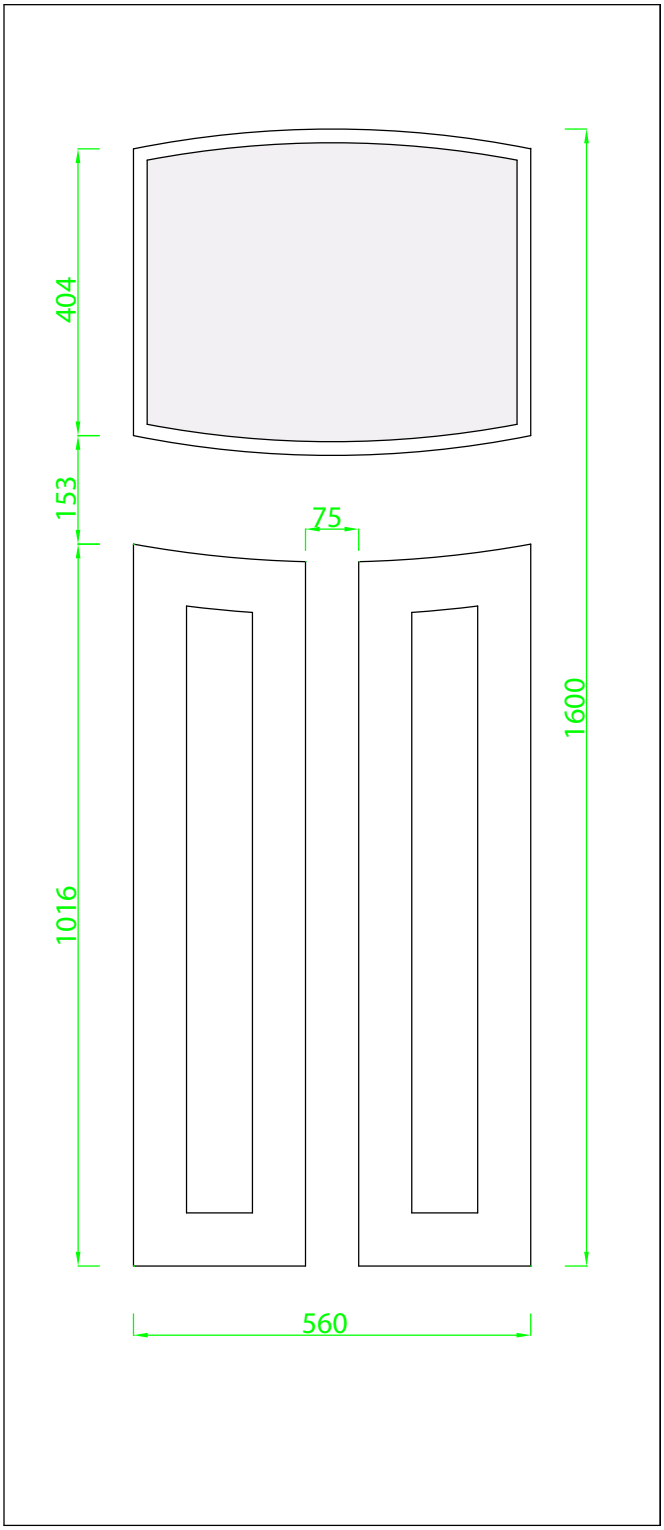
Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 365 X 862
Aperture: 320 X 819

Press Bead Glazing
N/A



Door Sash

Width

Max: 908mm
Min: 769mm

Height

Max: 2098mm
Min: 1809mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 547 X 447
Aperture: 512 X 409

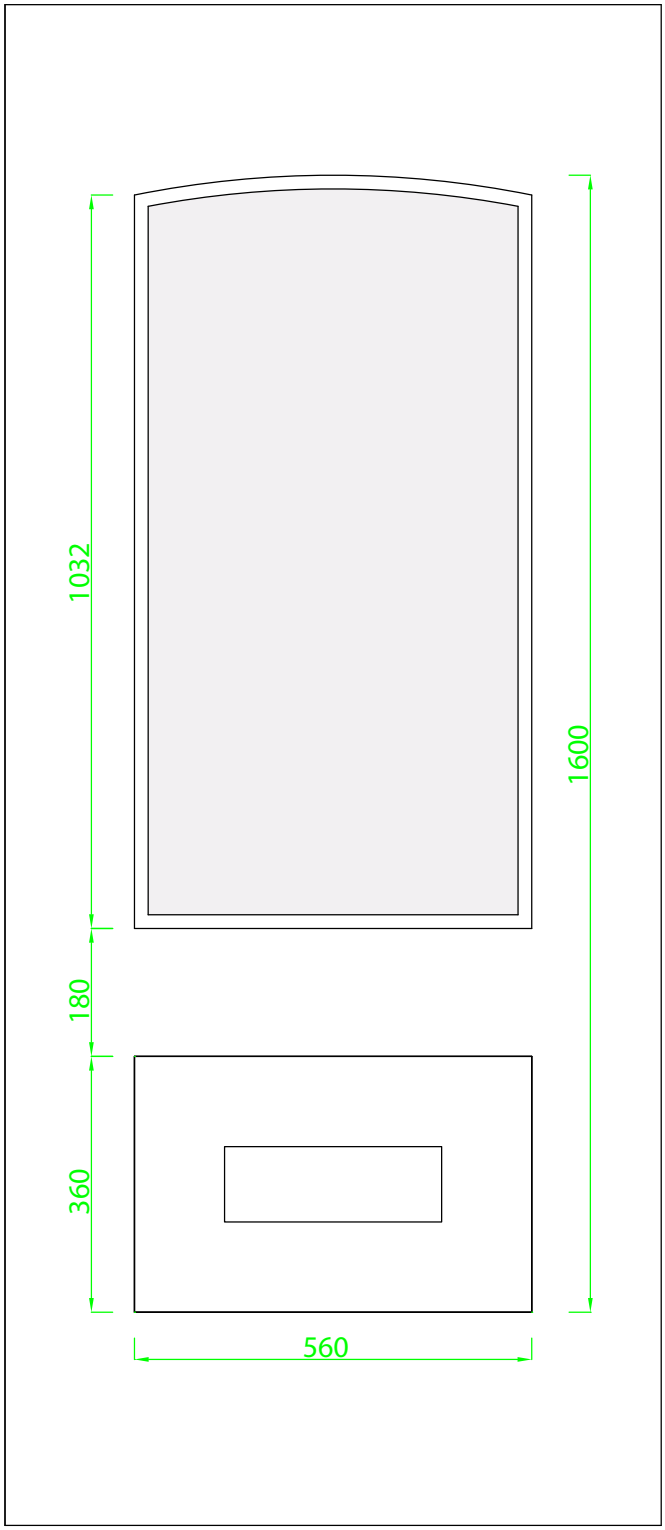
Press Bead Glazing
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 768mm

Height

Max: 2098mm
Min: 1808mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

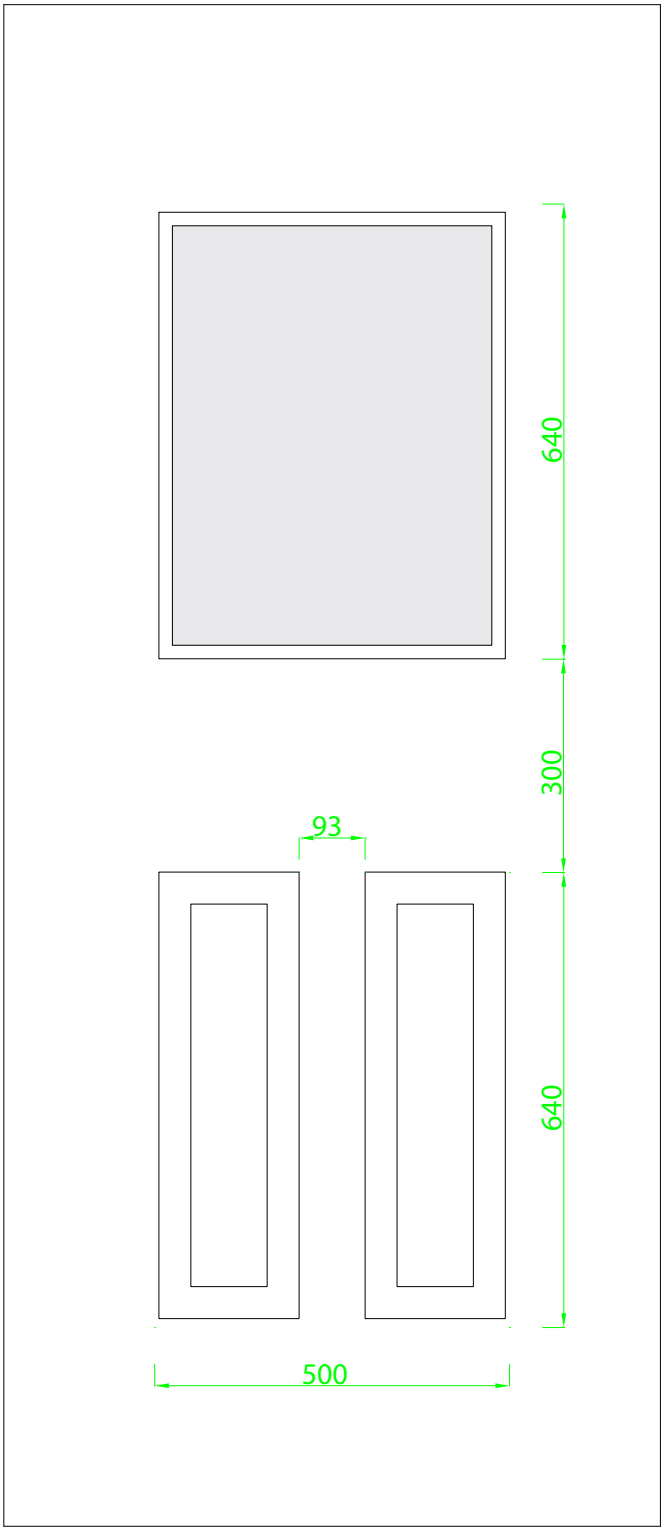
Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 547 X 1047
Aperture: 512 X 1011

Press Bead Glazing
N/A



Door Sash

Width

Max: 908mm
Min: 696mm

Height

Max: 2098mm
Min: 1764mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
N/A

Press Bead Glazing
Unit Thickness: 24

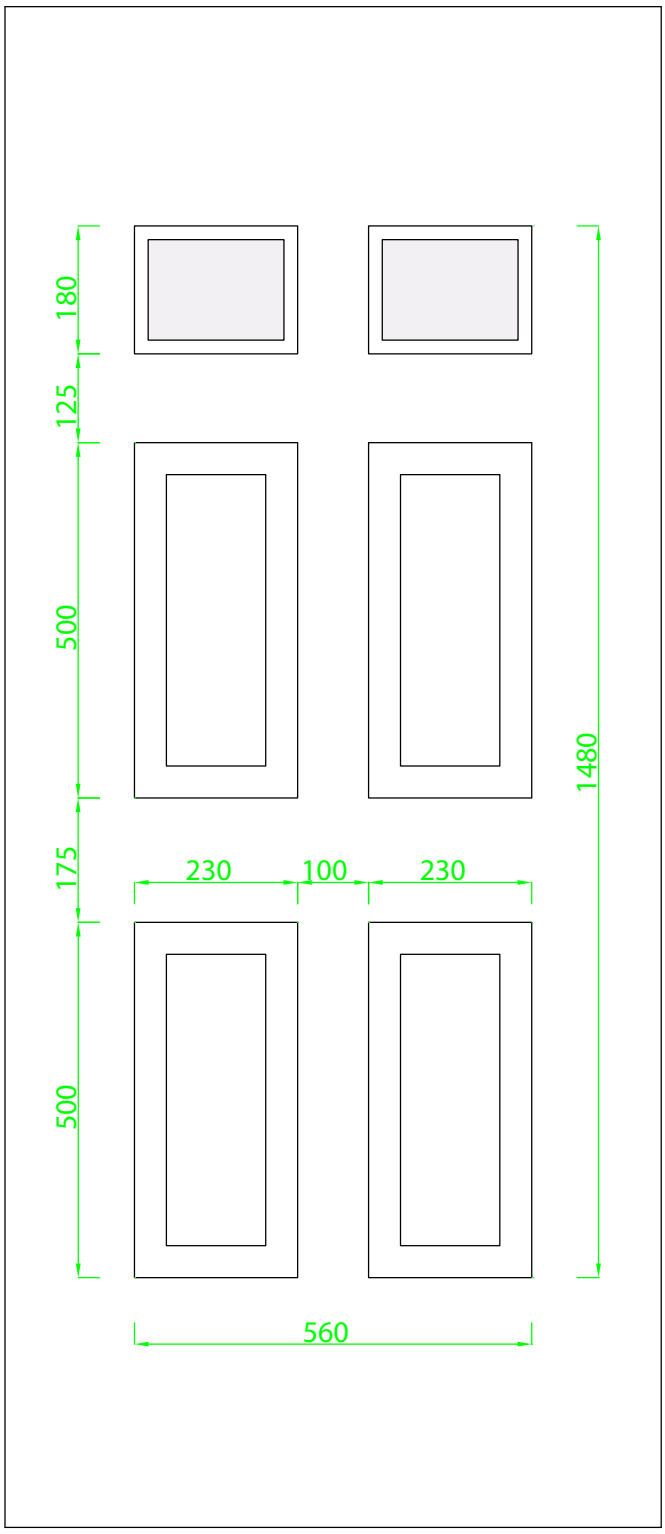
Unit Size:	440 X 580
Aperture:	410 X 550

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 769mm

Height

Max: 2098mm
Min: 1728mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

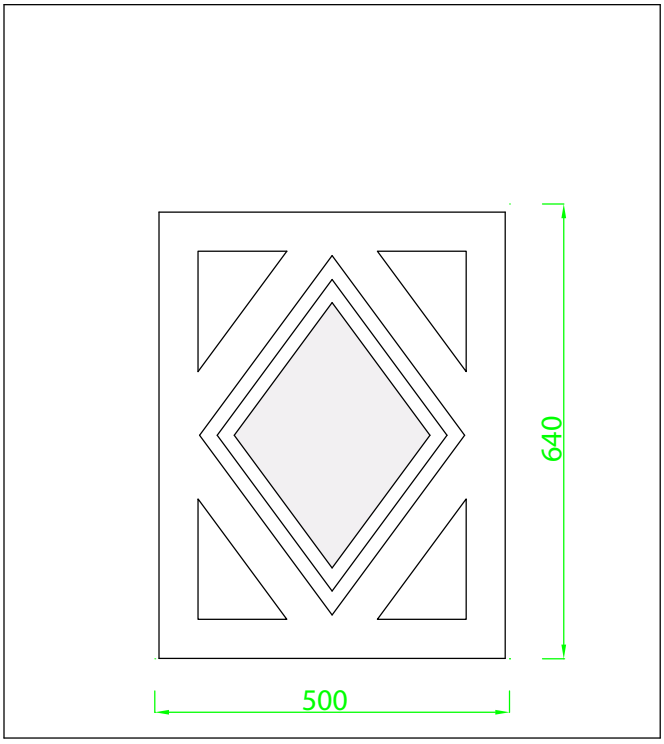
Height

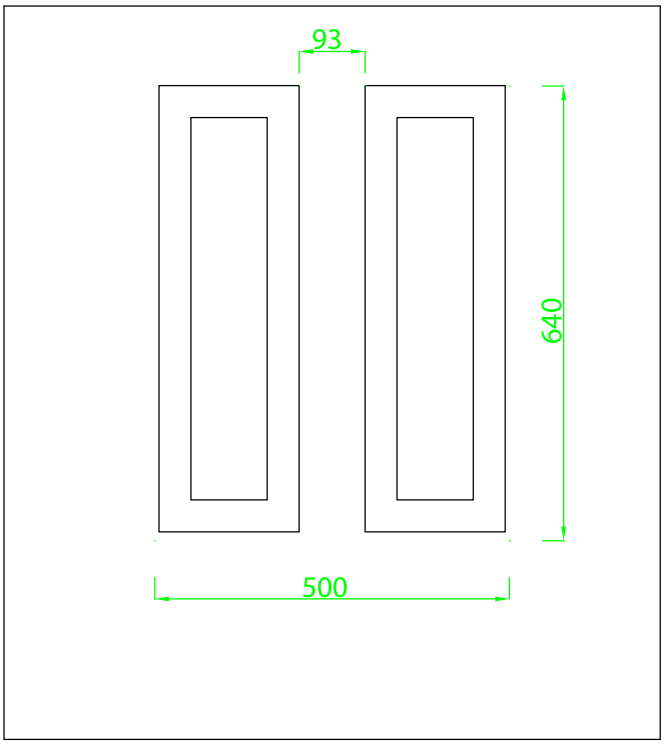
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 230 X 175
Aperture: 187 X 140

Press Bead Glazing
N/A





Door Sash

Width

Max: 908mm
Min: 696mm

Height

Max: 2014mm
Min: 1708mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
N/A

Press Glazing
Unit Thickness: 22
Unit Size: 320 X 435
Aperture: 277 X 371

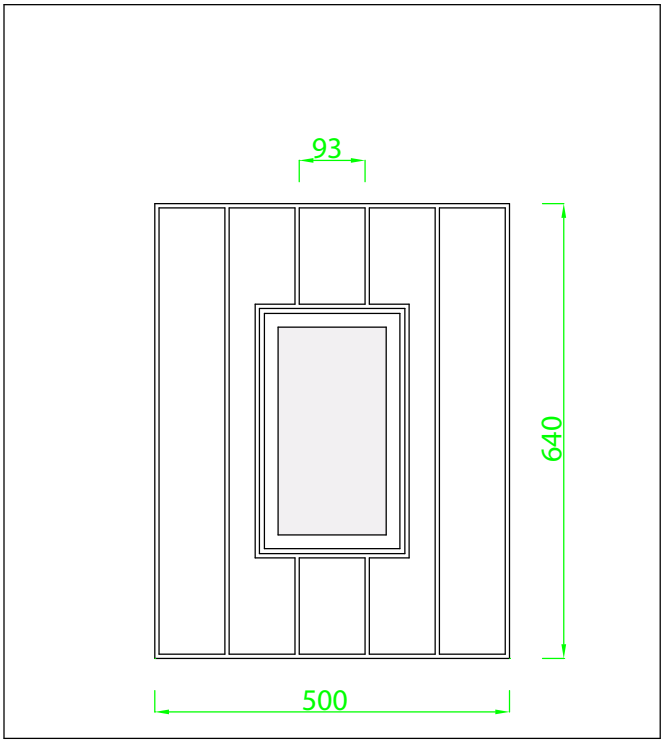
Press Bead Glazing
N/A

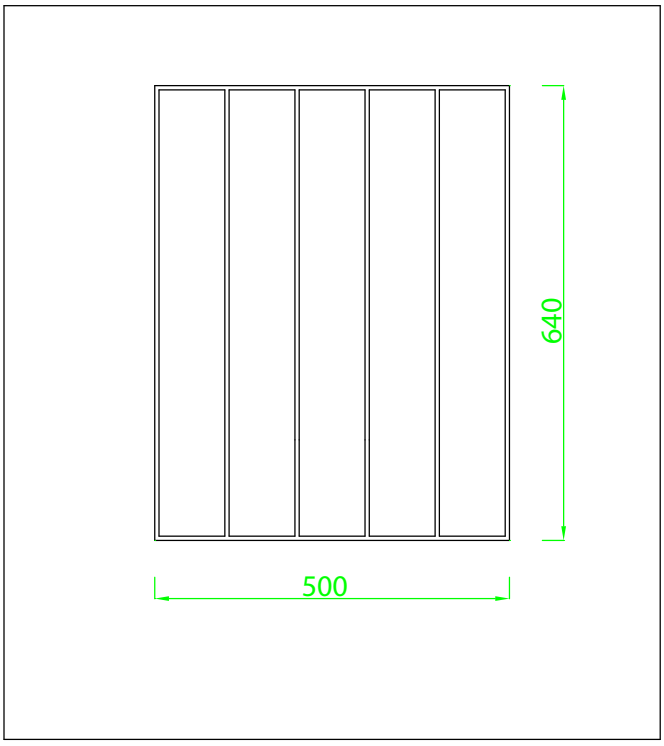
Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53





Door Sash

Width

Max: 908mm
Min: 673mm

Height

Max: 2014mm
Min: 1668mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

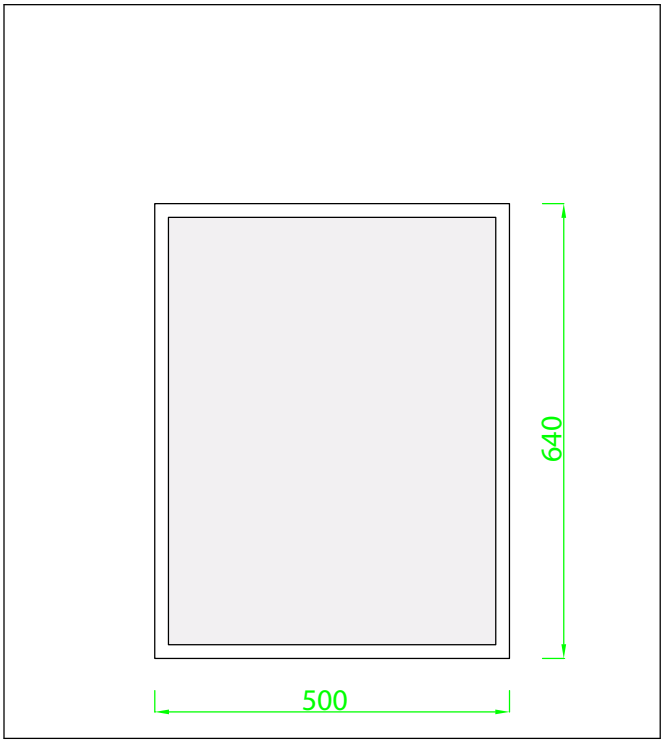
Height

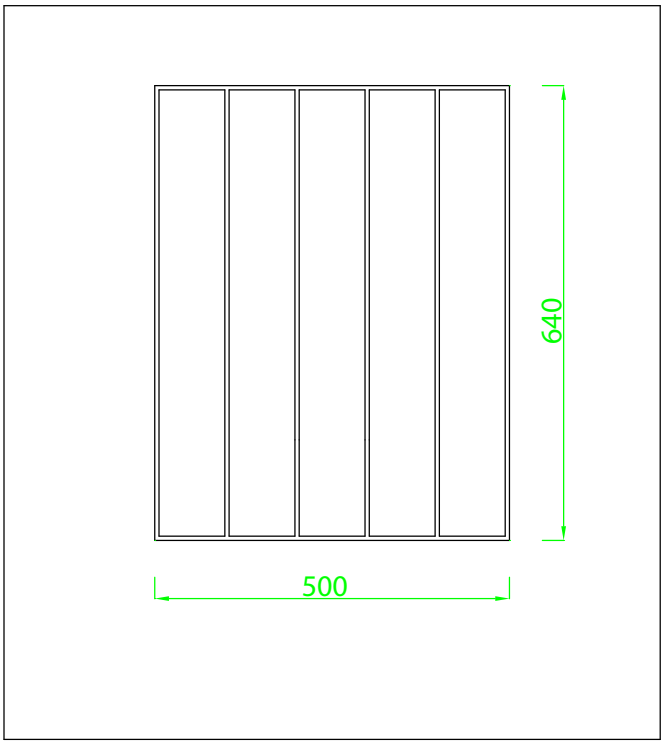
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
N/A

Press Glazing
Unit Thickness: 22
Unit Size: 150 X 300
Aperture: 109 X 252

Press Bead Glazing
N/A





Door Sash

Width

Max: 908mm
Min: 708mm

Height

Max: 2014mm
Min: 1708mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame

N/A

Press Glazing
Unit Thickness: 22
Unit Size: 485 X 625
Aperture: 436 X 576

Press Bead Glazing

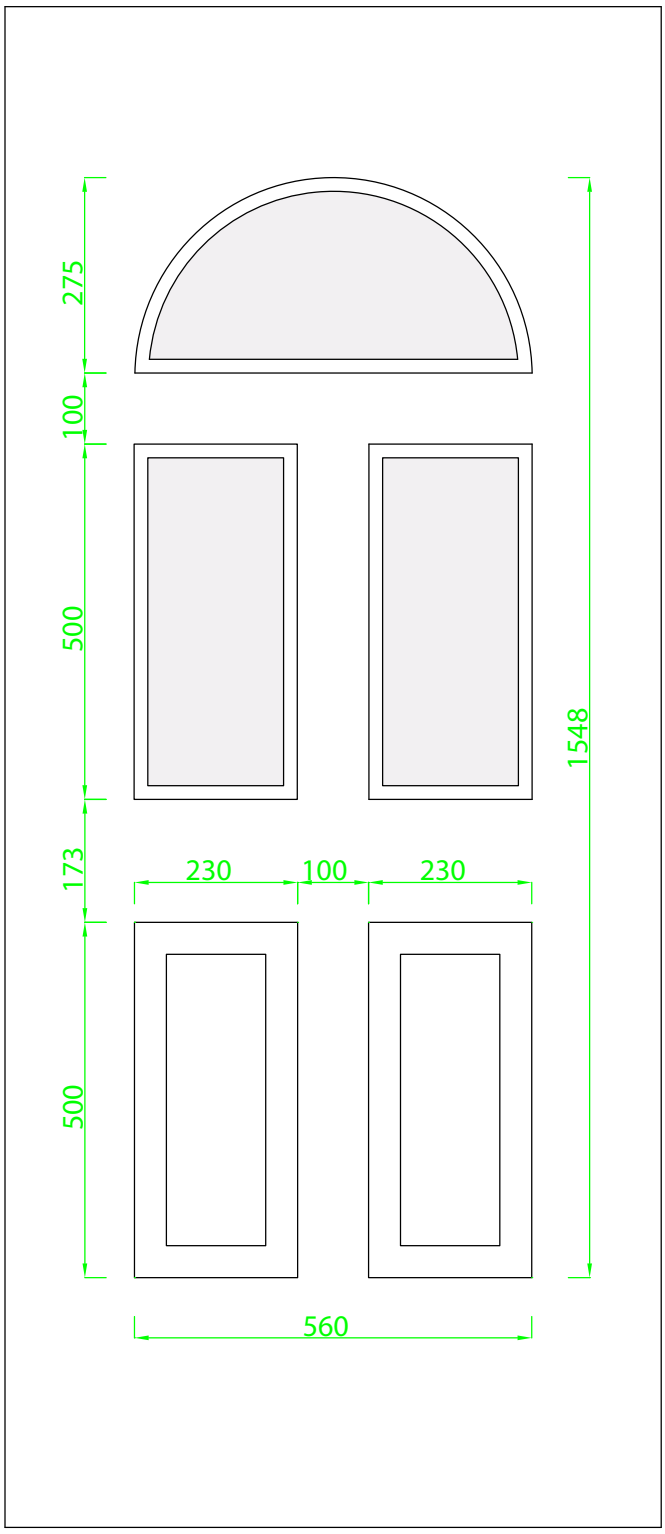
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 748mm

Height

Max: 2098mm
Min: 1748mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

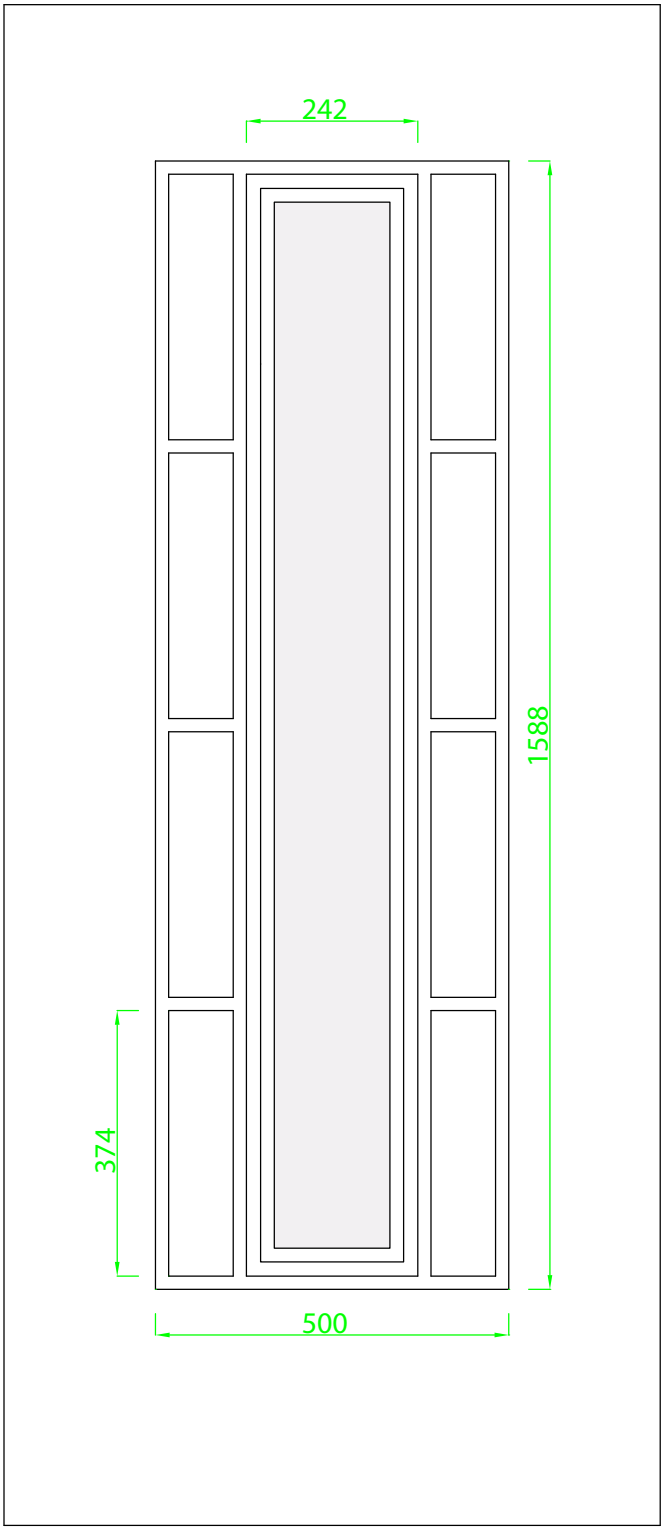
Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)



Door Sash

Width

Max: 908mm
Min: 675mm

Height

Max: 2098mm
Min: 1850mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 200 X 1510
Aperture: 163 X 1472

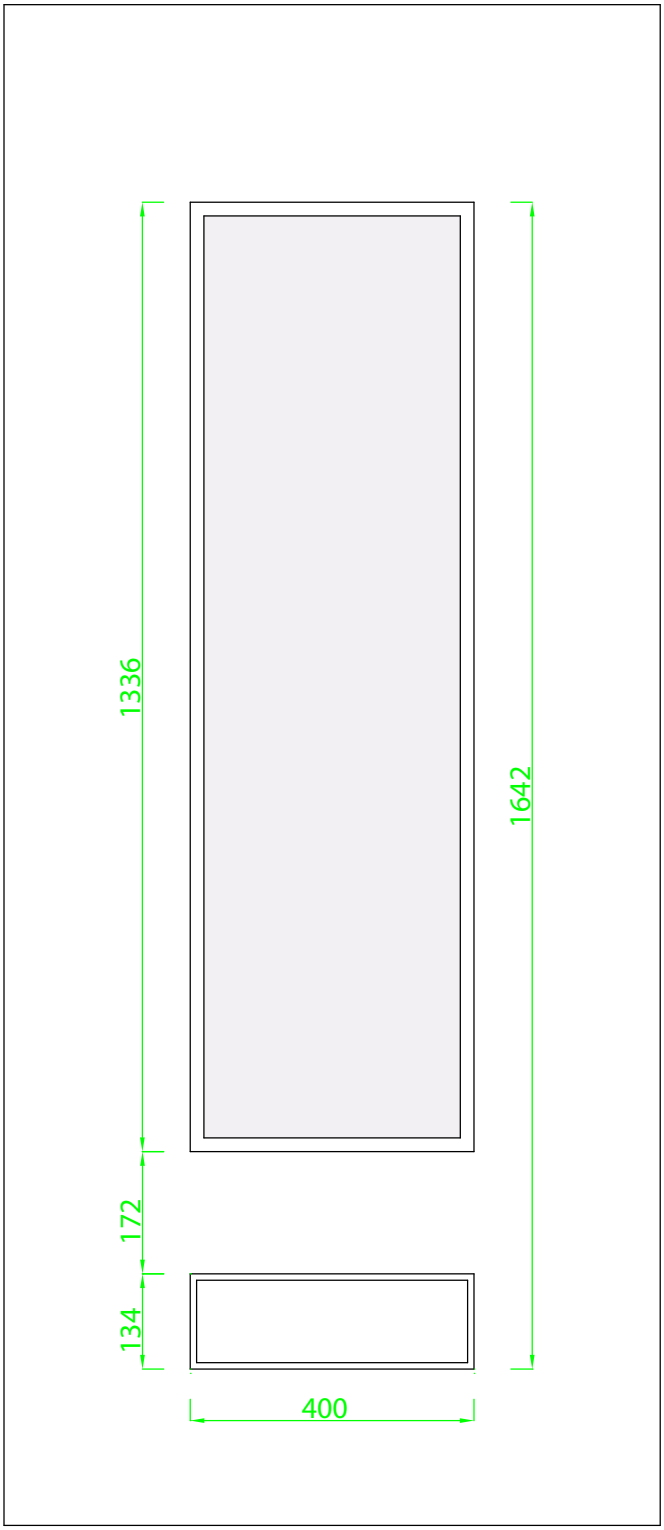
Press Bead Glazing
N/A

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53



Door Sash

Width

Max: 908mm
Min: 675mm

Height

Max: 2098mm
Min: 1850mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

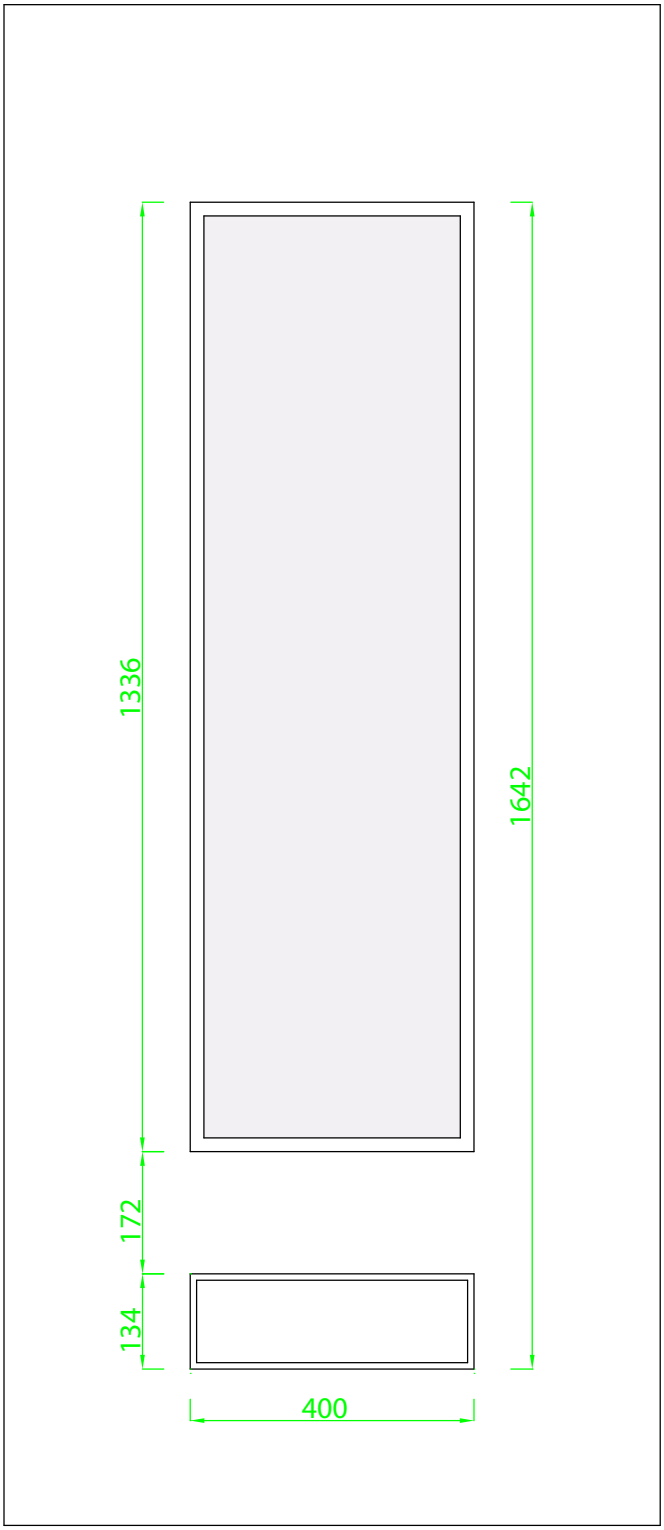
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 387 X 1323
Aperture: 352 X 1288

Press Bead Glazing
N/A

ROCK DOOR



Door Sash2

Width

Max: 908+7+908 = 1823mm
Min: 675+7+675 = 1357mm

Height

Max: 2098mm
Min: 1850mm Lock overide 1893mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 387 X 1323
Aperture: 352 X 1288

Press Bead Glazing
N/A

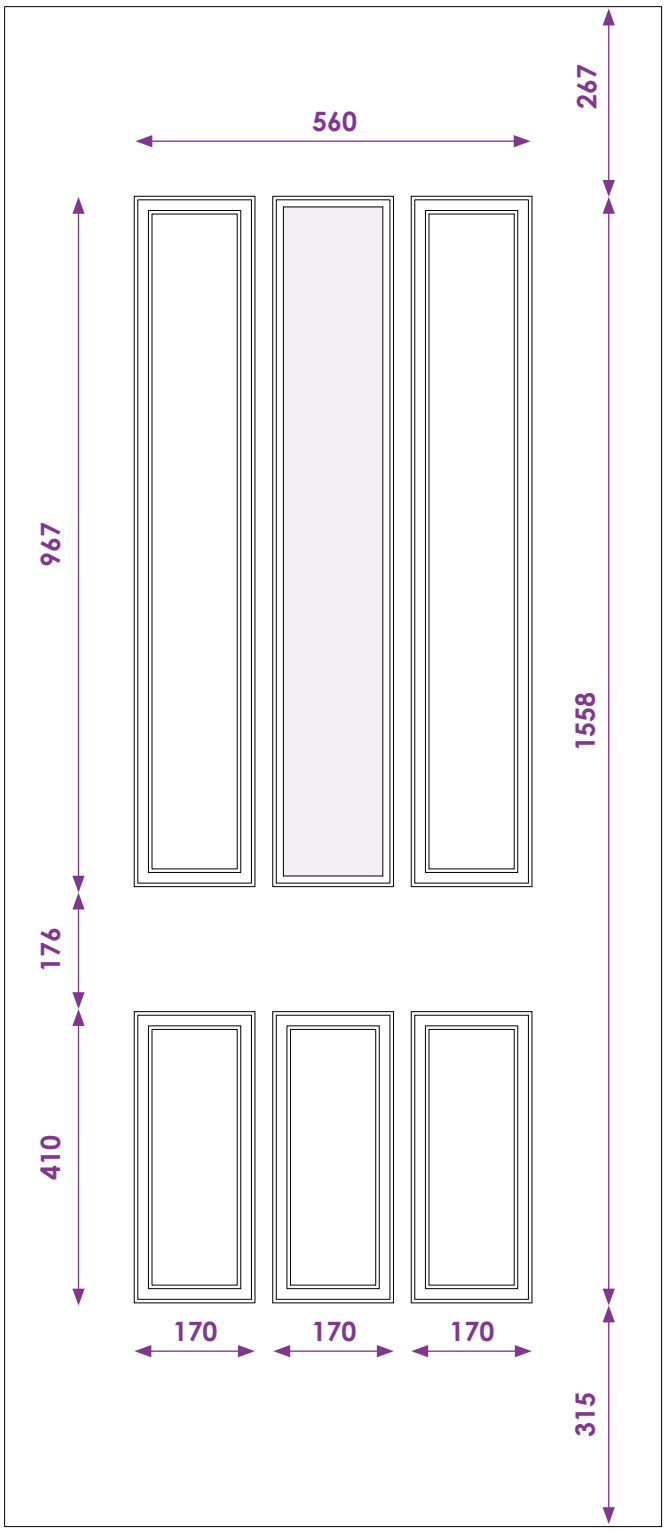
Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53

