GRP DOORS

Technical Manual



REVISION 2.4



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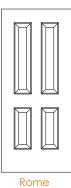
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- Slim PVC-U Threshold
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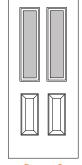
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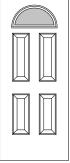




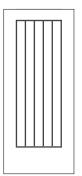
Click on the door style name for the dimensions.



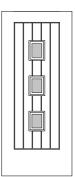




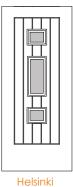
Cannes 1



Turin



Rotterdam



Rome 2

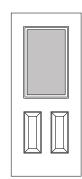
Cannes 3

Milan 912

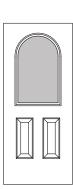
Rotterdam

Left or Right

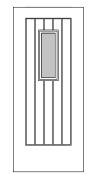
Oslo



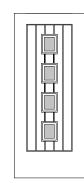
Tuscany



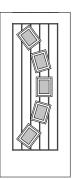
Madeira



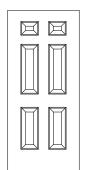
Milan 609



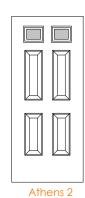
Amsterdam

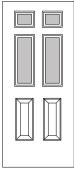


Porto Left or Right

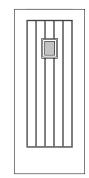


Athens

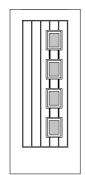




Athens 4



Milan 203



Amsterdam Left or Right



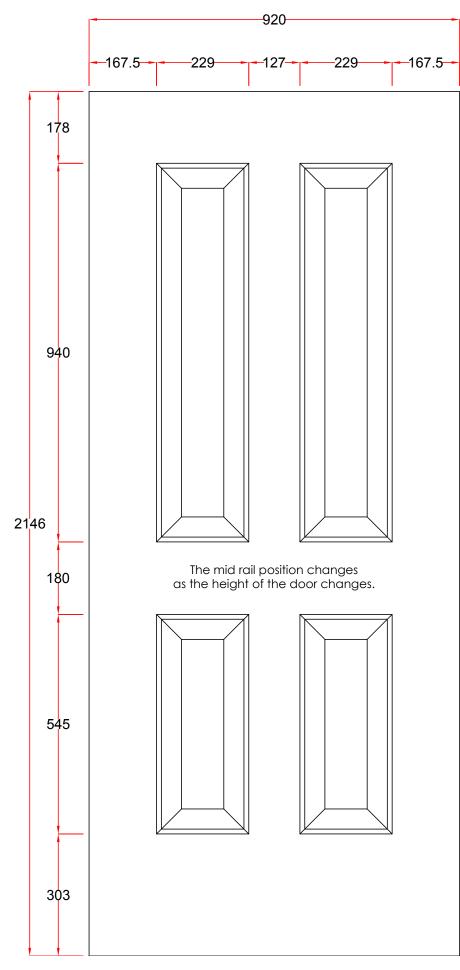
3



Rome

Door Blank Type : T4P

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm



Profile Dimensions:

72 Frame: 52mm+4mm air gap = 56mm 52 Threshold: 32mm+4mm air gap = 36mm Ali low threshold open IN = 12mm Ali low threshold open OUT = 12mm Cill = 30mm

Width

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

Height

72 Frame low threshold open IN Max = (Max sash height + 56mm + 15mm) Min = (Min sash height + 56mm + 15mm)

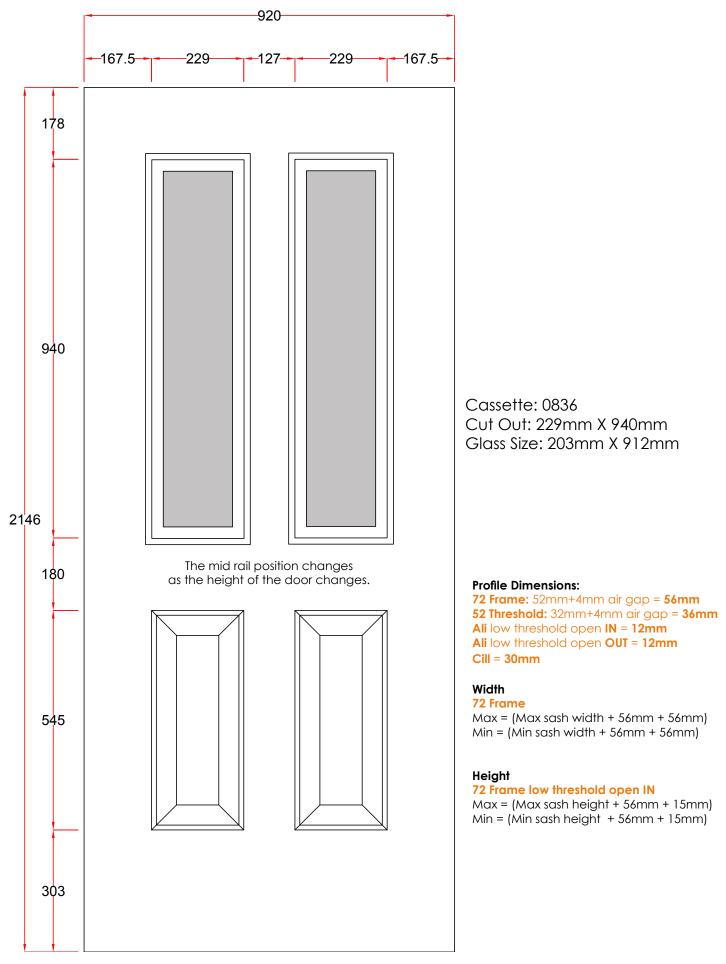




Rome 2

Door Blank Type : T4P

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm



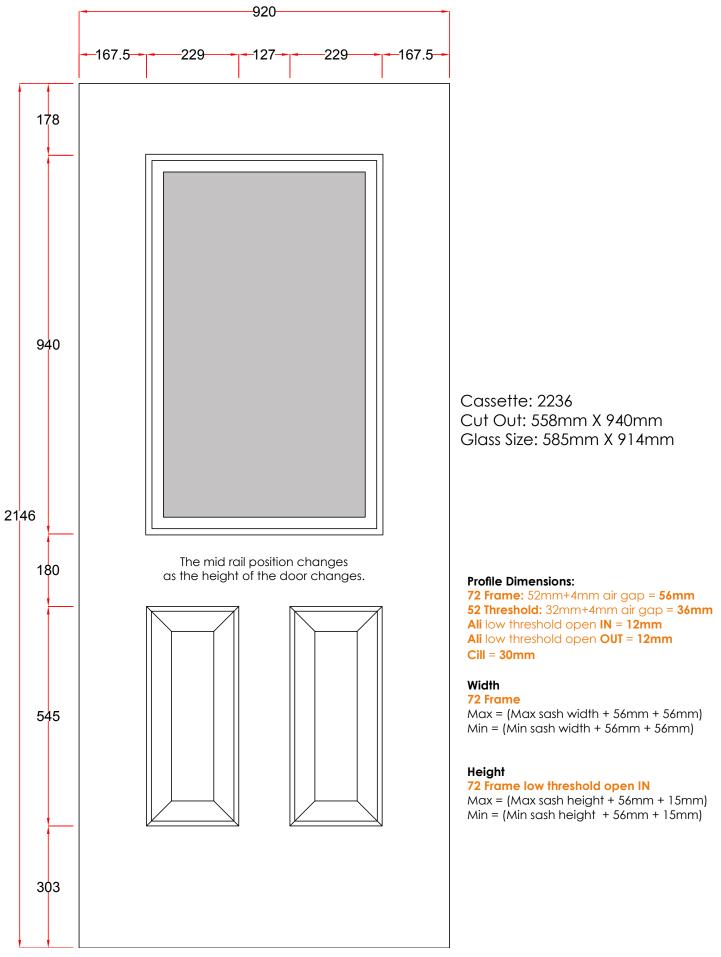


Tuscany

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Door Blank Type : T4P

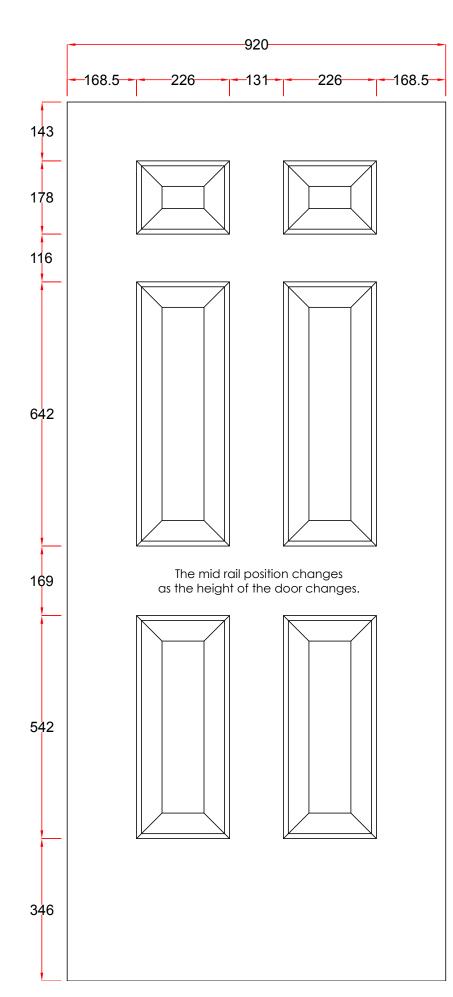
MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 745mm X 1866mm





Athens

Door Blank Type : 6P MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm



Profile Dimensions:

72 Frame: 52mm+4mm air gap = 56mm 52 Threshold: 32mm+4mm air gap = 36mm Ali low threshold open IN = 12mm Ali low threshold open OUT = 12mm Cill = 30mm

Width

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

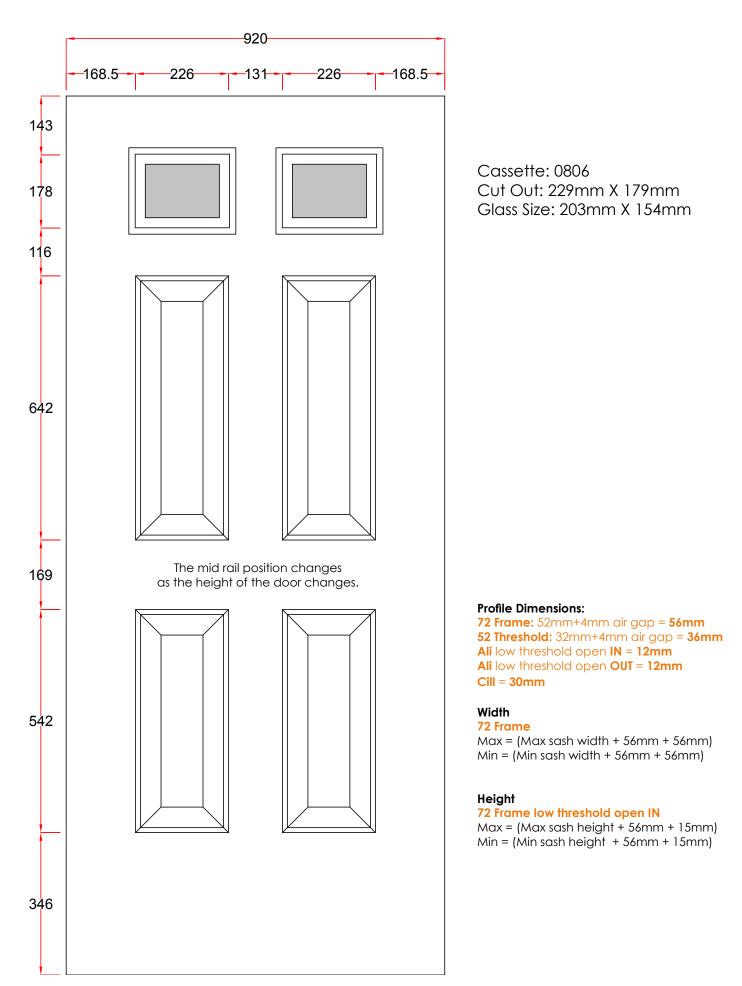
Height

72 Frame low threshold open IN Max = (Max sash height + 56mm + 15mm) Min = (Min sash height + 56mm + 15mm)



Athens 2

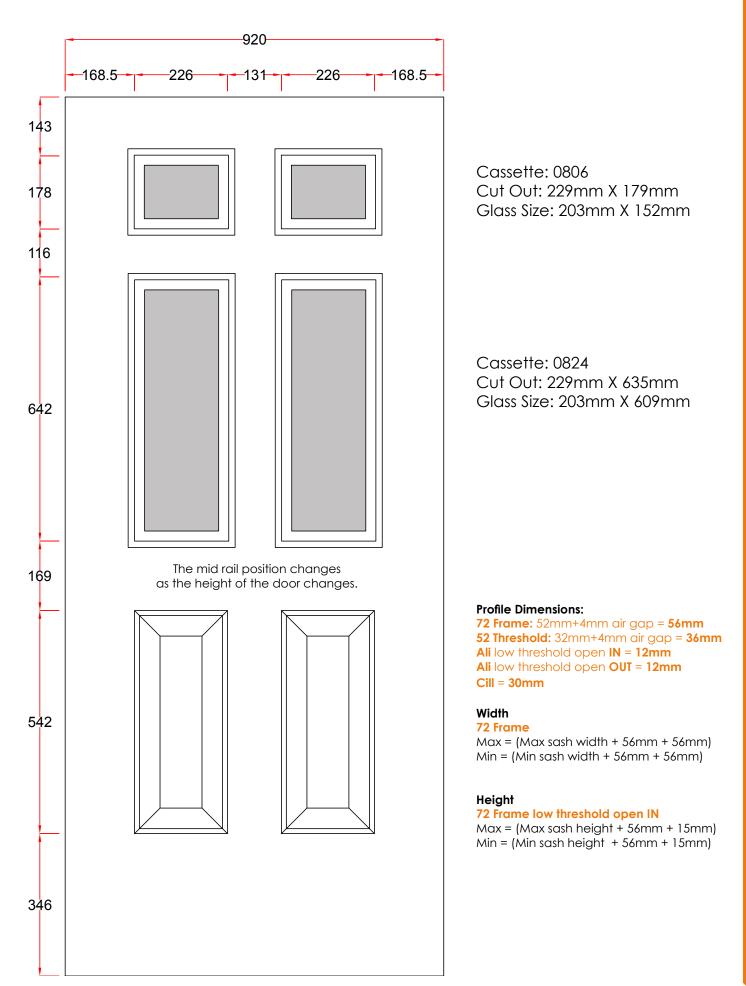
Door Blank Type : 6P MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm





Athens 4

Door Blank Type : 6P MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 745mm X 1866mm