New Forest Texture & 26mm Unit



Door Sash

Width

Max: 908mm
Min: 769mm

Height

Max: 2098mm
Min: 1897mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

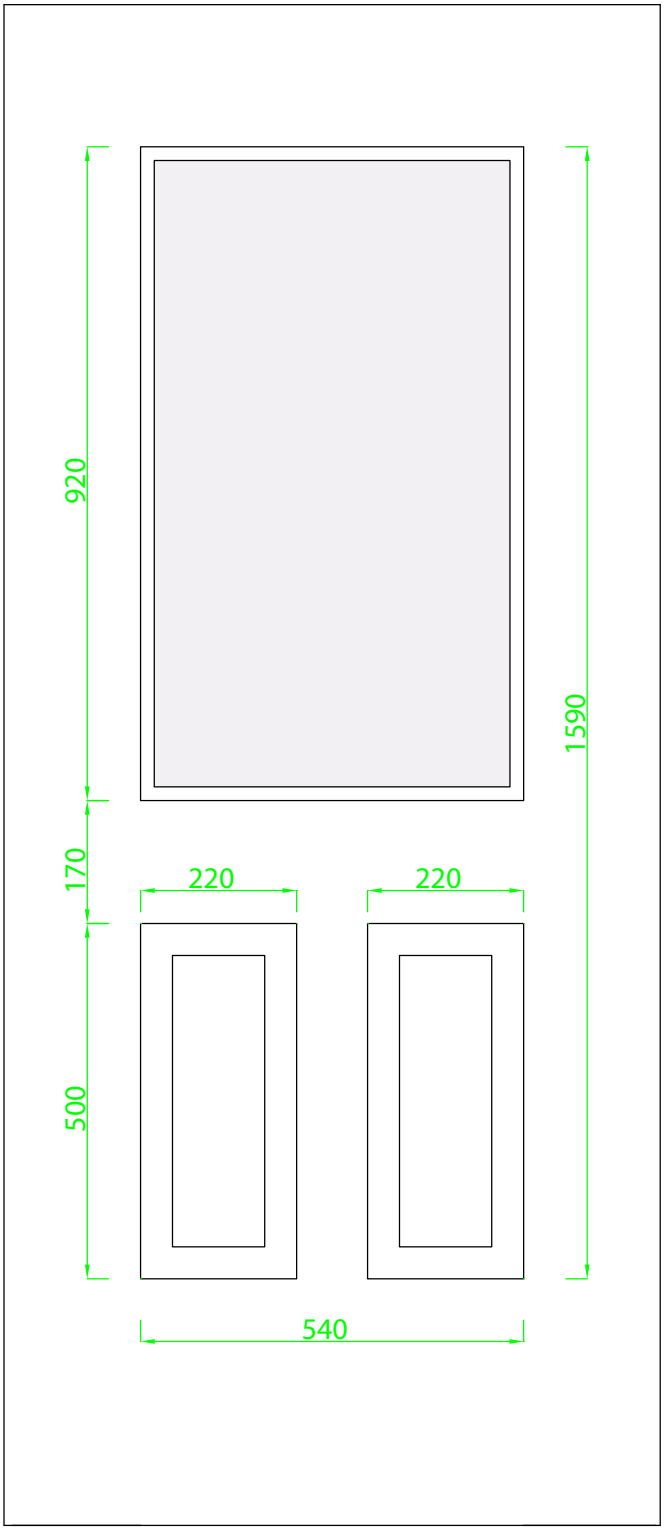
72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

PRESS GLAZING

UNIT THICKNESS:	26
UNIT SIZE:	177 x 977
APERTURE:	140x 940

ROCK DOOR



Door Sash

Width

Max: 908mm
Min: 748mm

Height

Max: 2098mm
Min: 1801mm

Profile Dimensions:
72 Frame: 52mm+4mm air gap = **56mm**
52 Frame: 32mm+4mm air gap = **36mm**
Ali low threshold open **IN** = **20mm**
Ali low threshold open **OUT** = **17mm**
Cill = **30mm**

Width

72 Frame
Max = (Max sash width + 56mm + 56mm)
Min = (Min sash width + 56mm + 56mm)
52 Frame
Max = (Max sash width + 36mm + 36mm)
Min = (Min sash width + 36mm + 36mm)

Height

72 Frame low threshold open IN
Max = (Max sash height + 56mm + 20mm)
Min = (Min sash height + 56mm + 20mm)
52 Frame low threshold open IN
Max = (Max sash height + 36mm + 20mm)
Min = (Min sash height + 36mm + 20mm)

Double Door Width 72mm Frame
Max = (Max sash width + Max sash width +56mm + 56mm + 7mm)
Min = (Min sash width + Min sash width +56mm + 56mm + 7mm)

Press Glazing
Unit Thickness: 22
Unit Size: 530 X 910
Aperture: 495 X 872

Press Bead Glazing
Unit Thickness: 24
Unit Size: 495 X 875
Aperture: 462 X 842

Lock options and double doors and French doors can overide the minimum sash heights stated above:

Minimum Sash Size Overides page 40

The overall frame dimensions can be increased or reduced by using other profiles:

Door Outer Frame page 52
PVC-U Thresholds page 47
Ali Thresholds / Tie Bars page 46
Cills page 48
Add On / Frame Extensions page 53

2 Hook Lever Lock and Key Lock
Minimum sash height is 1880mm
Below 1880mm a 3 hook lock will be used (Charged for a 4 hook lock)

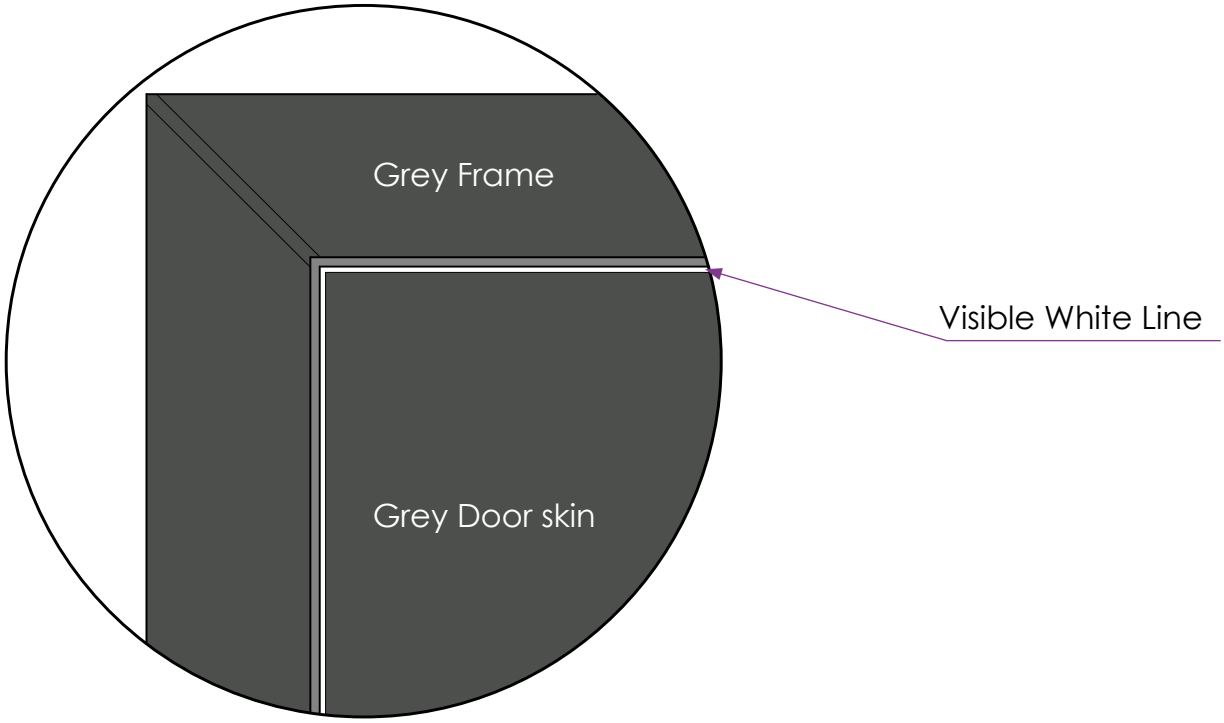
Double Doors
Minimum sash height is 1996mm
Below 1996mm a 3 hook lock will be used (Charged for a 4 hook lock)

French Doors
Minimum sash height is 1893mm

Where the sash and frame meet on the flush side, there is a chamfer on the door which is visible. It is more noticable when the door and frame are dark colours.

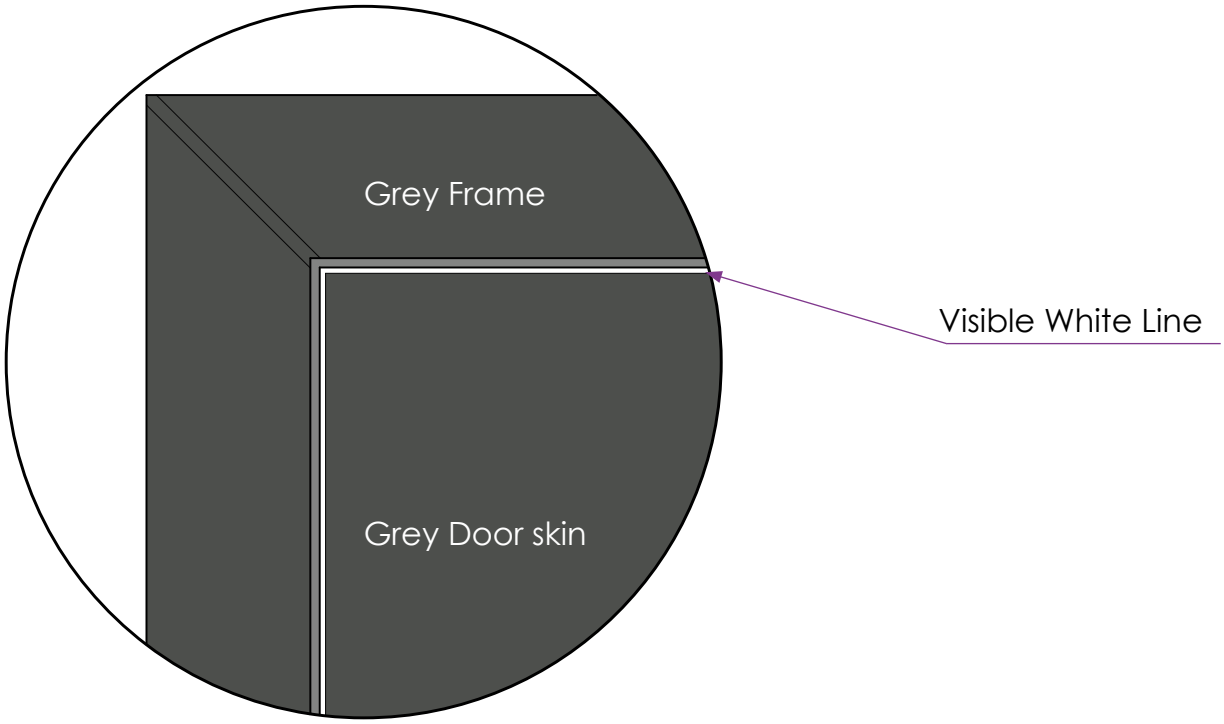
Open Out Doors with matching sash and frame colours

External View



Open In Doors with matching sash and frame colours

Internal View



Door and Frame Colour Options

WHITE
Available with matching outerframe.

CREAM (RAL9001)
Available with matching outerframe.

BLACK (RAL8022)
Available with matching outerframe.

ANTHRACITE GREY (RAL7016)
Available with matching outerframe.

SLATE GREY (RAL7015)
Available with matching outerframe.

AGATE GREY (RAL7038)
Available with matching outerframe.

CHARTWELL GREEN
Available with matching outerframe.

ROSEWOOD
Available with matching outerframe.

LIGHT OAK
Available with matching outerframe.

IRISH OAK
Available with matching outerframe.

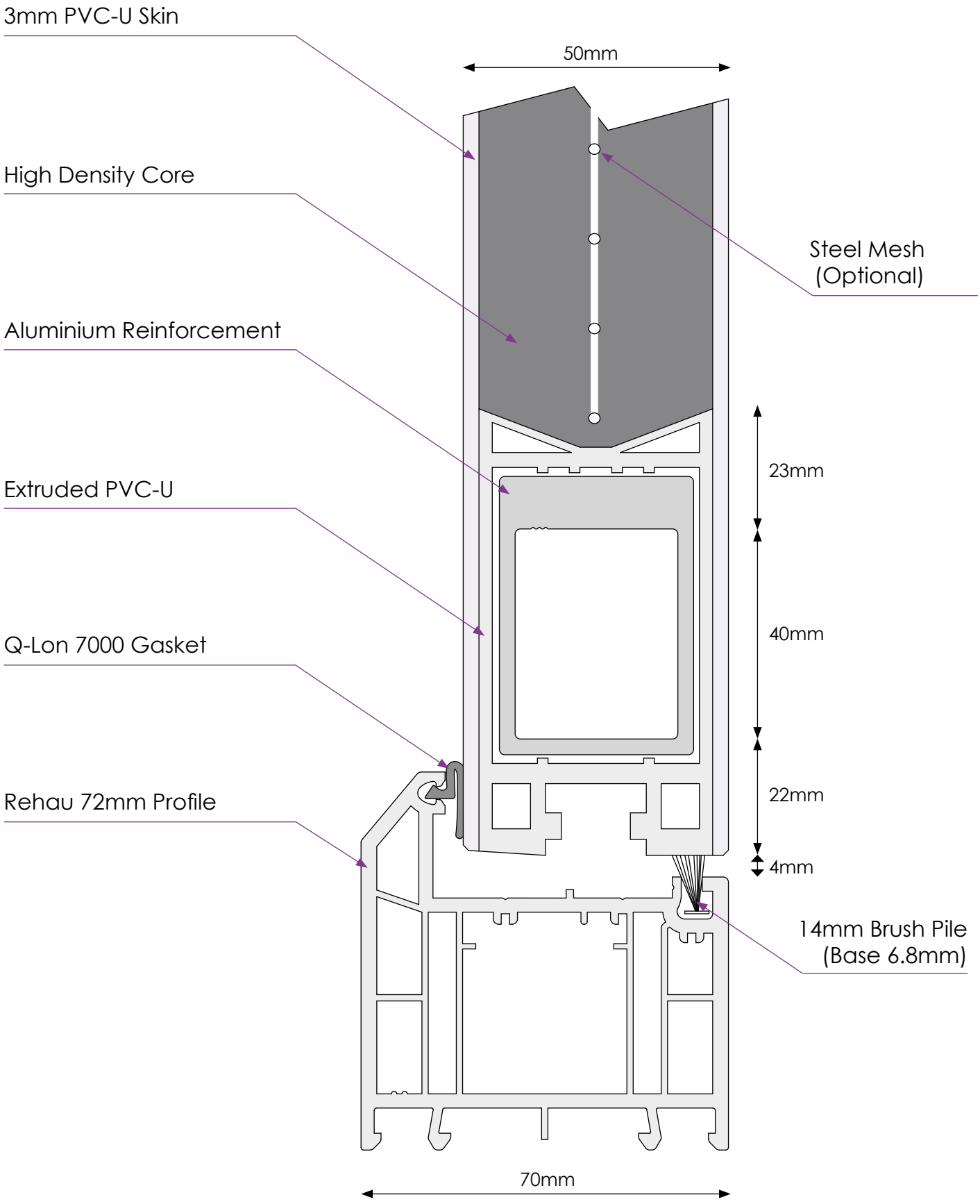
SAPPHIRE BLUE (RAL5011)

EMERALD GREEN (RAL6009)

RUBY RED (RAL3011)

PEBBLE GREY (RAL7032)
Available with matching outerframe.
Large face only.

Inner Frame Detail



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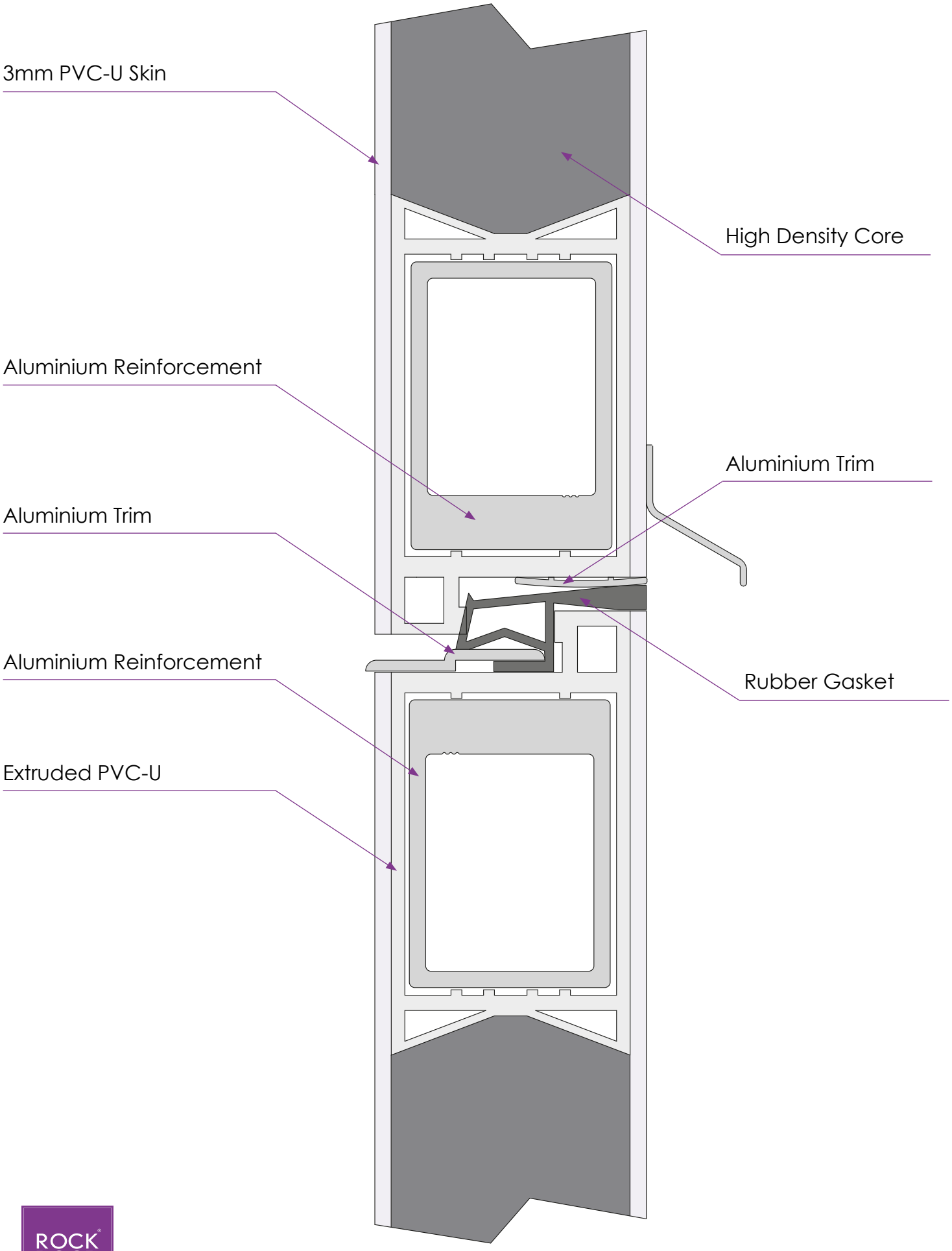
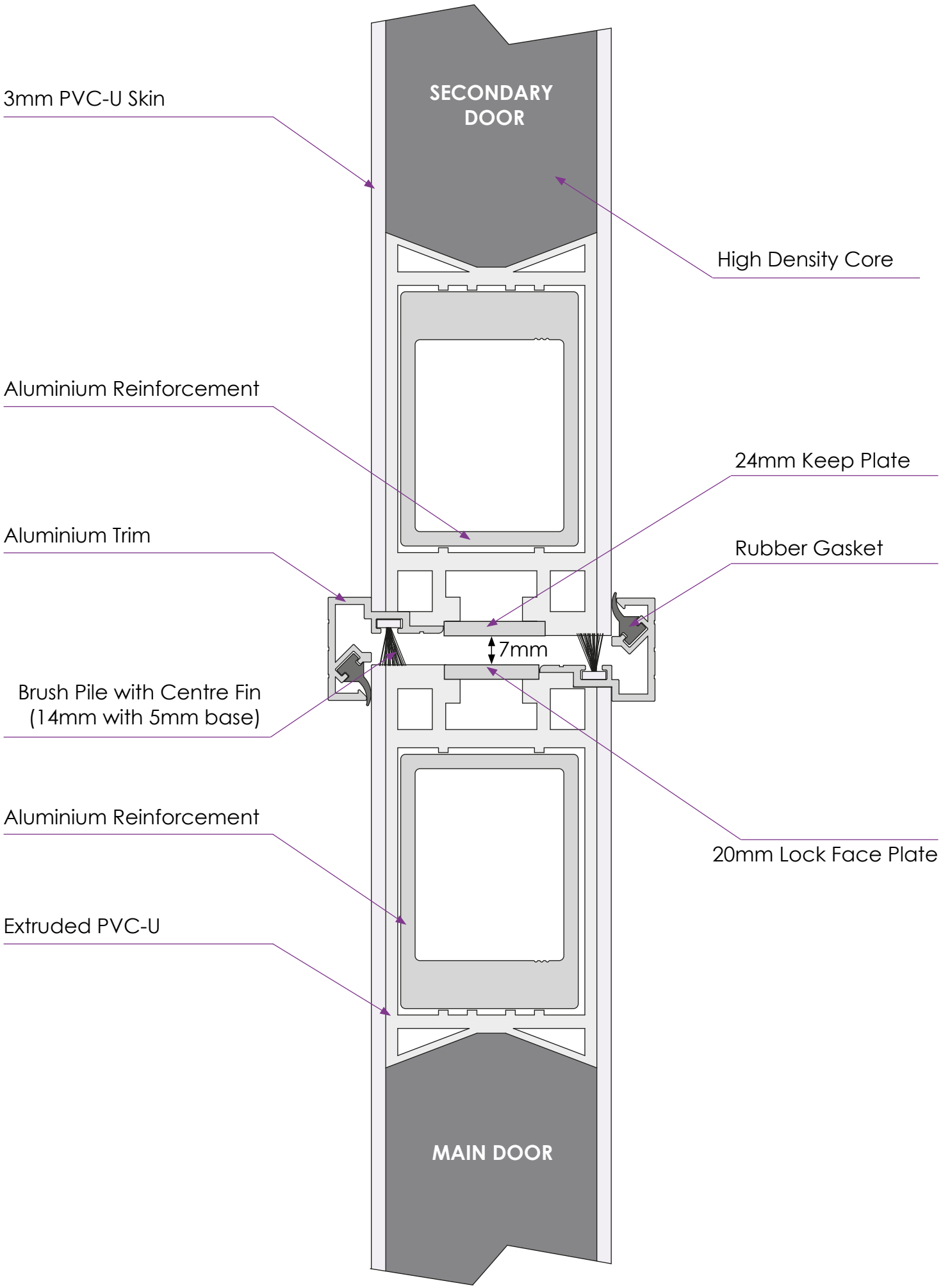
Stable Door Centre Seal



French / Double Door Centre Seal



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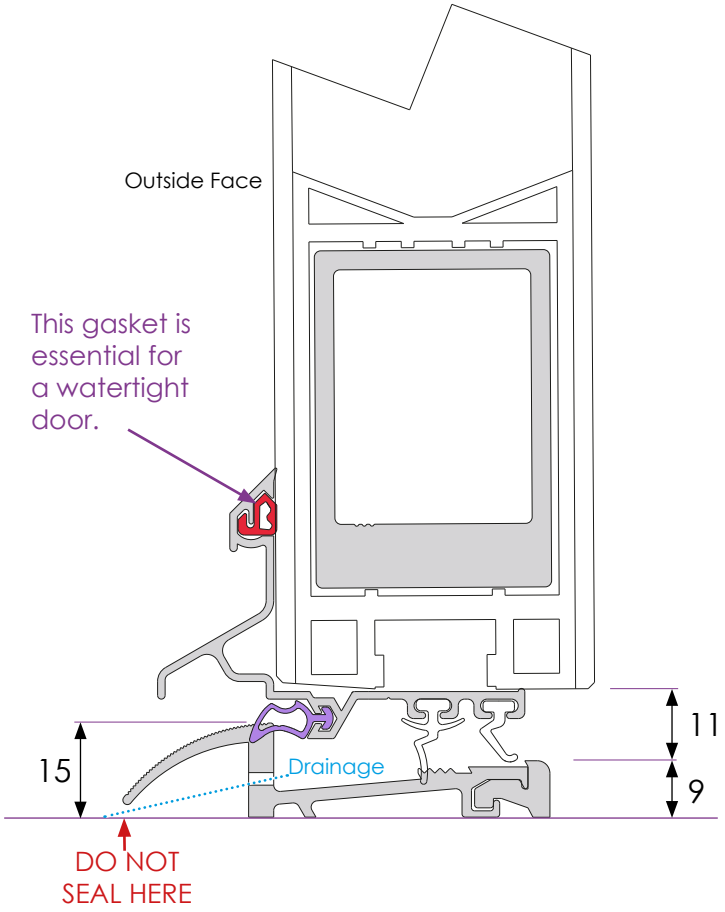
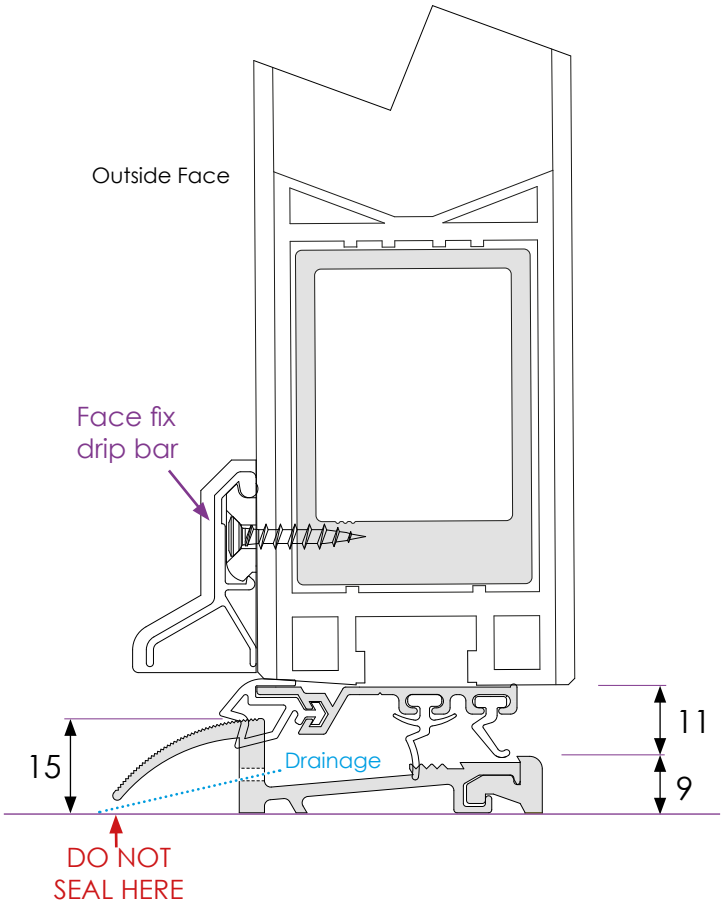
Open **IN** Aluminium Threshold

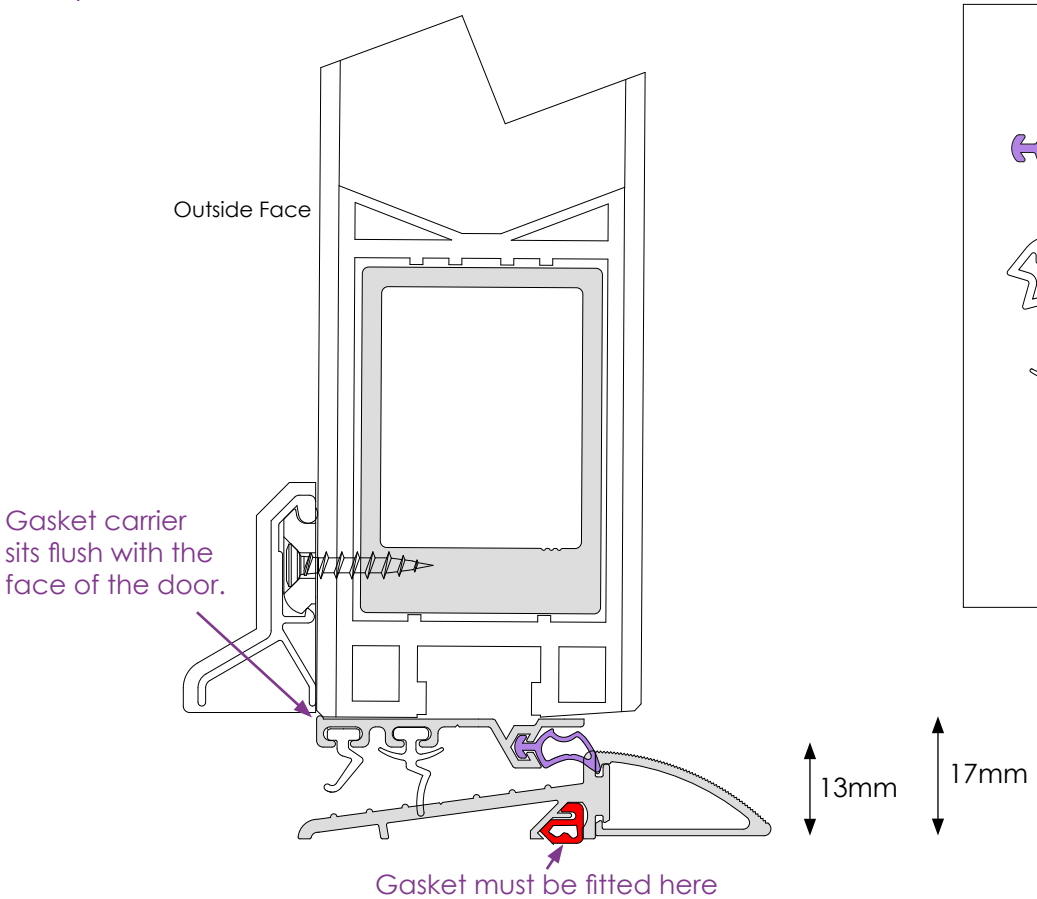
Drip bar and gasket carrier one piece, colour matched to the furniture.



Face fix drip bar with separate gasket carrier, colour matched to the door.



Open **OUT** Aluminium Threshold



Gasket Codes


R149


Comes with the carrier

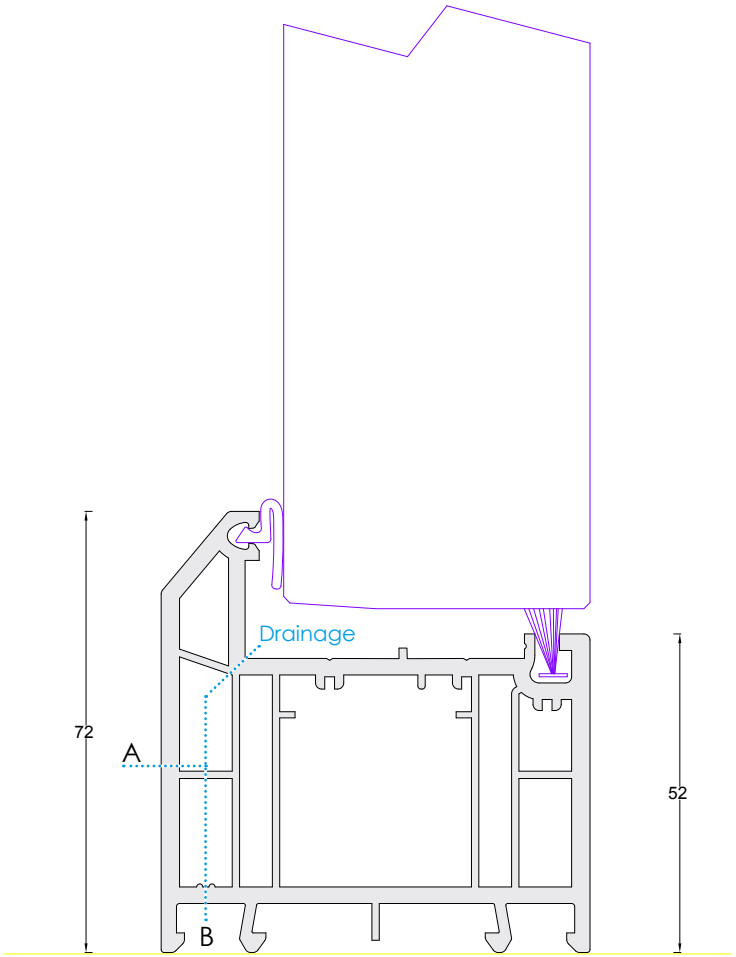

R149A


R149B

72mm PVC-U Threshold

A= Face Drainage
(Slots 5mm x 35mm)

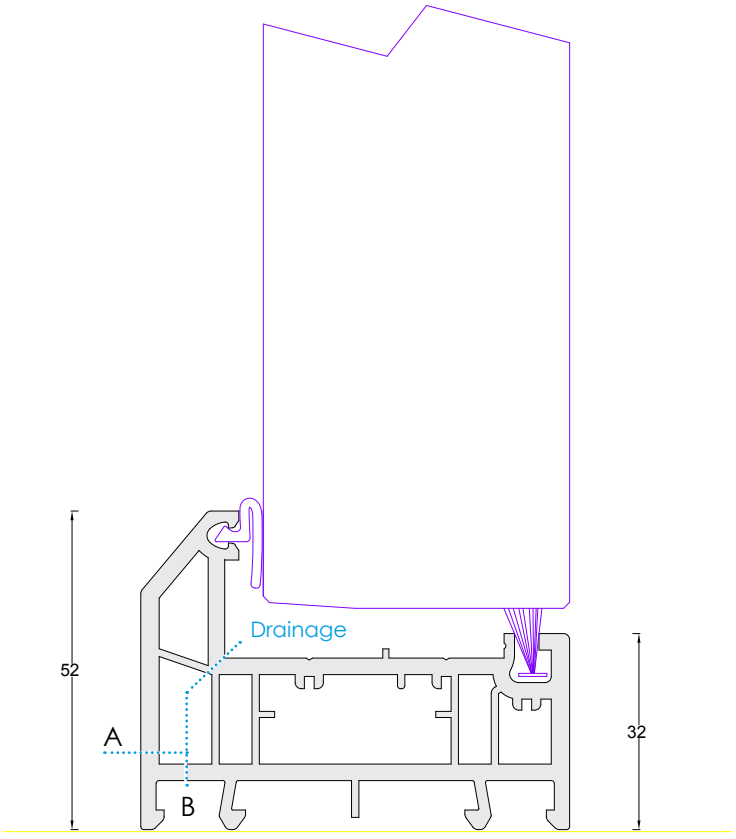
B= Concealed Drainage



52mm PVC-U Threshold

A= Face Drainage
(Slots 5mm x 35mm)

B= Concealed Drainage



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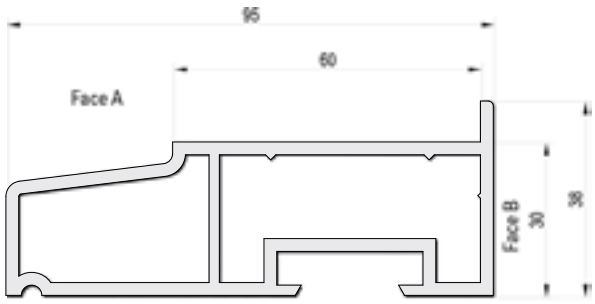
Cill Detail

If a cill is required on a Rockdoors with a sideframe a reinforced cill **must** be used.

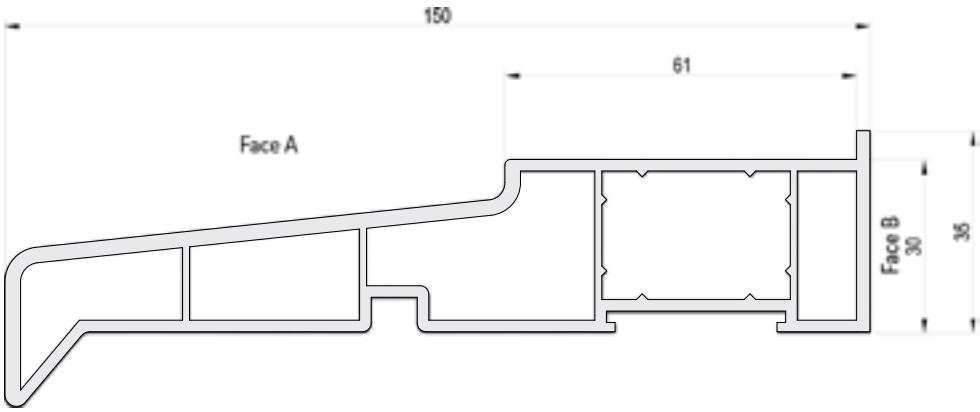
95mm Cill
Art.546360



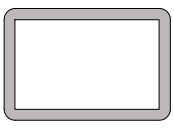
Reinforcement
Art.251355

50mm x 15mm

150mm Cill
Art.246330



Reinforcement
Art.324971

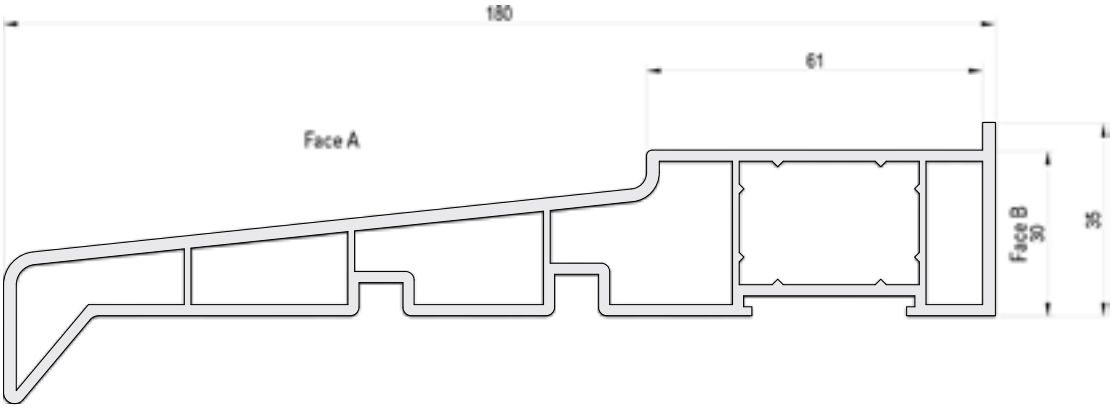


30mm x 20mm

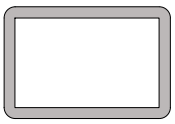
Face A & Face B used to identify foiled face

If a cill is required on a Rockdoors with a sideframe a reinforced cill **must** be used.

180mm Cill
Art.246340
Reinforcement 30 x 20

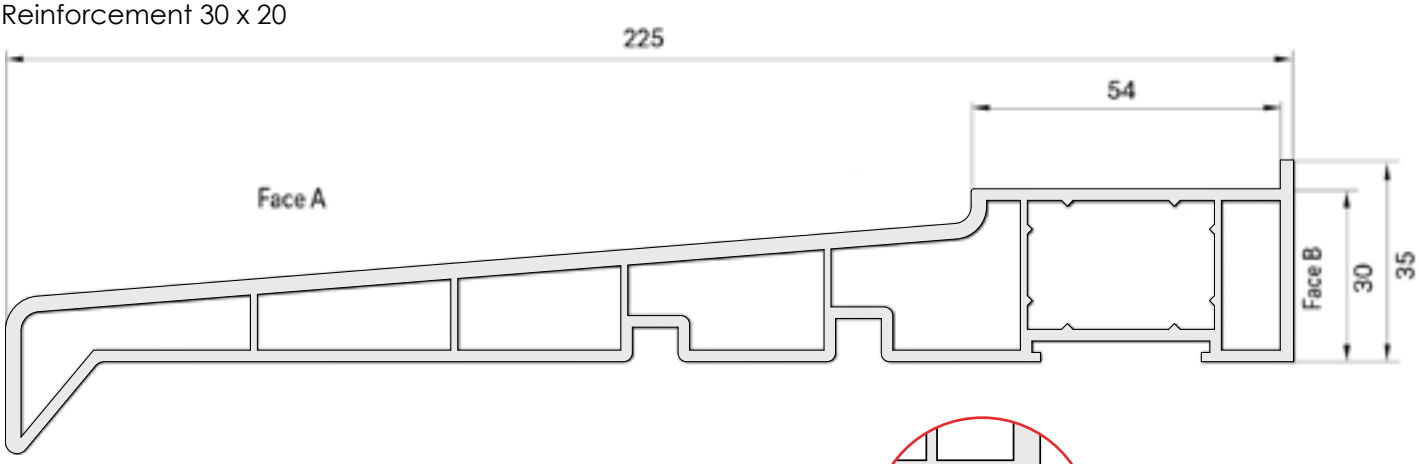


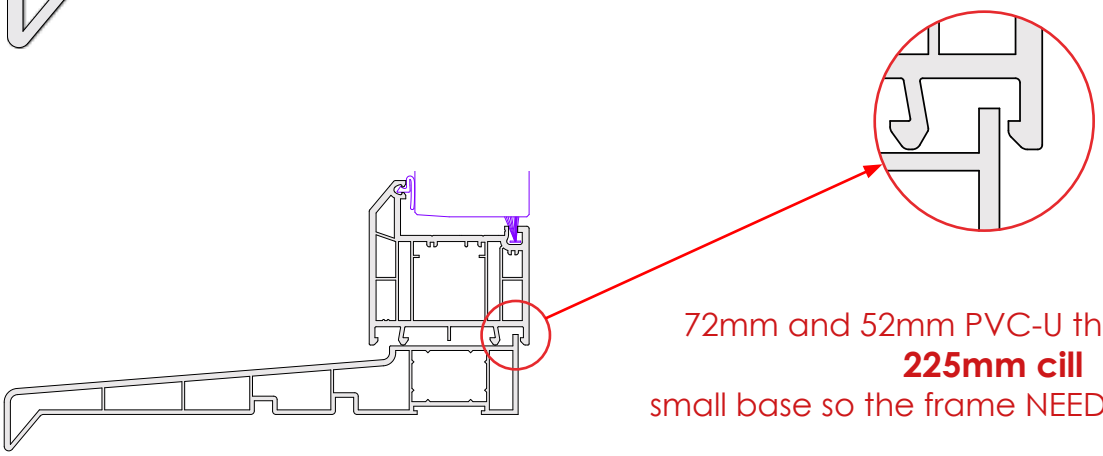
Reinforcement for BOTH 180mm and 225mm cill
Art.324971
50 x 15
Reinforcement 30 x 20



30mm x 20mm

225mm Cill
Art.503940
Reinforcement 30 x 20





72mm and 52mm PVC-U threshold on a
225mm cill
small base so the frame NEEDS SITTING BACK

Face A & Face B used to identify foiled face

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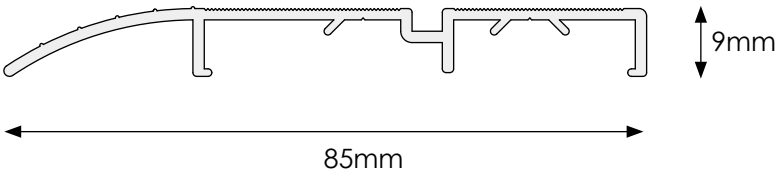
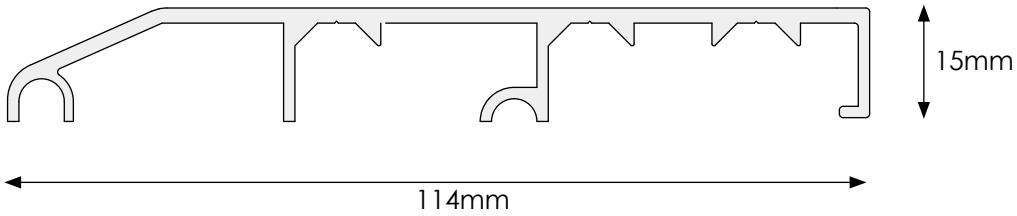
Tie Bar 9mm x 85mm (Max 3m in length)



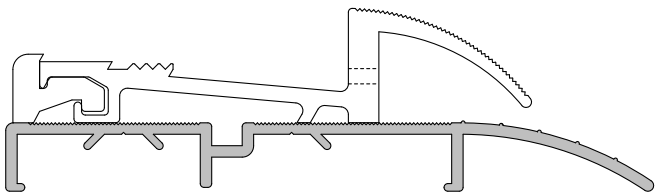
Aluminium
Available in Gold and Silver

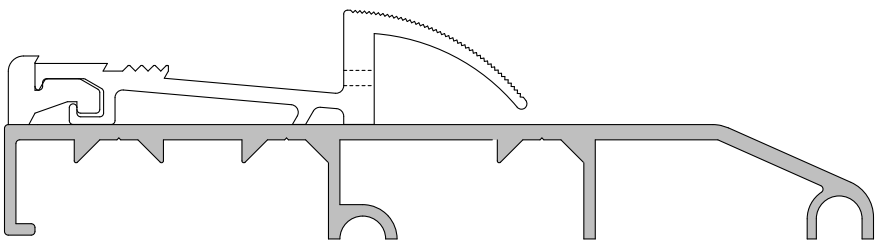
Tie Bar 15mm x 114mm (Max 3m in length)



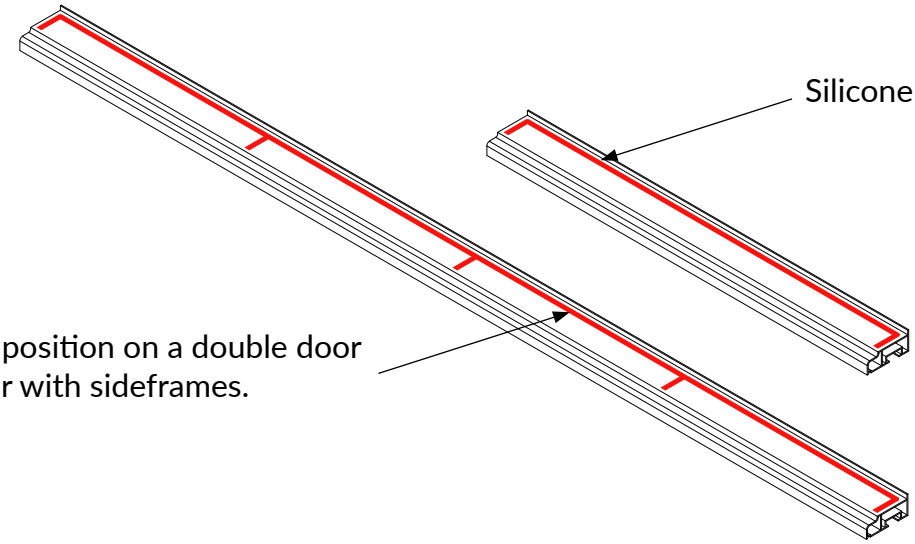
Tie bars can be used with all threshold types and can be positioned to suit the application.

Examples using an open in low aluminium threshold.

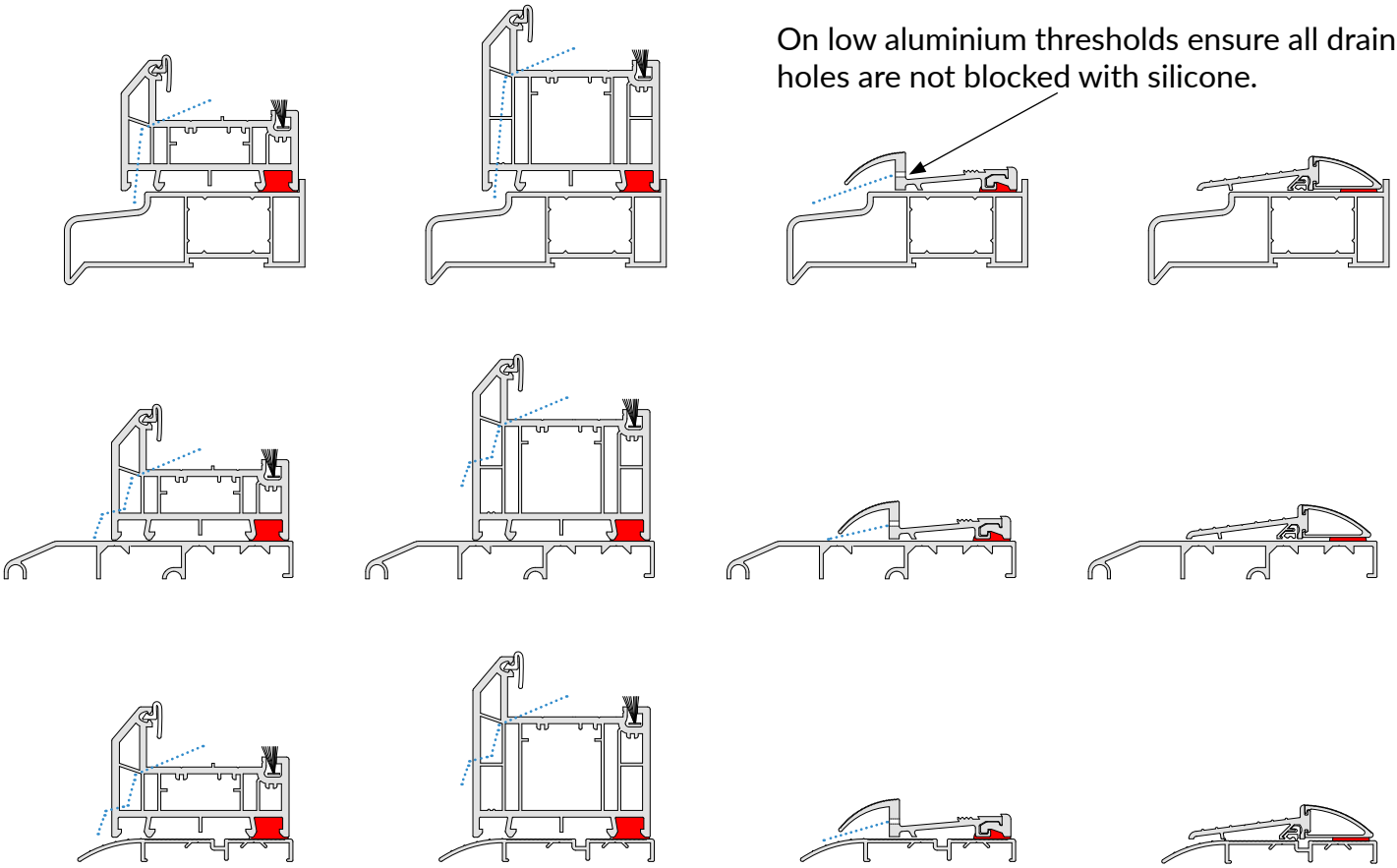




Sealing a threshold to a cill or tie bar



The position of the silicone seal is marked in red.

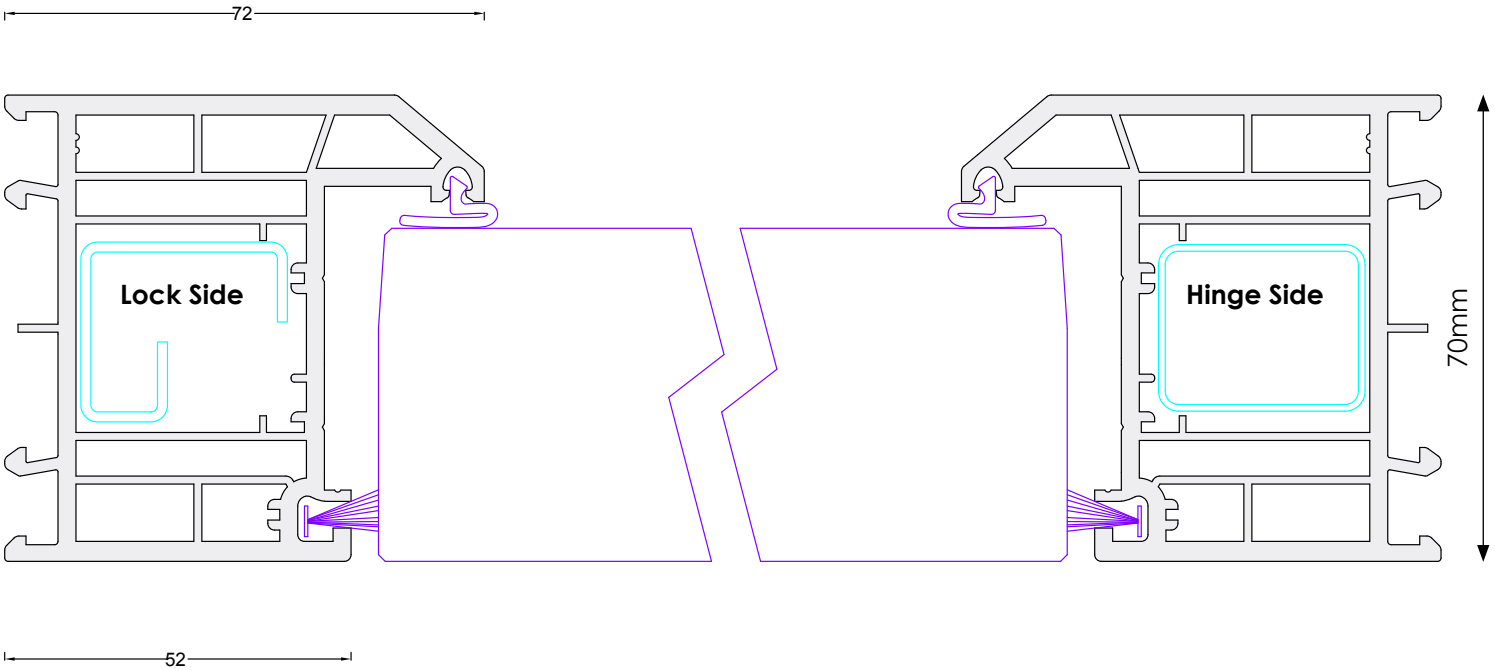


NOTE:

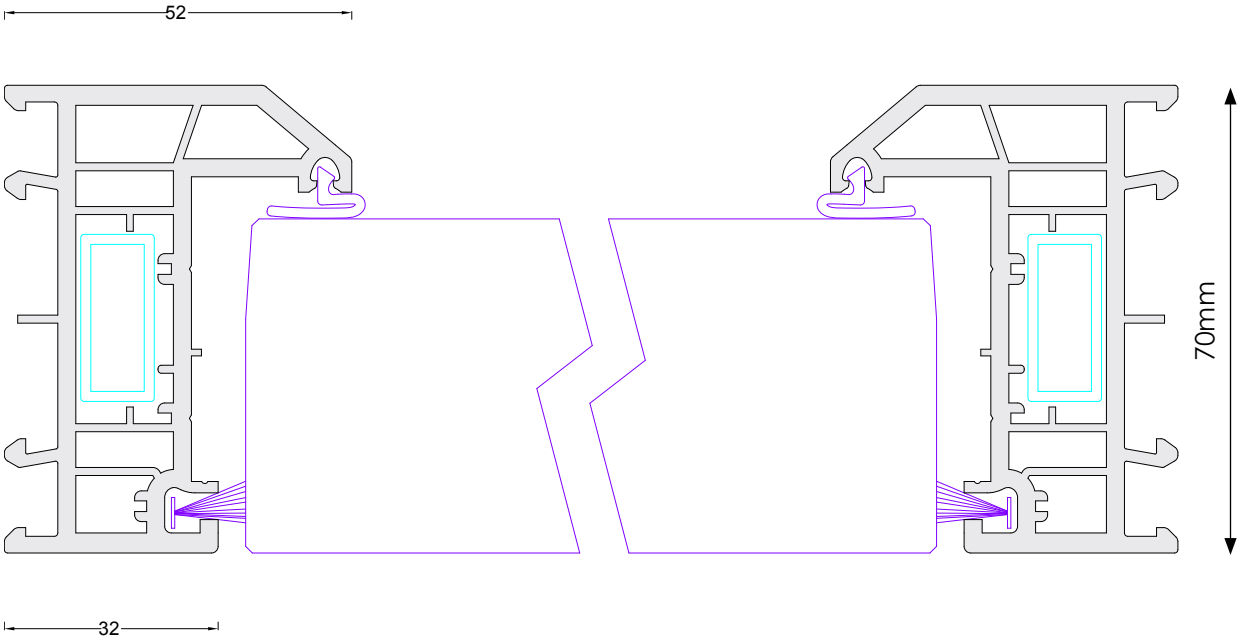
The full perimeter of the door and under the cill / tie bar must be externally sealed in addition to the sealing listed above.

Outer Frame Detail

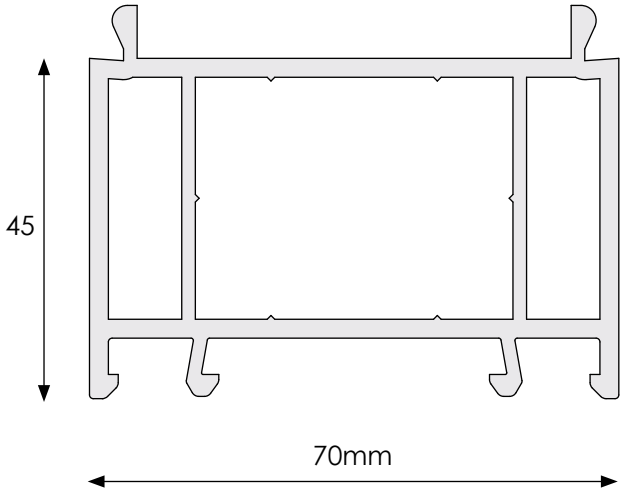
72mm Outer Frame



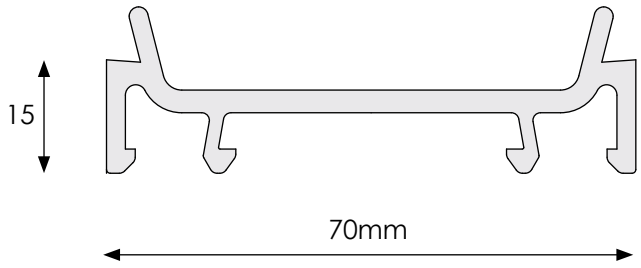
52mm Outer Frame



45mm Add On / Frame Extension



15mm Add On / Frame Extension



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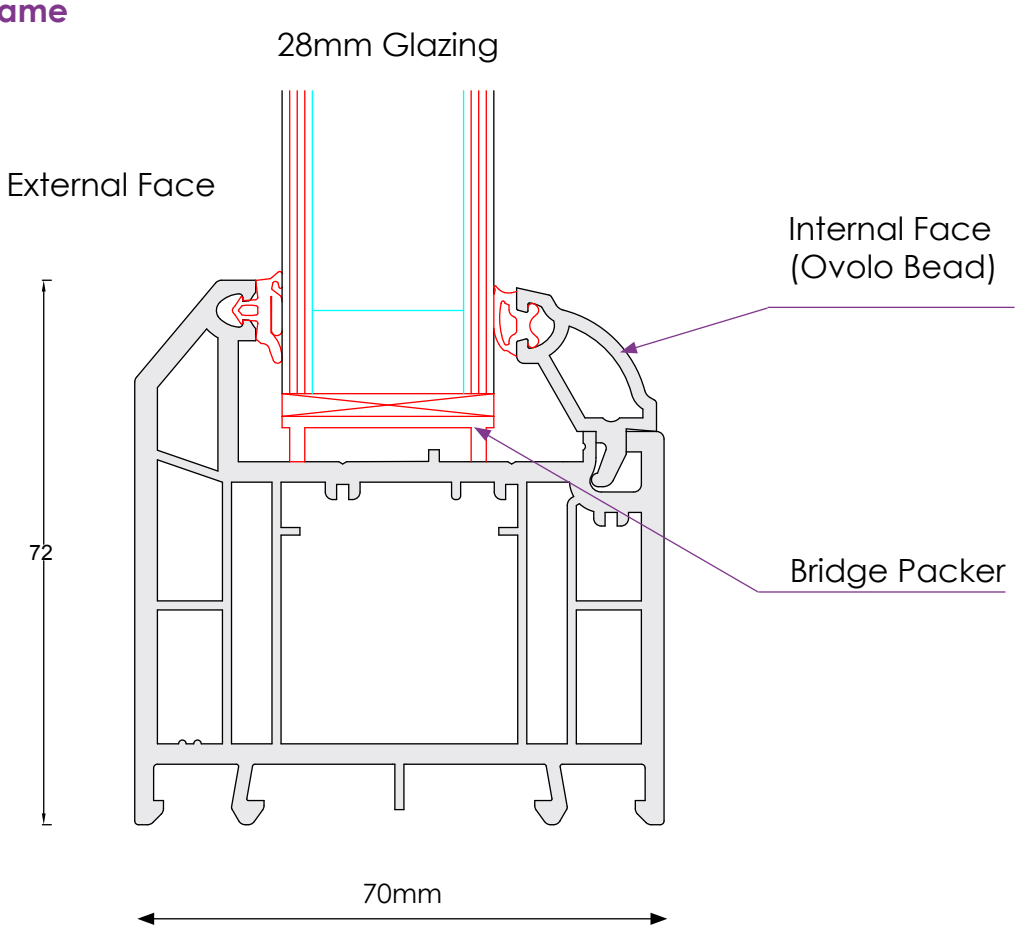
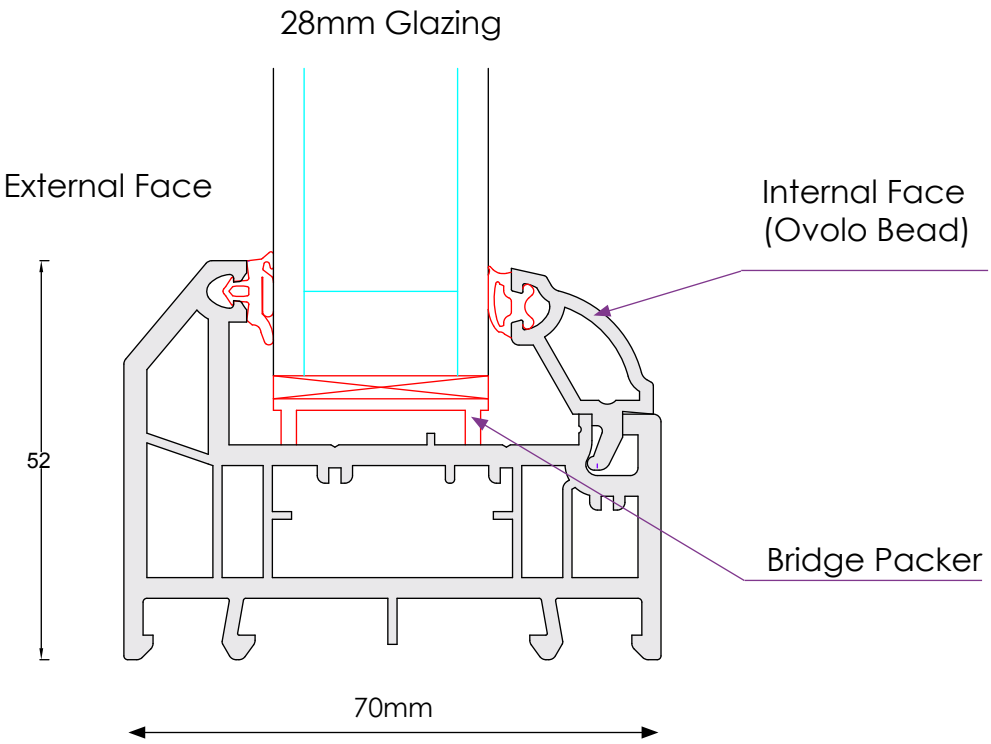
72mm Side Frame

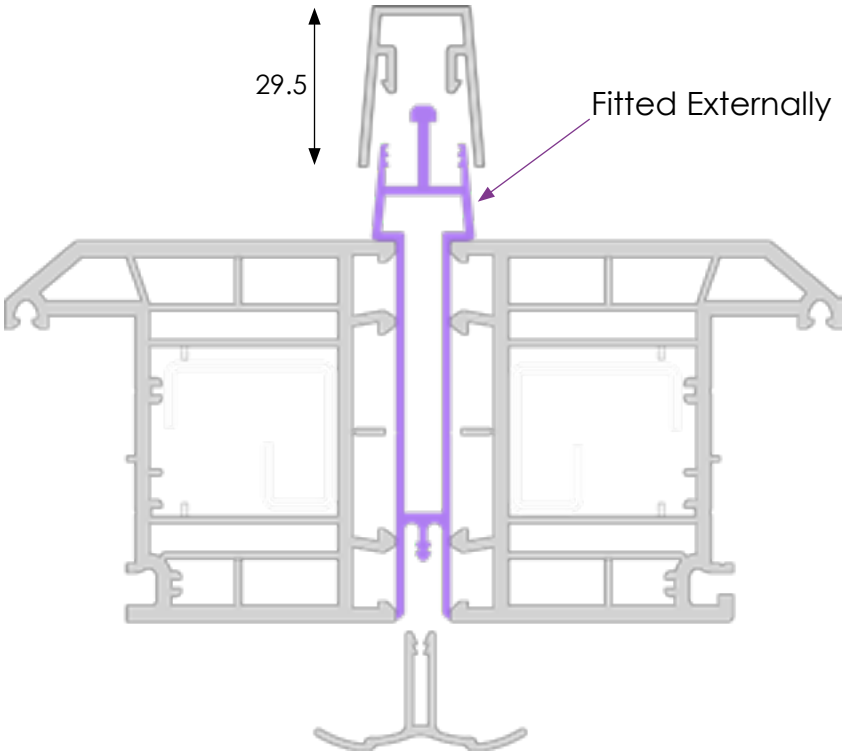


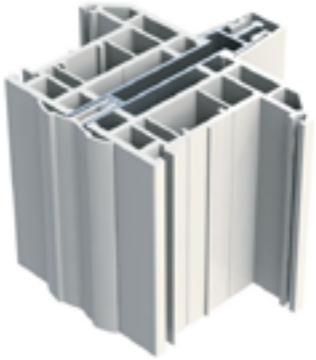
52mm Side Frame



Heavy Weight Coupler (10mm wide)

Protruding
Recommended for the higher exposure category. The coupler protrudes this makes it the strongest design of all couplers offered.

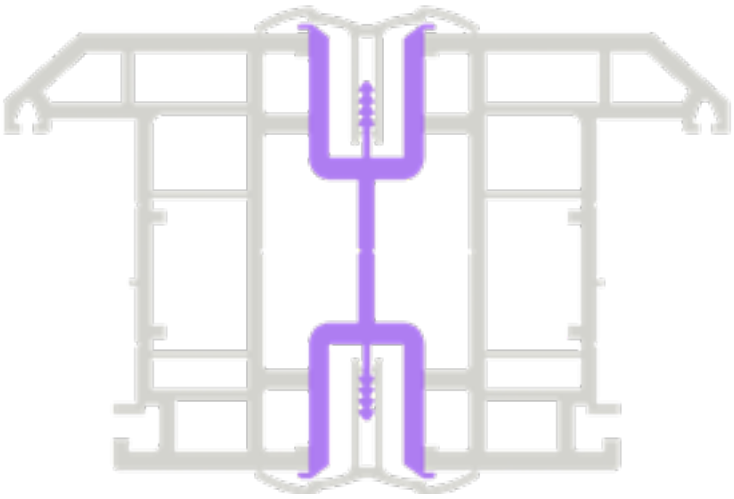


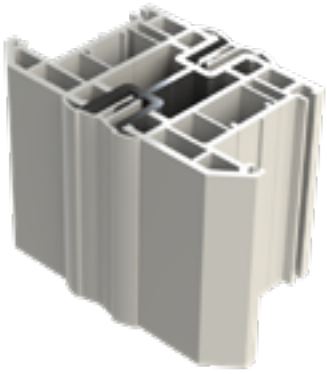


CODE	WWL153
IXX (cm)	27.95
IYY (cm)	0.79
DEDUCTION	5mm Per Frame

Medium Weight Coupler (20mm wide)

Flush Fitting
Recommended where a higher exposure category or larger side frames is requested and the couplers remain Flush to the door frame





CODE	WWL106
IXX (cm)	24.5
IYY (cm)	2.4
DEDUCTION	10mm Per Frame

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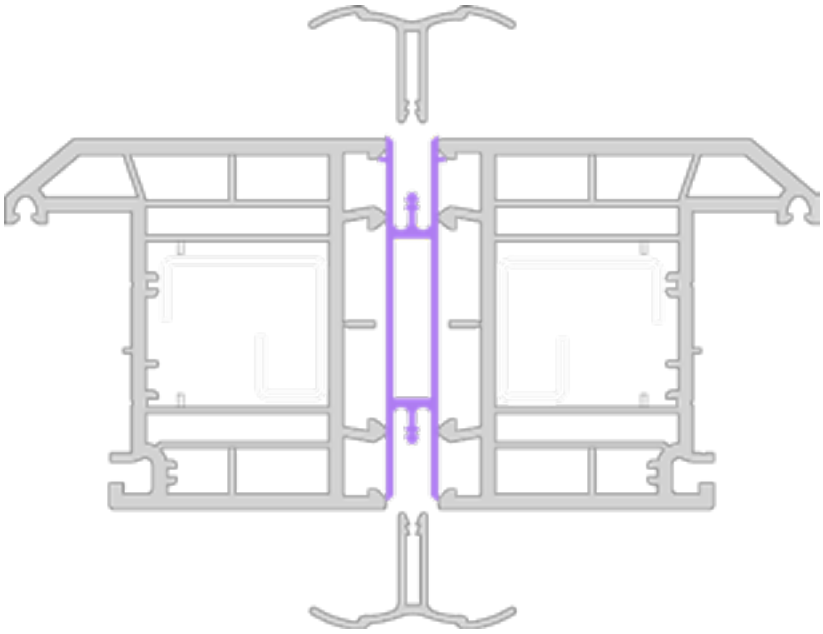
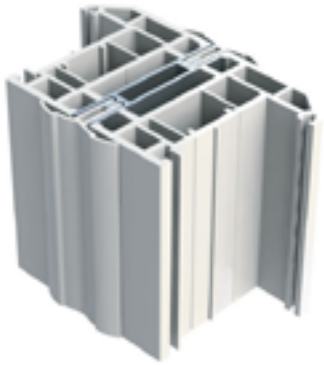
Coupling Bar Detail

Light Weight Coupler (10mm wide)

Flush Fitting
Recommended in lower exposure zones and for the narrower side frames.

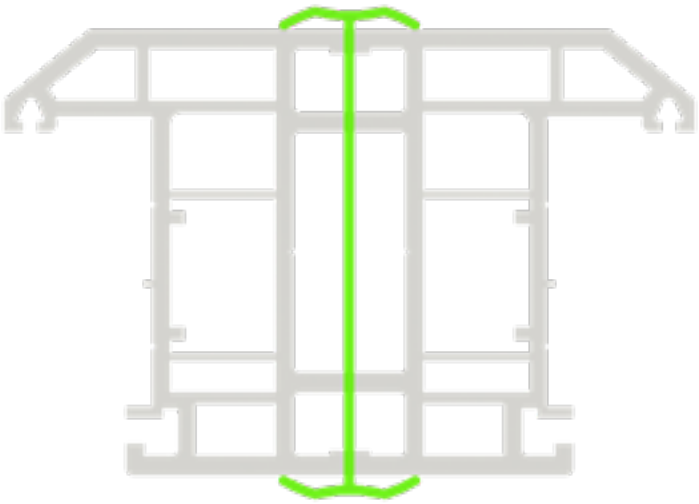




CODE	WWL150
IXX (cm)	9.97
IYY (cm)	0.40
DEDUCTION	5mm Per Frame

1.5mm Coupler (1.5mm wide)
PVC-U

Only use on single door fanlights



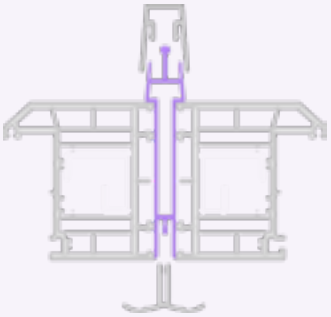
CODE	PFC70
IXX (cm)	0
IYY (cm)	10
DEDUCTION	0.75mm Per Frame

Side Frame / Coupling Bar Max Sizes

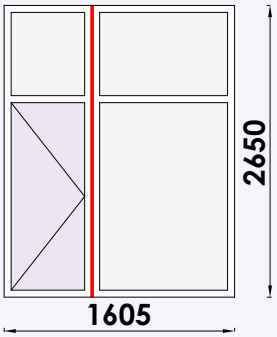
72mm Reinforced Outer Frame to achieve 800PA.

The door size cannot be larger than 900mm x 2070mm

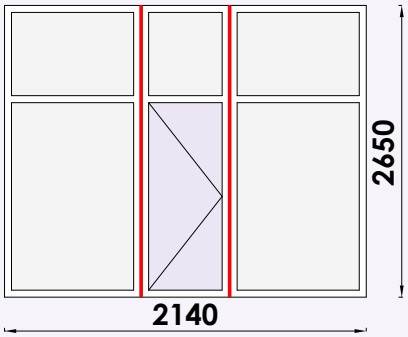
Heavy Duty (10mm wide)
Rigidity : **Very High**



MAX Size with **ONE** Sideframe



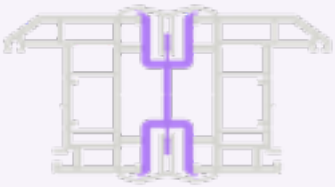
MAX Size with **TWO** Sideframes



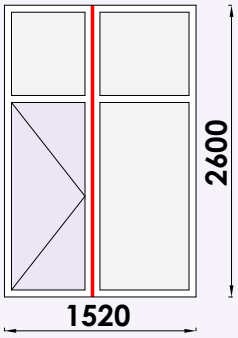
MAX Sizes for Side Frames constructed from **72mm Reinforced Outer Frame** using **Heavy Duty Coupler**

The door size cannot be larger than 900mm x 2070mm

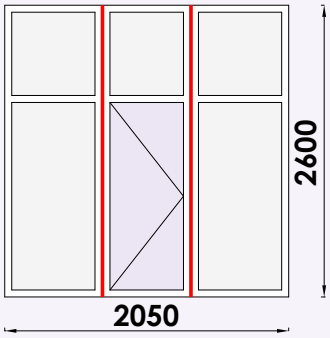
Medium Duty Coupler (20mm Wide)
Rigidity : **High**



MAX Size with **ONE** Sideframe



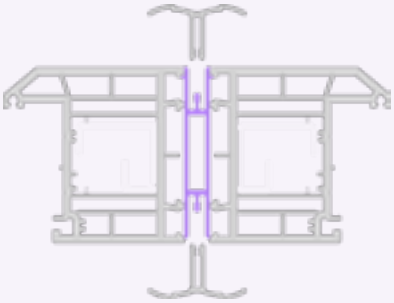
MAX Size with **TWO** Sideframes



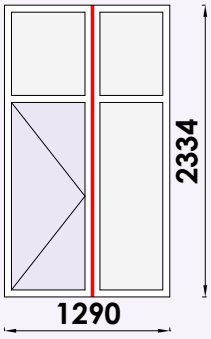
MAX Sizes for Side Frames constructed from **72mm Reinforced Outer Frame** using **Medium Duty Coupler**

The door size cannot be larger than 900mm x 2070mm

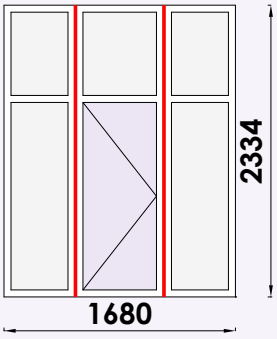
Light Duty Coupler (10mm wide)
Rigidity : **Standard**



MAX Size with **ONE** Sideframe



MAX Size with **TWO** Sideframes



MAX Sizes for Side Frames constructed from **72mm Reinforced Outer Frame** using **Light Duty Coupler**

It is the installers responsibility to ensure that the products are fit for purpose for the environment in which they are installed and the correct level of operational performance is achieved.

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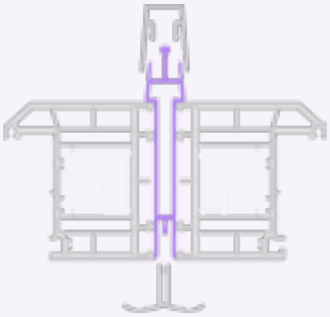
Side Frame / Coupling Bar Max Sizes

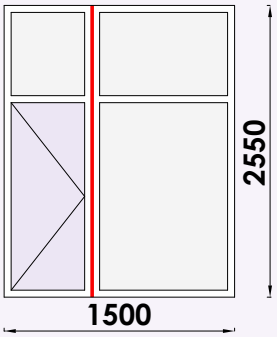
52mm Reinforced Outer Frame to achieve 800PA.

The door size cannot be larger than 900mm x 2070mm

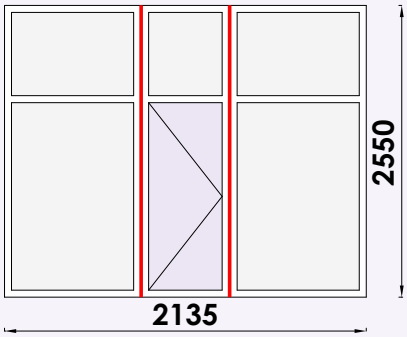
Heavy Duty (10mm wide)
Rigidity : **Very High**



MAX Size with **ONE** Sideframe



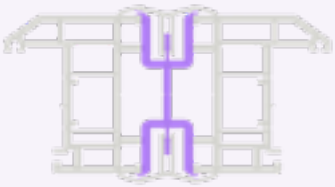
MAX Size with **TWO** Sideframes



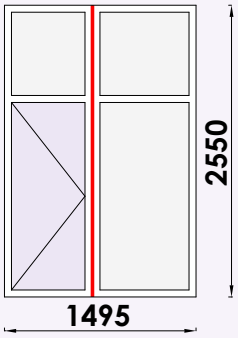
MAX Sizes for Side Frames constructed from **72mm Reinforced Outer Frame** using **Heavy Duty Coupler**

The door size cannot be larger than 900mm x 2070mm

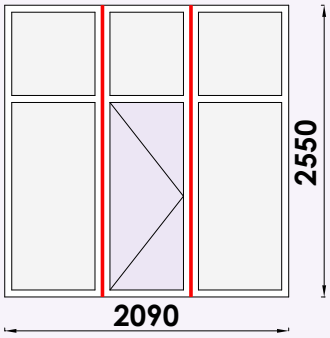
Medium Duty Coupler (20mm Wide)
Rigidity : **High**



MAX Size with **ONE** Sideframe



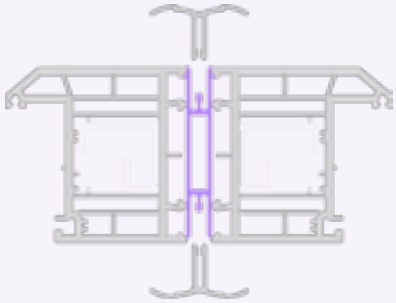
MAX Size with **TWO** Sideframes



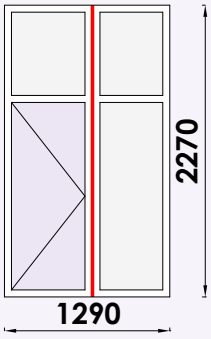
MAX Sizes for Side Frames constructed from **72mm Reinforced Outer Frame** using **Medium Duty Coupler**

The door size cannot be larger than 900mm x 2070mm

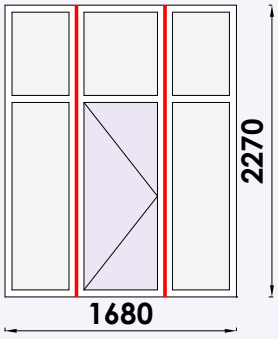
Light Duty Coupler (10mm wide)
Rigidity : **Standard**



MAX Size with **ONE** Sideframe



MAX Size with **TWO** Sideframes



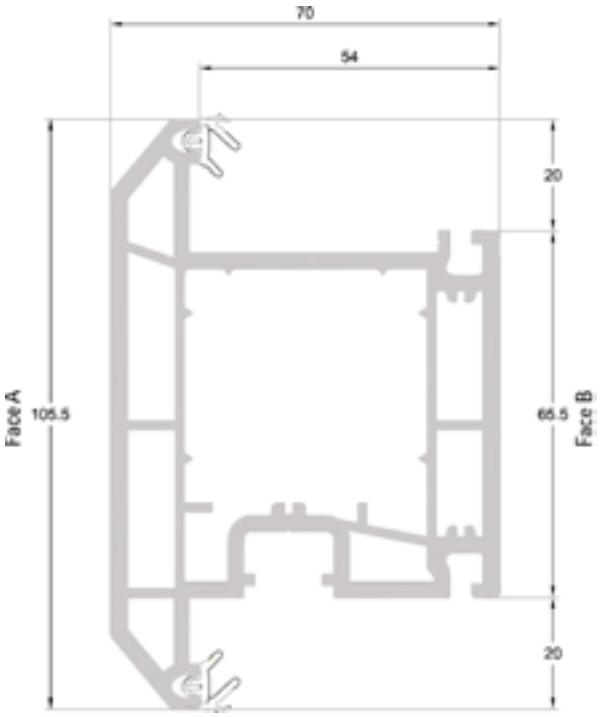
MAX Sizes for Side Frames constructed from **72mm Reinforced Outer Frame** using **Light Duty Coupler**

It is the installers responsibility to ensure that the products are fit for purpose for the environment in which they are installed and the correct level of operational performance is achieved.

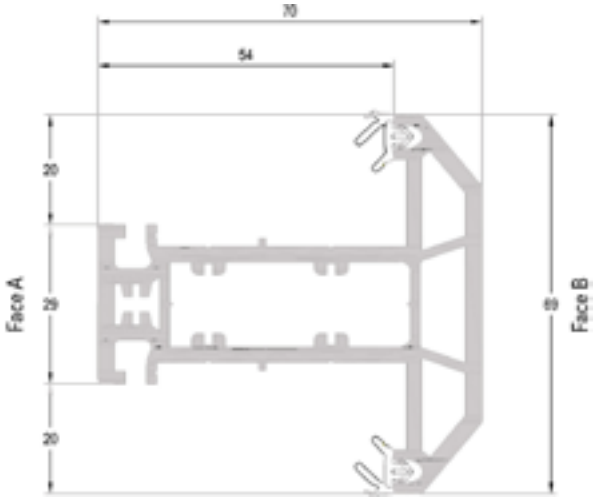
Sideframe with MIDRAIL
72mm outer with 105.5 Midrail: **min width =323.5mm**
72mm outer with 69 Midrail: **min width =360mm**
52mm outer with 69 Midrail: **min width =320mm**

Sideframe with NO Midrail GROOVED
72mm outer: **min width =295mm**
52mm outer: **min width =275mm**
Sideframe with NO Midrail KNIFED OFF by hand
72mm outer: **min width =190mm**
52mm outer: **min width =190mm**

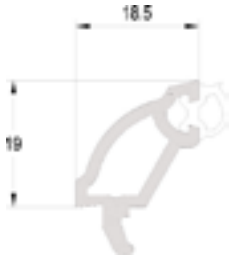
Standard and the stainless steel option letterplates cannot be fitted into midrails.