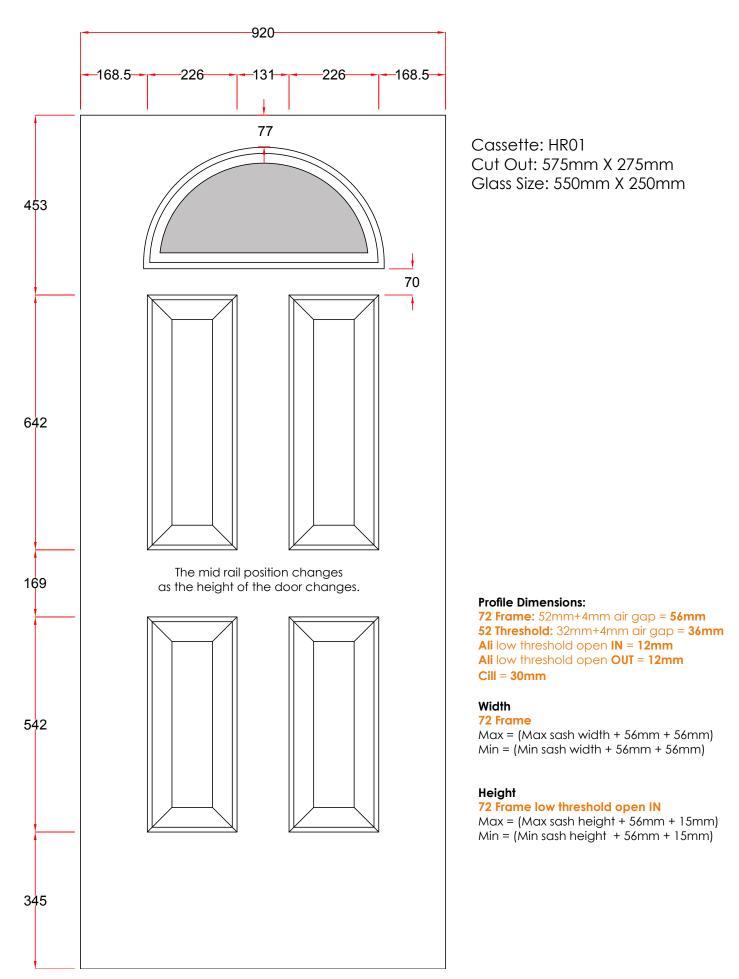




Cannes 1

Door Blank Type : 4Pbt

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm

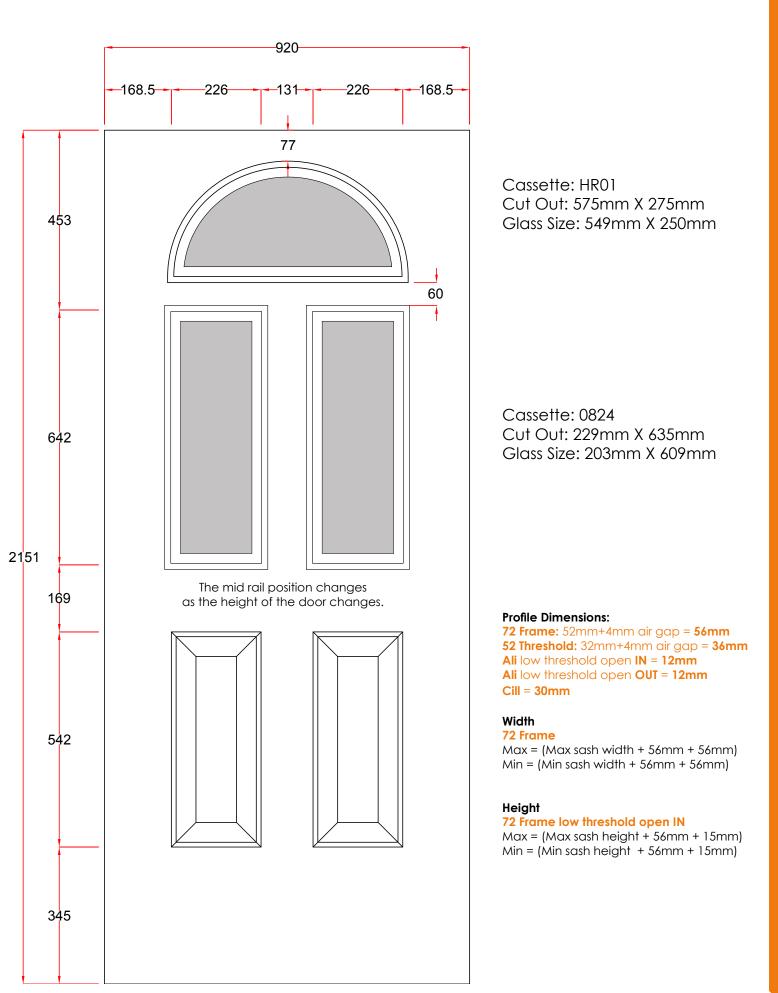




Cannes 3

Door Blank Type : 4Pbt

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 745mm X 1866mm

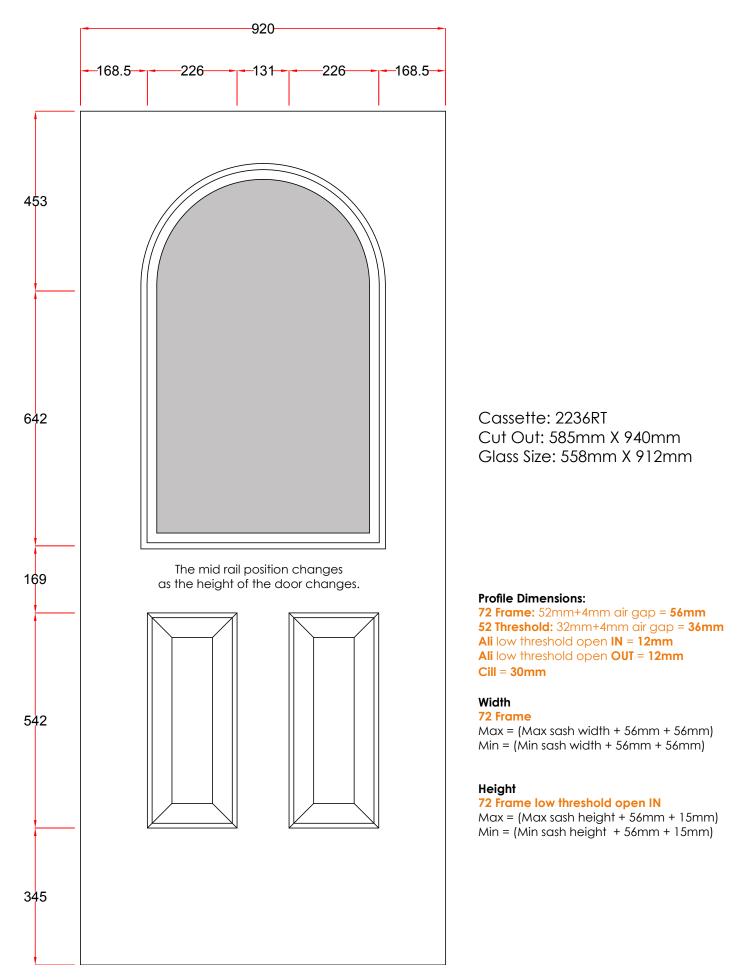




Madeira

Door Blank Type : 4Pbt

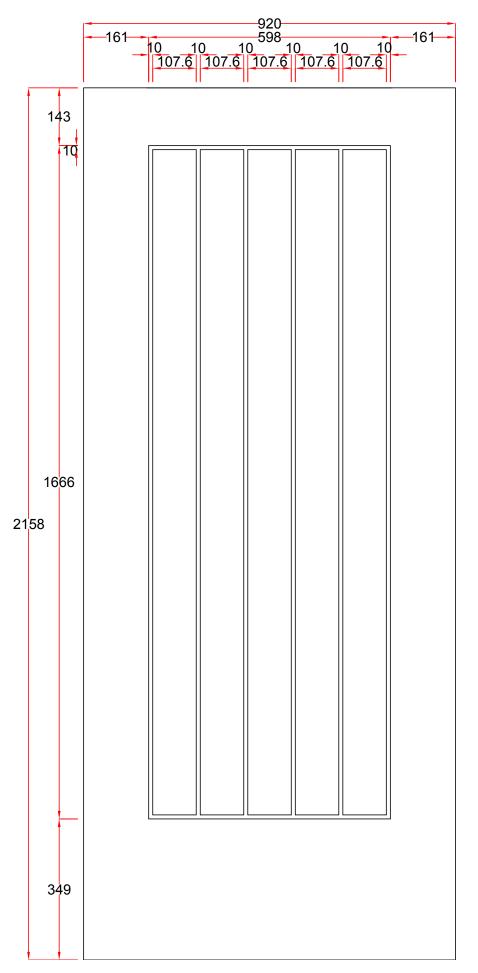
MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 745mm X 1866mm





Door Blank Type : PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm



Profile Dimensions:

72 Frame: 52mm+4mm air gap = 56mm 52 Threshold: 32mm+4mm air gap = 36mm Ali low threshold open IN = 12mm Ali low threshold open OUT = 12mm Cill = 30mm

Width

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

Height

72 Frame low threshold open IN Max = (Max sash height + 56mm + 15mm) Min = (Min sash height + 56mm + 15mm)

Turin

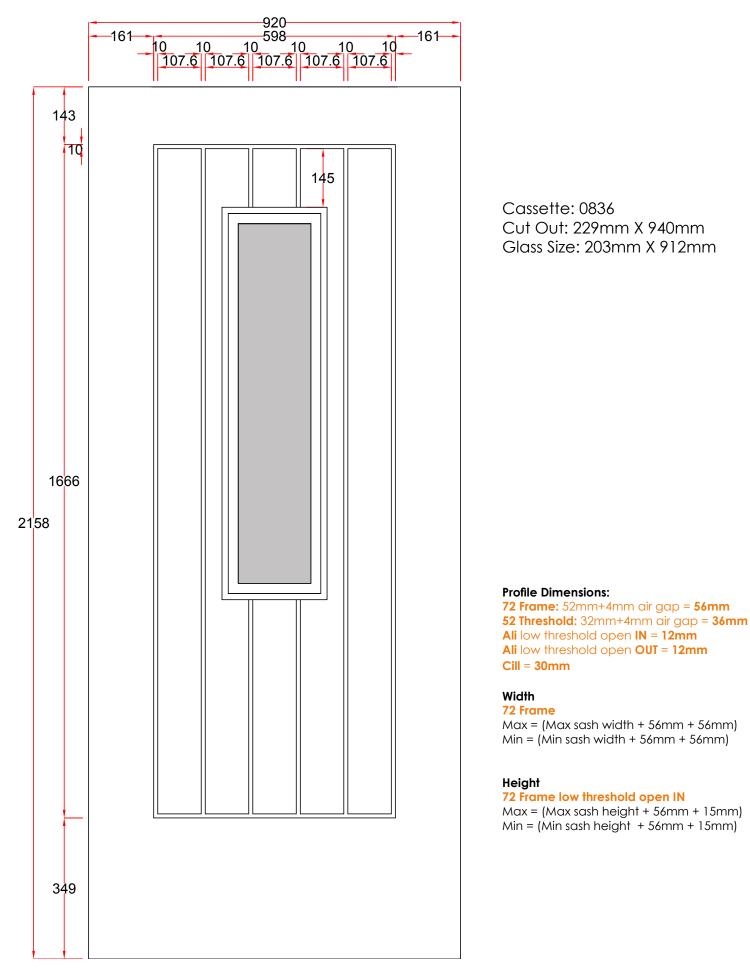




Milan 912

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm

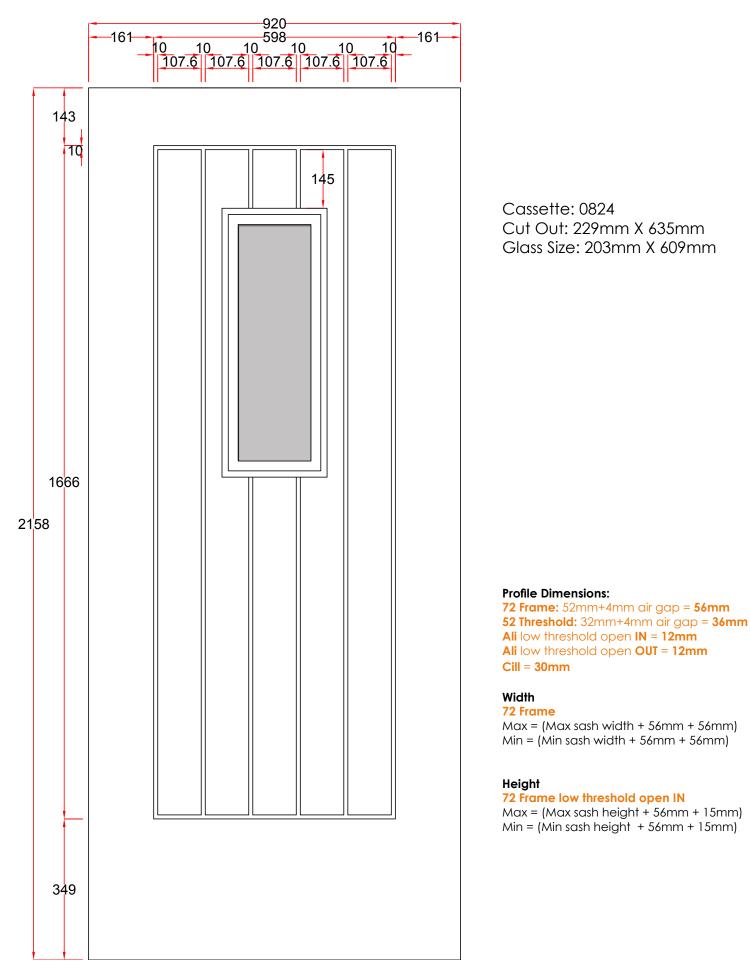




Milan 609

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm

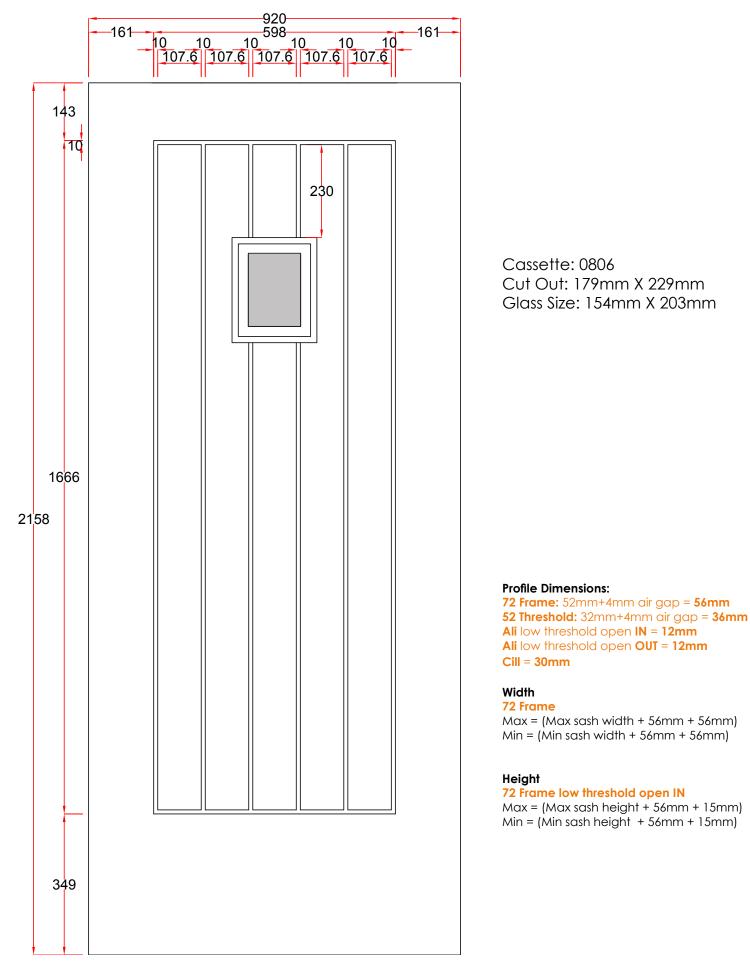




Milan 203

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm

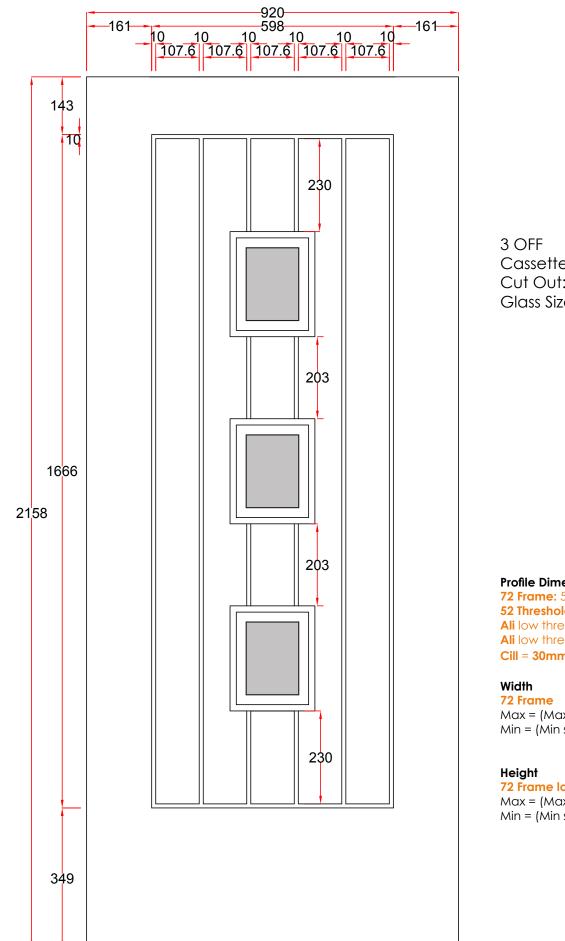




Rotterdam

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm



Cassette: 0806 Cut Out: 179mm X 229mm Glass Size: 154mm X 203mm

Profile Dimensions:

72 Frame: 52mm+4mm air gap = 56mm 52 Threshold: 32mm+4mm air gap = 36mm Ali low threshold open IN = 12mm Ali low threshold open OUT = 12mm Cill = 30mm

Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

72 Frame low threshold open IN Max = (Max sash height + 56mm + 15mm)Min = (Min sash height + 56mm + 15mm)

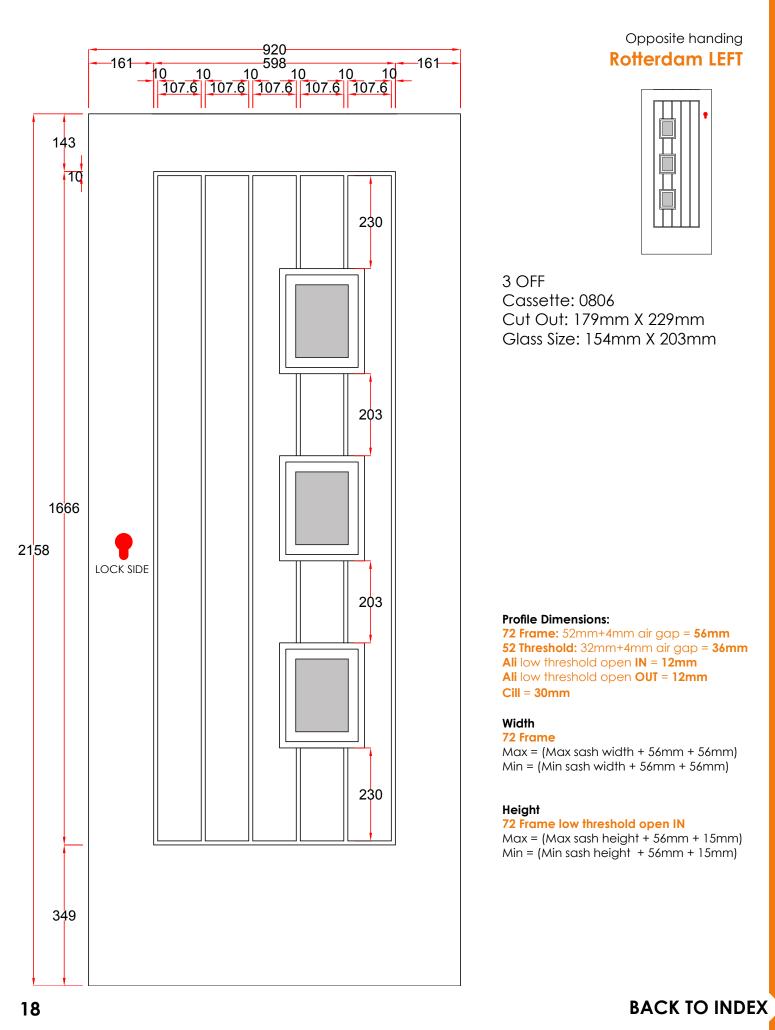




Rotterdam RIGHT

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm





Amsterdam

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm

4 OFF Cassette: 0806 Cut Out: 179mm X 229mm Glass Size: 154mm X 203mm

Profile Dimensions:

72 Frame: 52mm+4mm air gap = 56mm 52 Threshold: 32mm+4mm air gap = 36mm Ali low threshold open IN = 12mm Ali low threshold open OUT = 12mm Cill = 30mm

Width

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

Height

72 Frame low threshold open IN Max = (Max sash height + 56mm + 15mm) Min = (Min sash height + 56mm + 15mm)



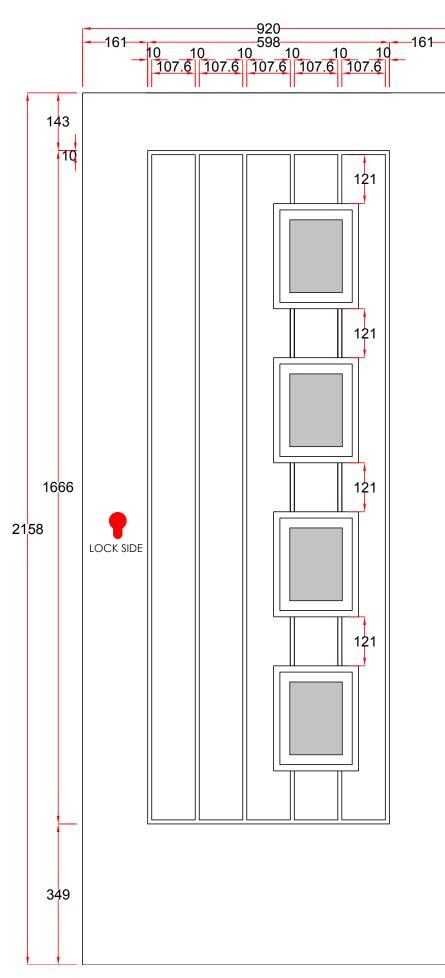


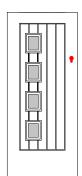
Opposite handing Amsterdam LEFT

Amsterdam RIGHT

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm





4 OFF Cassette: 0806 Cut Out: 179mm X 229mm Glass Size: 154mm X 203mm

Profile Dimensions:

72 Frame: 52mm+4mm air gap = 56mm 52 Threshold: 32mm+4mm air gap = 36mm Ali low threshold open IN = 12mm Ali low threshold open OUT = 12mm Cill = 30mm

Width

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

Height

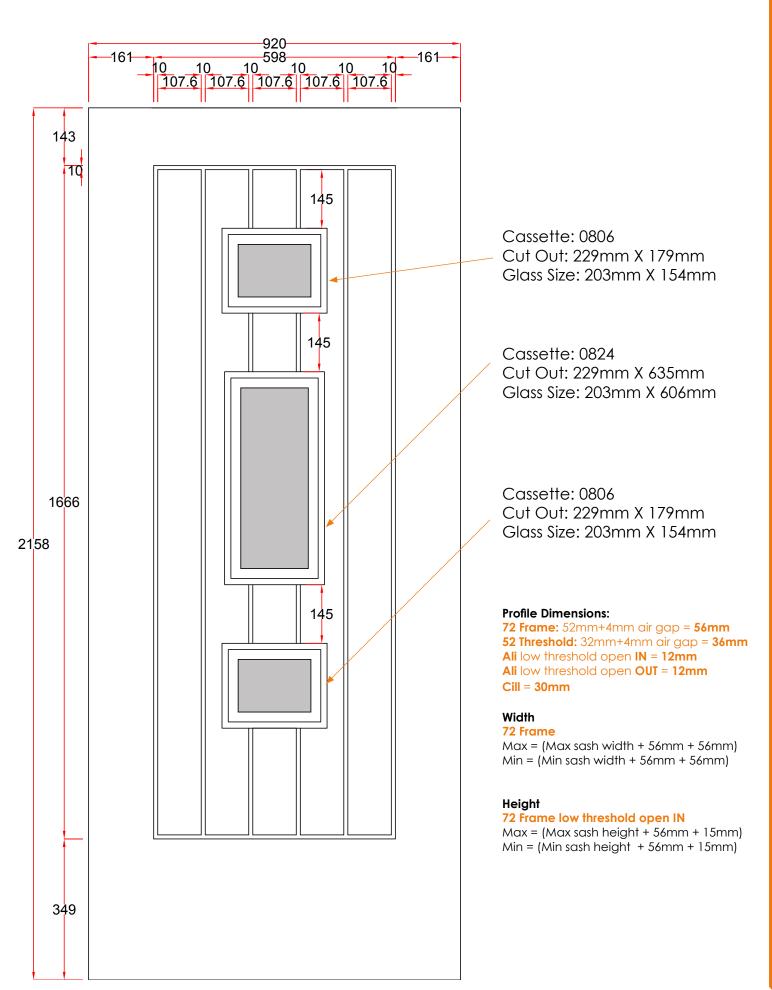
72 Frame low threshold open IN Max = (Max sash height + 56mm + 15mm) Min = (Min sash height + 56mm + 15mm)





Door Blank Type :PCD MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm

Helsinki



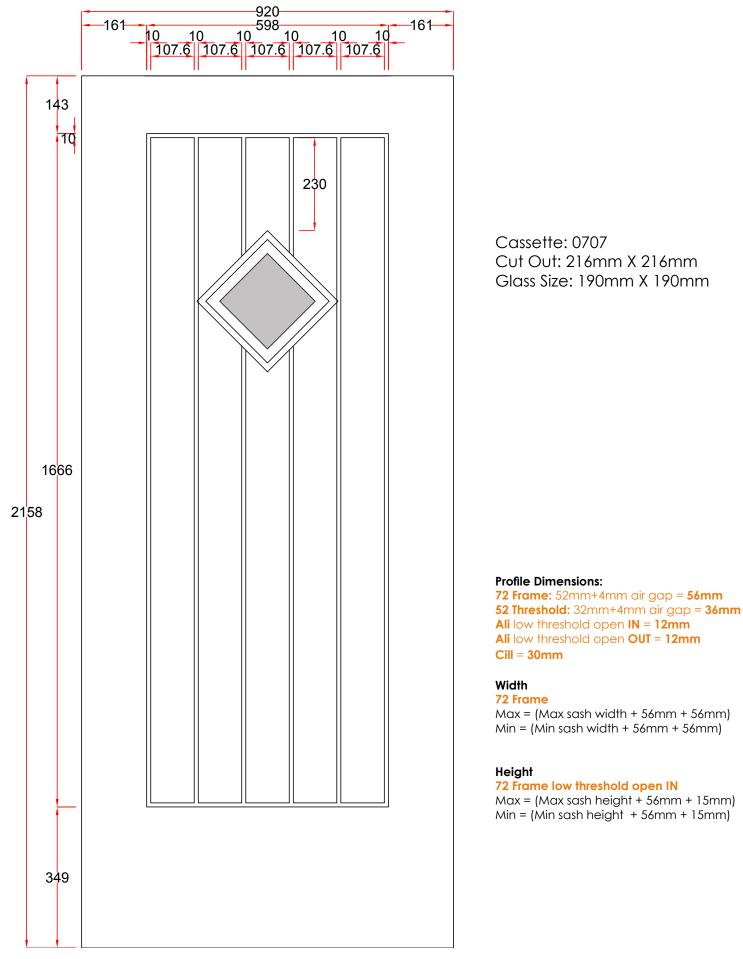




Oslo

Door Blank Type :PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm

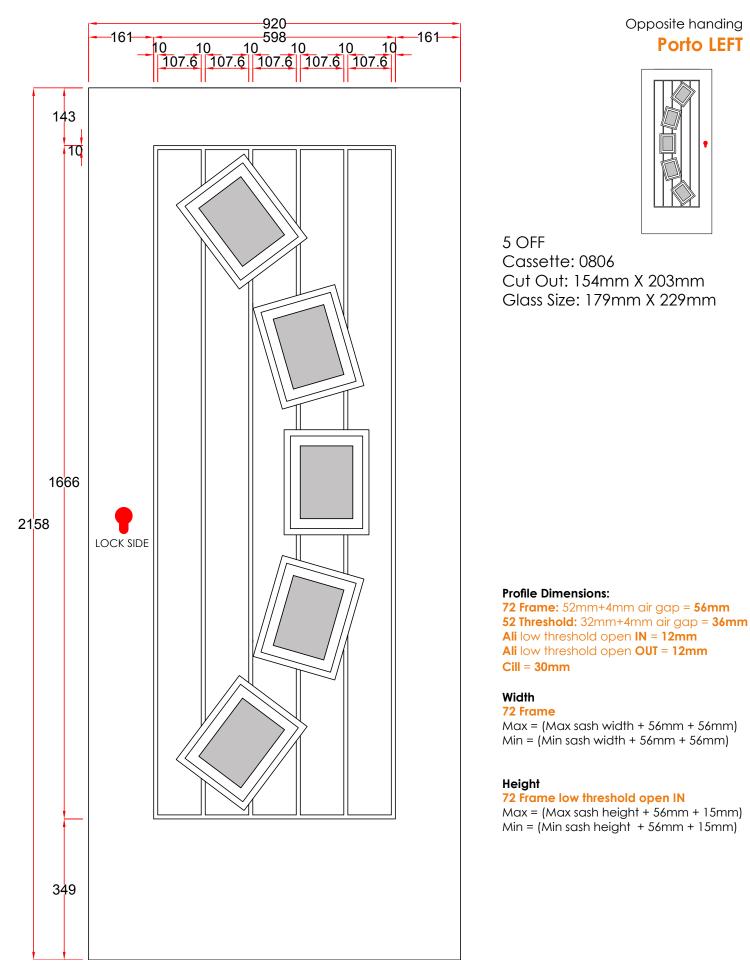




Porto RIGHT

Door Blank Type :PCD

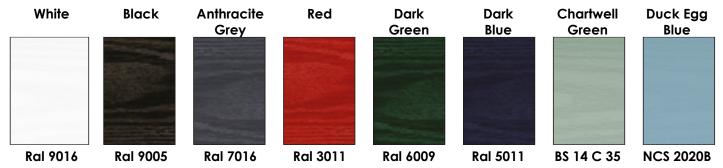
MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 712mm X 1866mm





Colours

Door and Frame Colours



Door Colour Options

EXTERNAL	INTERNAL
White	White
Black	White
Grey	White
Red	White
Green	White
Blue	White
Chartwell Green	White
Duck Egg Blue	White