Door T Sash / Midrail 105.5mm
Standard Midrail in sideframes
Art.546635



Slim Transom / Mullion T 69mm
Standard Mullion in Fanlights
Art.546085



Co-extruded Glazing Bead 18.5
For 28mm sealed units
Art.546572

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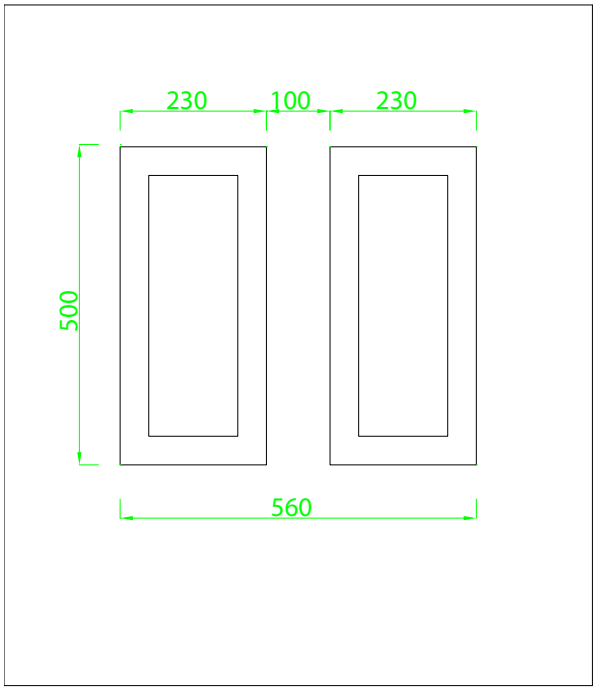
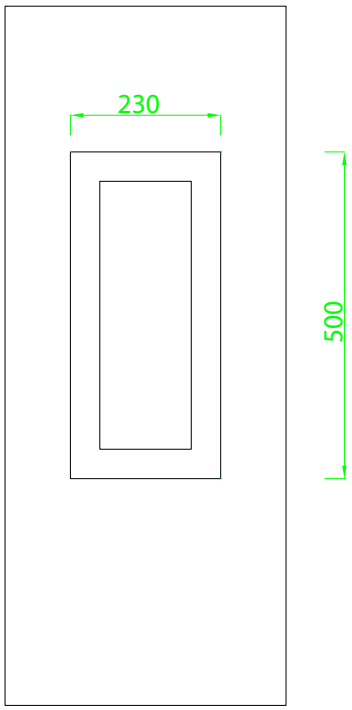
DOUBLE MOULDED PANELS

MAX SIZE: w785 x h950
MIN SIZE: w620 x h580

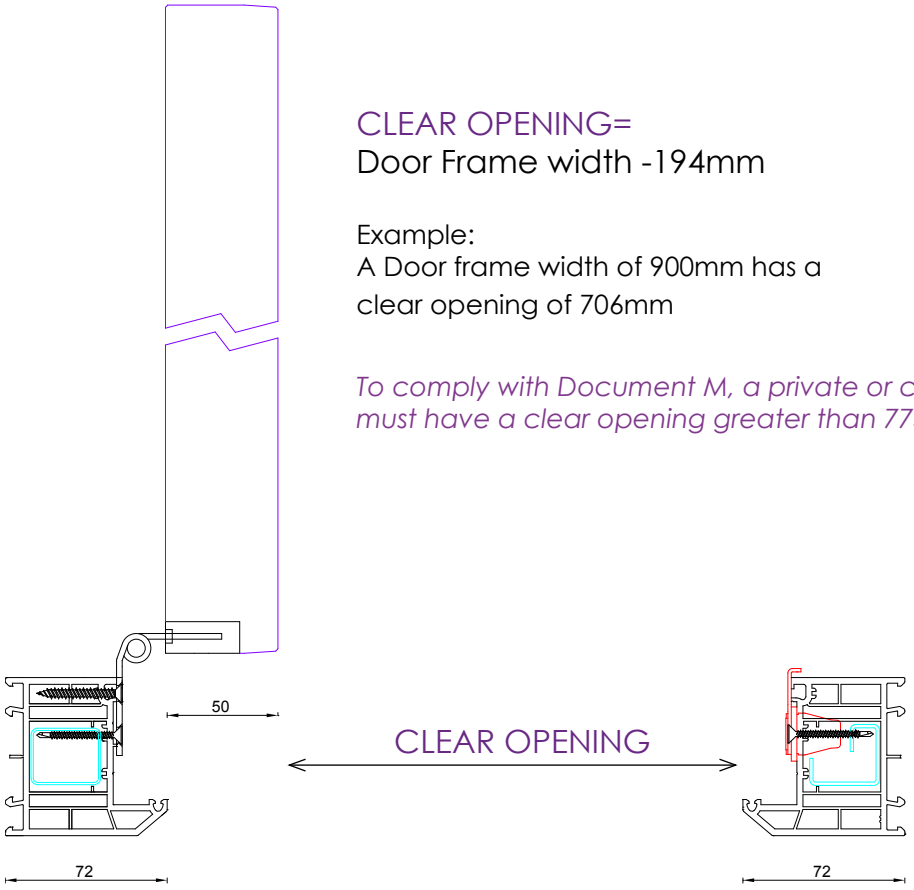


SINGLE MOULDED PANELS

MAX SIZE: w420 xh950
MIN SIZE: w290 x h580



72mm Outer Frame

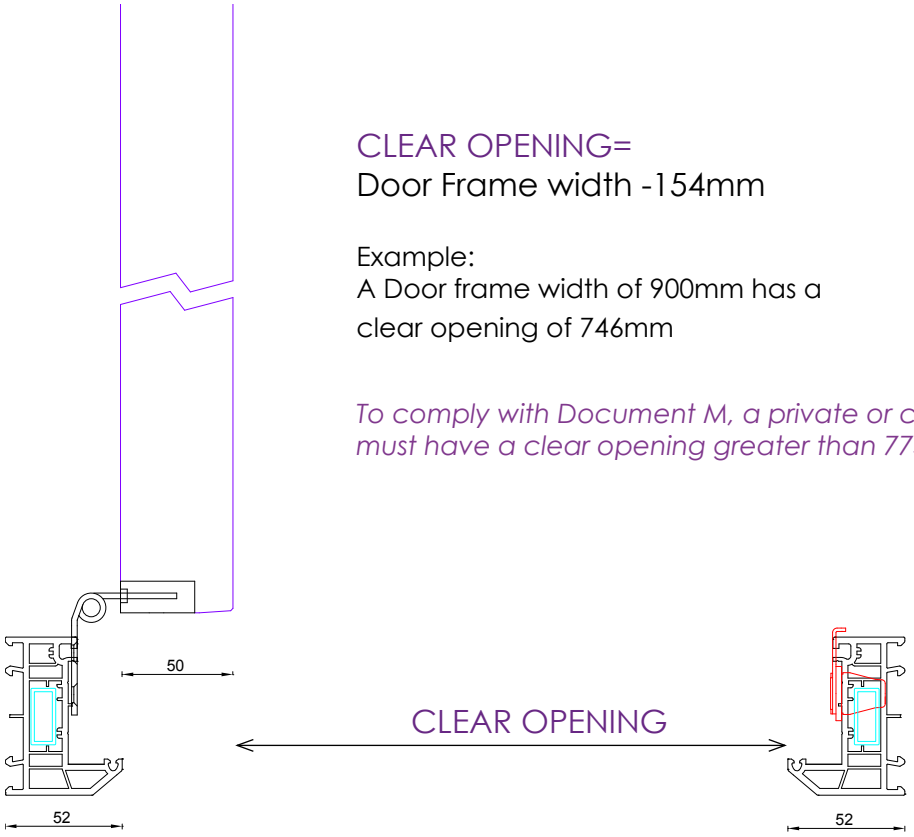


CLEAR OPENING=
Door Frame width -194mm

Example:
A Door frame width of 900mm has a clear opening of 706mm

To comply with Document M, a private or communal entrance must have a clear opening greater than 775mm.

52mm Outer Frame



CLEAR OPENING=
Door Frame width -154mm

Example:
A Door frame width of 900mm has a clear opening of 746mm

To comply with Document M, a private or communal entrance must have a clear opening greater than 775mm.

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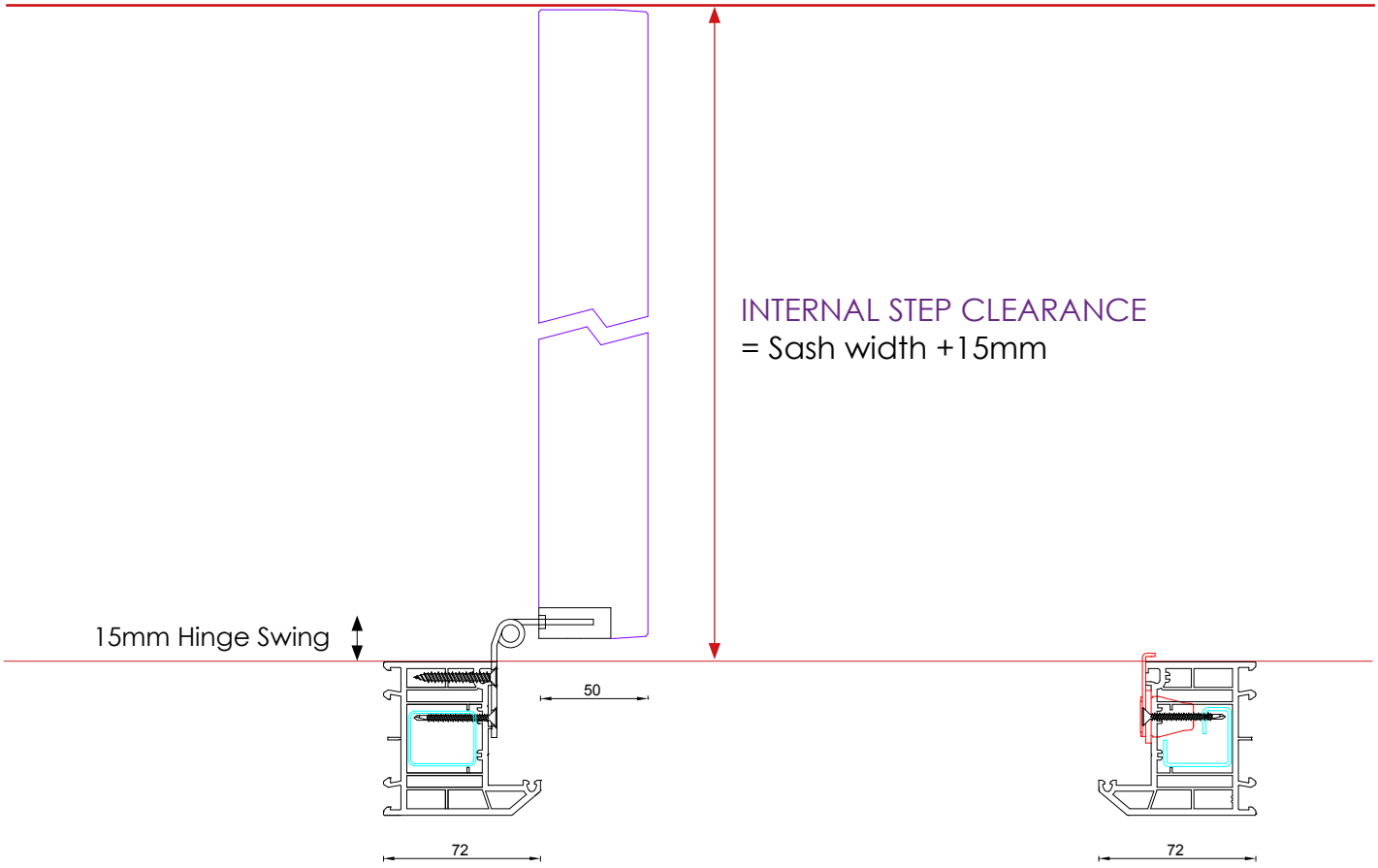
Internal Floor Level Clearance

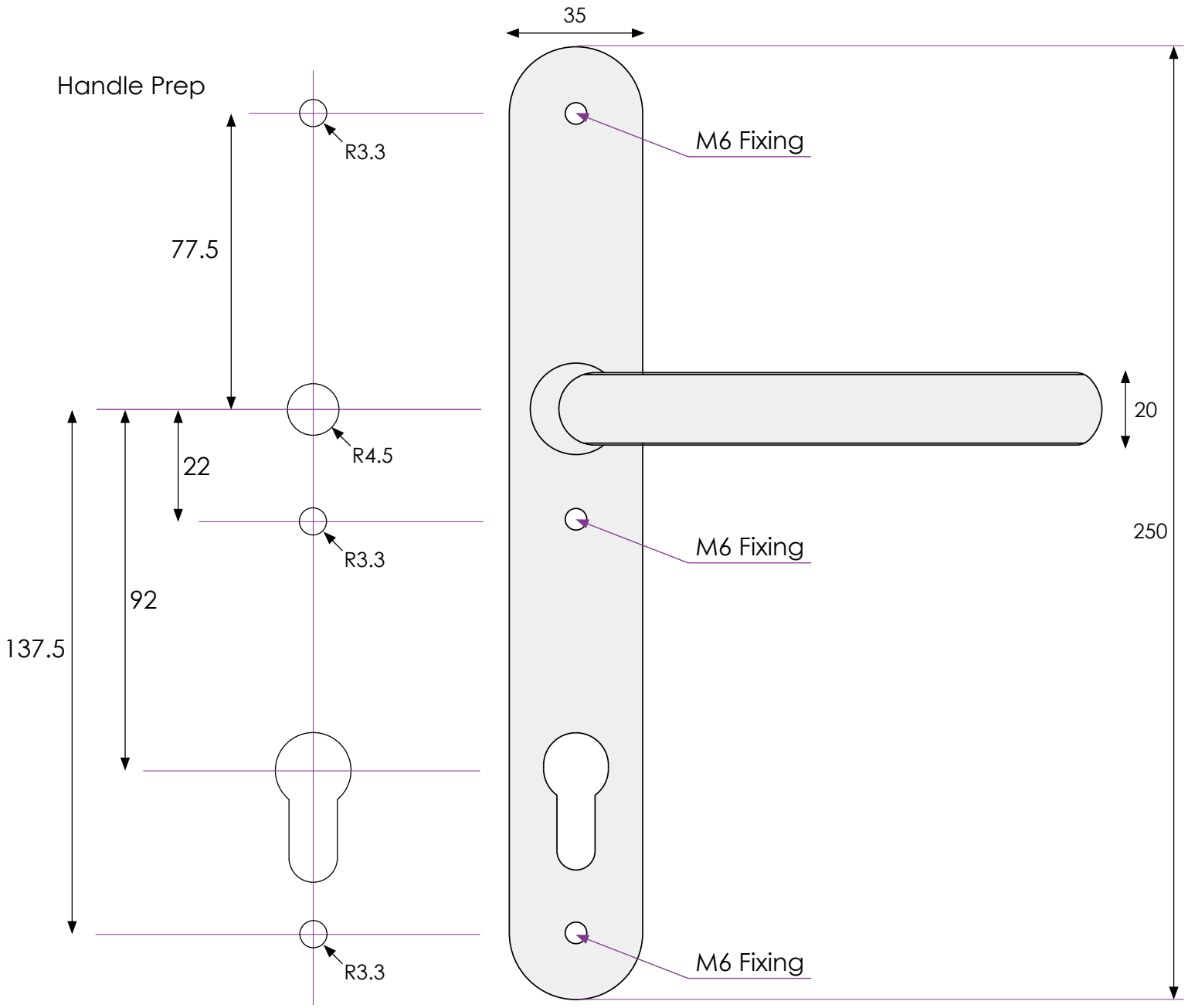
INTERNAL STEP

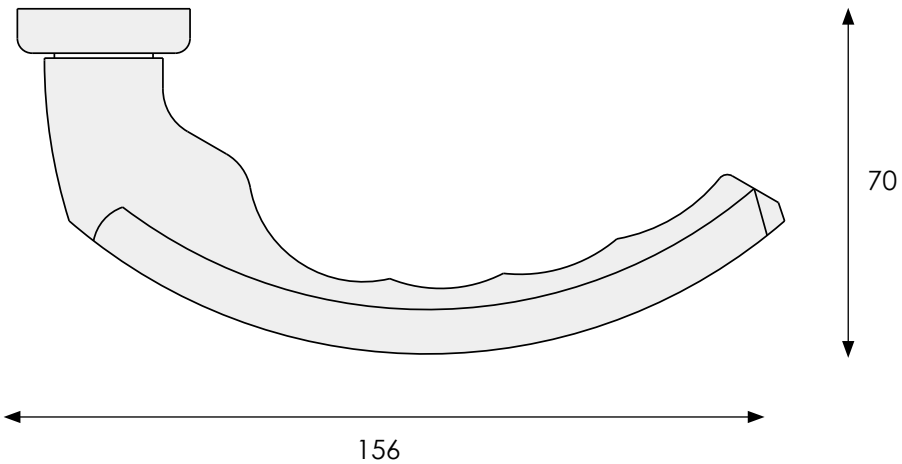


For **72mm** Profile Sash Width = Overall Frame Width **-112**

For **52mm** Profile Sash width = Overall Frame Width **-72**

Standard Lever Handle





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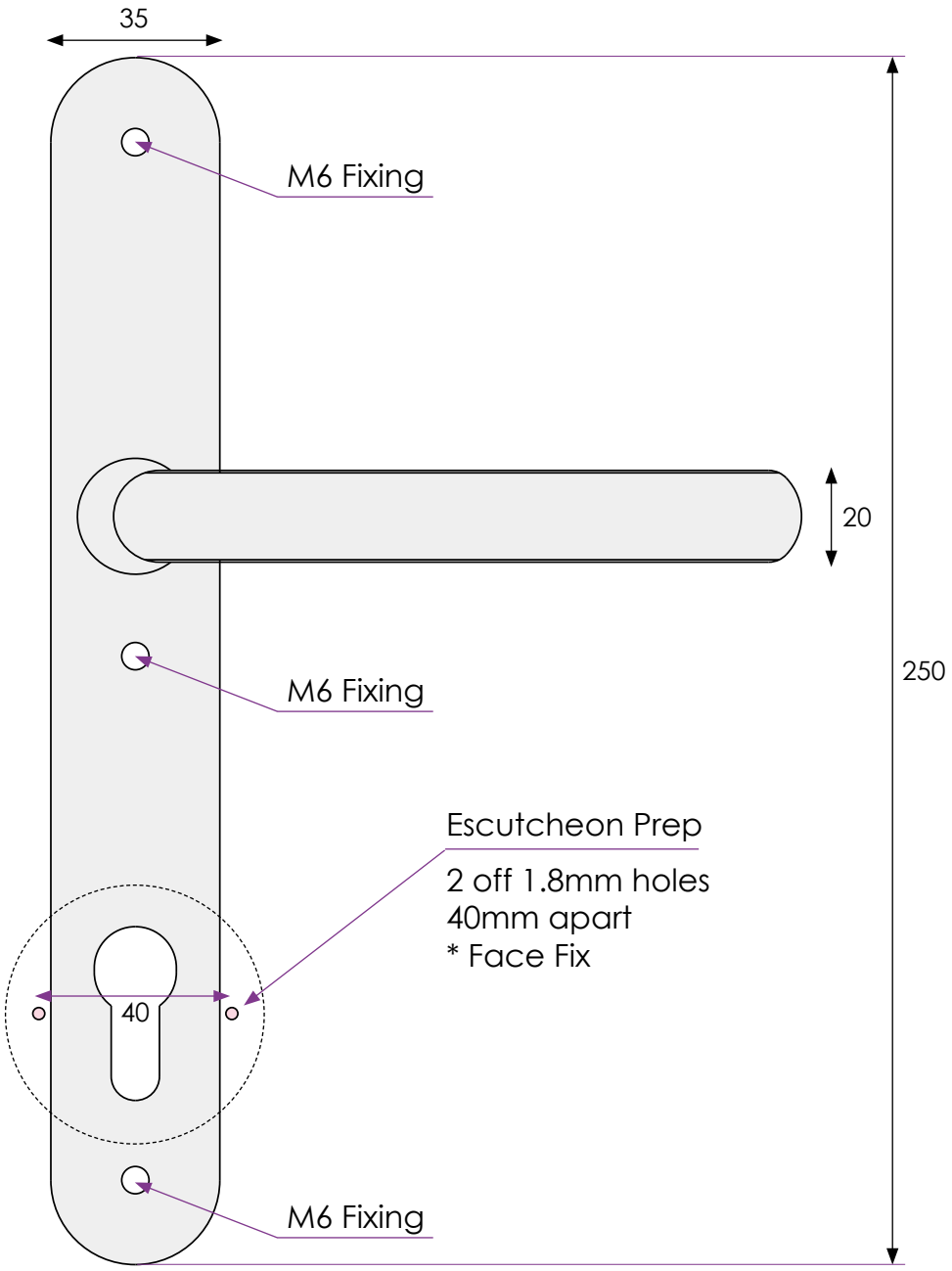
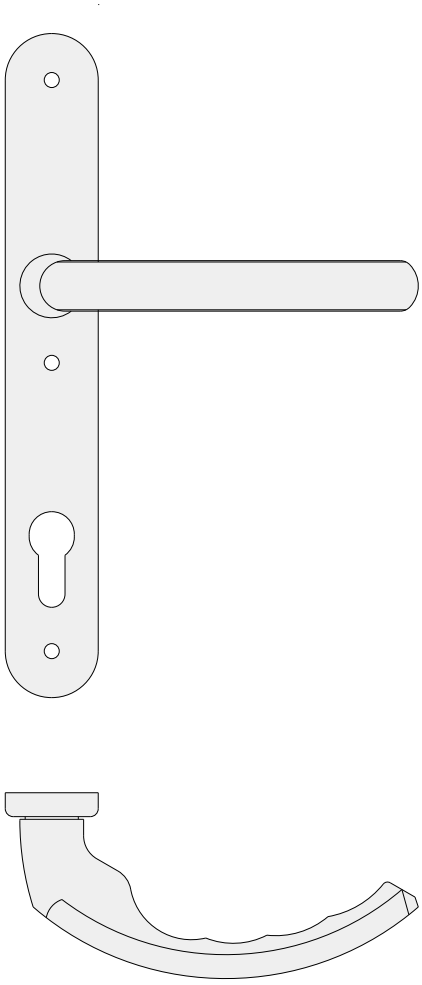
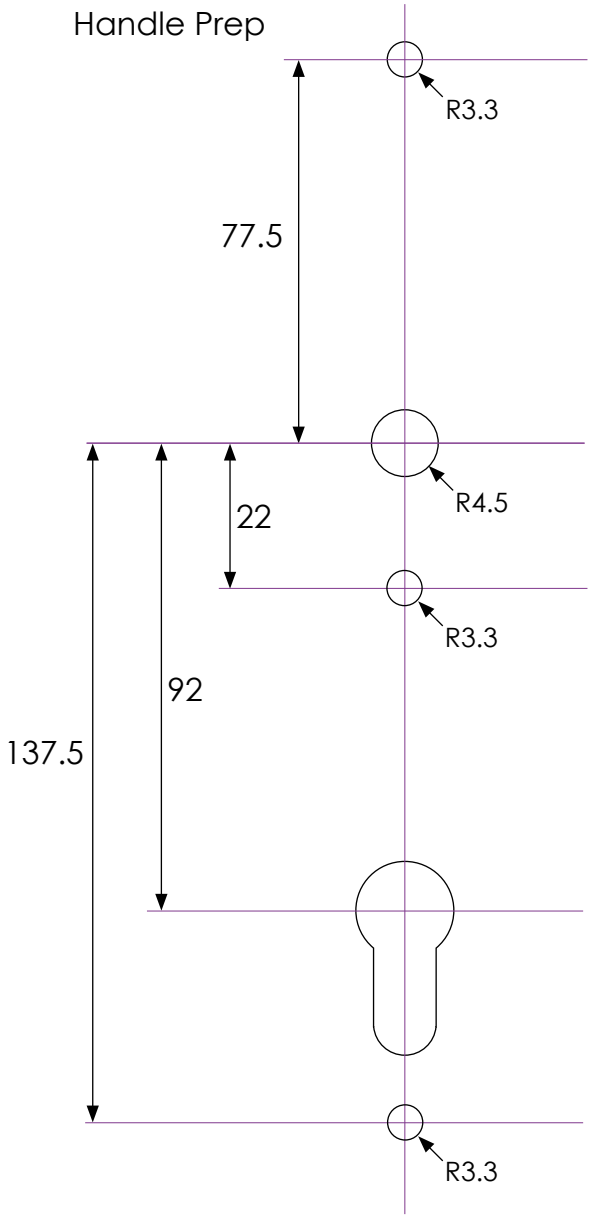
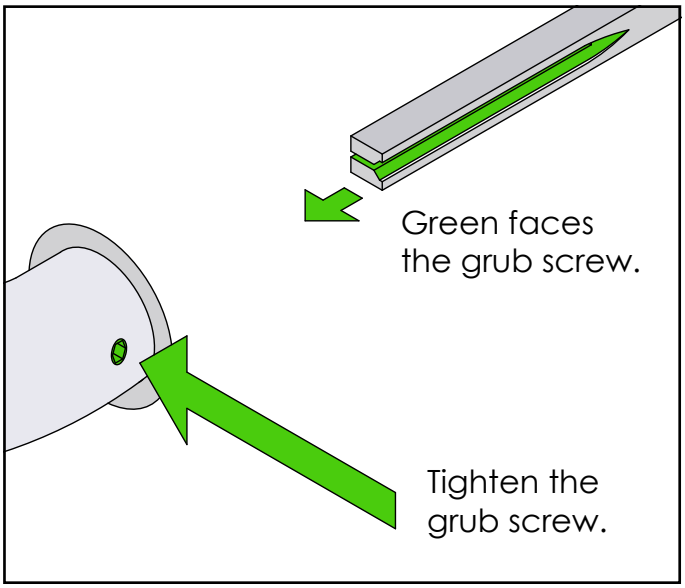
Lever Handle / Escutcheon Prep







Important fitting Detail



Insert the spindle so the exposed dish (or spindle groove) as shown in green faces the grub screw. Then tighten the grub screw clockwise to 'splay' the spindle and secure the handle in place.

Doing this **external** and **internal** ensures the handles are secured to the spindle.

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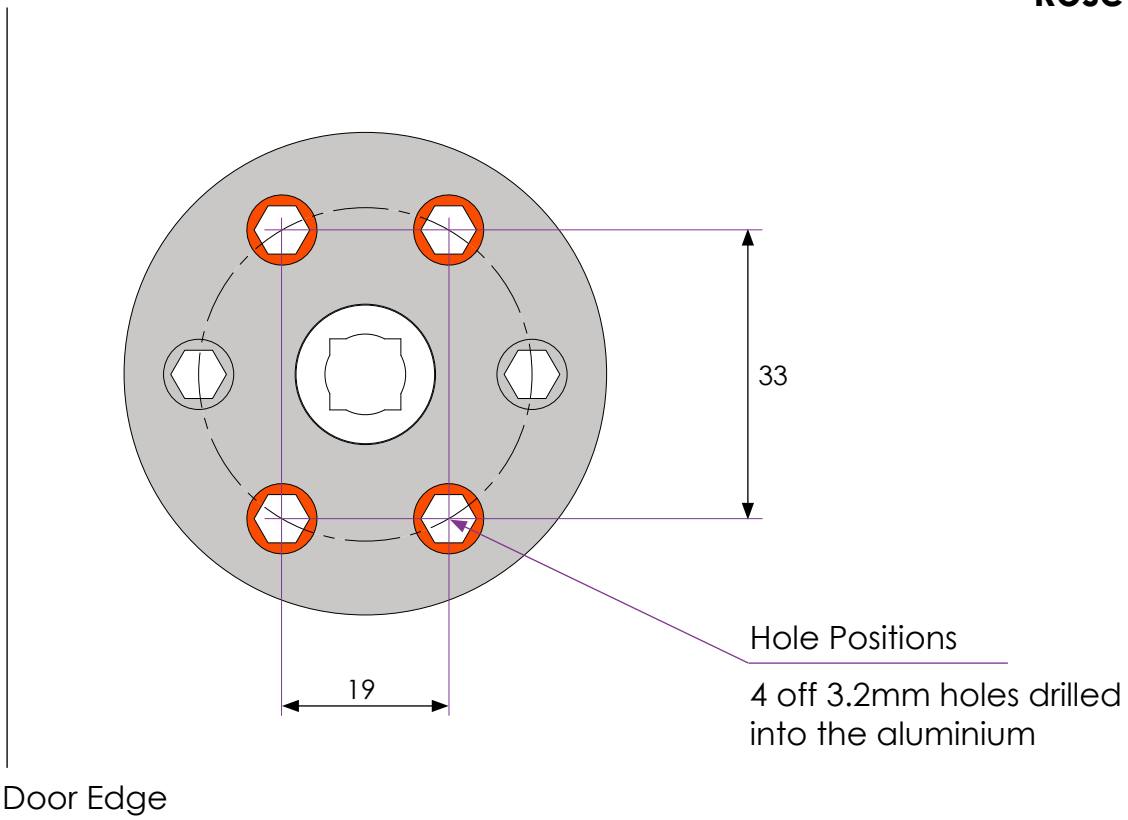
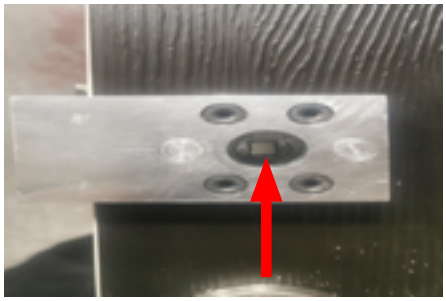


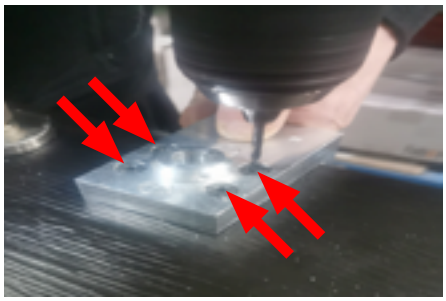
Hole position Jig

Its important the jig lines up with the spindle hole on the door.



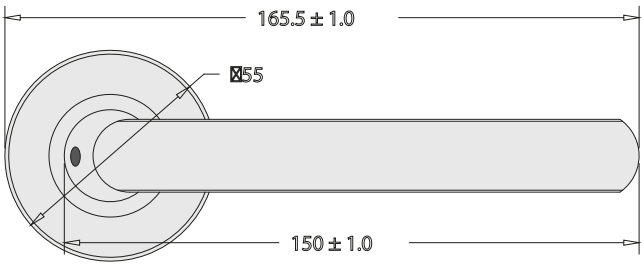
Its important the jig lines up with the spindle hole on the door.

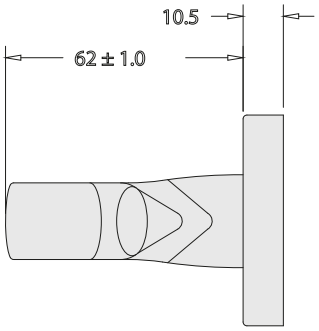
When everything is lined up,place the pin into the jig and spindle hole to lock the position.

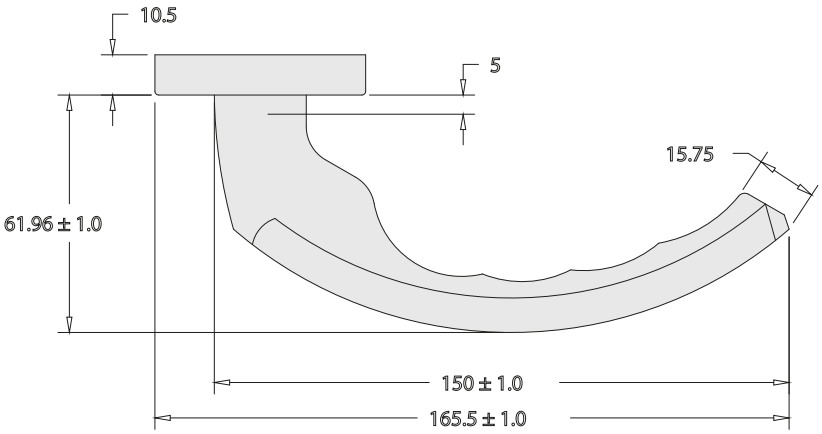


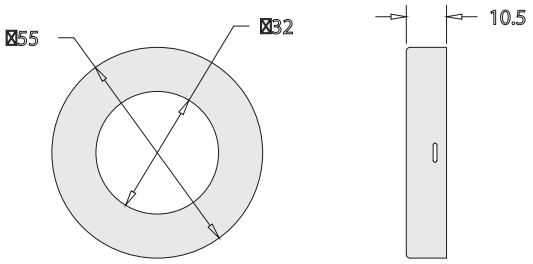
Drill four holes with a 3.2mm drill bit see picture below holding the jig firmly.

You MUST DRILL INTO THE SKIN AND THE ALUMINIUM REPEAT THE PROCESS ON THE OTHER SIDE OF THE DOOR.

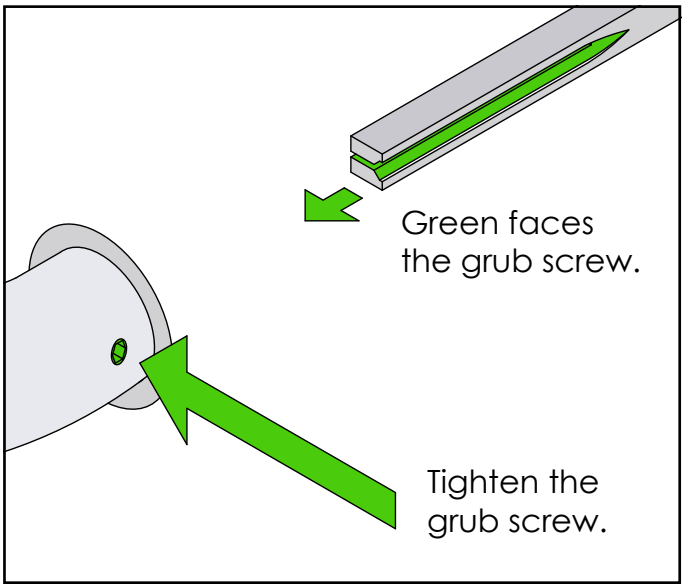








Important fitting Detail



Insert the spindle so the exposed dish (or spindle groove) as shown in green faces the grub screw. Then tighten the grub screw clockwise to 'splay' the spindle and secure the handle in place.

Doing this **external** and **internal** ensures the handles are secured to the spindle.

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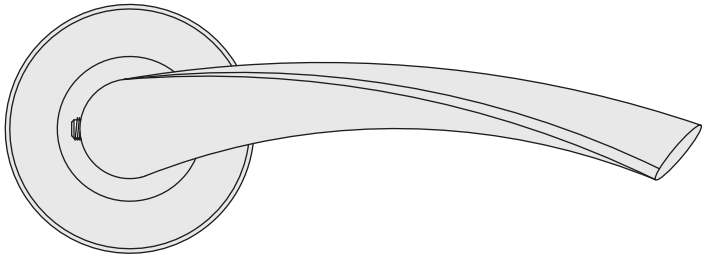
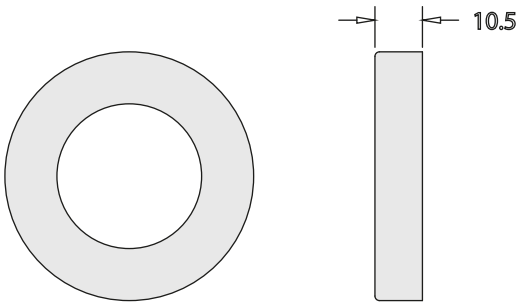
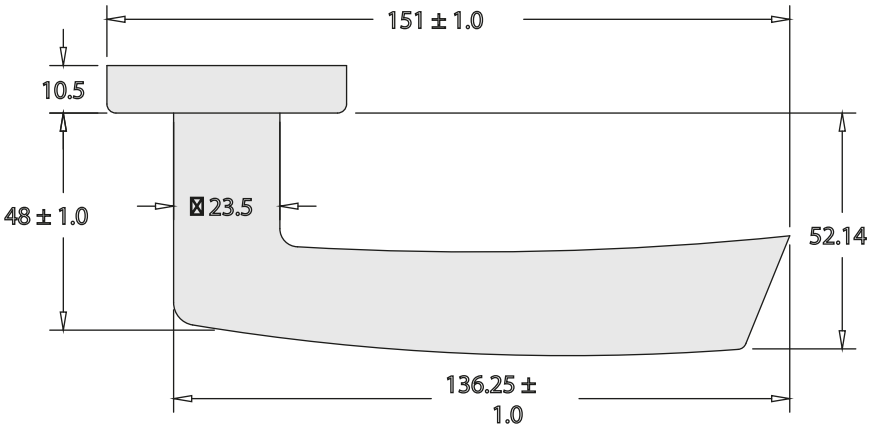
Curved Rose Handle

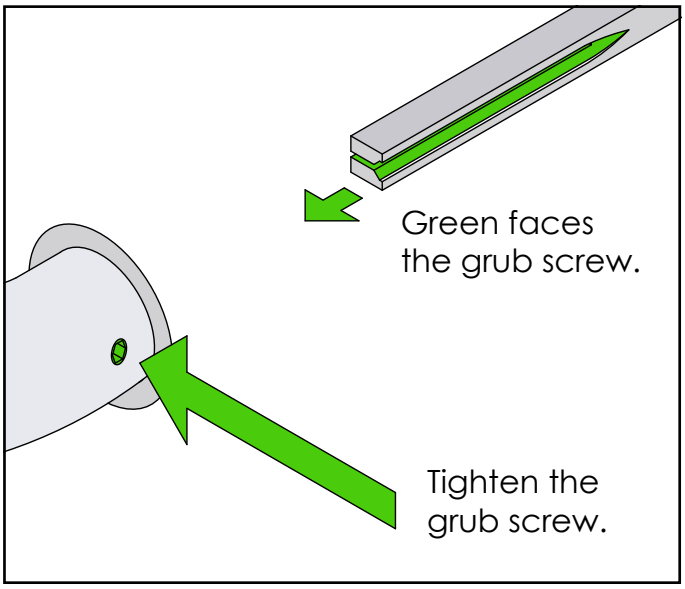




Cover Plate



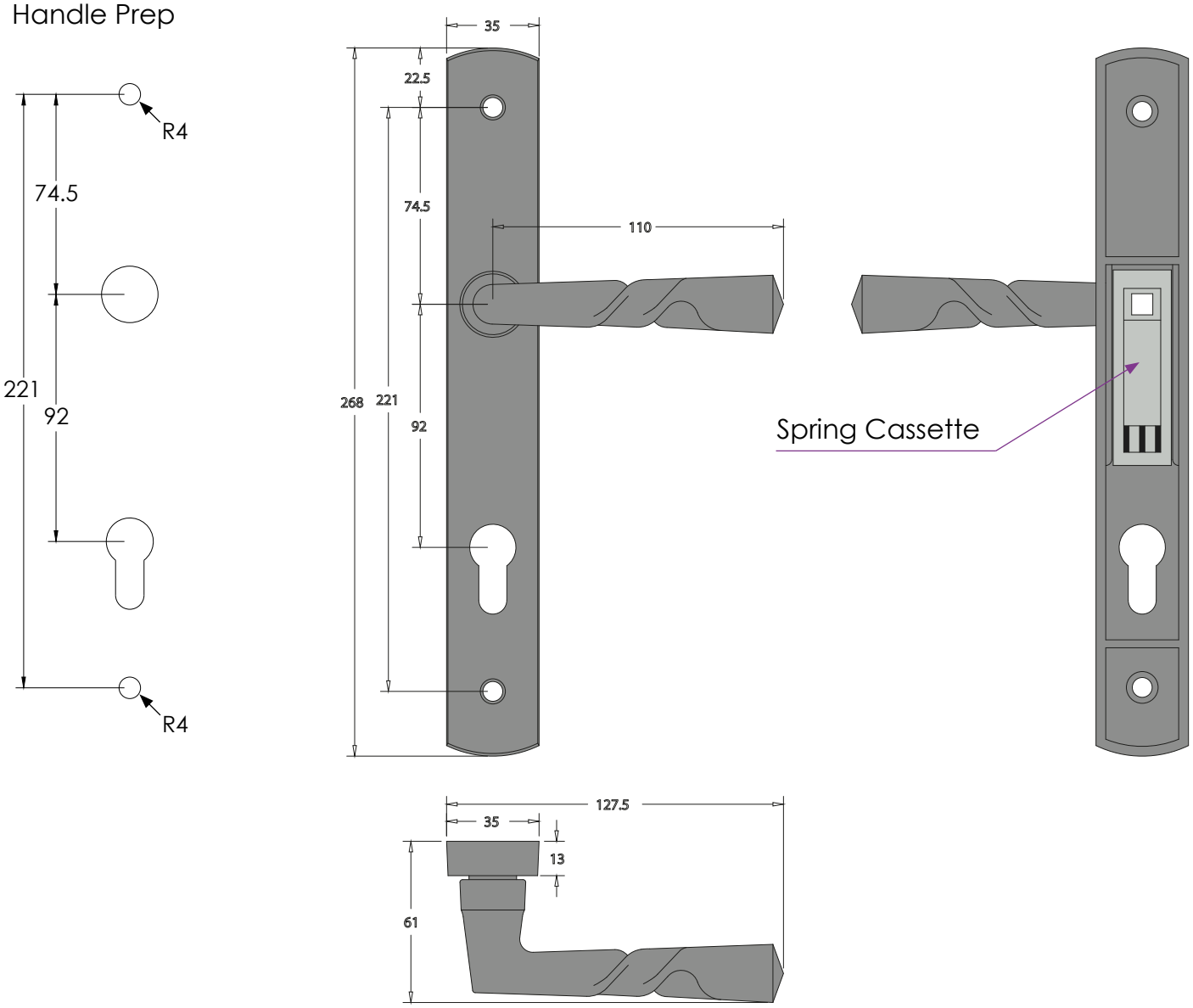
Important fitting Detail



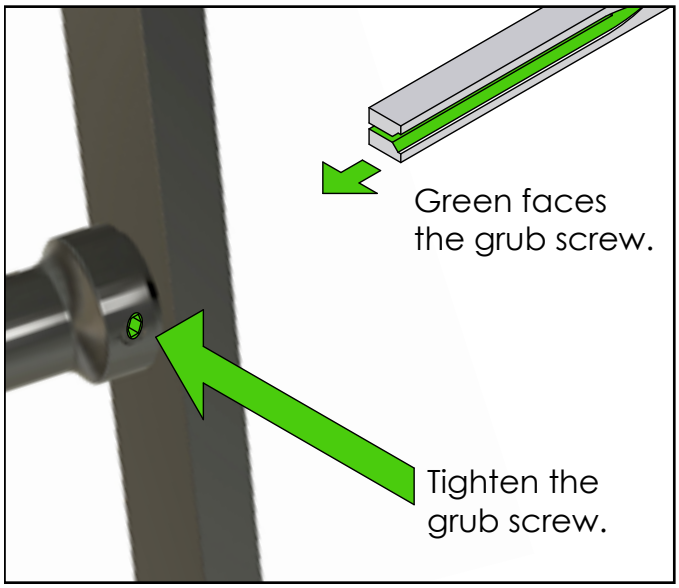
Insert the spindle so the exposed dish (or spindle groove) as shown in green faces the grub screw. Then tighten the grub screw clockwise to 'splay' the spindle and secure the handle in place.

Doing this **external** and **internal** ensures the handles are secured to the spindle.

Handle Prep



Important fitting Detail



Insert the spindle so the exposed dish (or spindle groove) as shown in green faces the grub screw. Then tighten the grub screw clockwise to 'splay' the spindle and secure the handle in place.

Doing this **external** and **internal** ensures the handles are secured to the spindle.