Frame Colour Options

EXTERNAL	INTERNAL
White	White
Grey	White

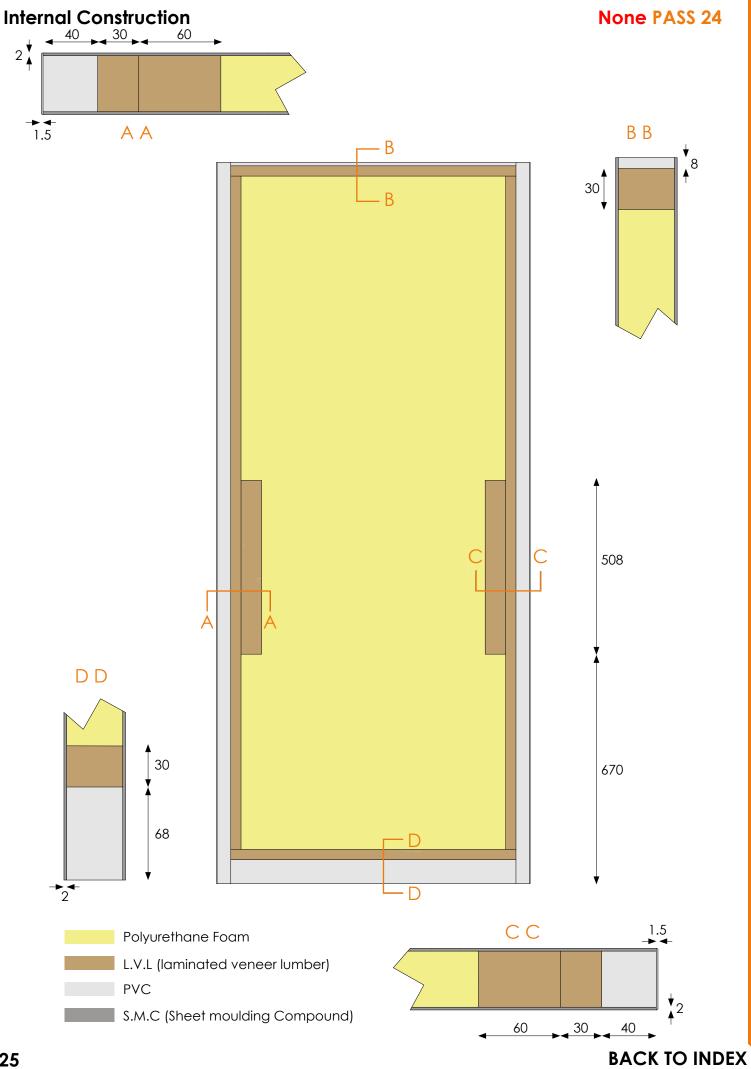
Furniture Matrix

Orange box shows availability.

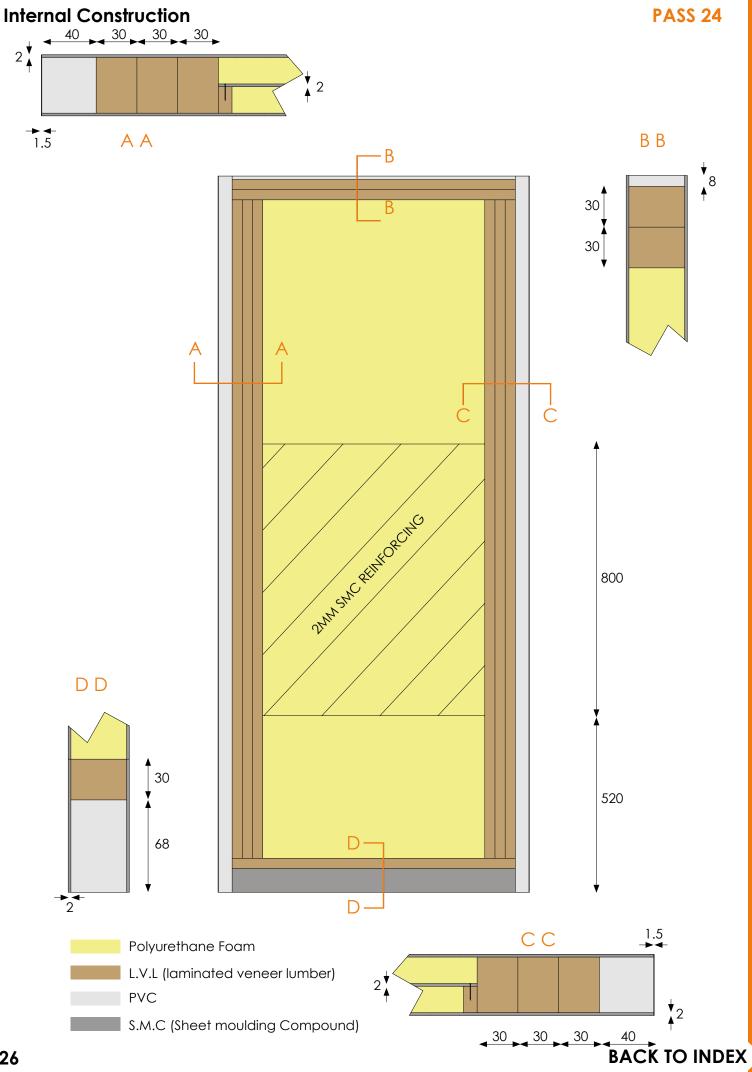
	CHROME	GRAPHITE	GOLD	BLACK	WHITE	STAINLESS	BRASS	NICKEL
LETTER PLATE								
TS008 LETTER PLATE								
LEVER HANDLE								
PAD HANDLE								
NUMERALS								
KNOCKERS								
KNOBS								
SPY HOLE								
ESCUTCHEON								
BAR HANDLE								
STANDARD HINGE								
OPTIONAL HINGE								
1 STAR CYLINDER								
3 STAR CYLINDER								