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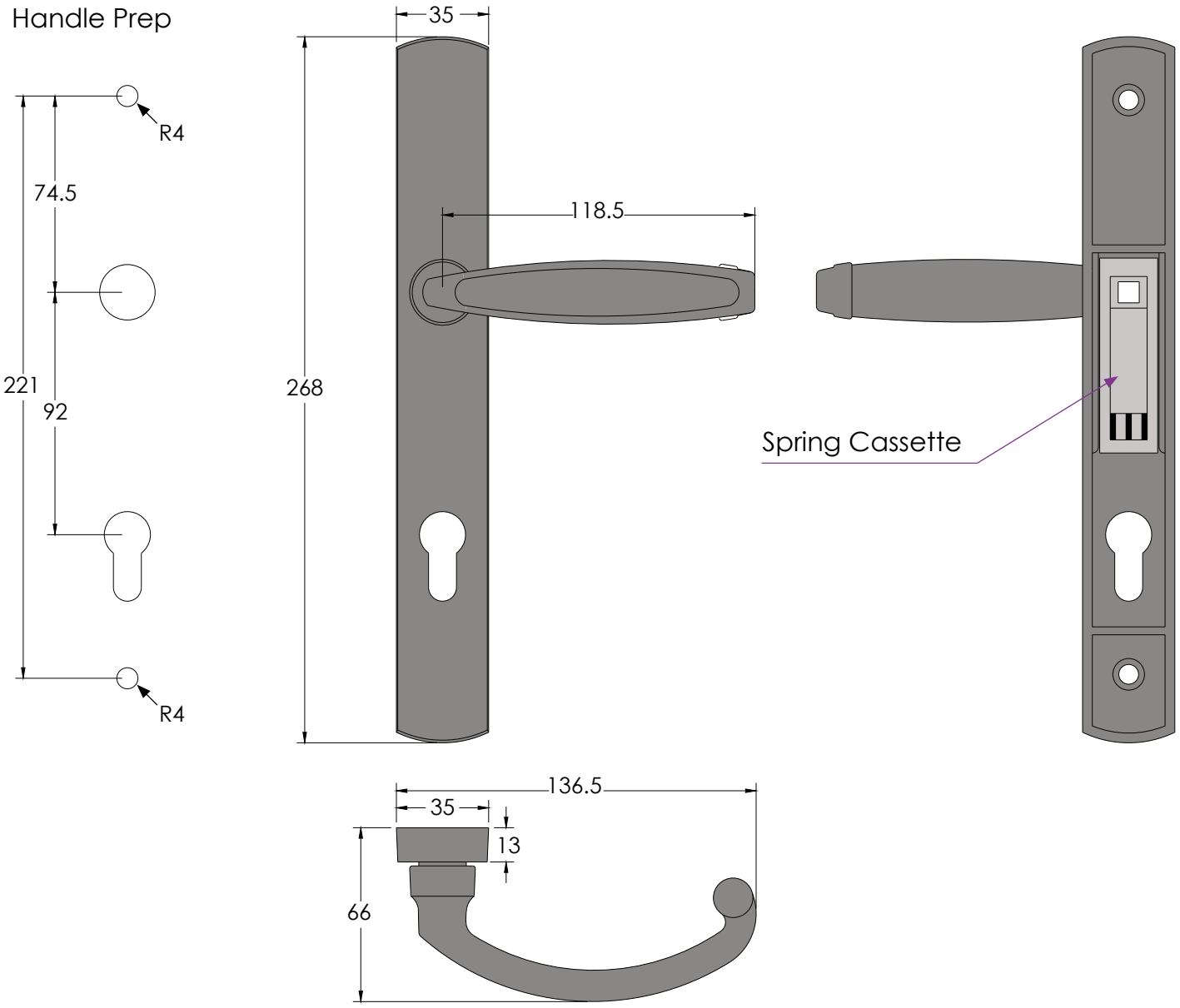
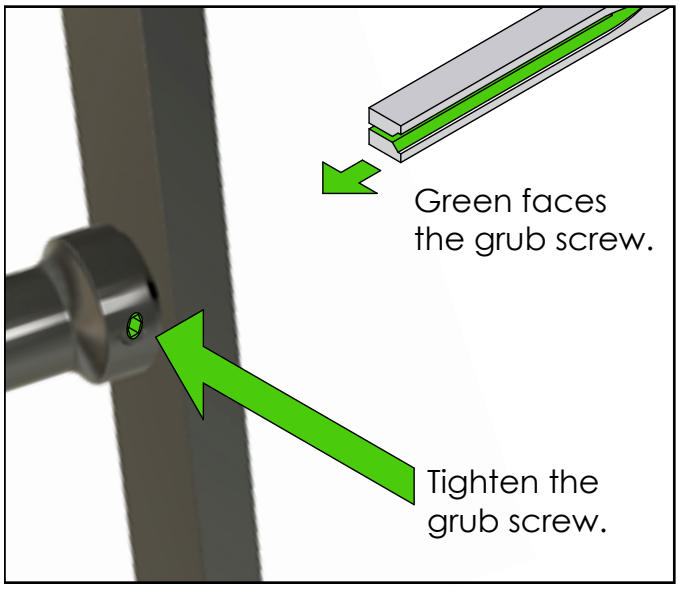


Important fitting Detail



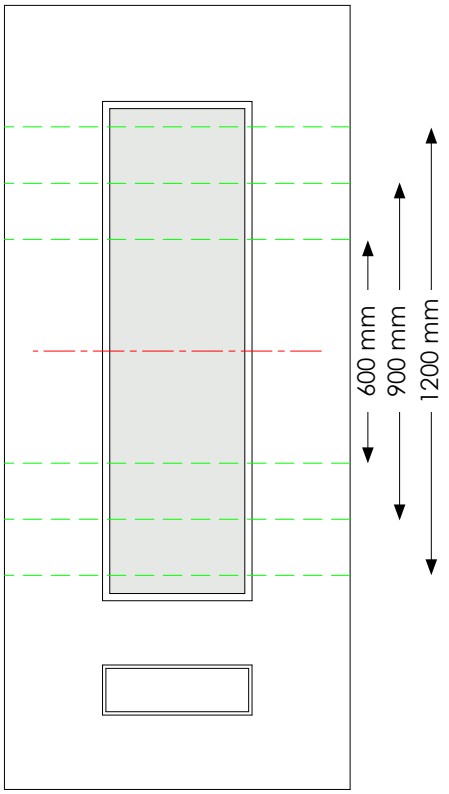
Insert the spindle so the exposed dish (or spindle groove) as shown in green faces the grub screw. Then tighten the grub screw clockwise to 'splay' the spindle and secure the handle in place.

Doing this **external** and **internal** ensures the handles are secured to the spindle.

In Line Bar Handle

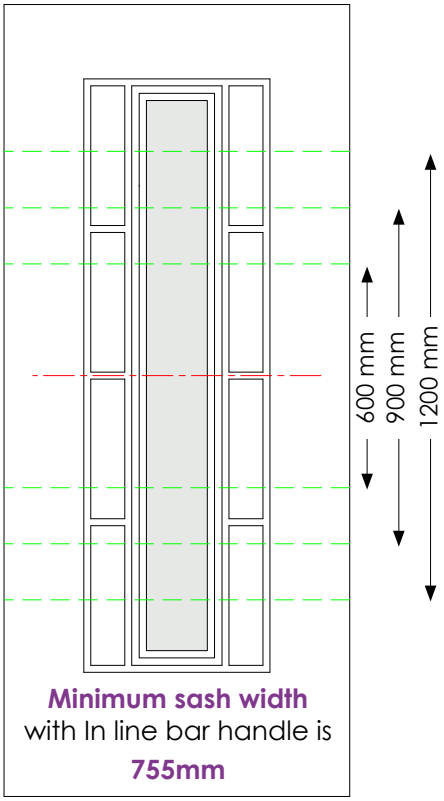
600mm, 900mm and 1200mm Fitting Position

Vogue



Centred with the glass

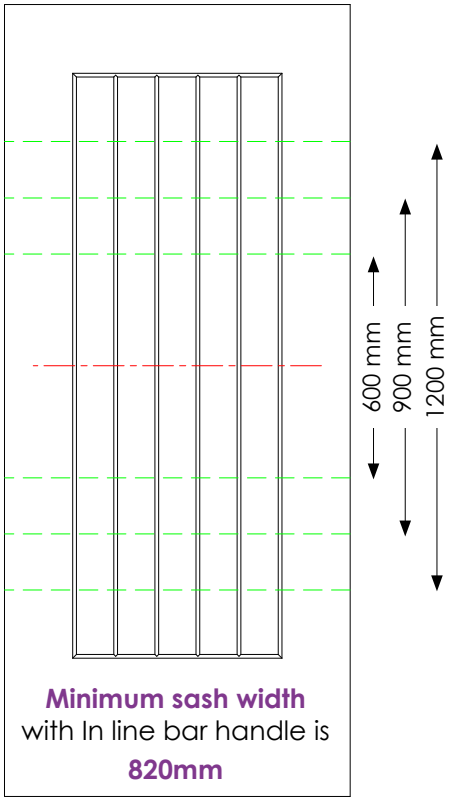
Vermont



Minimum sash width
with In line bar handle is
755mm

Centred with the glass

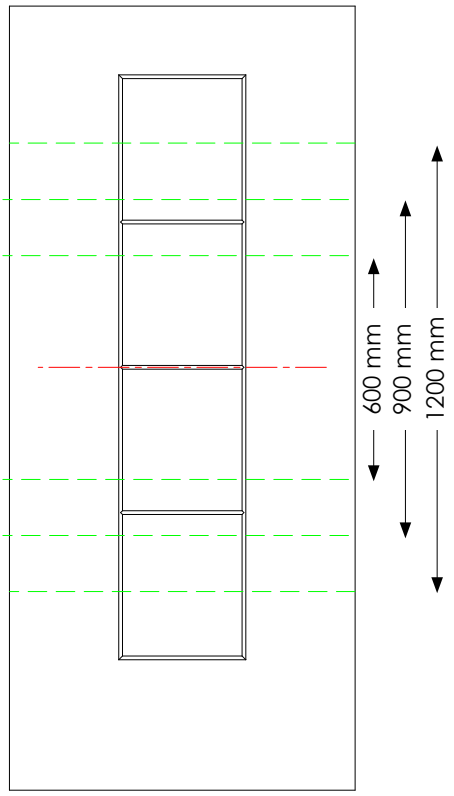
Indiana



Minimum sash width
with In line bar handle is
820mm

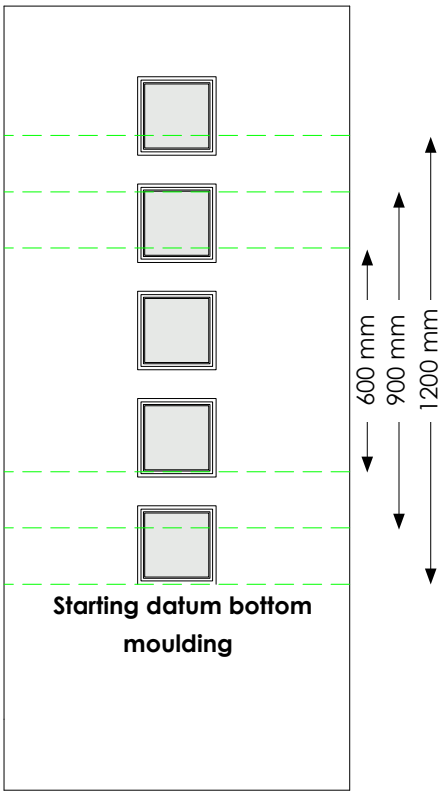
Centred with the mouldings

Dakota



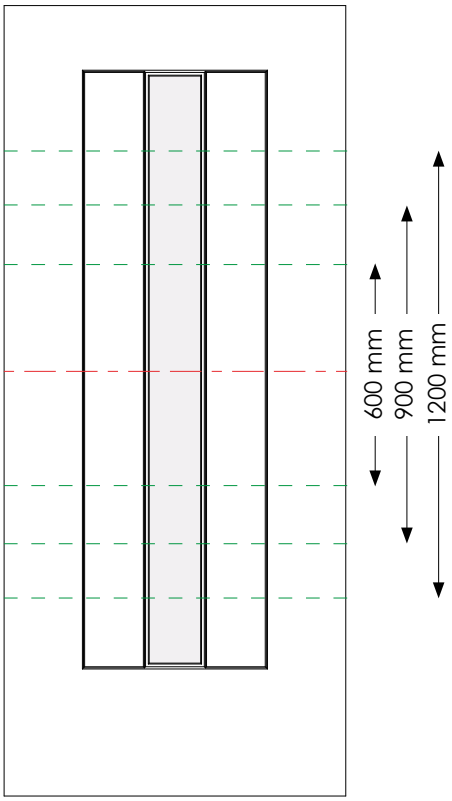
Centred with the mouldings

Manhattan



Starting datum bottom moulding

Hudson



Centred with the glass

In line bar handles
are fitted **115mm** from the edge of the door
to the centre of the fixing hole.

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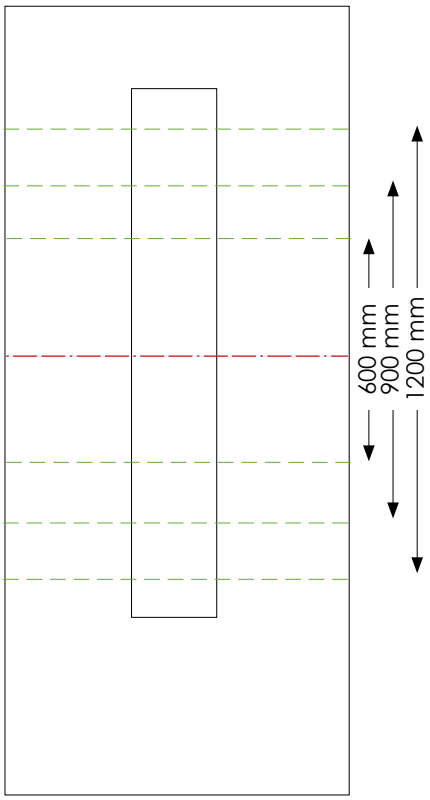
In Line Bar Handle

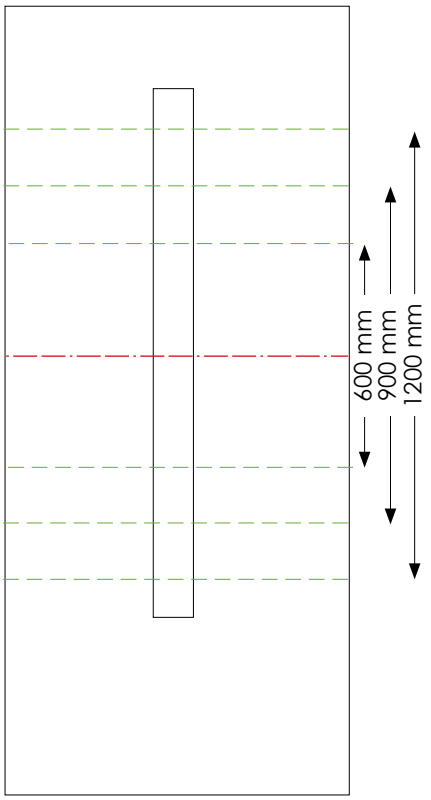
600mm, 900mm and 1200mm Fitting Position

Dune Vision



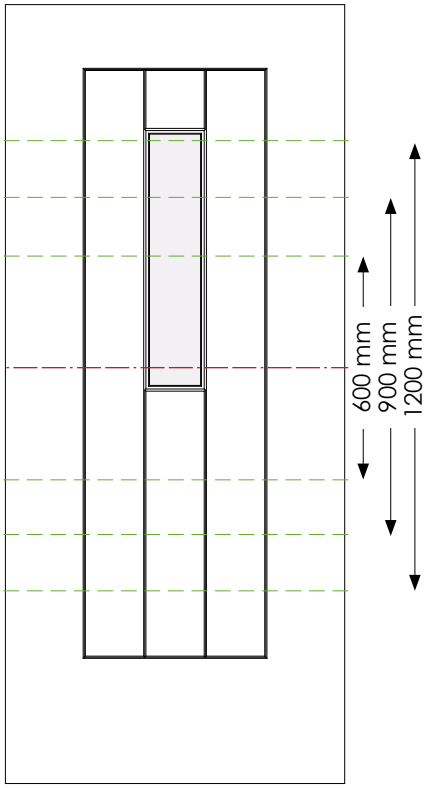
Centred with the glass

Dune Retreat



Centred with the glass

Aspen

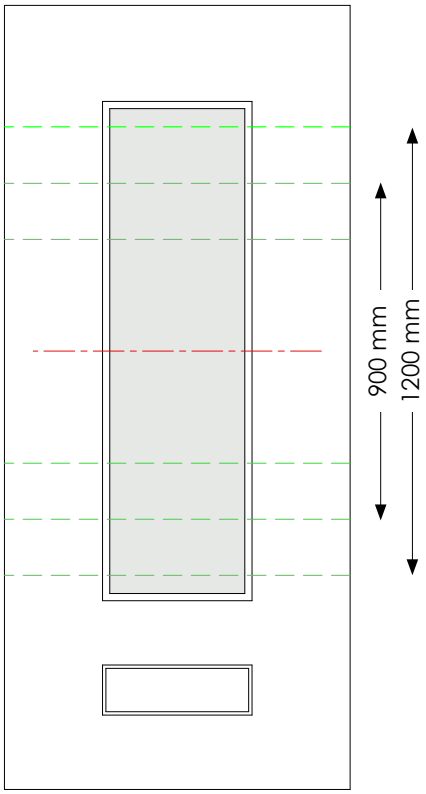


Centred with the mouldings

In line bar handles
are fitted **115mm** from the edge of the door to the centre of the fixing hole.

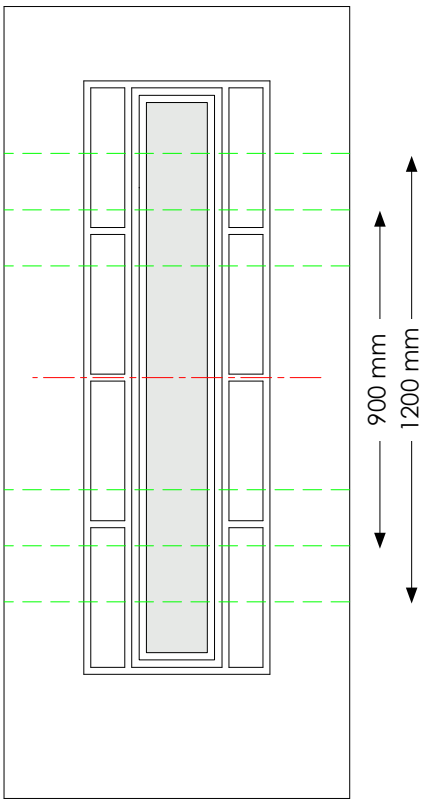
900mm and 1200mm Fitting Position

Vogue



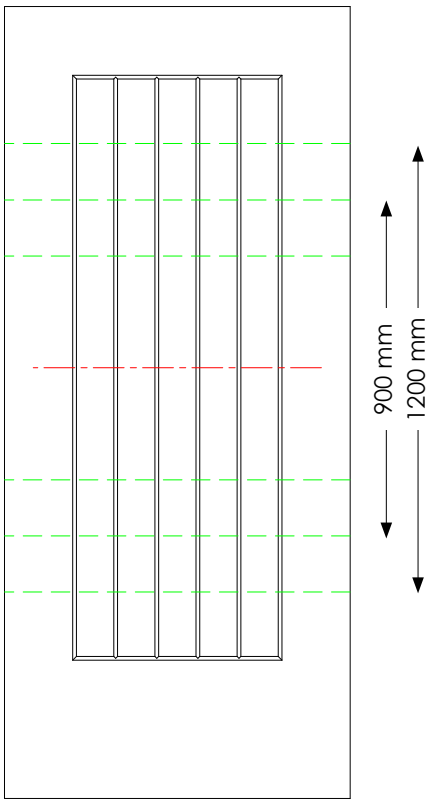
Centred with the glass

Vermont



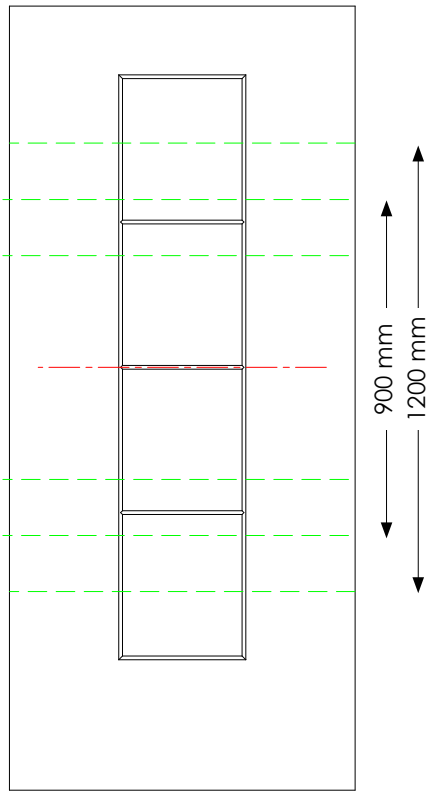
Centred with the glass

Indiana



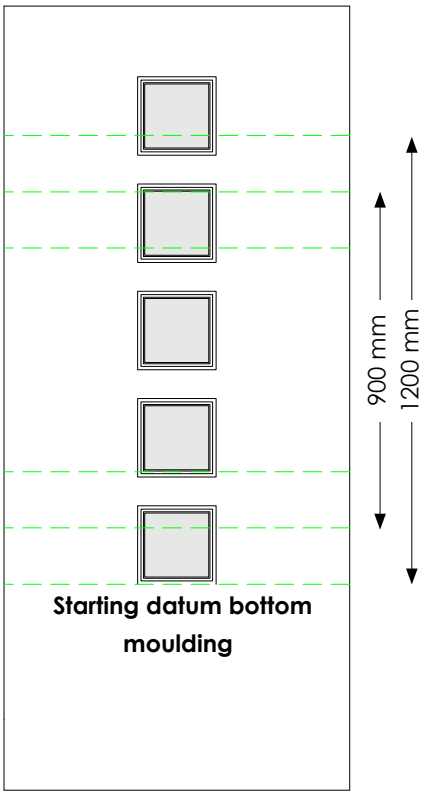
Centred with the mouldings

Dakota



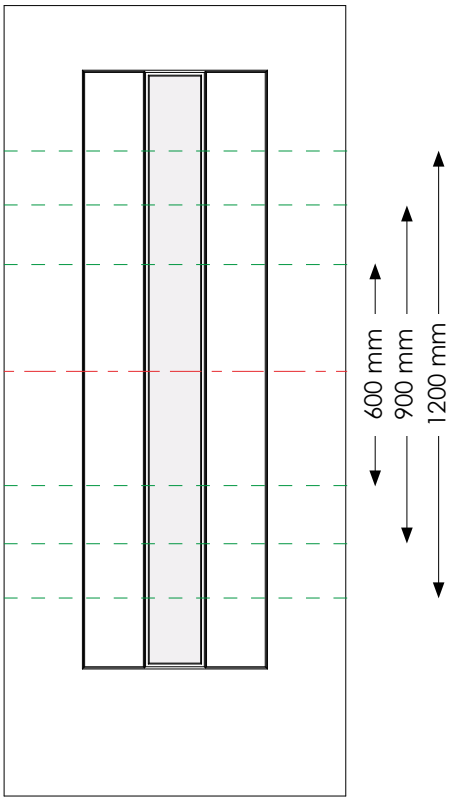
Centred with the mouldings

Manhattan



Starting datum bottom moulding

Hudson



Centred with the glass

Off set bar handles
are fitted **45mm** from the edge of the door
to the centre of the fixing hole.

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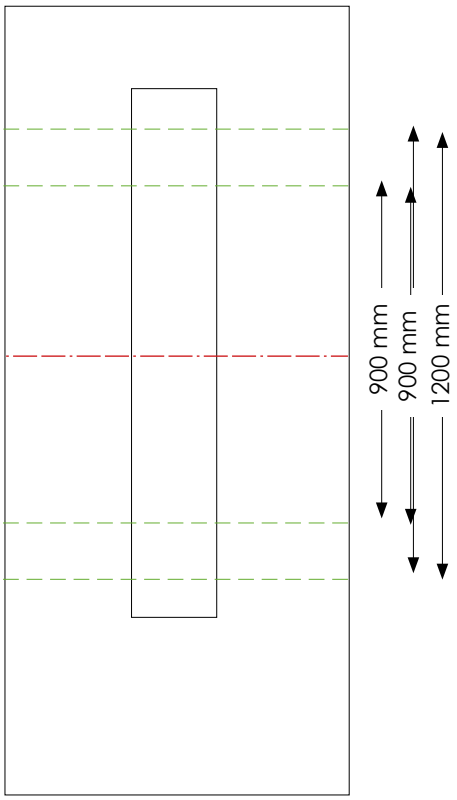
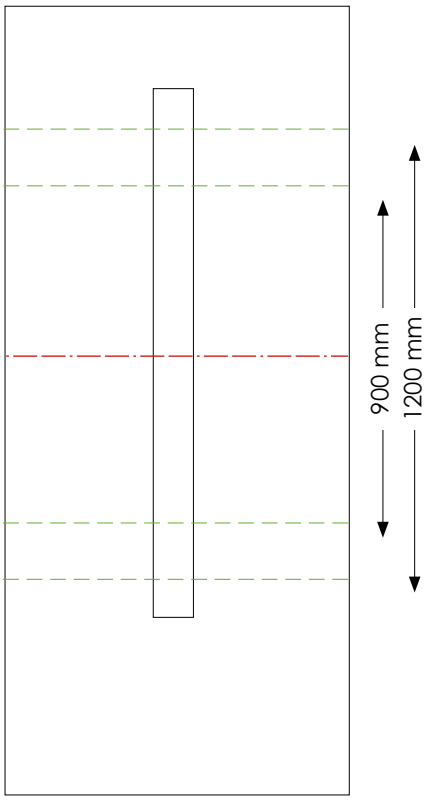
900mm and 1200mm Fitting Position

Dune Vision



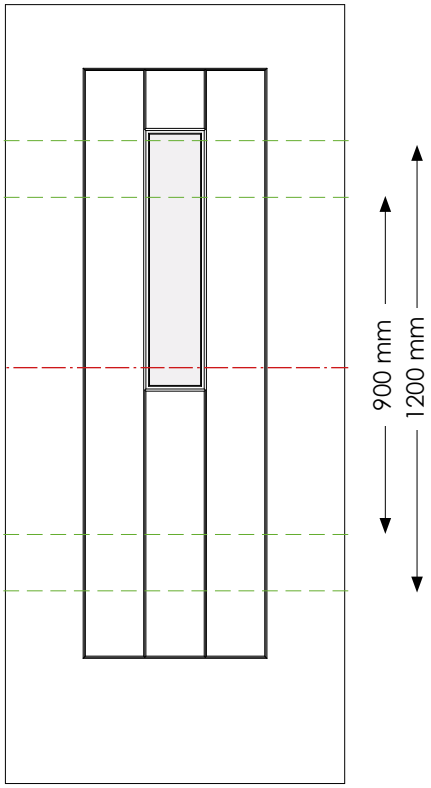
Centred with the glass

Dune Retreat



Centred with the glass

Aspen

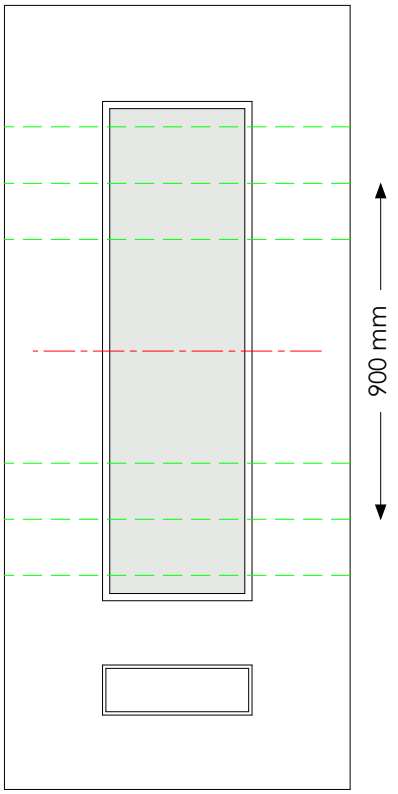


Centred with the mouldings

Off set bar handles
are fitted **45mm** from the edge of the door
to the centre of the fixing hole.

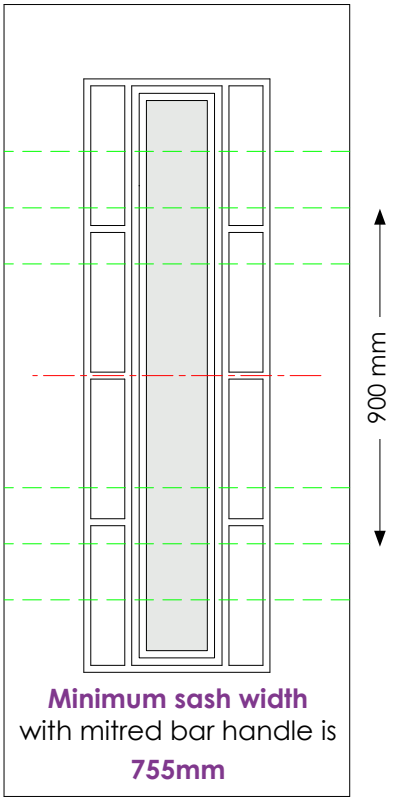
900mm Fitting Position

Vogue



Centred with the glass

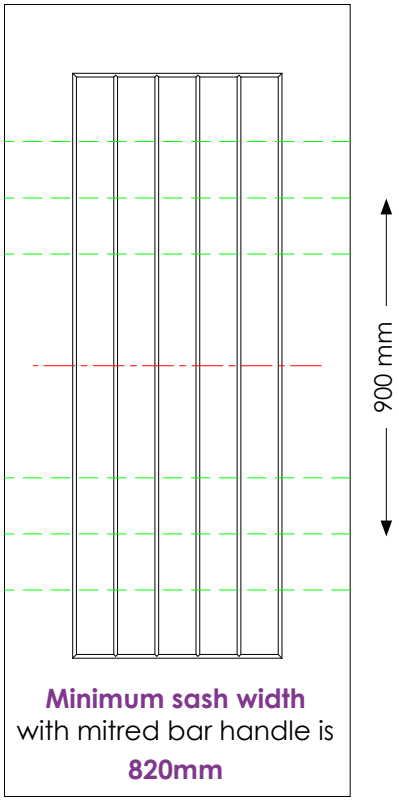
Vermont



Minimum sash width
with mitred bar handle is
755mm

Centred with the glass

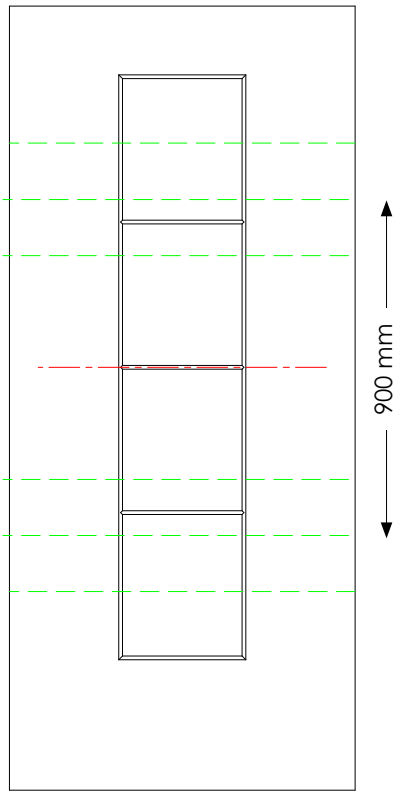
Indiana



Minimum sash width
with mitred bar handle is
820mm

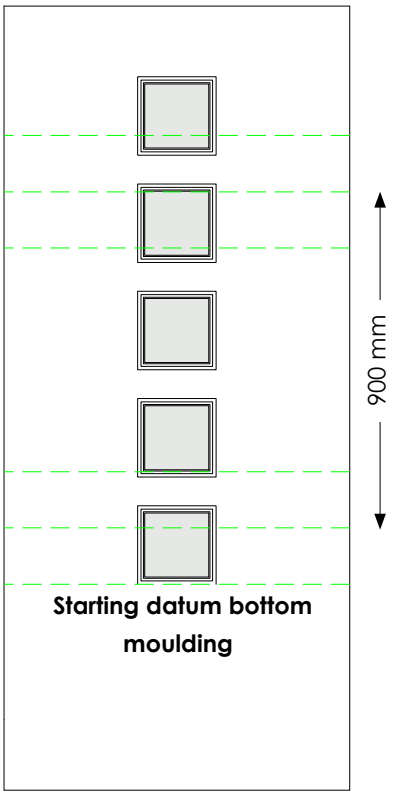
Centred with the mouldings

Dakota



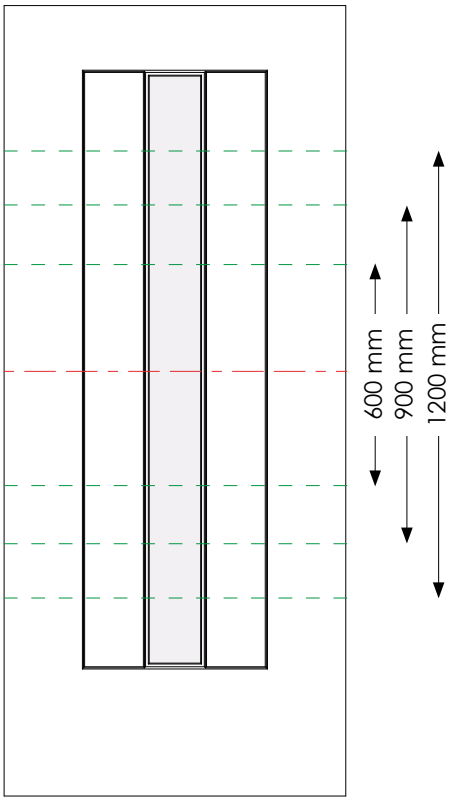
Centred with the mouldings

Manhattan



Starting datum bottom moulding

Hudson



Centred with the glass

Mitred bar handles
are fitted **115mm** from the edge of the door
to the centre of the fixing hole.

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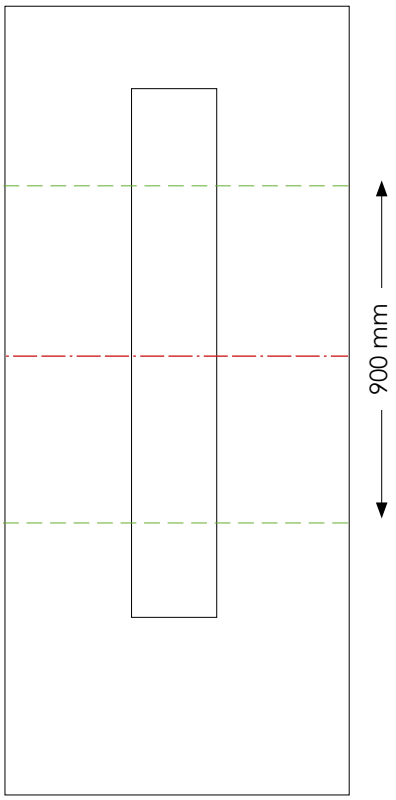
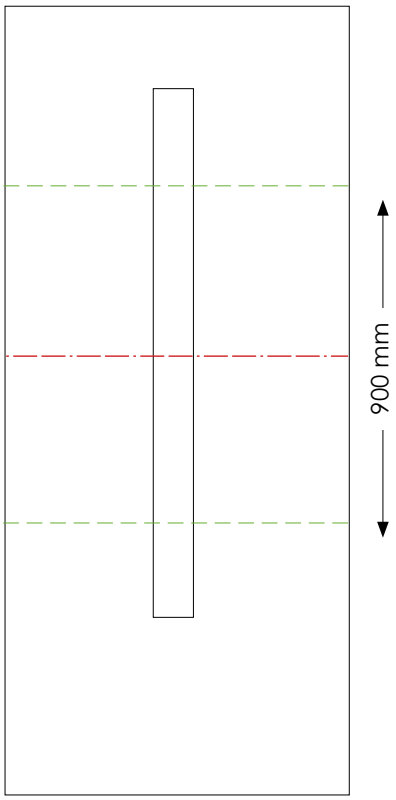
900mm Fitting Position

Dune Vision



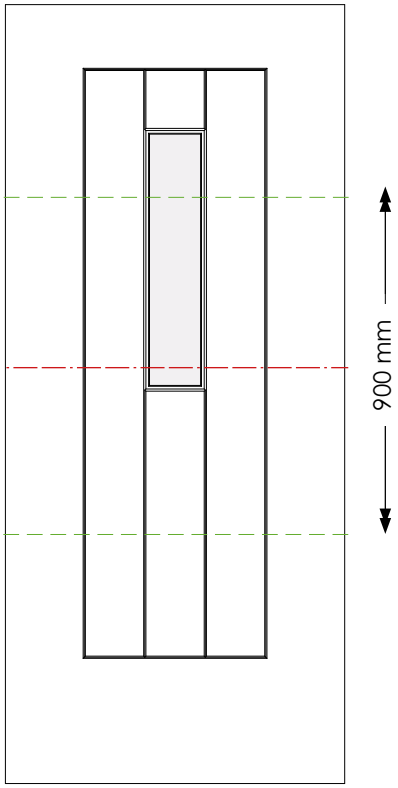
Centred with the glass

Dune Retreat



Centred with the glass

Aspen

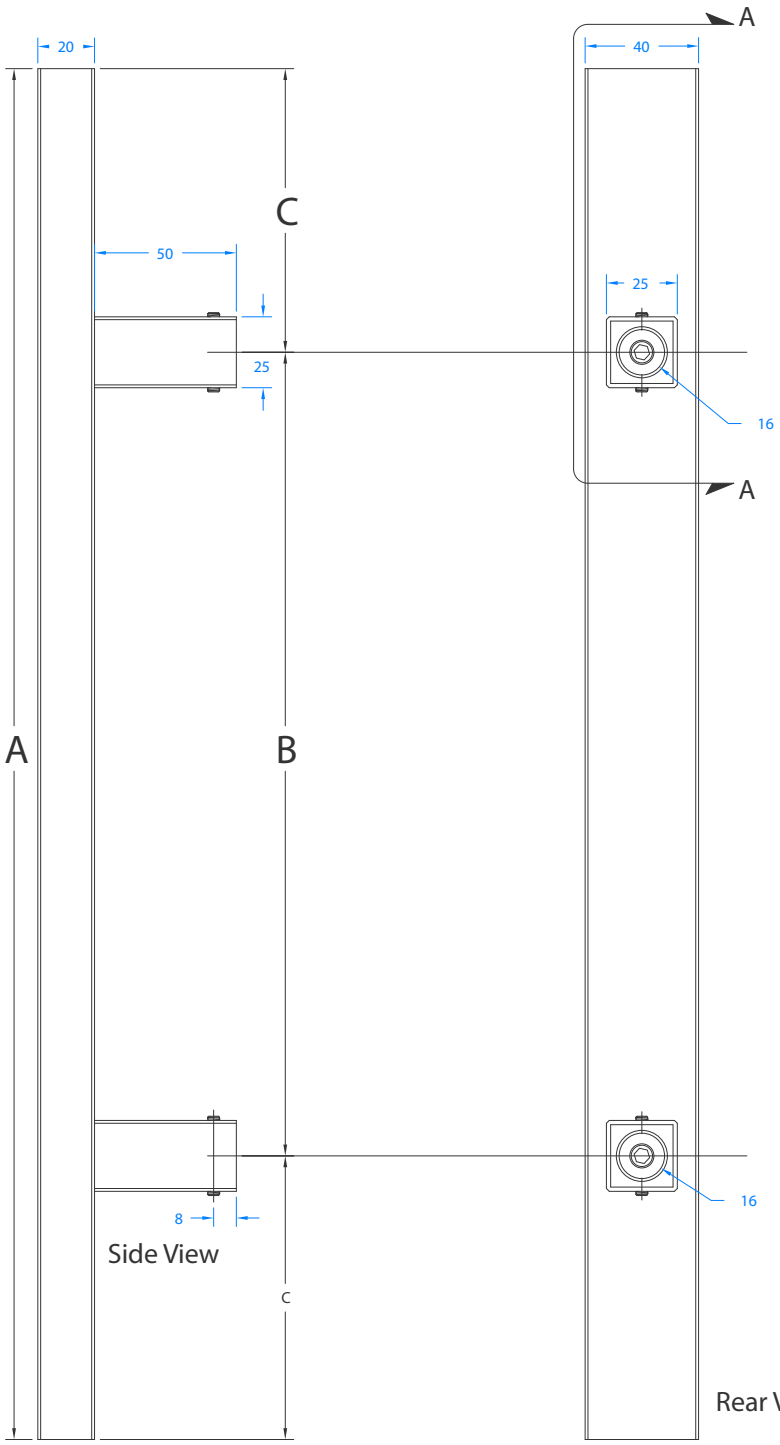


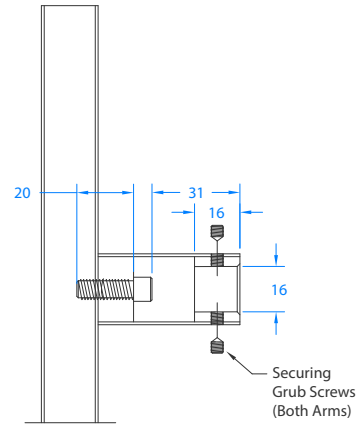
Centred with the mouldings

Mitred bar handles
are fitted **115mm** from the edge of the door
to the centre of the fixing hole.