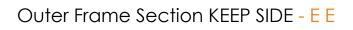


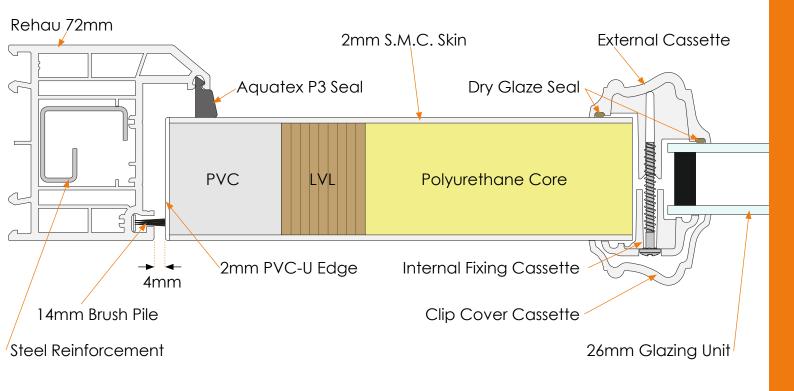






Outer Frame Construction Sections

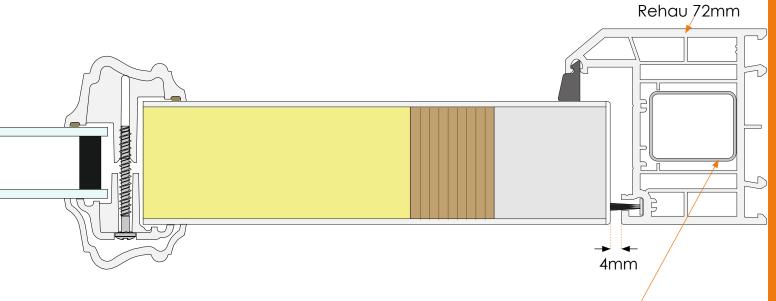




F

F

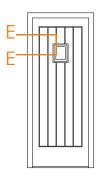
Outer Frame Section HINGE SIDE - E E



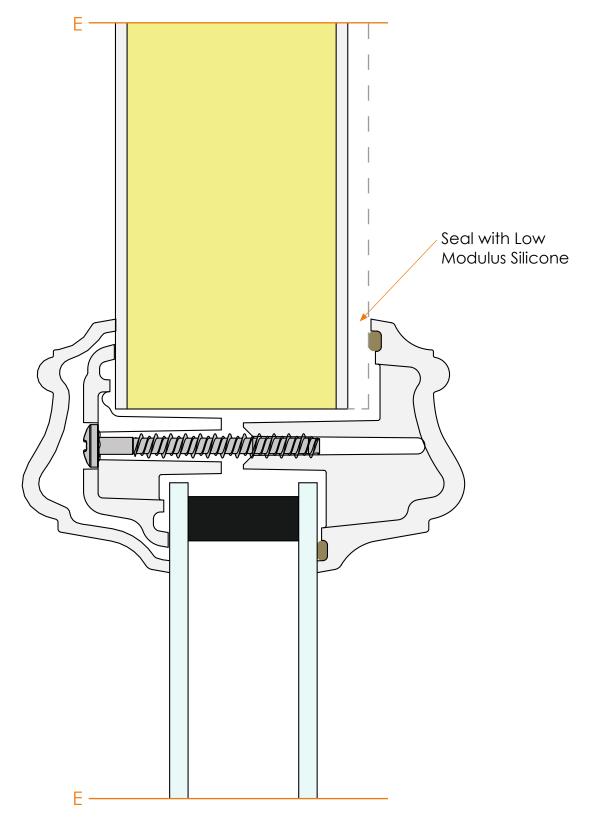
Steel Box Reinforcement



Construction Section Glazing

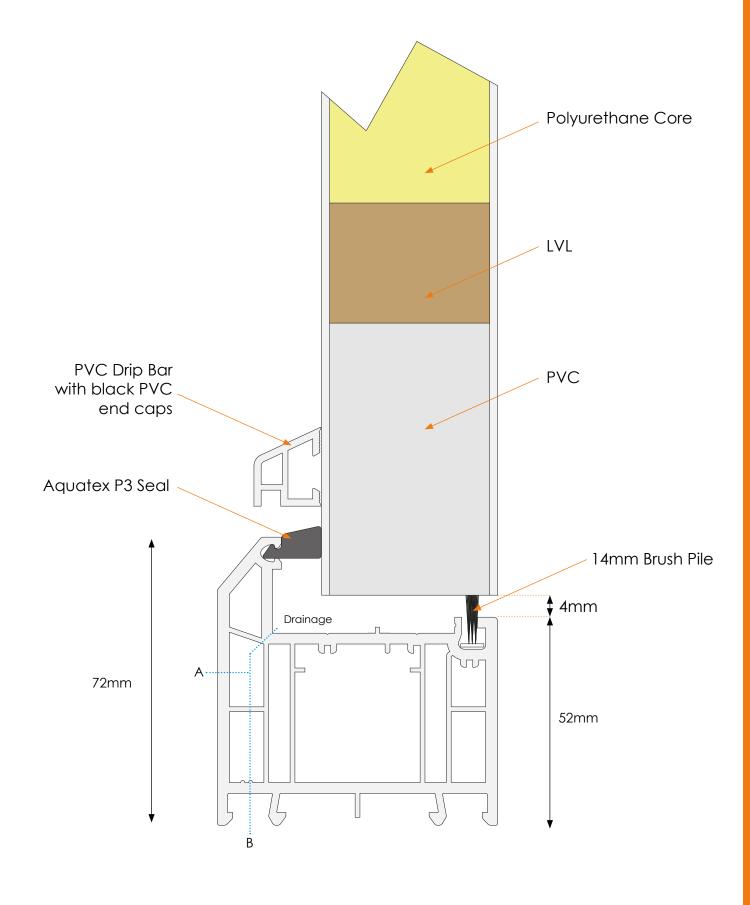


Cassette Section in line with the moulding detail





Full PVC-U Threshold

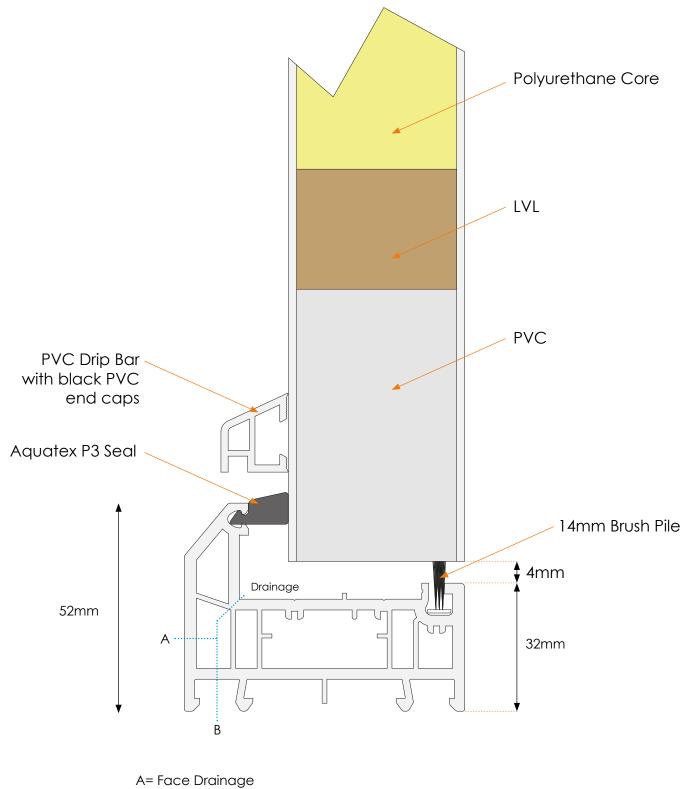


A= Face Drainage (Slots 5mm x 35mm)

B= Concealed Drainage



Slim PVC-U Threshold

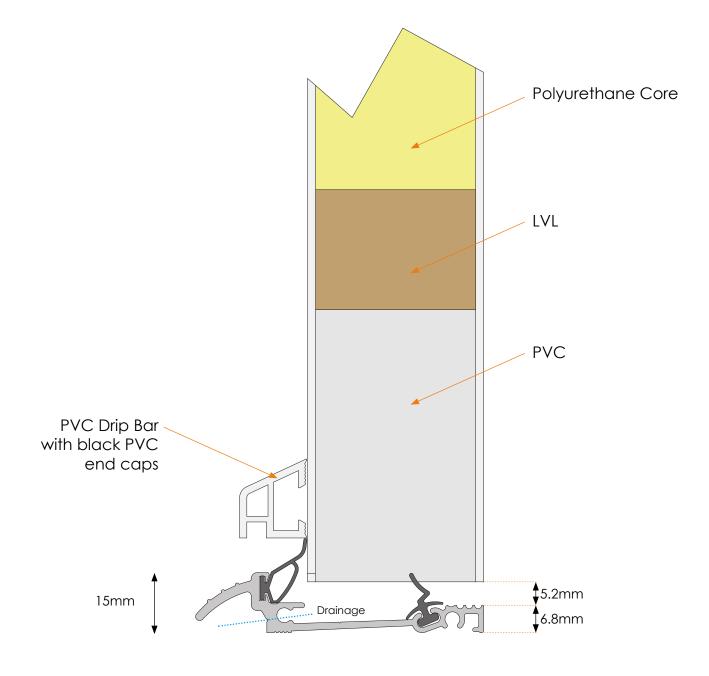


(Slots 5mm x 35mm)

B= Concealed Drainage



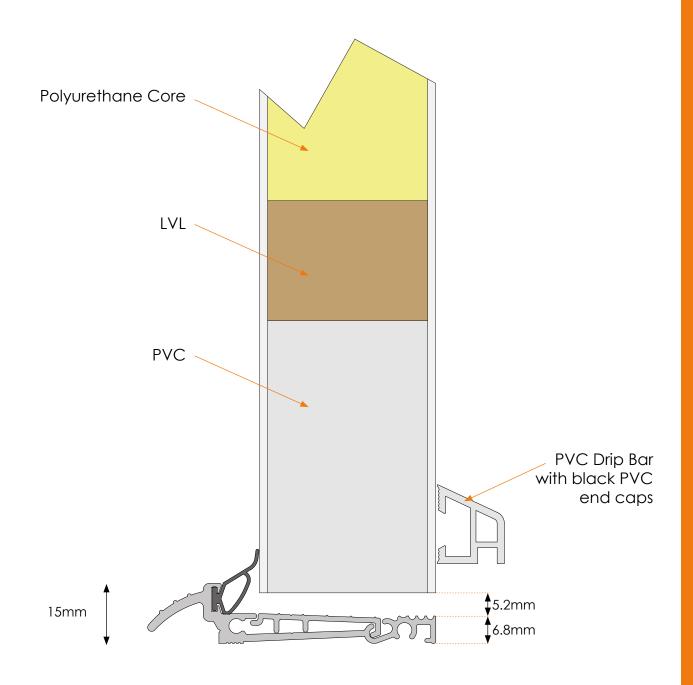
Open IN Aluminium Threshold





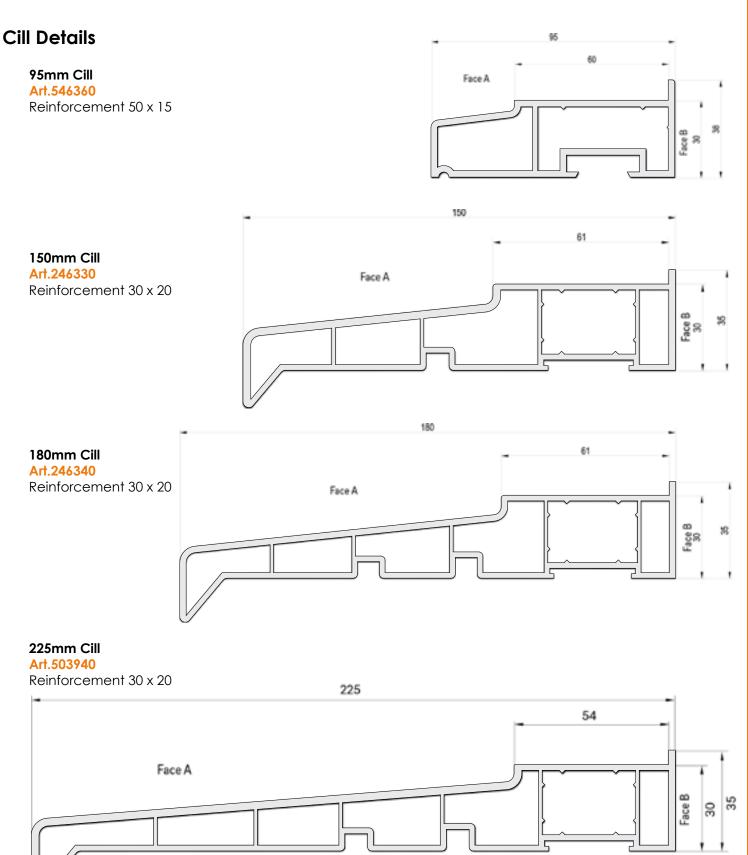


Open OUT Aluminium Threshold









J R

G

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72mm and 52mm PVC-U threshold on a **225mm cill**