SIZE:1200 Bar Handle
A=1200mm
B=1000mm
C=100mm

SIZE:900 Bar Handle
A=900mm
B=700mm
C=100mm





Section A-A

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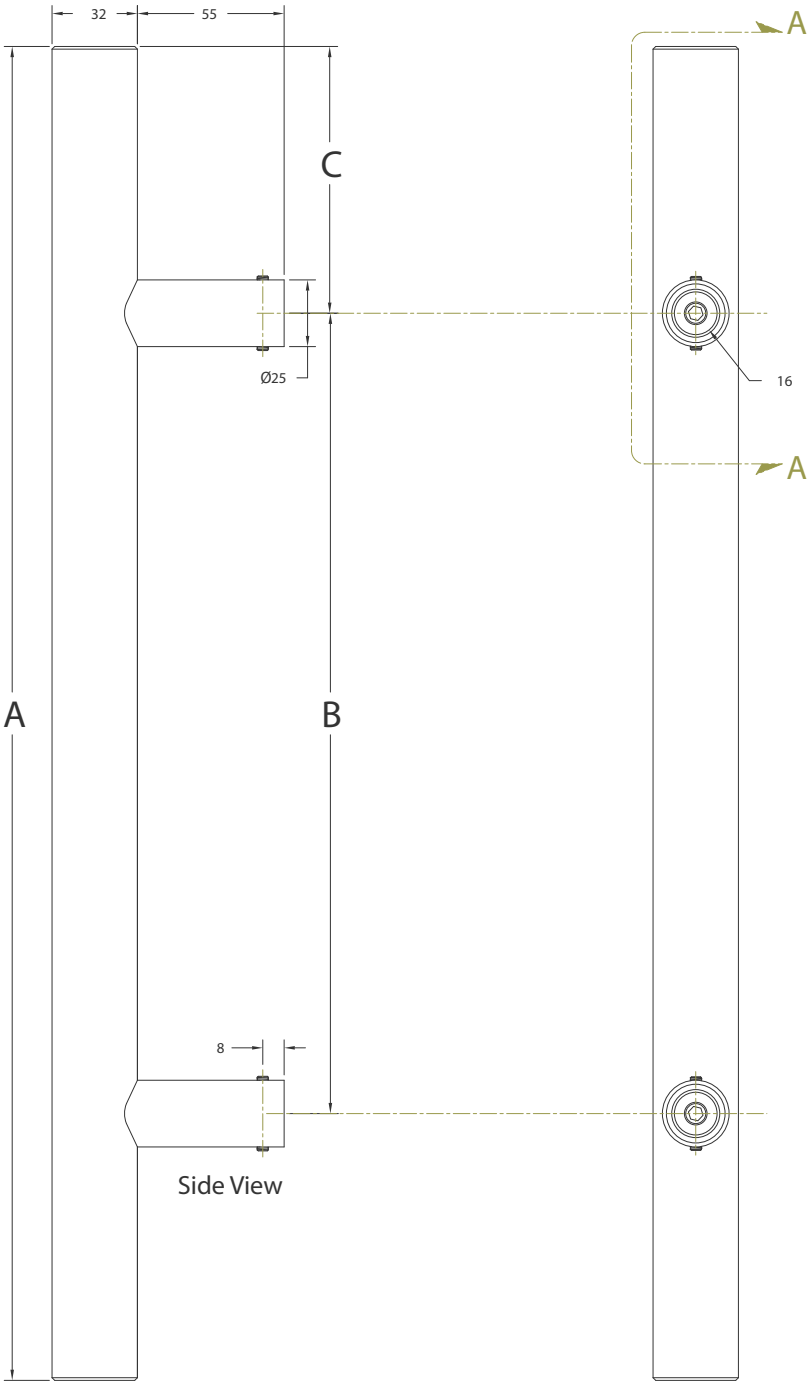
Round Bar 600mm, 900mm and 1200mm

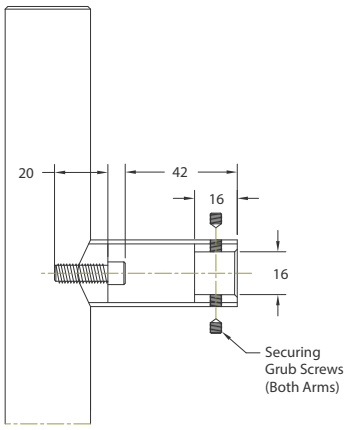
SIZE:600mm
A=600mm
B=400mm
C=100mm

SIZE:900mm
A=900mm
B=700mm
C=100mm

SIZE:1200mm
A=1200mm
B=1000mm
C=100mm



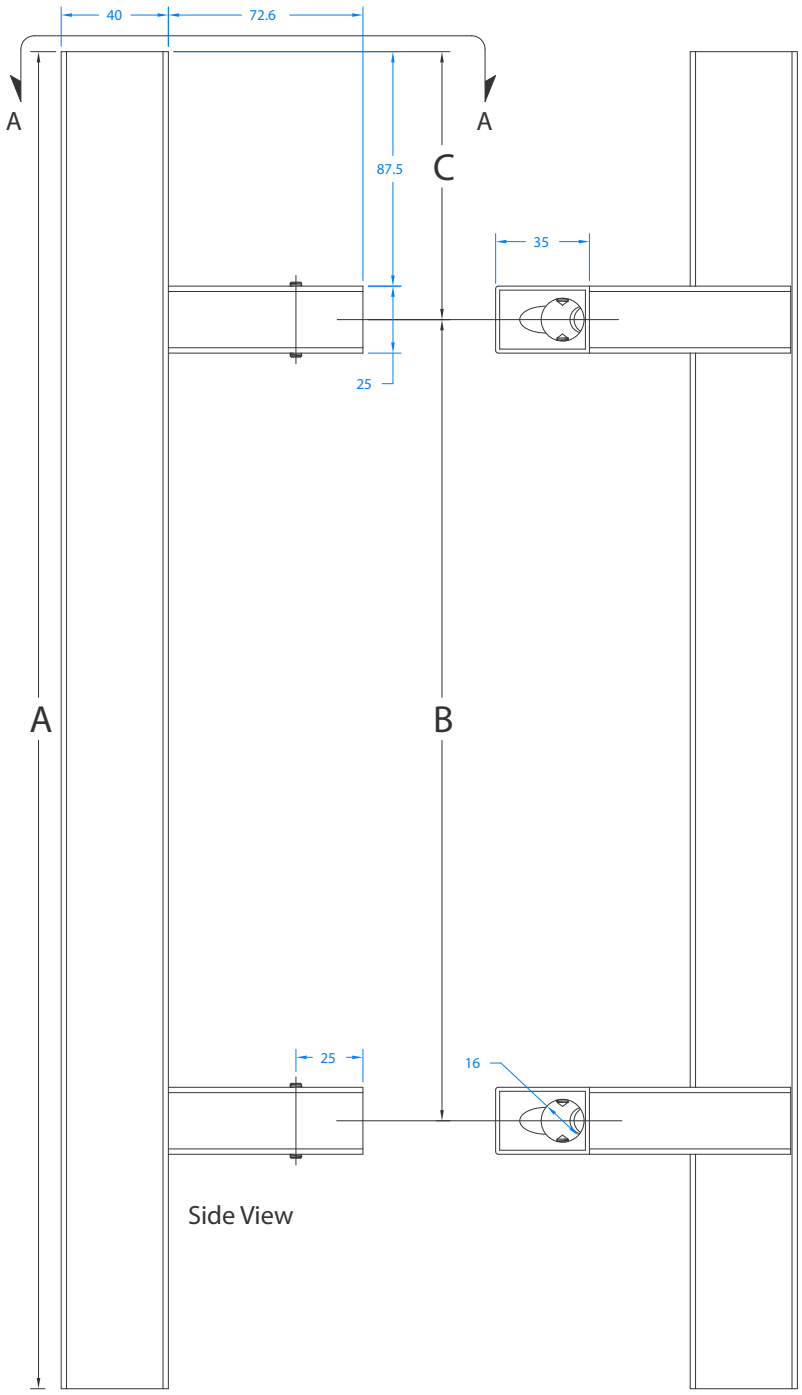
Side View



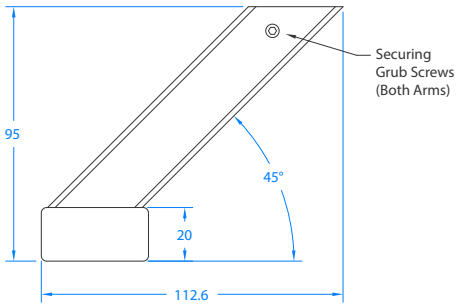
Section A-A

Square Bar 1200mm (Offset)

SIZE:
A=1200mm
B=1000mm
C=100mm



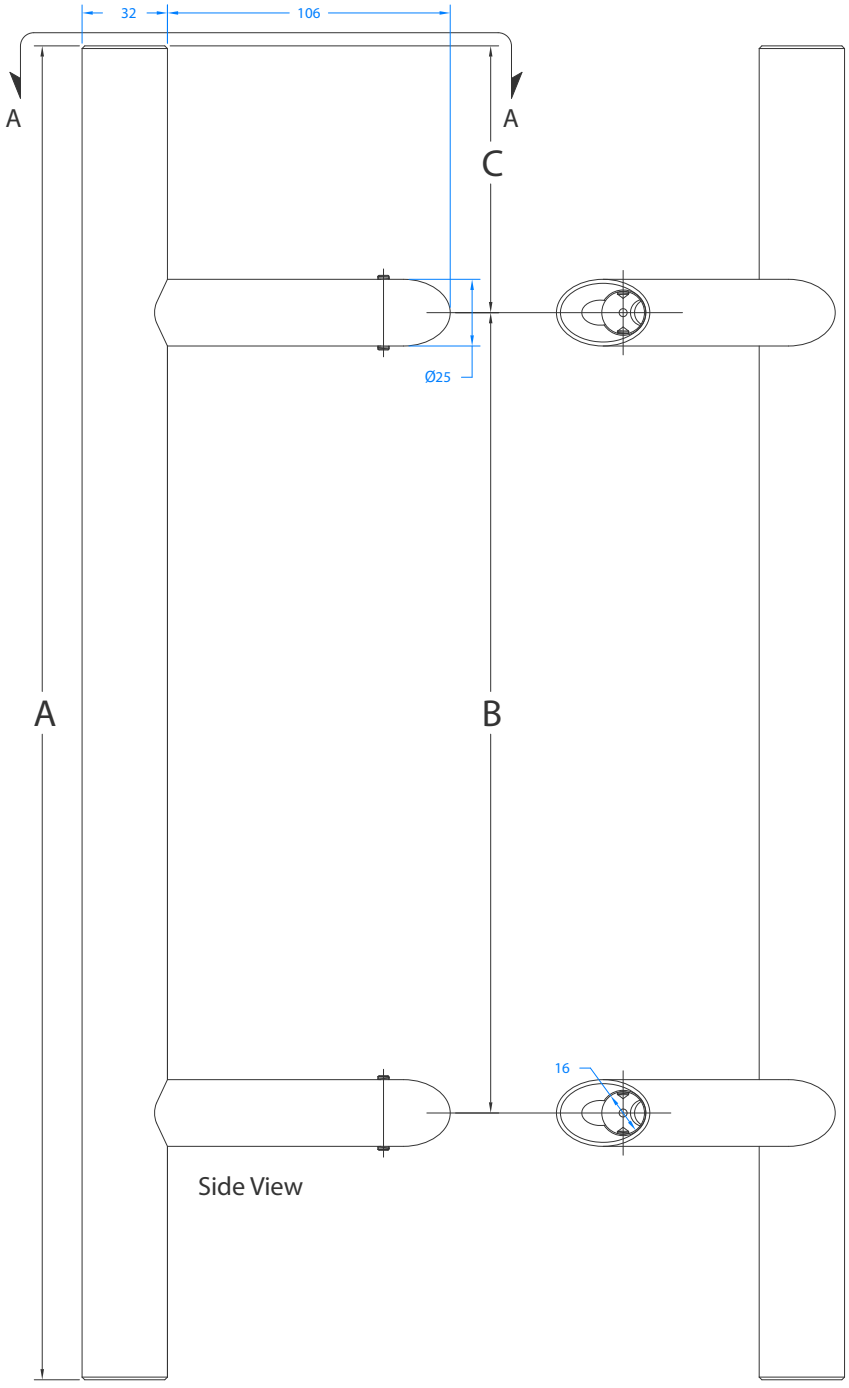
Side View



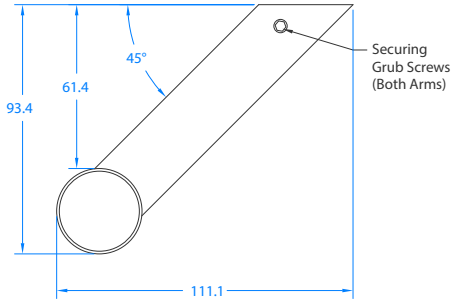
Section A-A

Round Bar 1200mm (Offset)

SIZE:
A=1200mm
B=1000mm
C=100mm



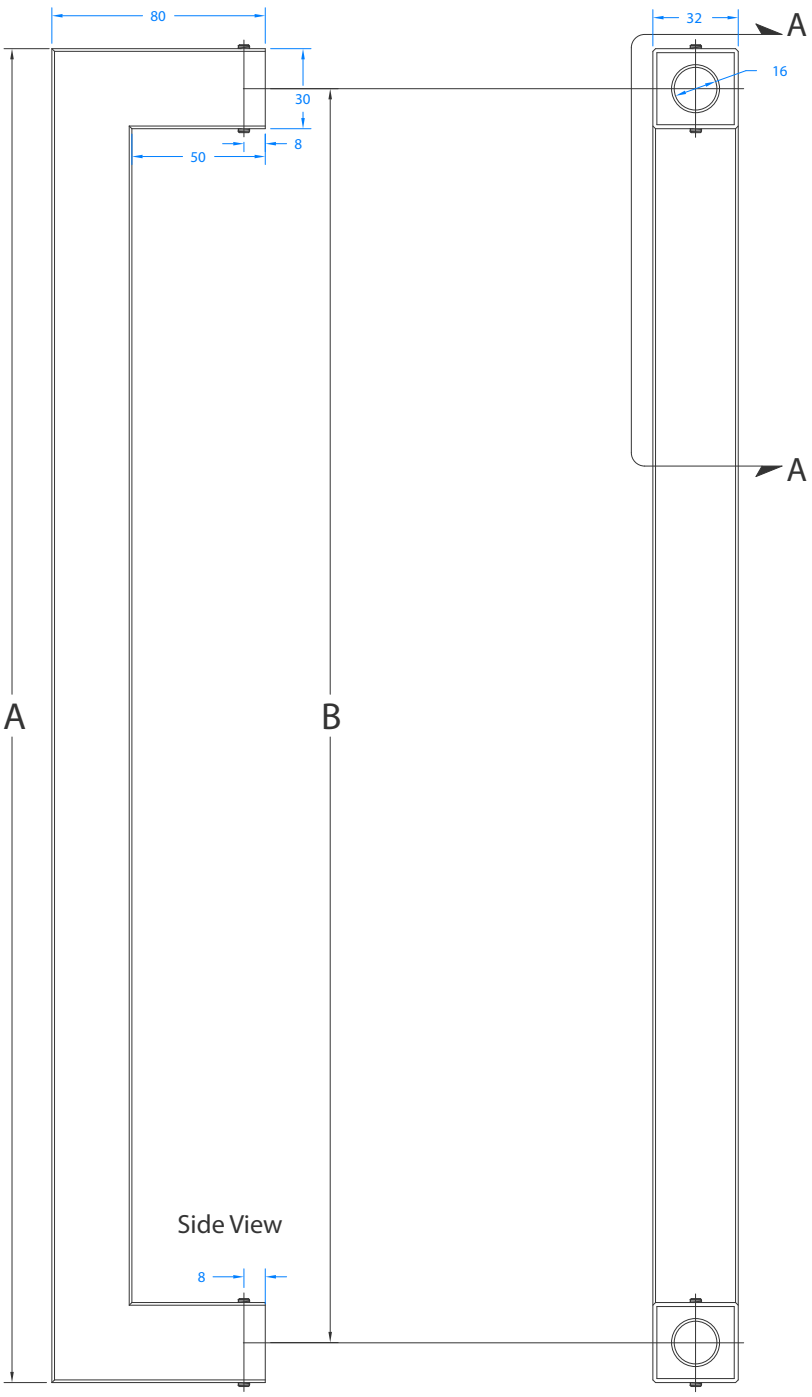
Side View

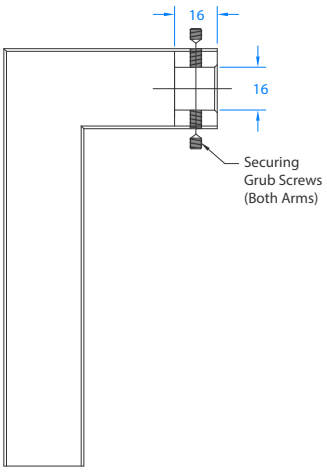


Section A-A

Mitre Bar 900mm

SIZE:
A=930mm
B= 900mm





Section A-A

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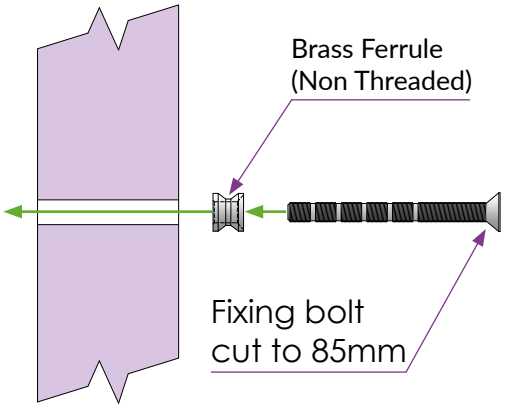
Fitting Instructions

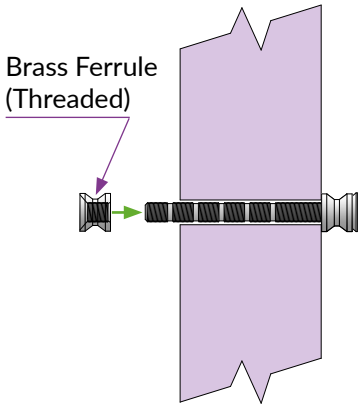
(Do the same on the top and the bottom fixing position)
The metal washers can be used if required they fit between the brass ferrules and the Rockdoor.

1. From the inside slide the non threaded brass ferrule over the fixing bolt so the counter sunk head fits into the counter sink of the ferrule.

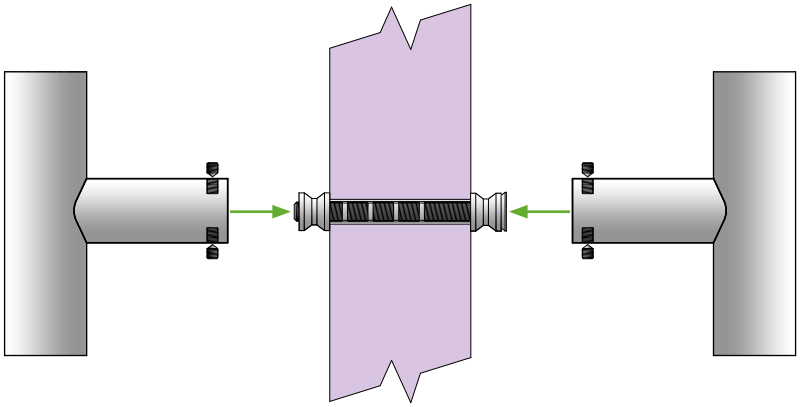
Slide the 8mm fixing bolt through the pre drilled hole in the Rockdoor.



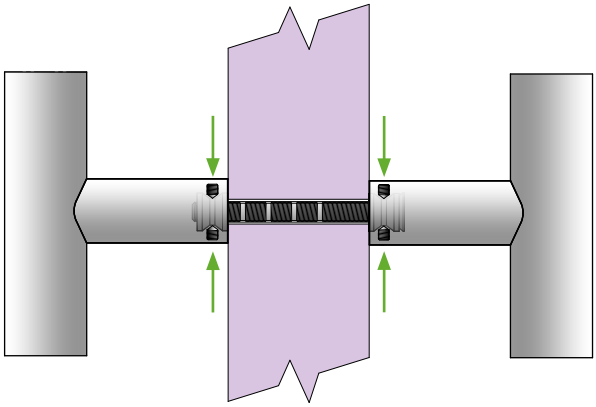
2. Screw the threaded ferrule to the fixing bolt from the outside.



3. Fit the handles in position

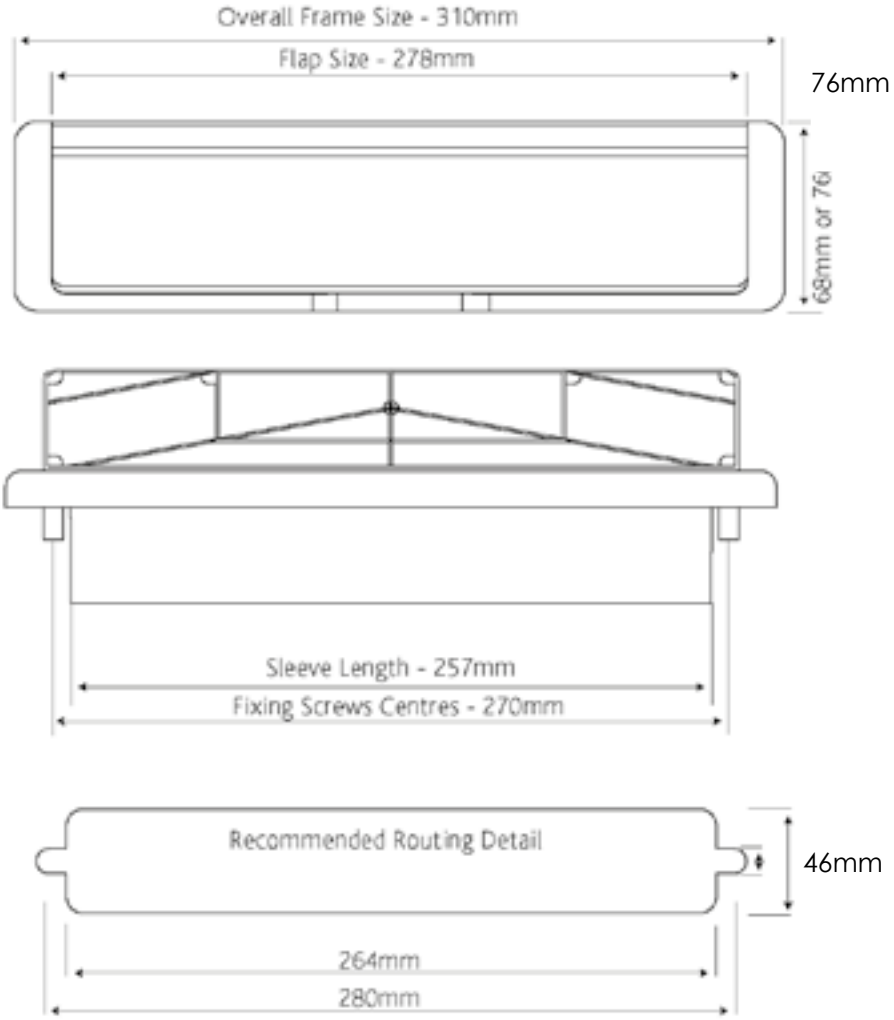


4. Tighten all the grub screws to secure.



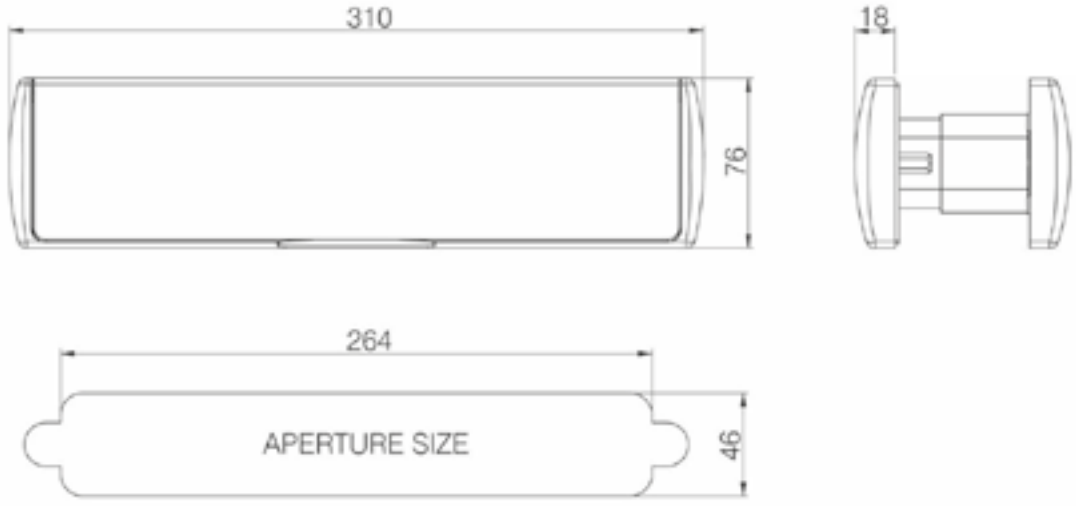
Standard Letterplate

Meets the requirements of BS EN 1670:2007 Grade 5 (480 hours)
Flap cycle tested to 30,000 cycles Conforms to the requirements of BS EN 13724: 2002
Zinc construction with hardex coating.



Stainless Steel Letterplate

Cycle tested to 20,000 cycles
Corrosion tested in excess of 1,000 hours based on BS EN 1670
304 stainless steel construction



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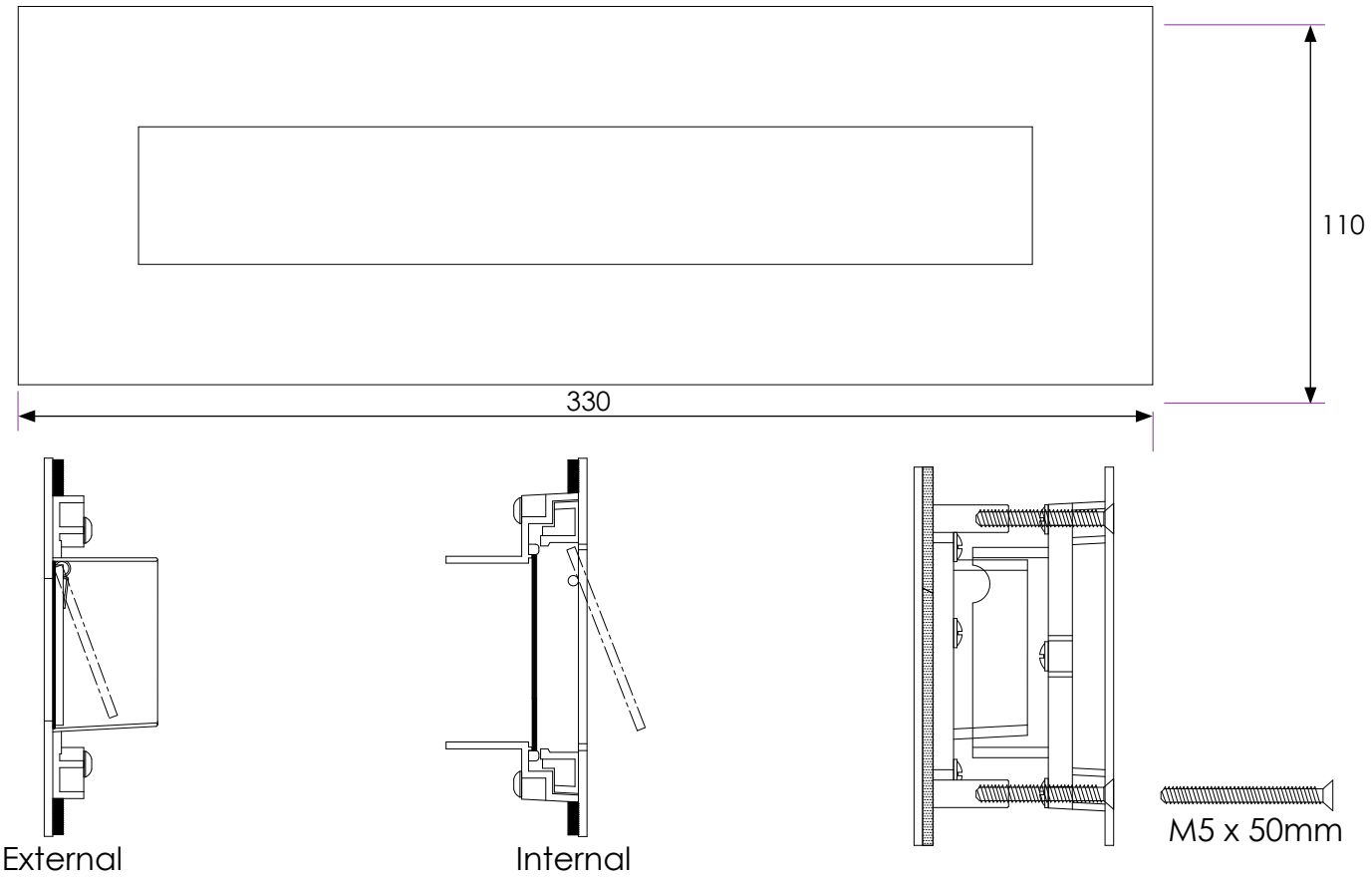
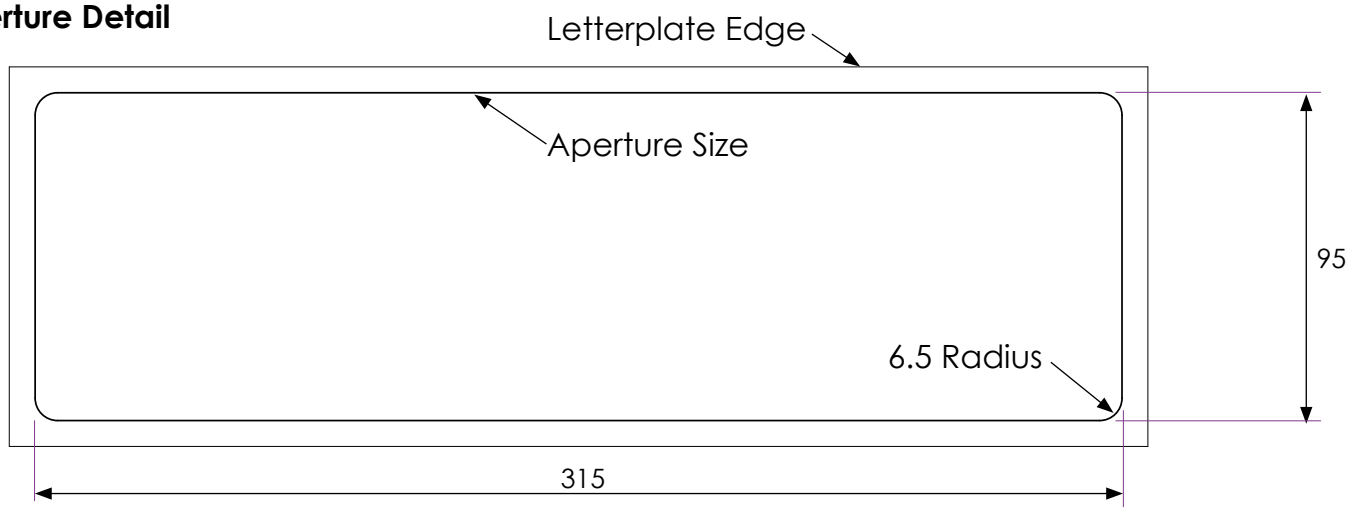
Stainless Steel Contemporary Letterplate

- Achieved 'Best in Class' BS6375-1 Weather Test results against air, wind and water.
  Weather Test : Air Permeability: Class 4, Water Tightness: Class A9, Wind Resistance: Class 5
- Integral gaskets, brushes and telescopic liner for enhanced weather and draught protection.
- Built-in inner security flap helps prevent 'fishing'.
- Manufactured from 316 Grade Stainless Steel.
- Ideal for use where corrosion levels are high such as coastal environments.



Aperture Detail



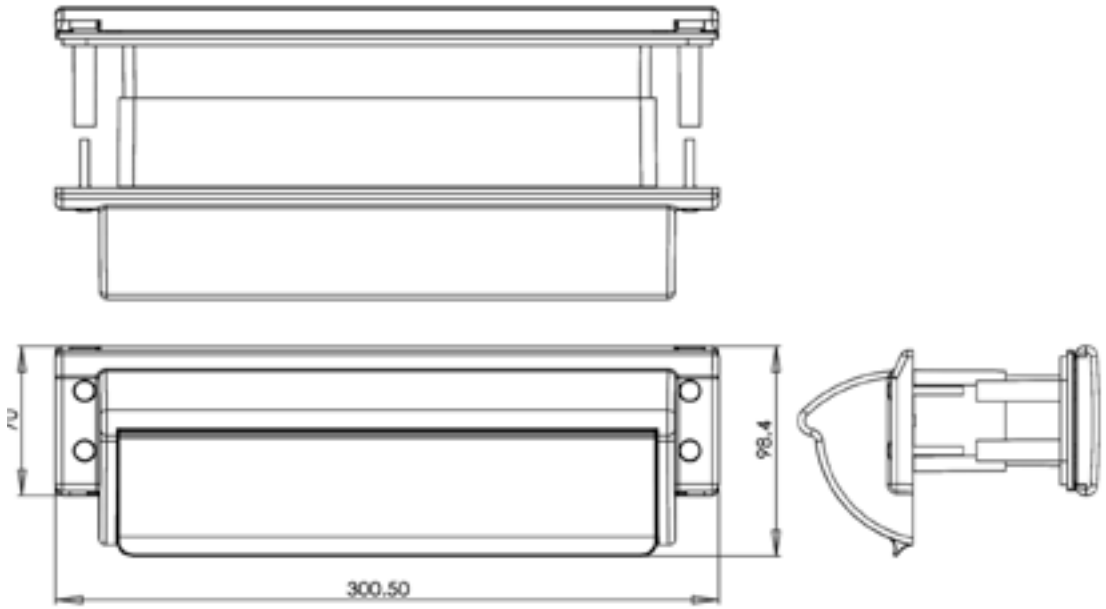
Fitting in the bottom rail

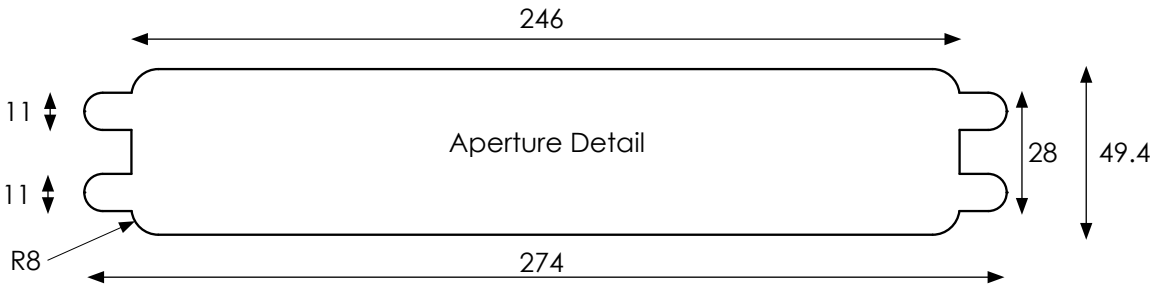
Check online using the portal as it is sash height dependant.

Not available under the glass on the Georga, the Montana and the Newark.

TS008 Letterplate

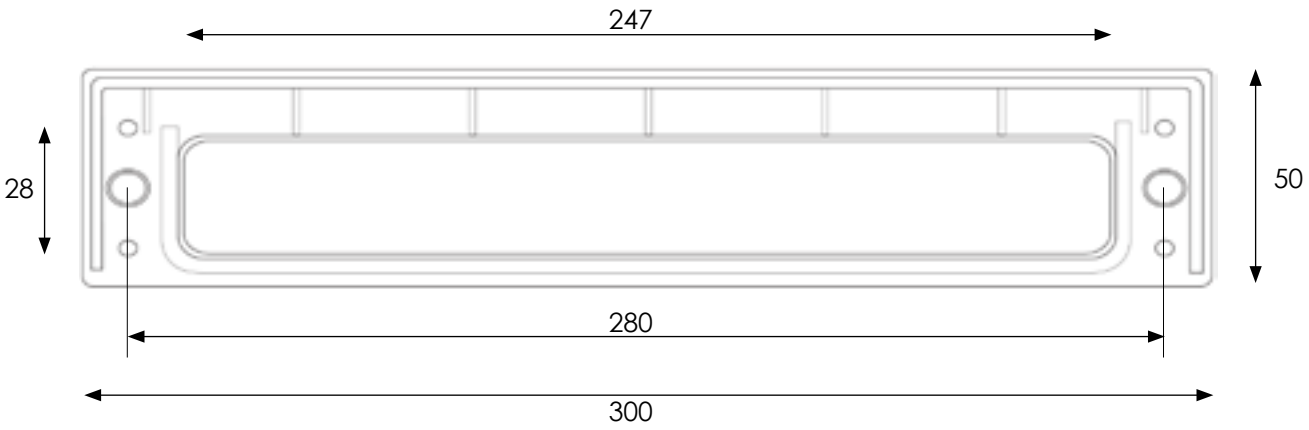
Cycle tested to 20,000 cycles
Corrosion tested in excess of 1,000 hours based on BS EN 1670
White PVC-U internal
304 stainless steel construction external
Concealed hinge mechanism for attack resistance





Sideframe Letterplate

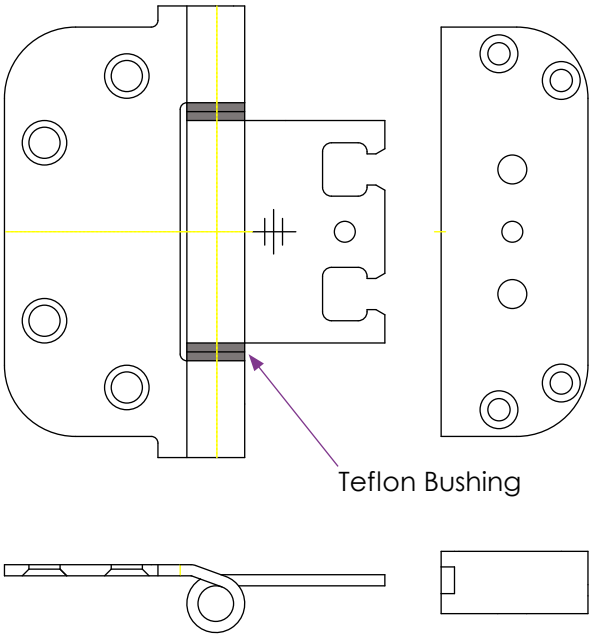
180 Opening
Black plastic frame
Aperture size 247mm x 28mm

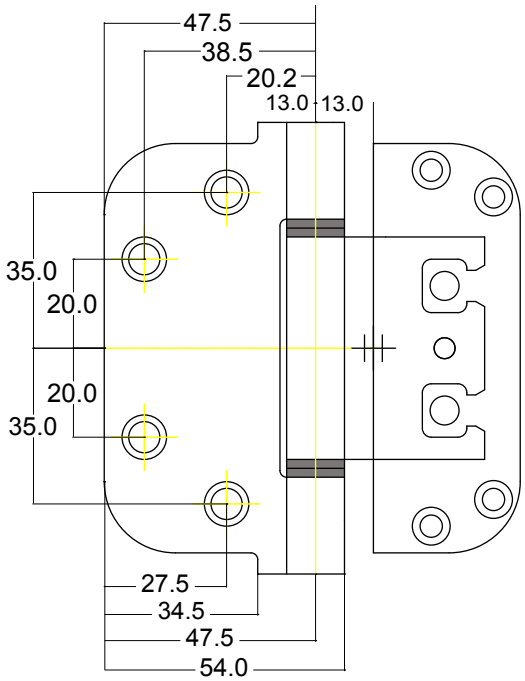


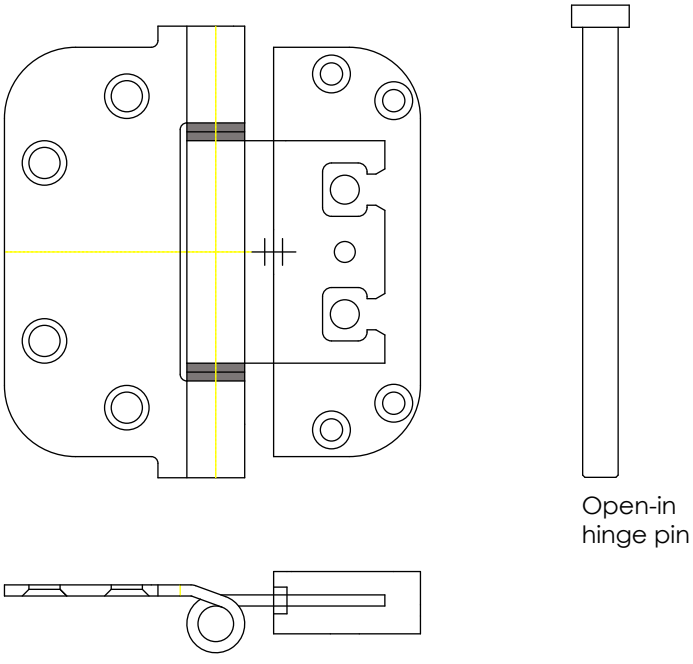
Rockdoor Standard Hinge

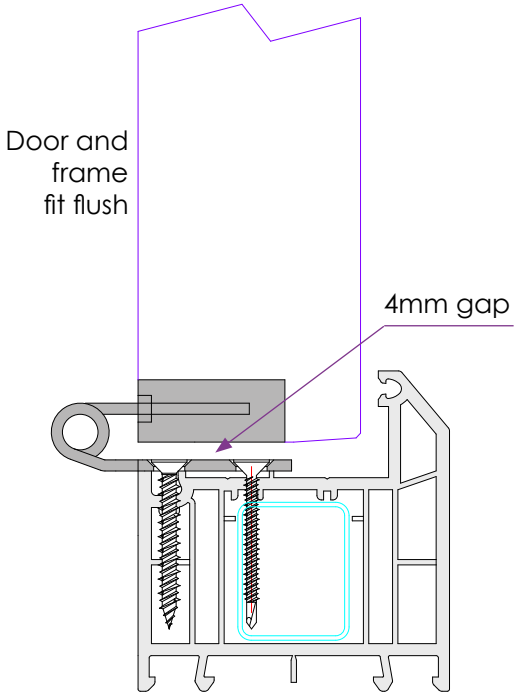
Adustable using a 4mm allen key.

Up/Down +/-3mm In/Out +/-2mm Left/Right +/-2mm





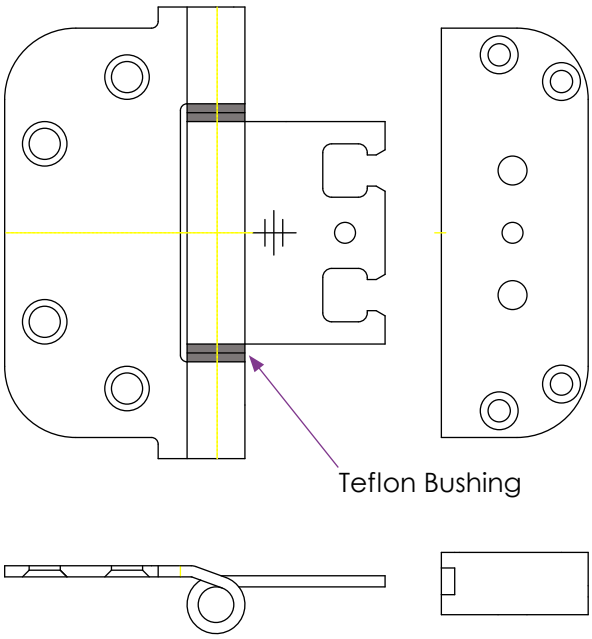


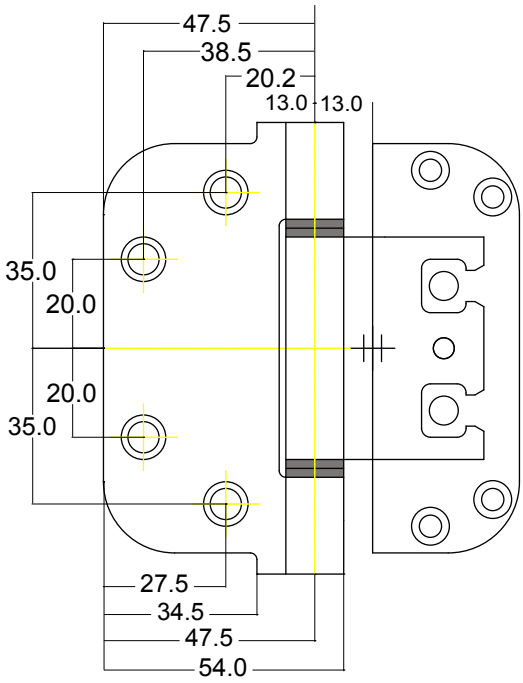


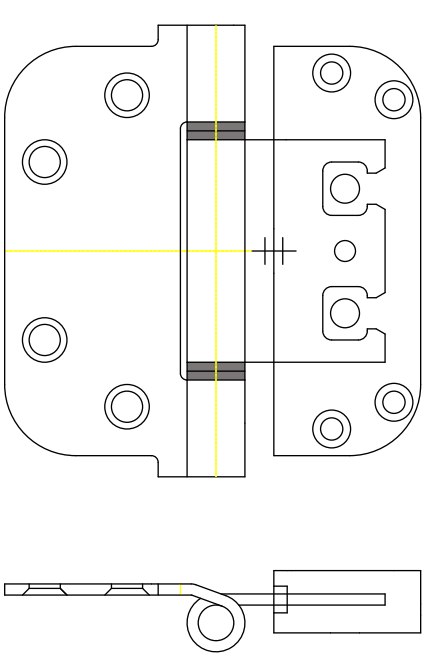
Open Out Hinge

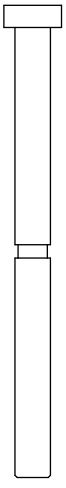
Adustable using a 4mm allen key.
Up/Down +/-3mm In/Out +/-2mm Left/Right +/-2mm

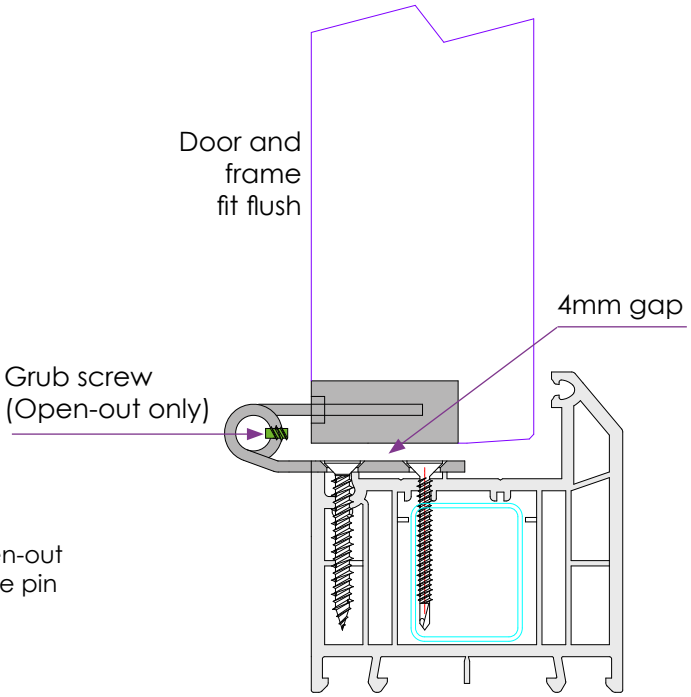
Open-out doors are fitted with concealed grub screws. The grub screws engage into a groove in the hinge pin; this stops the hinge pin from being removed. The grub screws are only accessible when the door is in the open position.



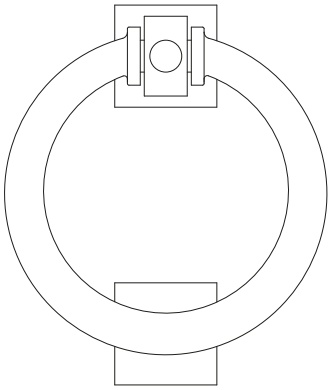


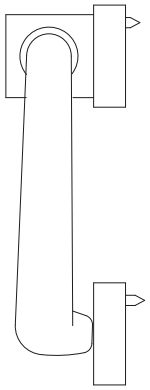


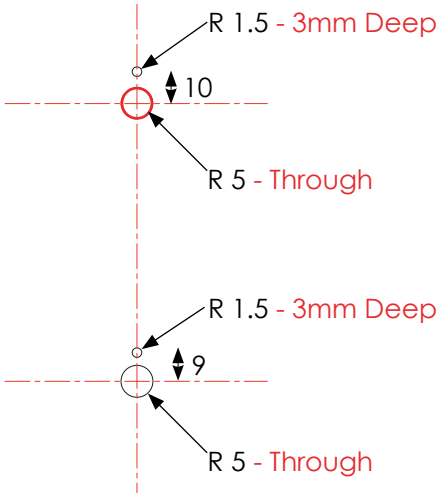




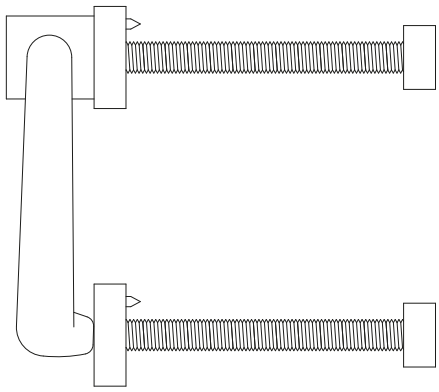
Stainless Steel Bull Ring Knocker



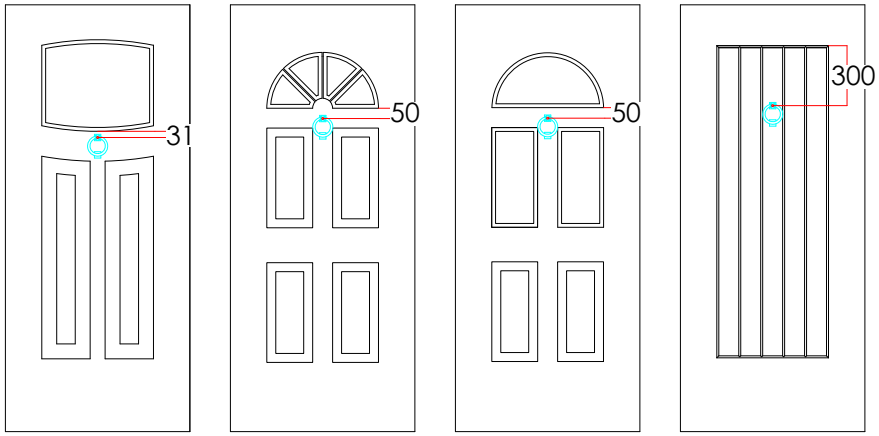




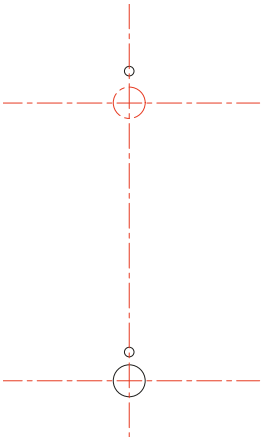
Bolt through fixing



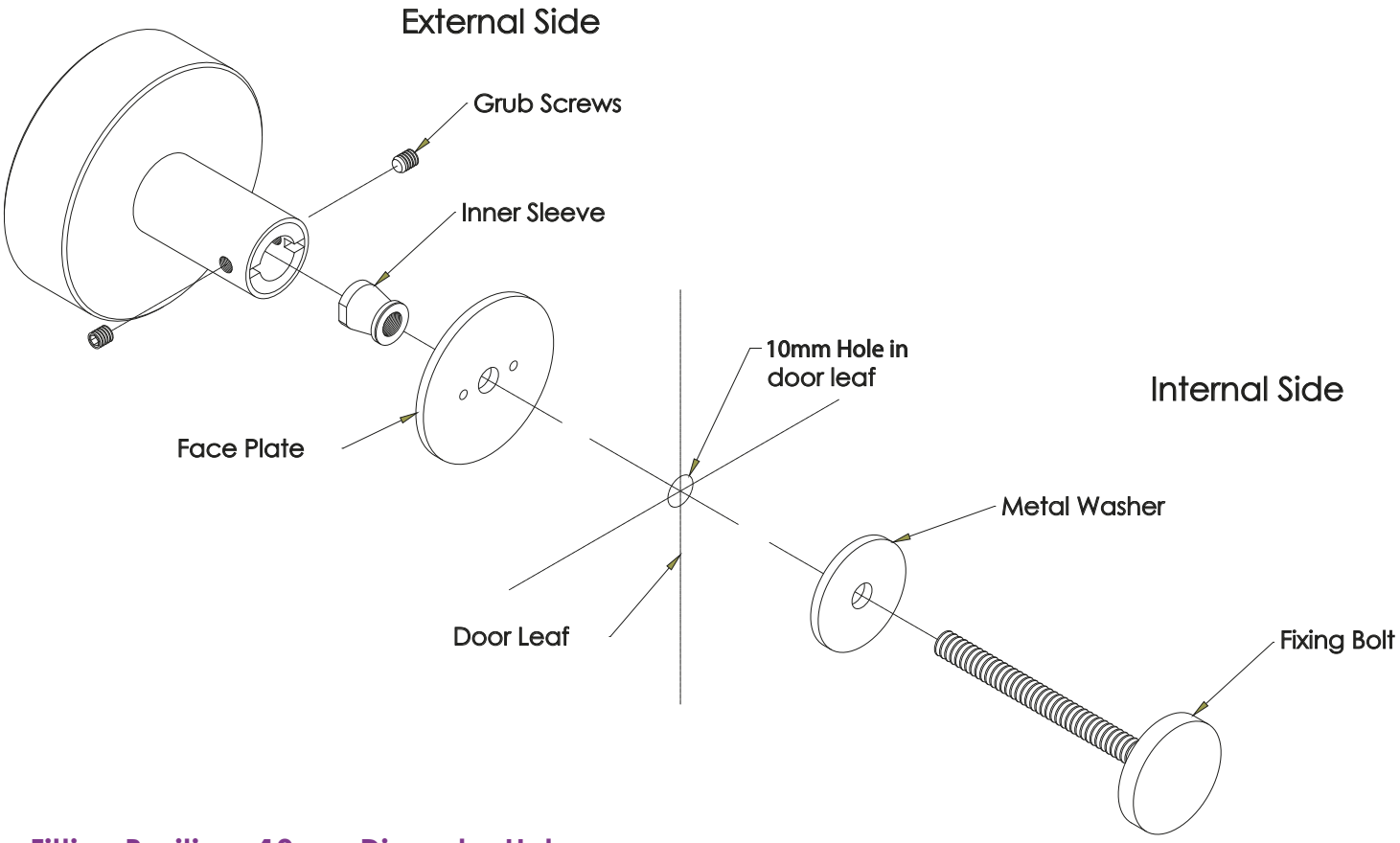
Fitting Positions



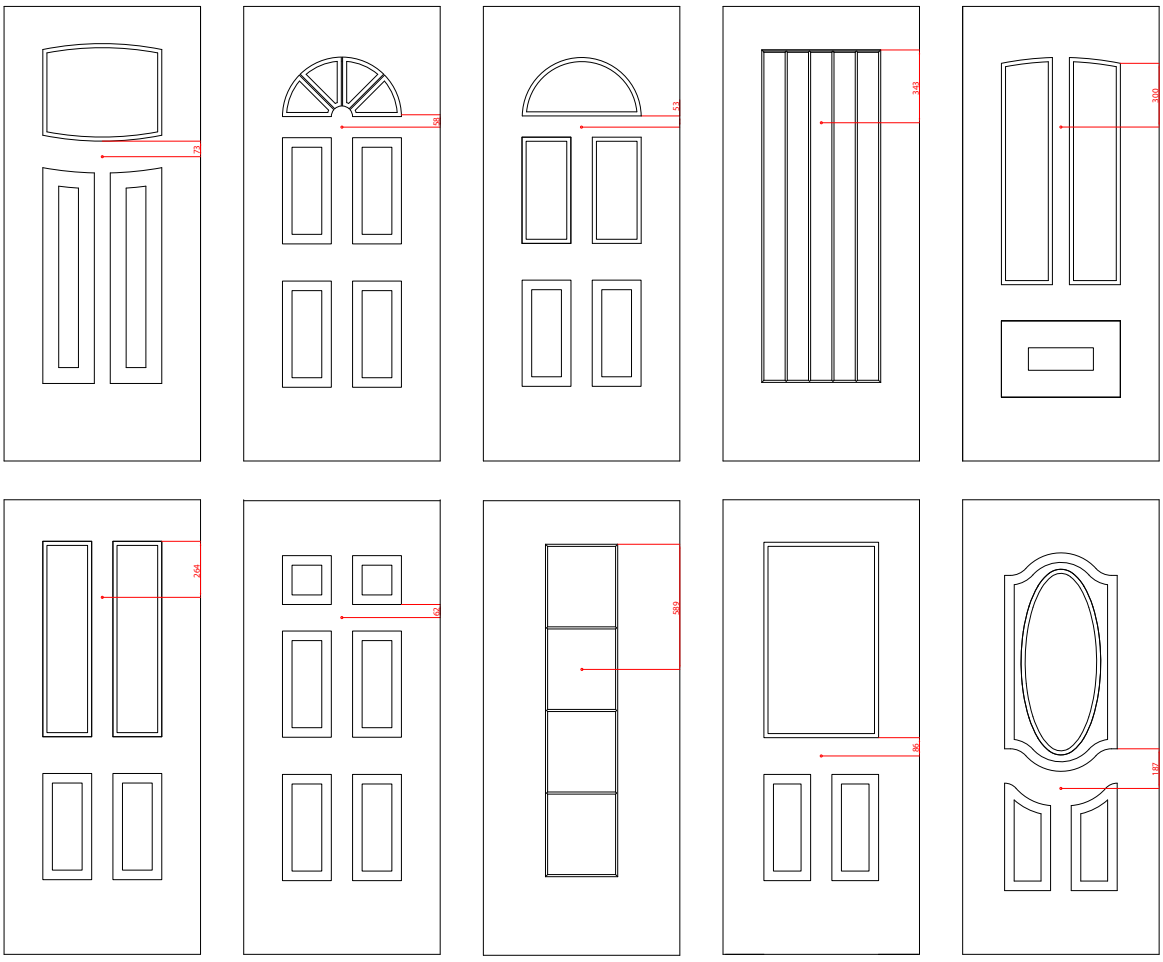
All measurements are taken from the moulding to the centre line of the top hole.



Stainless Steel Knob

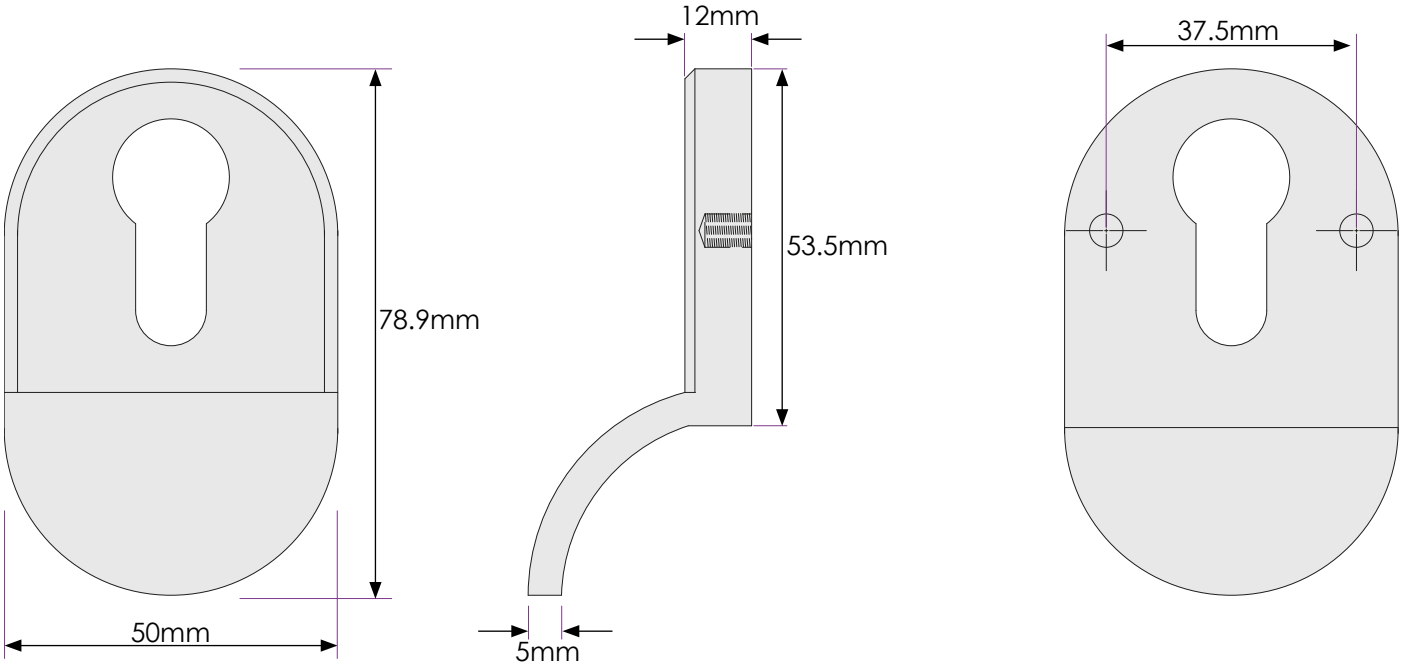


Fitting Positions 10mm Diameter Hole

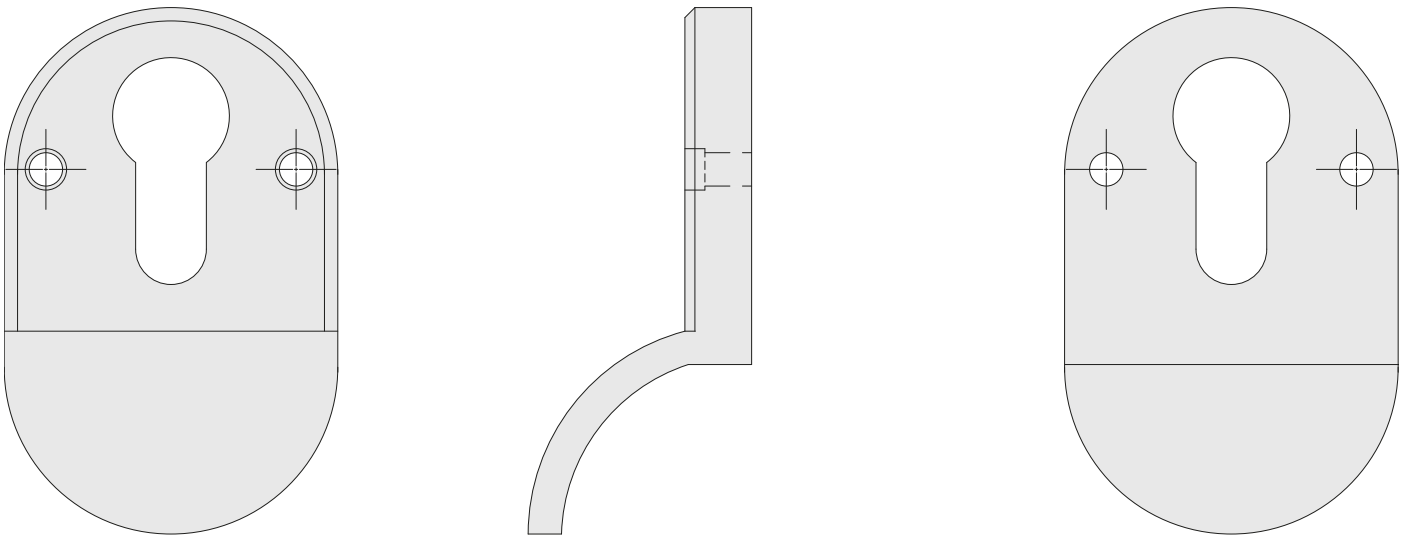


Stainless Steel Door Pull

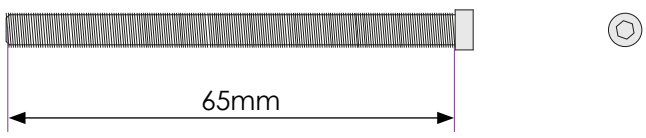
External



Internal



Hex Socket Cap Fixings x 2



R Styles page 2

Magnetic Cat Flap Available in White and Brown

Magnetic Lock

The magnetic operation requires no batteries the cat simply wears a collar key which is then used to open the locking mechanism of the cat door. Although not 100% secure (no cat flap is) this does help to keep out unwanted strays and other small animals.

4-way Locking

The 4-way latch offers the ultimate in flexibility. Set the cat flap to open,closed, in only or out only.

Manual Cat Flap Available in White and Brown

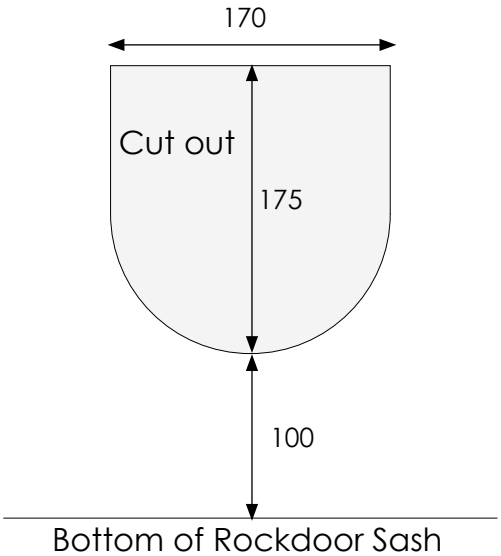
4-way Locking

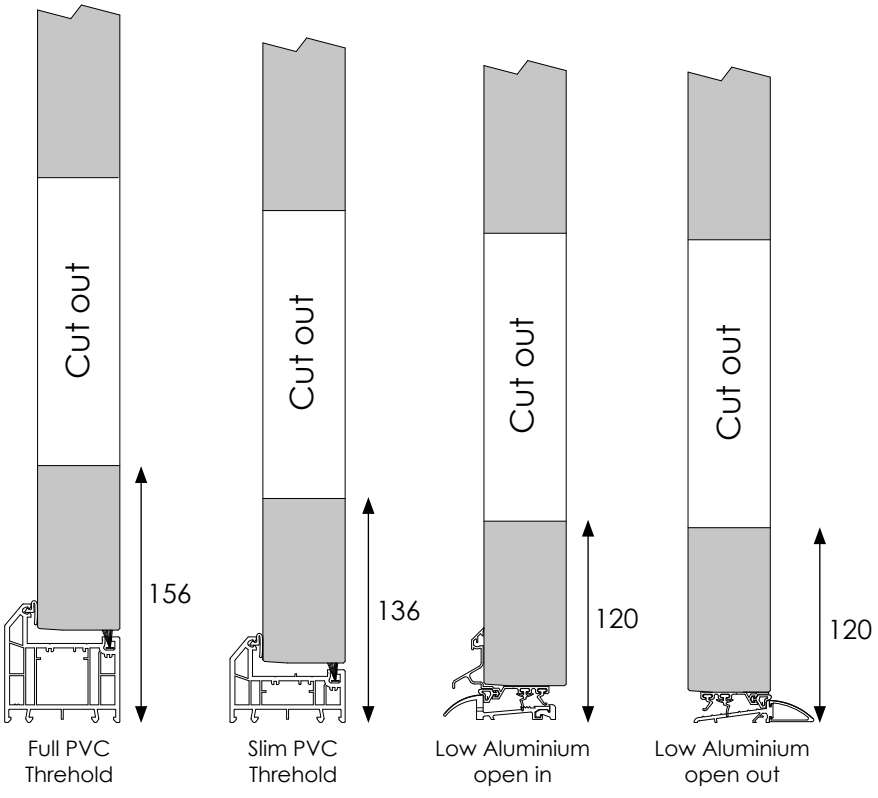
The 4-way latch offers the ultimate in flexibility. Set the cat flap to open,closed, in only or out only.

Door Styles available with a cat flap:

Aspen
Stable spy view
Stable view light
Cottage spy view
Cottage view light
T &G 5
Indiana
Dakota

Cut out positions

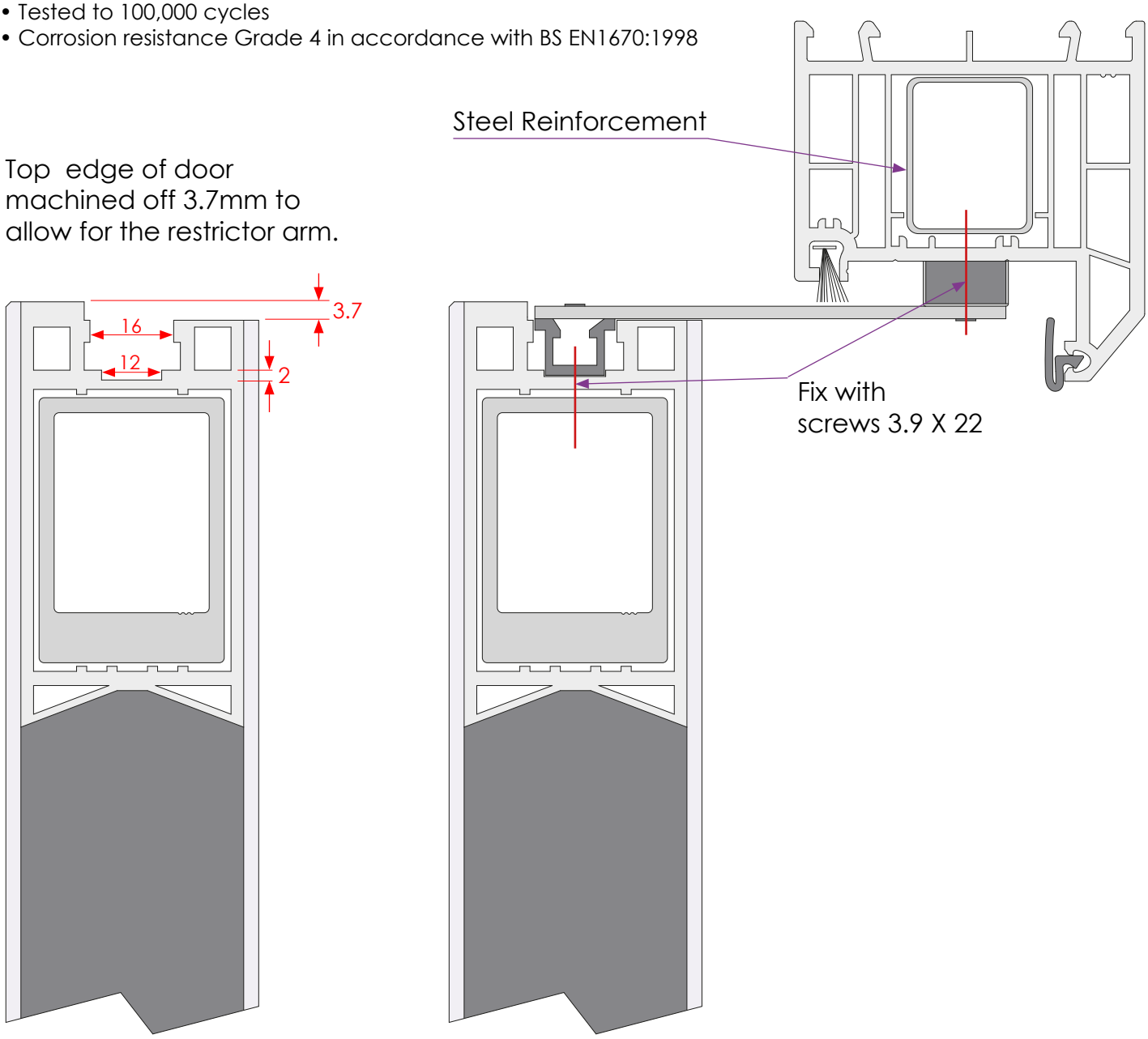


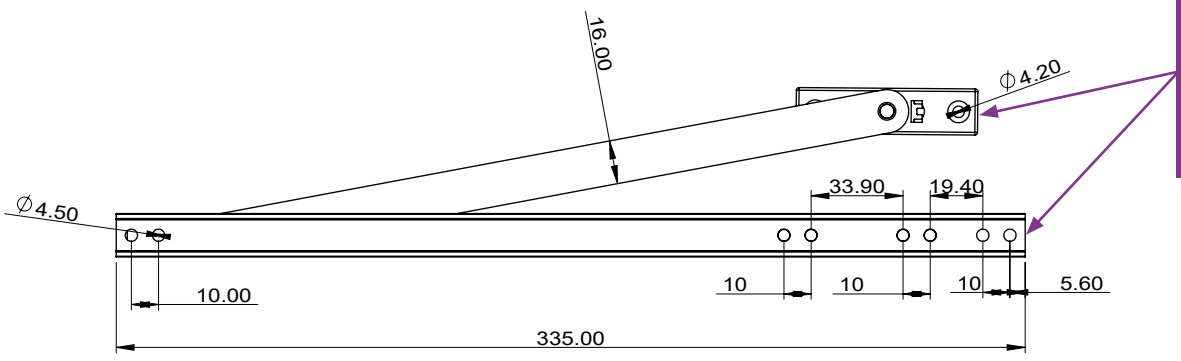


AV-SLDR-A Open Out Restrictor

Door restrictors are designed to provide adjustable limitation to the door movement and allow an opening aperture of maximum 90°.

Features and Specifications:
- Tested to 100,000 cycles
- Corrosion resistance Grade 4 in accordance with BS EN1670:1998

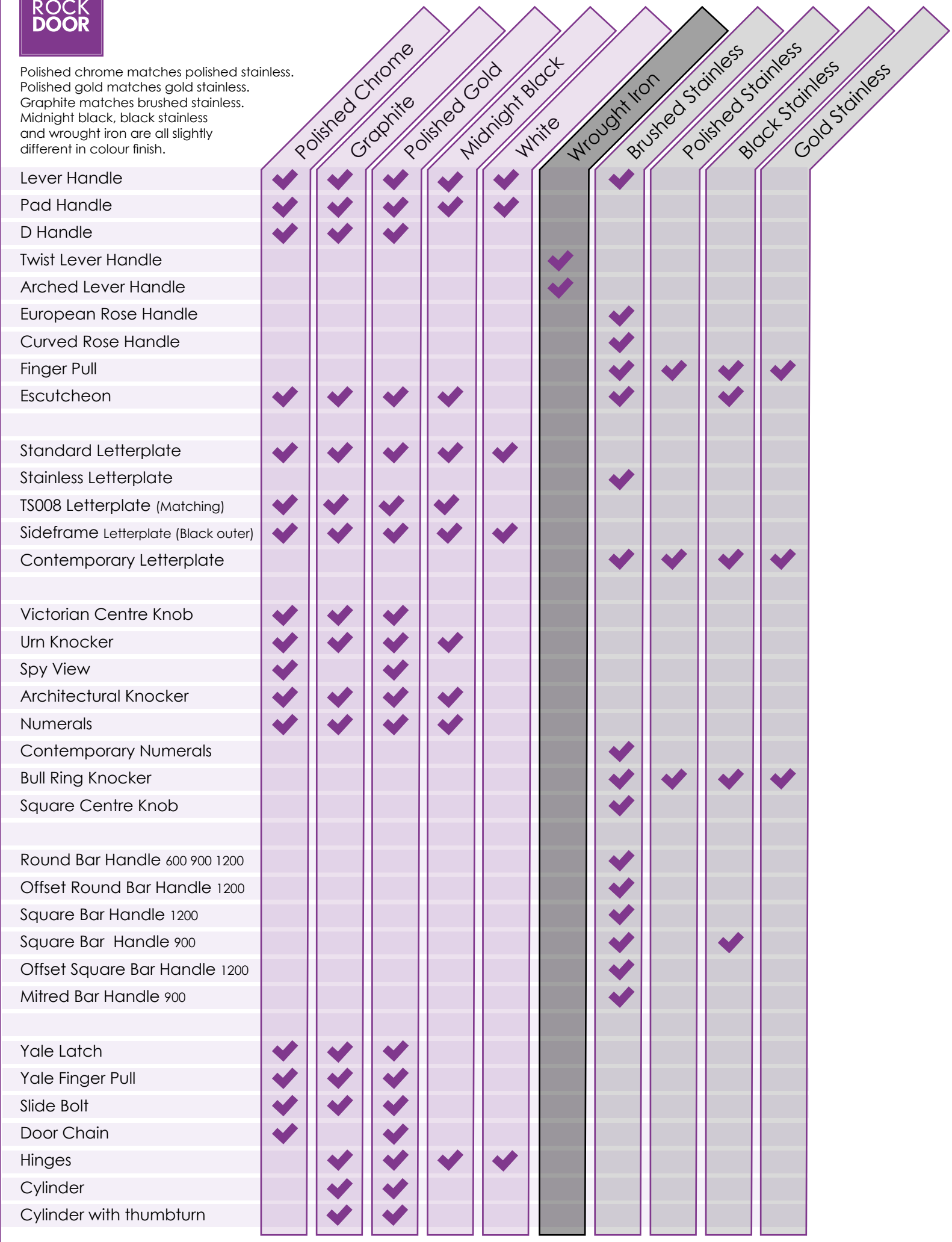




Installed 100mm in from the corner of the frame on the hinge side.

Furniture Colour Options

Polished chrome matches polished stainless.
Polished gold matches gold stainless.
Graphite matches brushed stainless.
Midnight black, black stainless
and wrought iron are all slightly
different in colour finish.



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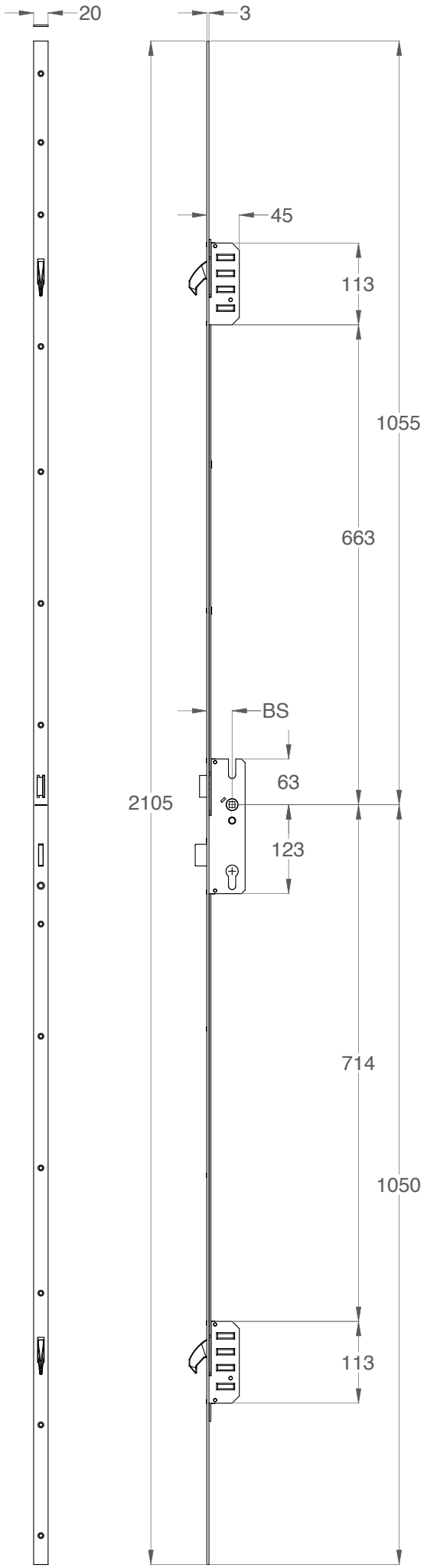
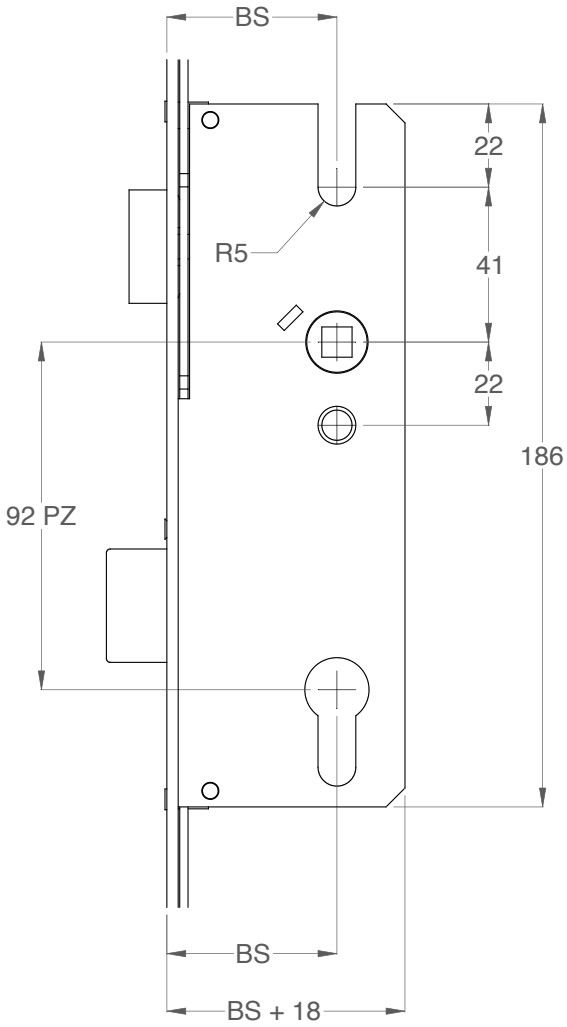
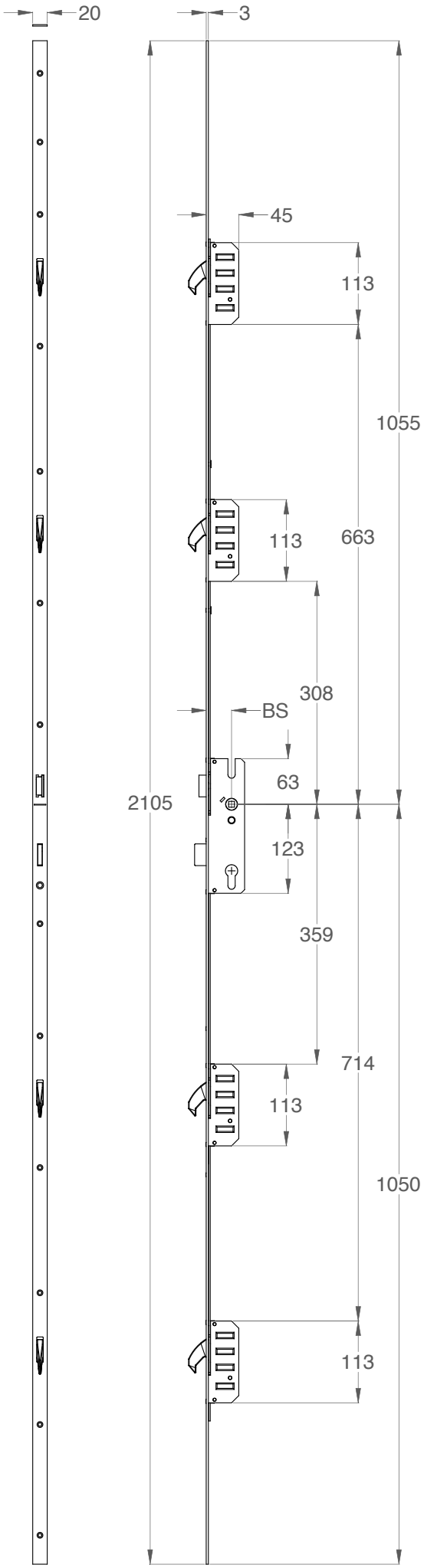


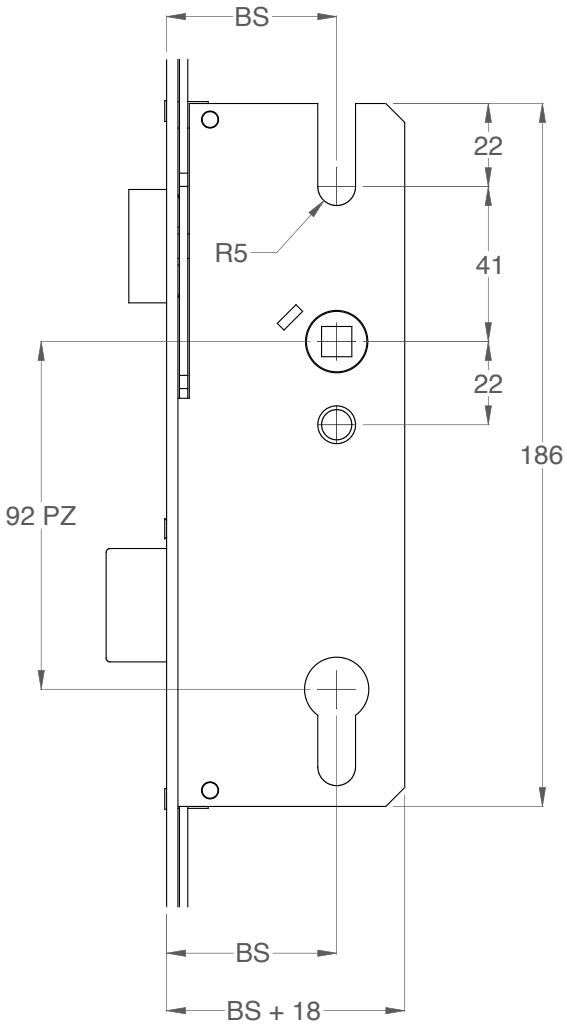


Drawing Description:

Dimensional Details Of Winkhaus' Standard STV Two Hook Residential Multi-point Door-lock System on a F20 rail.

STV-FG 2060 M4

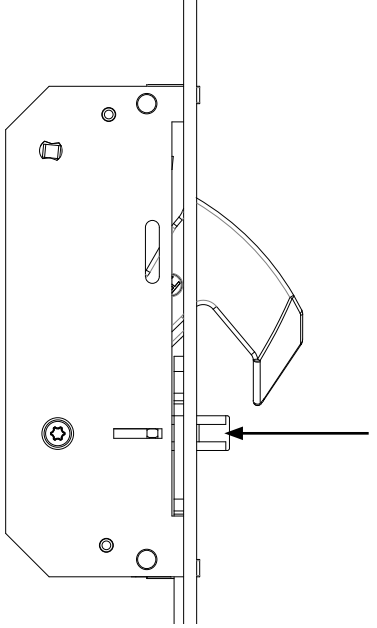




Drawing Description:

Dimensional Details Of Winkhaus' Standard STV Four Hook Residential Multi-point Door-lock System on a F20 rail.

Index pages 2-3



When the door closes this pin is pushed back which throws the hooks out instantly securing the door from the outside.

AV2 with Lever/ Fixed D Handle

Locking from the inside

- Closing the door automatically throws the top and bottom hooks making the door instantly weathered and secure from the outside.
- The handle can still be operated from the inside for instant exit.
- Insert the key and rotate one revolution to deadlock the door. This throws the central deadbolt and blocks the handle from operating. The door is now fully weathered and secure.

Unlocking from the inside

- Insert the key and rotate one revolution. This retracts the central deadbolt and allows the handle to be operated. The door remains weathered and secure from the outside.
- Depress the handle to retract the top and bottom hooks and open the door.

Locking from the outside

- Closing the door automatically throws the top and bottom hooks making the door instantly weathered and secure.
- Insert the key and rotate one revolution to deadlock the door. This throws the central deadbolt and blocks the internal handle from operating. The door is now fully weathered and secure.

Unlocking from the outside

- Insert the key and rotate one revolution. This retracts the deadbolt.
- Turn the key a further 45 degrees to retract the top and bottom hooks and open the door.

Instant Lock Heritage Plus

Cylinder height centre is 1395mm from the bottom of the door sash.

The lock mechanism has 2 hooks, a central latch and a high-level cylinder position.

This is fitted with either a finger pull, or an escutcheon and a thumbturn internally.

The magnetic triggering of the automatic locking reduces stress marks on the door frame and dampens the closing noise of the automatic locking system.

The magnetic trigger and hook design also improves the reliability of the product, as it can work with slightly larger tolerances which can accommodate any slight door/frame movement over time.

Instant Locking

The Heritage plus system is an instant multi-point locking system with independently acting hooks.

The action of closing the door fully secures the door. There is no further action needed to lock the door.

To open the door the hooks and latch are retracted manually using a key or thumbturn, you are only required to turn a quarter of a turn.

Magnetic Switch Latch. (Different to standard switch latch)

UP position

When the switch latch is in the **UP** position, the door instantly locks upon closing. A key is required to regain entry to the property. The door can be opened internally with the thumbturn.

DOWN position

When the Switch Latch is in the **DOWN** position, no key is required allowing you to regain entry to the property and the door can open or close freely.

The door cannot be locked with a key or thumb-turn when the switch latch is in the down position. To lock the door move the switch latch into the up position and then close the door to lock.

The Heritage lock is a Slam Shut lock, so it is important this door is installed to exacting specifications.

To ensure the lock functions as required, the following must be met.

HEAD GAP

The head gap should be 4mm and parallel the full width of the door.
Tolerance +/- 0.5mm

LOCK SIDE GAP

The lock side gap should be 4mm and parallel the full height of the door.
Tolerance +/- 0.5mm

VIEWING GAP

The viewing gap should be parallel the full height of the door.
Tolerance +/- 0.5mm

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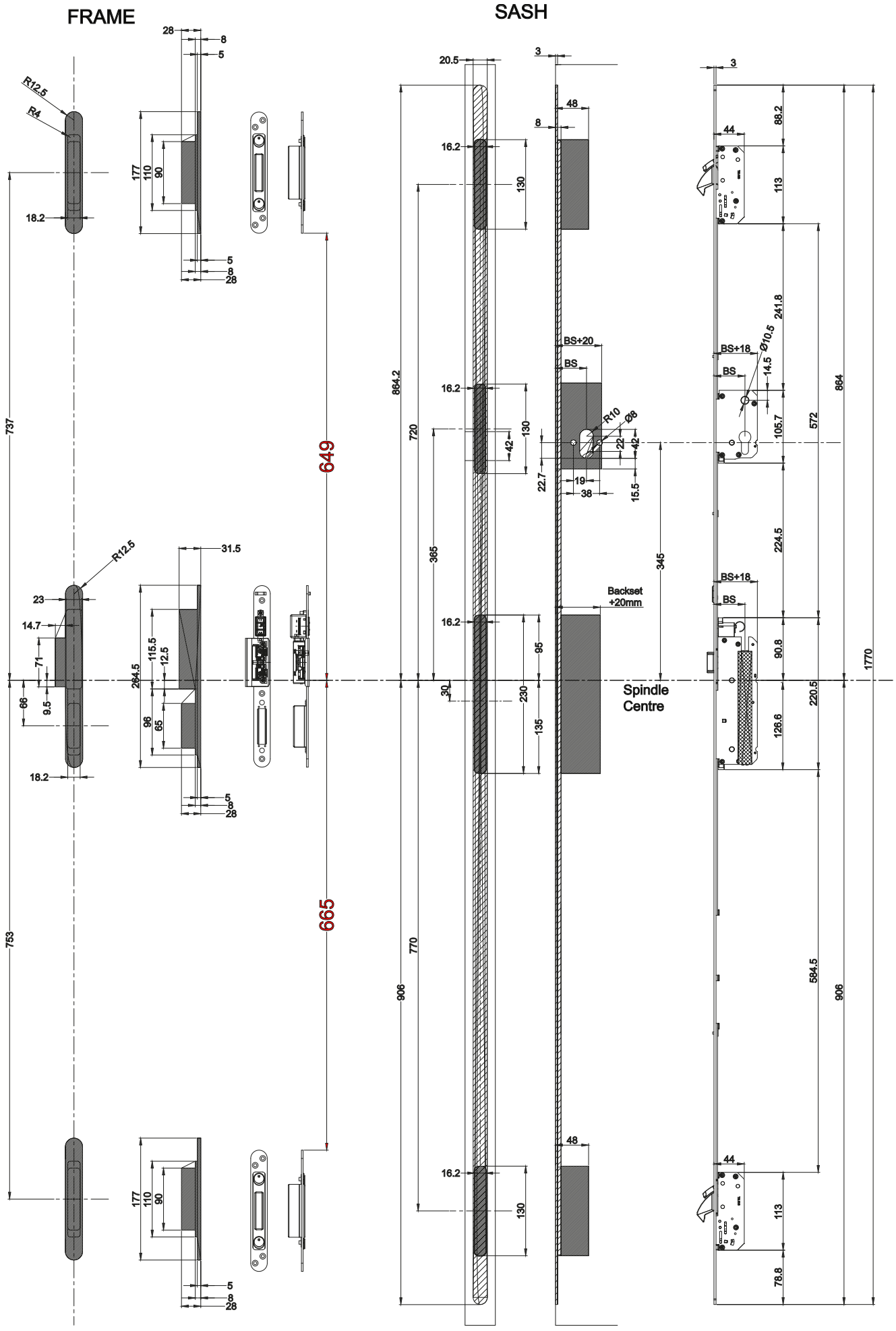
Routering details for Instant Lock Heritage plus



Up Position

When the Switch Latch is in the **UP** position a key is required to gain entry to the property. Don't get caught out and **lock yourself out.**

For total security, the key or thumbturn still needs fully engaging to ensure the hook locks are secured in place.

Down Position

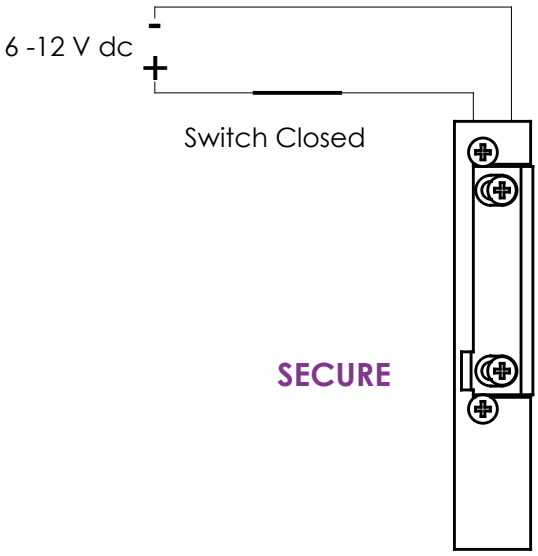
When the Switch Latch is in the **DOWN** position no key is required allowing you to gain entry to the property and the door can **open or close freely.**

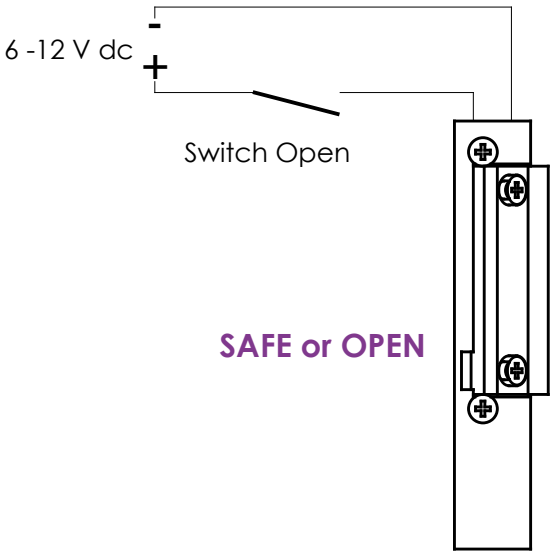
For total security, the key or thumbturn still needs fully engaging to ensure the hook locks are secured in place.

Unlike the magnetic switch latch fitted to the Heritage Plus lock the door can be locked in the down position.

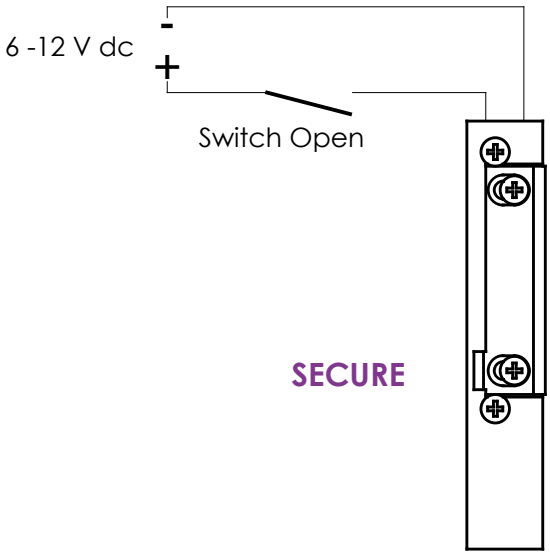
Index pages 2-3

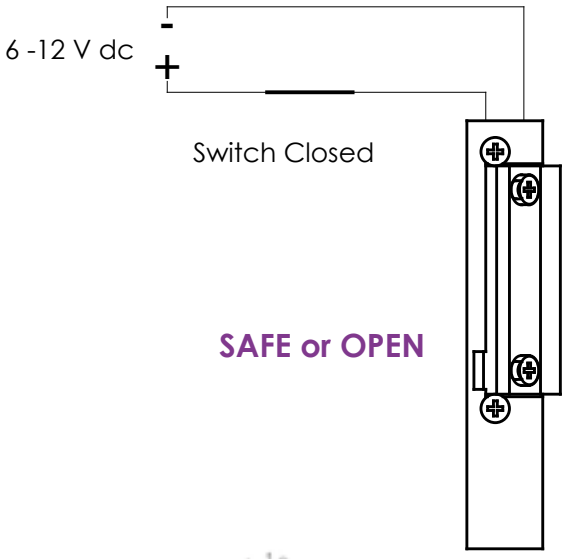
Fail **SAFE** Electric Latch Release (no power)





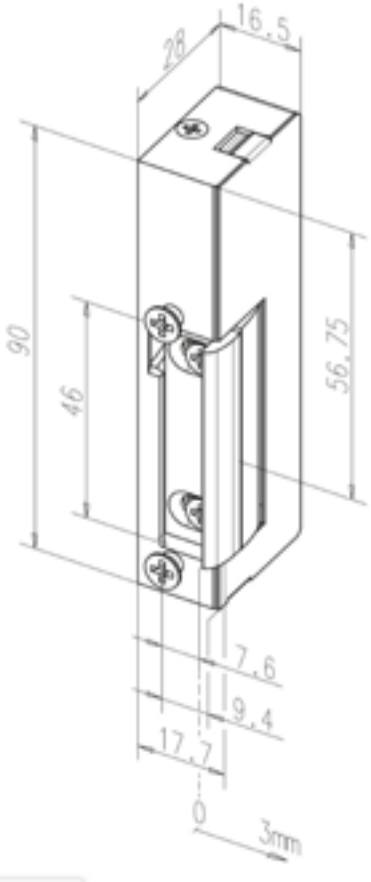
Fail **SECURE** Electric Latch Release (no power)



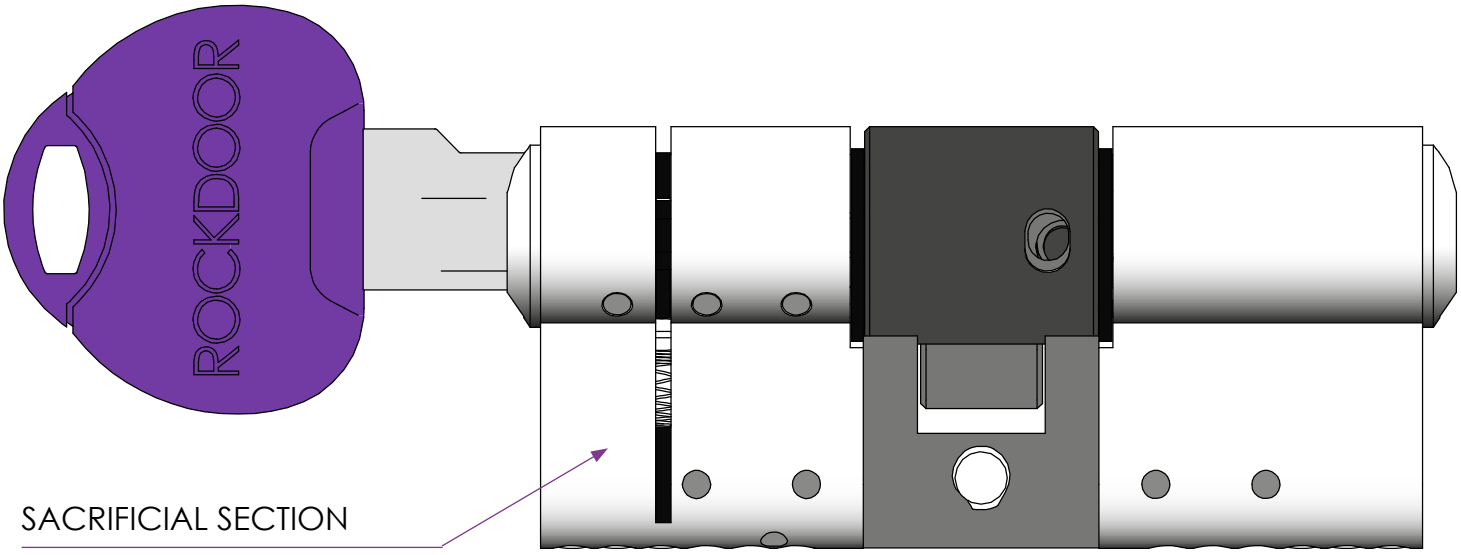


Technical Details (for Both Options)

Handing	Universal
potential	12 V DC
Adjustable latch (FF, FaFix®)	Yes
Fail-unlocked	Yes
Rated operating voltage tolerance range	± 1 V
Rated resistance	60 Ohm
Current consumption DC (50% Residual ripple)	225 mA
Current consumption DC (stabilised)	200 mA
Break-in resistance	3000 N
Height	90 mm
Width	16 mm
Operating temperature range	-15 °C to +40 °C
Max. keeper pre-load DC (50% residual ripple)	10 N
Max. latch preload DC (stabilised)	10 N
Depth	28 mm
Material housing	Zinc die-cast
Latch material	Zinc die-cast
Material surface-mounted attachment	MESSING



3 Star Cylinder



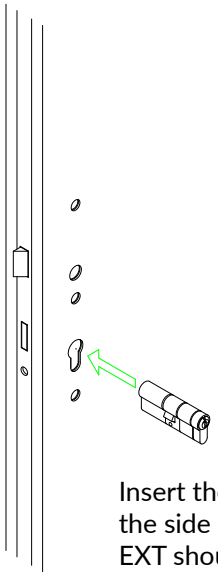
The cylinder must be installed with the sacrificial section to the external of the property.

FEATURES:

SS312 Sold Secure Diamond Grade
3 Star British Kitemark - TS007:2014 (KM 586153)
Secured by Design Accredited (Police preferred specification)
Patented Snap Secure Technology
Pick, Drill & Bump Resistant
6 Trap Pins for advance pick resistance
10 Anti-drill pins
Three Rockdoor branded keys per cylinder
Keyed alike key/key pairs are available ex stock
Size 40mm/40mm

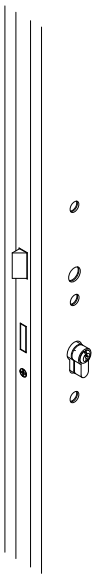
The key must be removed from the cylinder for the full security features to be enabled.

1



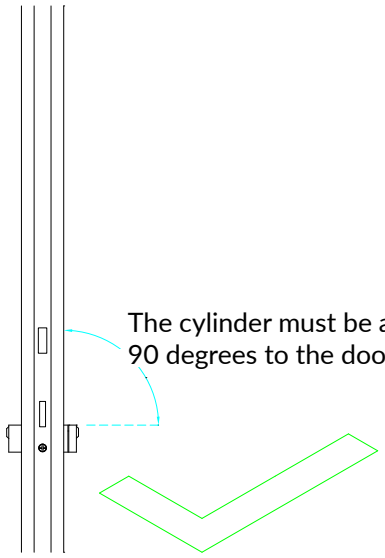
Insert the cylinder the side marked with EXT should be to the external face.

2

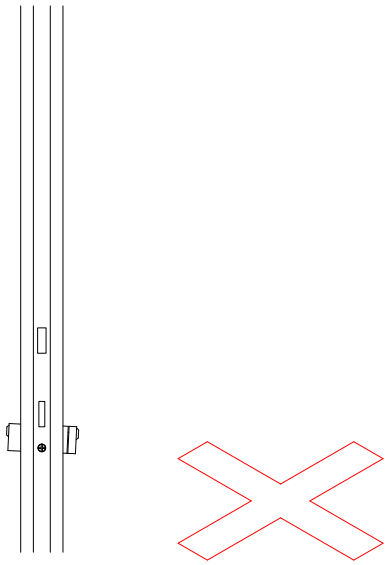


Insert fixing screw. The cylinder should be loose enough to ensure easy fitment of the handle.

3

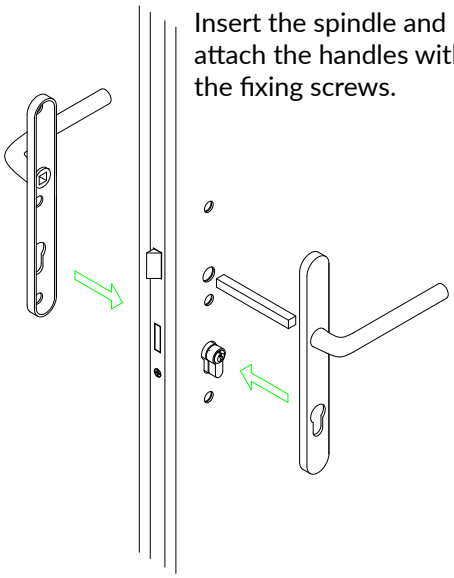


The cylinder must be at 90 degrees to the door.

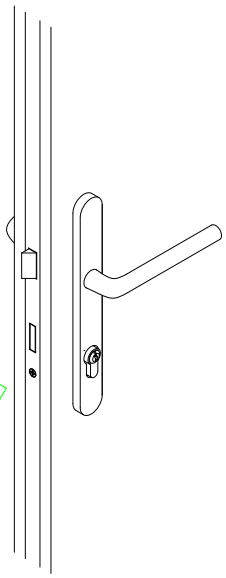


4

Insert the spindle and attach the handles with the fixing screws.



5



Nip tight the cylinder fixing screw with a hand screwdriver. Check the lock works correctly.

Emergency Exit Door

Rockdoors emergency exit door is customised with a hardware solution that allows the door to be opened quickly and easily in a 'panic' situation. This includes typical emergency exits used in public places such as shopping centres, schools, cinemas and commercial use buildings.

External Operation

Lock: To lock the door from the outside, the key provided must be used to wind out the bolts into position. If the door is locked from the inside the external handle will not open the door.

Unlock: To open the door from the outside, use a key to unwind the bolts and then open the door using the external lever handle.

Internal Operation

Lock: To lock the door from the inside, use the thumbturn to wind out the bolts.

Unlock: To open the door from the inside, push firmly down on the push bar which will instantly retract the locks and allow the door to open freely. This will open the door regardless of whether the door has been left in the locked or unlocked position.

High Security, Quick Escape

Our emergency exit door ensures buildings can remain extremely secure, whilst providing a quick and safe method of exit to members of the public.

When to use Emergency Exit Doors

In accordance with EN1125, Rockdoor emergency exit doors should be used as a single door set that members of the public will have access to. The high concentration of people makes 'panic' situations more likely in public buildings. The occupants will not necessarily be familiar with the locations of the emergency exits, or how to open them. They therefore need to be able to open the doors intuitively using the horizontal push bar.

Rockdoor emergency exit doors, in accordance with EN 1125, are always outward-opening doors. All emergency exit doors must bear the CE mark.

Door Specification:

1. Door styles
All door styles except stable doors and double doors.

2. Glazing
P1A compliant glass (6.8mm Laminated)

3. Outer frame
72mm Rehau Outer frame or 52mm Rehau Outer frame

4. Reinforcing
Security Mesh

5. Handle
Standard lever/lever handle or Bar Handle

6. Hinges
Standard 3D Rockdoor hinge

7. Lock
Winkhaus 2 hook lock

8. Cylinder
Standard Rockdoor 3 star cylinder

9. Keeps
Standard Rockdoor full length keeps

10. Threshold
Aluminium low threshold

11. Letterplate
Must be TS008 compliant

Methods of test.

1. Operating Forces

The operating forces acting on the sample were determined by the methods given in BS EN 12046-2:2000.

2. Air Permeability

The air permeability of the sample was determined by the method given in BS 6375-1:2015.

3. Watertightness

The watertightness of the sample was determined by the method given in BS 6375-1:2015.

4. Wind Resistance

The wind resistance of the samples was determined by the methods (P1 and P2) given in BS 6375-1:2015.

5. Repeat Tests

After testing for resistance to wind loading (P1 and P2) the air permeability test was repeated.

6. Wind Resistance

The wind resistance of the samples was determined by the method (P3) given in BS 6375-1:2015.

7. Resistance to Vertical Loads

The resistance to vertical loads test was carried out using the method given in BS EN 947:1999.

8. Resistance to Static Torsion

The resistance to static torsion test was carried out using the method given in BS EN 948:1999.

9. Soft and Heavy Body Impact

The resistance to soft and heavy body impact was carried out using the method given in BS EN 949:1999.

10. Hard Body Impact

The resistance to hard body impact was carried out using the method given in BS EN 950:1999.

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Secured by Design (SBD) is the official police security initiative that works to improve the security of buildings and their immediate surroundings to provide safe places to live.

For Rockdoor to meet the specification they should be fitted with:

1 P1A Compliant glass (6.8mm laminated)

2 Security mesh.

3 Letterplates must conform to requirements of TS008.

ROCK DOOR

For solid door styles with no glass, please refer to the Clear Backing glass section for the doors energy rating

Door Style	CLEAR BACKING GLASS				OBSCURE BACKING GLASS			
	72mm threshold	52mm threshold	Ali threshold open out	Ali threshold open in	72mm threshold	52mm threshold	Ali threshold open out	Ali threshold open in
Aspen	A	A	A	A	A	A	A	A
Astoria	A	A	A	A	A	A	A	A
Arcacia	A	A	A	A	A	A	A	A
Campus	A	A	A	A	A	A	A	A
Carolina	A	A	A	A	A	A	A	A
Classic	B	B	B	B	B	B	B	B
Colonial	A	A	A	A				
Cottage spy view	A	A	A	A	A	A	A	A
Cottage view light	A	A	A	A	A	A	A	A
Dakota	A	A	A	A				
Diamond	A	A	A	A	A	A	A	A
Dune Retreat	A	A	A	A	A	A	A	A
Dune Vision	B	B	B	B	B	B	B	B
English cottage	A	A	A	A	A	A	A	A
Georgia	B	B	B	B	B	B	B	B
Hudson	A	A	A	A	A	A	A	A
Illinois	B	B	B	B	B	B	B	B
Indiana	A	A	A	A				
Jacobean	B	B	B	B	B	B	B	B
Kentucky	B	B	B	B	B	B	B	B
Manhattan	A	A	A	A	A	A	A	A
Montana	A	A	A	A	A	A	A	A
Newark	A	A	A	A	A	A	A	A
Portland	B	B	B	B	B	B	B	B
Philadelphia	A	A	A	A	A	A	A	A
Regency	A	A	A	A	A	A	A	A
Stable diamond view	B	B	B	B	B	B	B	B
Stable spy view	B	B	B	B	B	B	B	B
Stable view light	B	B	B	B	B	B	B	B
Tennessee	B	B	B	B	B	B	B	B
Tongue and groove 5	A	A	A	A	A	A	A	A
Vermont	A	A	A	A	A	A	A	A
Virginia	B	B	B	B	B	B	B	B
Vogue	B	B	B	B	B	B	B	B
Warwick	A	A	A	A	A	A	A	A
Windsor	B	B	B	B	B	B	B	B

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WHAT CREATES CONDENSATION?

Water vapour content in the air

This is produced by normal living activities such as washing, cooking, bathing, etc., and can be controlled using extractor fans, cowlings, and ventilation at appropriate places.

Inside room temperature

This can be controlled to some extent, thereby maintaining a higher surface temperature of items in the room, and by increasing the air temperature to enable it to hold more water vapour without condensing.

Coldest surface in the home

Modern aids to home comfort have created rooms which are warmer, but which often have less ventilation and fewer air changes. The result is that the water vapour produced by normal living activities, is no longer able to escape up the chimney or through door jambs, window joints and other outlets.

In certain circumstances, all these aids to comfort combine to create ideal conditions for the formation of condensation, which could form on the coldest surfaces within the home.

What is the coldest part of a Rockdoor.

Thermally efficient PVC-U skins, a 50mm thick sash, S-Glaze, performance gaskets, Multi chamber PVC-U door frame and high-density polyurethane foam work together to achieve industry leading thermal performance ratings.

However, there are areas on a Rockdoor that when the outside temperatures are low can be colder than other areas, especially if the internal temperatures are also low.

These areas are the locking cylinder, the hinges, Aluminium thresholds, and the area where the aluminium reinforcement is inside the door (around the perimeter).

If the conditions for condensation are present, it can start to appear on the above parts of the door.

Examples of where water vapour comes from

Breathing: Two sleeping adults produce approximately 1 litre of moisture in 8 hours, which is absorbed as water vapour into the atmosphere.

Cooking: Steam clouds can be seen near saucepans and kettles, and then seem to disappear. The clouds have been absorbed into the atmosphere. The heat source itself may be a source of water vapour, e.g. an average gas cooker could produce approximately 1 litre of moisture per hour.

Washing up: Vapour clouds given off by hot water are rapidly absorbed into the atmosphere. Bathing, laundry, and wet outer clothing: these are often major sources of water vapour in the home.

Heaters: A flueless gas heater can produce up to 350cc of moisture per hour. Paraffin heaters produce 4 litres of moisture for every 3.5 litres of fuel burned.

Indoor plants: A frequently unrecognised but nevertheless significant source of water vapour.

New property/building work: The bricks, timber, concrete, and other materials in an average 3-bedroomed house absorb about 7,000 litres of water during construction. Much of this is dissipated into the indoor atmosphere during the drying out period.

How do you reduce the condensation in the home?

- It is important to remove excess moisture by ventilating rooms.
- A room can be ventilated without making draughts or causing it to become cold. One way to do this is to open the window slightly or use the trickle vent if fitted.
- By opening windows or ventilating your home it may appear that you are losing some heat, but what you are doing is allowing warm moisture laden air to escape and permitting cool dry air to enter your home. Dry cool air is cheaper to heat than warm moist air.
- Provide natural ventilation through an opening section of the window, through a proprietary ventilating unit, or through an airbrick. Check that trickle vents are in the open position.
- Where there is no open fire, or where existing flues have been blocked off (and cannot be unblocked), ensure that wall vents are fitted and kept clear.
- Open at least one window in each room for some part of the day to permit a change of air. Ensure permanent ventilation of all rooms where gas and oil heaters are used. NOTE: This is a statutory requirement which will be monitored by the heating engineer.

- Fix hoods over cookers and other equipment producing steam and ventilate them to the outside air.
- Ensure that bathrooms and kitchens are ventilated in accordance with National Standards.
- Draught proof internal doors and keep them closed, to prevent transfer of air with high water vapour content from the main moisture producing rooms –kitchens, bathrooms, and drying rooms. It should be borne in mind that water vapour does not remain in the room where it is first generated but tends to migrate to other parts of the home generally where the rooms are colder.
- Increase slightly the air temperature within the room where the condensation occurs.
- In cold weather, keep some form of heating on permanently in the room where the condensation occurs.
- In winter months to help with atmospheric moisture control the introduction of a dehumidifier will help maintain a healthy living space and help reduce the chances of condensation forming on cooler surfaces.

Summary

Whilst we pride ourselves on creating a thermally efficient industry leading door, it is important we raise awareness to customers on the issues experienced by all window and door manufacturers. The nature of modern-day living has created cosy warm homes where moist damp air is stored, but it is this damp air that manifests itself as condensation unless the air is dealt with and removed from the property. This issue is highlighted by the government's building regulations that now stipulate the use of trickle vents on all newly installed windows, both in new build house and replacement windows.

ROCKDOOR ORDER FORM

Please complete all the sections or go to **www.gap.uk.com** and order online.

For Office Use Only

SURVEY DETAILS (VIEWED OUTSIDE)

Overall **Width** (inc add ons) .....

Overall **Height** (inc add ons & Cill) .....

Opens In ☐ Out ☐ ◀ Outer frames are not available in all colours for open out doors. Please refer to technical manual on our website.

Hinged Left ☐ Right ☐ Double Doors ☐ ◀ For French Doors please use alternative order form.

Cill None ☐ Dummy ☐ 95 ☐ 150 ☐ 180 ☐ 85 TIE BAR ☐ 114 TIE BAR ☐

Aluminium Threshold ☐ ◀ The base section matches the colour of the furniture. With black furniture it with be silver.

Slim PVC 52 Threshold ☐ ◀

Large PVC 72 Threshold ☐ ◀ Drip bar as standard will match the door colour.

Drip Rail Match to furniture ☐ Match to door ☐

Frame add ons 15mm ☐ Position .....

2 x 15mm ☐ Position .....

45mm ☐ Position .....

YOUR DETAILS

Company Name .....

Account No .....

Contact .....

Phone .....

Fax or E-mail .....

Reference No .....

Order No .....

Order Date ...../...../..... Date Req...../...../.....

Site Address .....

.....

.....

Number of Attached Sheets

ROCKDOOR DETAILS

Door Style ..... **Frame Size** 72mm (standard) ☐ 52mm (slim) ☐

	White	Onyx Black	Anthracite Grey	Smooth Anthracite Grey	Slate Grey	Agate Grey	Pebble Grey	Chartwell Green	Cream	Ruby Red	Emerald Green	Sapphire Blue	Rosewood	Light Oak	Irish Oak
Door External	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Door Internal	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Frame External	☐	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐	☐
Frame Internal	☐	☐	☐	☐	☐	☐			☐				☐	☐	☐

ROCKDOOR GLASS

Glass Design .....

Backing Glass .....

SIDE FRAME / FANLIGHT GLASS

Backing Glass .....

(Clear Low E & Argon Filled is Standard)

ROCKDOOR SECURITY

Lever lock	2 Hook (std) ☐	4 Hook ☐	Nightlatch ☐	
Key lock	2 Hook with escutcheon ☐	2 Hook with finger pull ☐		
Instant lock	Heritage plus with finger pull ☐	Heritage plus with escutcheon ☐	AV2 ☐	AV2E only available with fixed D handle ☐
Stable door lock	2 Hook ☐	*(Only option available with a stable door)*		
Spindle	Full Spindle ☐	Split Spindle *(only available with a standard handle/lock)* ☐	*(Split Spindle not available on a stable door)*	
Cylinder	Key/Key (std) ☐	Key / Thumbturn ☐		
Extra security	Mesh Reinforcing ☐	Security Chain ☐		

Secure By Design ☐ Includes laminated glass, security mesh and TS008 letter plate.

HANDLE

Lever Handle

Standard Lever/Lever ☐

Standard Lever/Pad ☐

Stainless Steel Lever ☐

Curved Rose Handle ☐

European Rose Handle ☐

Wrought Iron Arched lever ☐

Wrought Iron Twisted lever ☐

Stainless steel Bar Handle

Round 1200 ☐

Round 900 ☐

Round 600 ☐

Round Offsett 1200 ☐

Square 1200 ☐

Square Offsett 1200 ☐

Mitred 900 ☐

Black Square 900 ☐

LETTER PLATE

	Polished Gold	Polished Chrome	Midnight Black	Graphite	White	Stainless Steel
Standard	☐	☐	☐	☐	☐	
Contemporary	☐	☐	☐			☐
Stainless Steel						☐
TS008	☐	☐		☐		

Fitting position Midrail ☐ Bottom ☐ Loose ☐

NOTE:
The letter plate colour will determine **all** the main furniture colours.

If stainless steel is selected The furniture colour will be silver where stainless steel is not available.

FURNITURE

Main Furniture Colour Including standard handle only

Polished Gold	Polished Chrome	Graphite	Midnight Black	White
☐	☐	☐	☐	☐

Urn Knocker	Mullion ☐	Loose ☐	
Architectural Knocker	Mullion ☐	Loose ☐	
Spy Hole	Mullion ☐	Loose ☐	
Spy/Urn Knocker	Mullion ☐	Loose ☐	
Round Centre Knob	External ☐	External & internal ☐	
Numerals	Top ☐	Loose ☐	

Stainless Steel Furniture

Contemporary Knocker Stainless Steel	Mullion ☐	Loose ☐	
Square Centre Knob Stainless Steel	External ☐	External & internal ☐	
Bull Ring Knocker	Mullion ☐	Loose ☐	
Stainless Steel Numerals	Top ☐	Loose ☐	

Hinges The hinges match the furniture colour. Except stainless steel, graphite and polished chrome, which will be silver.

NOTE:
- We match the furniture colours as close as possible but due to materials they are not always identical.
- Cylinders are available is silver and gold.
- If there is no black furniture option available we will replace it with chrome.
- All centre knobs are supplied loose.

ARTWORK

Drawing is for illustration purposes only. Items such as hinge side, furniture position will be processed from the tick box selected.

Double doors ordered on this form will have a fixed slave door. For French Doors please request a French Door order form.

Specify door width if ordering sideframes

For sketching fan lights or side frames only.

Door Width .....

Side/Frame Width .....

Midrail/Transom Height .....

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To ensure the door functions as required, the following must be met.

Single door and Stable doors

HEAD GAP
The head gap should be 4mm and parallel the full width of the door.
Tolerance +/- 1mm

LOCK SIDE GAP
The lock side gap should be 4mm and parallel the full height of the door.
Tolerance +/- 1mm

VIEWING GAP
The viewing gap should be parallel the full height of the door.
Tolerance +/- 1mm

Heritage Plus and all doors with AV Locks fitted

HEAD GAP
The head gap should be 4mm and parallel the full width of the door.
Tolerance +/- 0.5mm

LOCK SIDE GAP
The lock side gap should be 4mm and parallel the full height of the door.
Tolerance +/- 0.5mm

VIEWING GAP
The viewing gap should be parallel the full height of the door.
Tolerance +/- 0.5mm

French doors and Double doors

HEAD GAP
The head gap should be 4mm and parallel the full width of the door.
Tolerance +/- 1mm

LOCK SIDE GAP
The lock side gap should be 4mm and parallel the full height of the door.
Tolerance +/- 1mm

VIEWING GAP
The viewing gap should be parallel the full height of the door.
Tolerance +/- 1mm

GAP BETWEEN THE DOORS
The gap should be 7mm.
Tolerance +/- 1mm

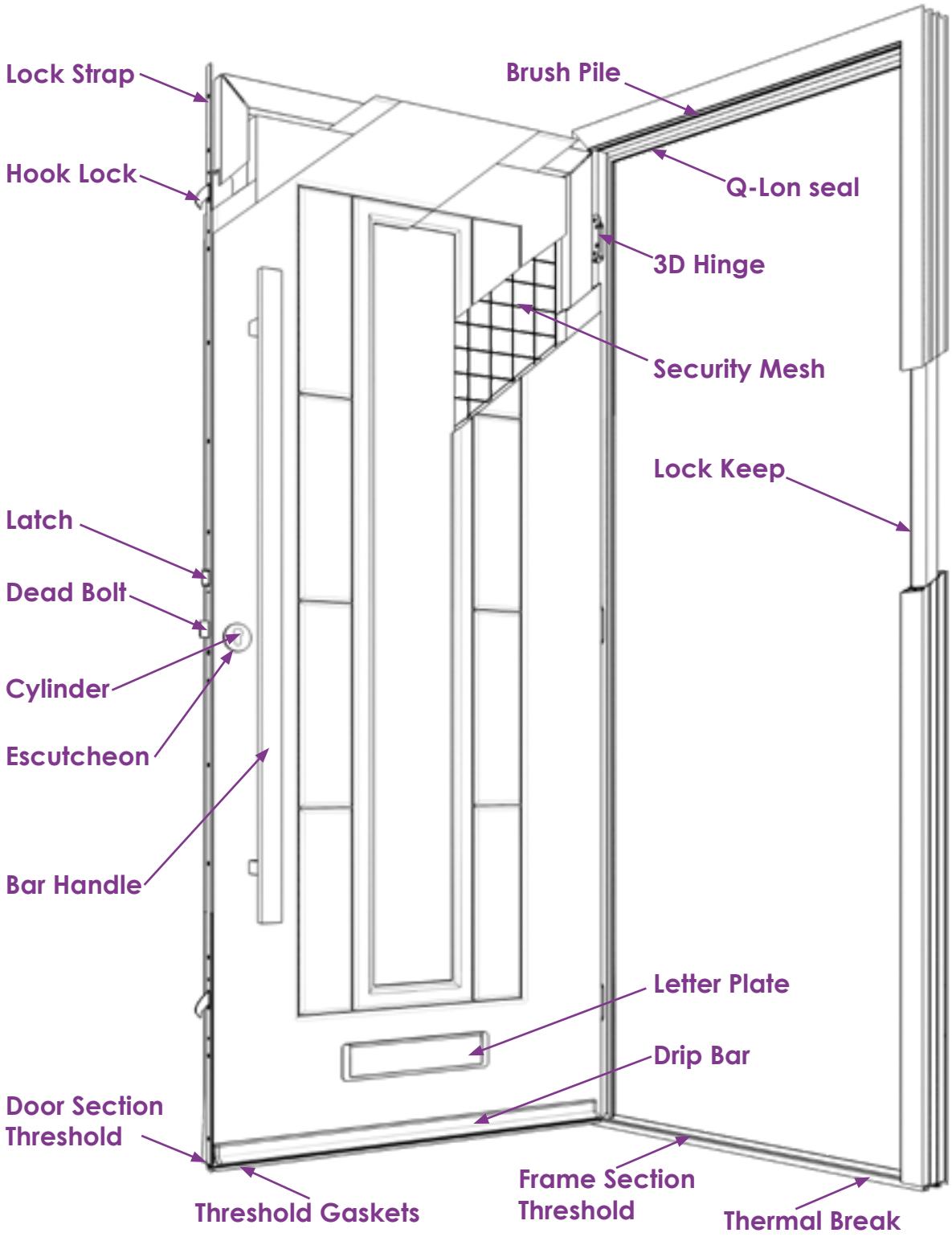
Rockdoor must be installed in-line with the five star installation guide.

Replacement Parts

To ensure you receive the correct replacement part, you firstly need to find the Rockdoor production number of the door that requires parts. This can be found on the hinge side of the inner frame and is a 6 or 7 digit reference number. Contact can then be made to GAP's customer service team (**customerservice@gap.uk.com**) who can help you.

Our team can then use our systems to find the correct part for the door and arrange for its delivery to the depot.

With lots of parts used to construct the door, it's useful to make sure we have the correct part, so please refer to the illustration below.



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ROCK DOOR®

The Original **Composite Door**.

Rockdoor must be installed in-line with the five star installation guide. ★★★★★