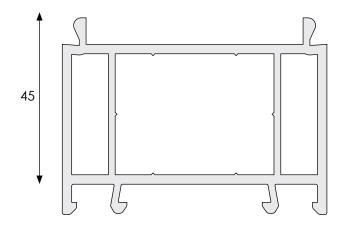
Face A & Face B used to identify foiled face

small base so the frame NEEDS SITTING BACK

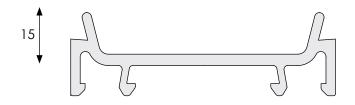


Add On / Frame Extension

45mm Add On / Frame Extension



15mm Add On / Frame Extension

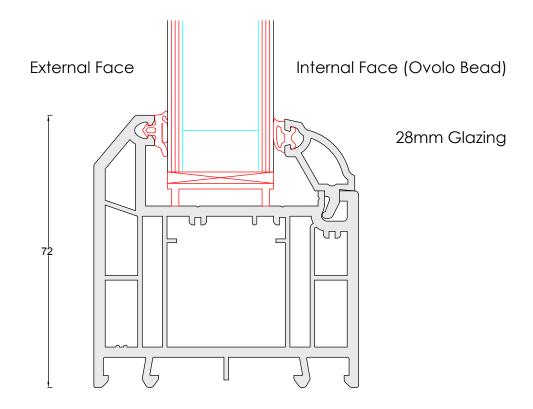




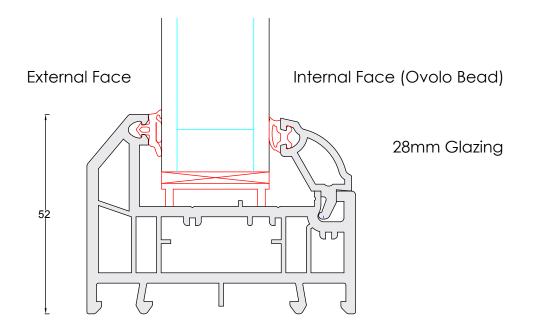


Side Frame Details

72mm Side Frame



52mm Side Frame



Not used as a door outer frame only used as a low PVCu threshold



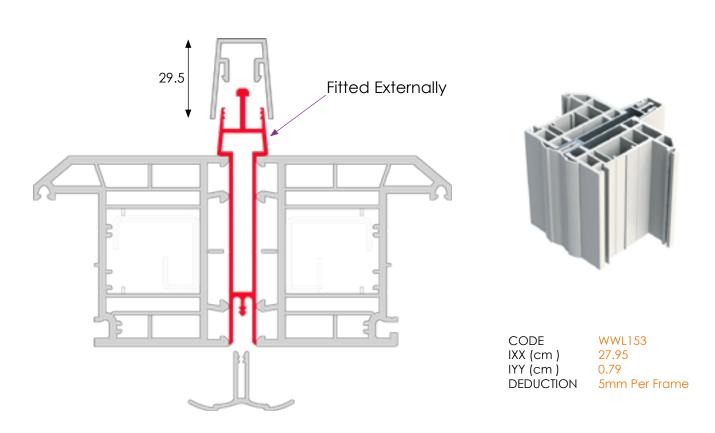


Coupling Bar Detail

Heavy Weight Coupler (10mm wide)

Protruding

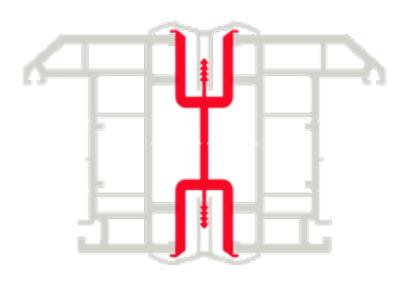
Recommended for the higher exposure category. The coupler protrudes this makes it the strongest design of all couplers offered.



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



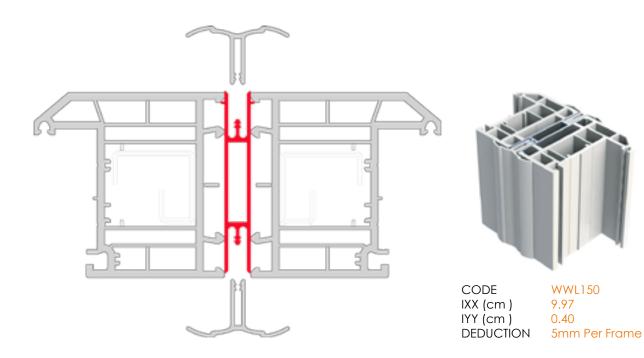


Coupling Bar Detail

Light Weight Coupler (10mm wide)

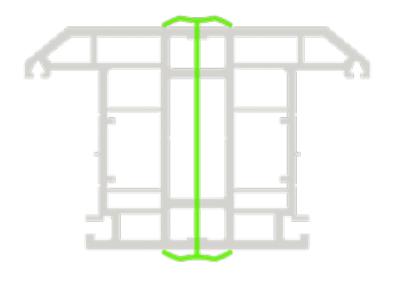
Flush Fitting

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



1.5mm Coupler (1.5mm wide) PVC-U

Only use on single door fanlights





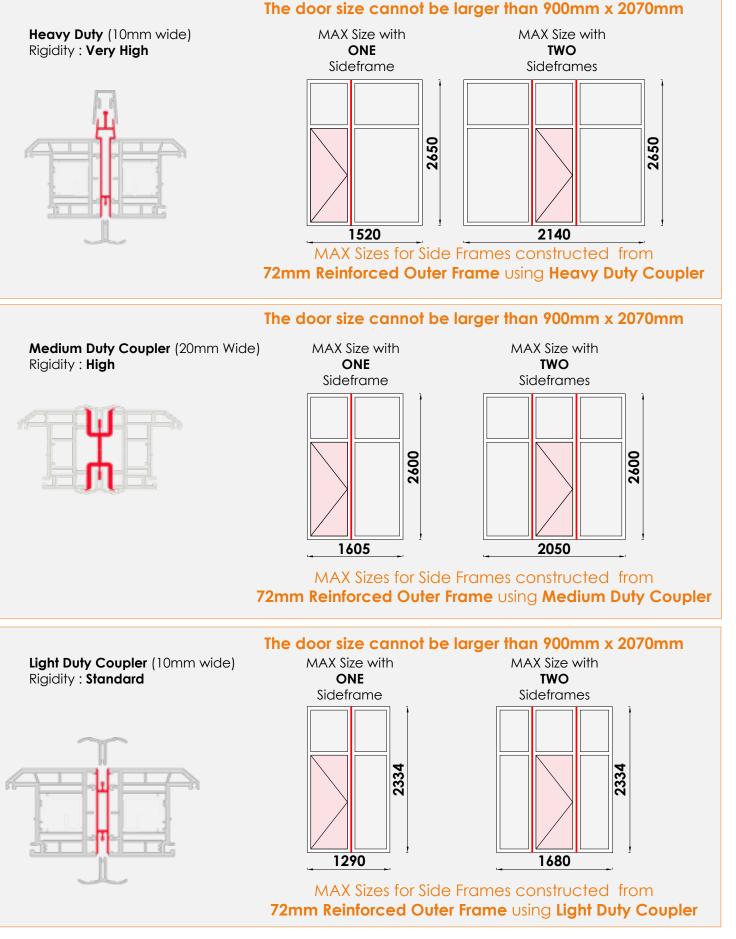
CODE	PFC70
IXX (cm)	0
IYY (cm)	10
DEDUCTION	0.75mm Per Frame





Side Frame / Coupling Bar Max Sizes

72mm Reinforced Outer Frame to achieve 800PA.

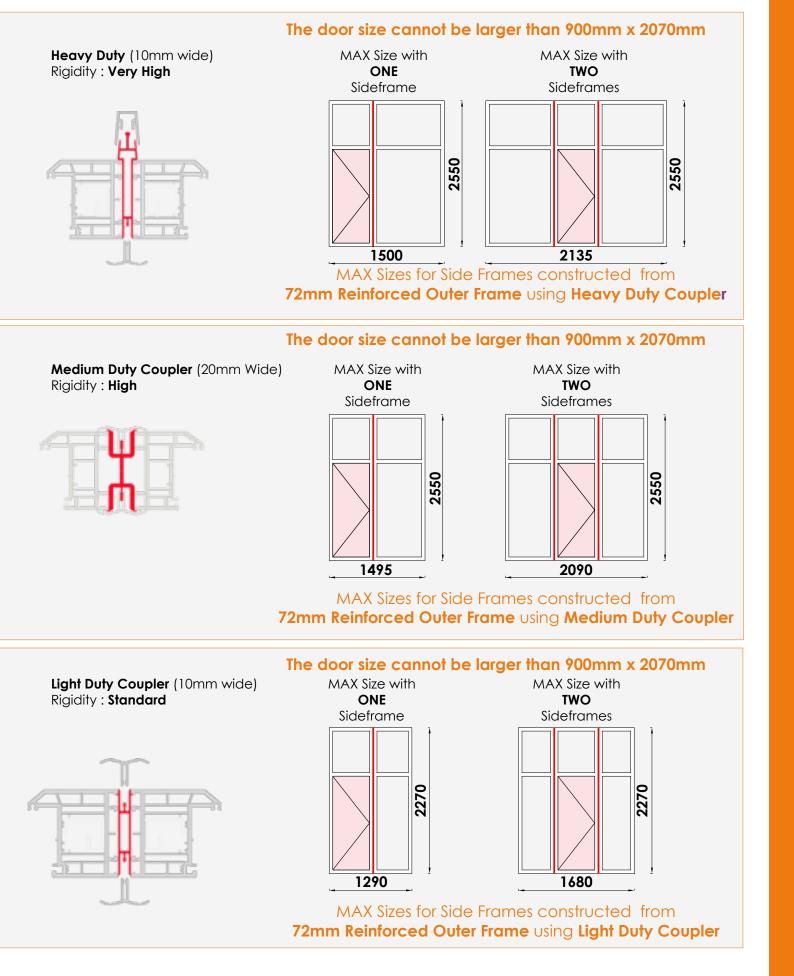


It is the installers responsibility to ensure that the products are fit for purpose for the environment in which they are installed and the correct level of operational performance is achieved.



Side Frame / Coupling Bar Max Sizes

52mm Reinforced Outer Frame to achieve 800PA.



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Side Frame Min Sizes / Transoms

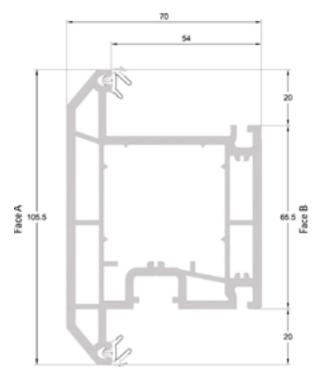
Sideframe with MIDRAIL

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**

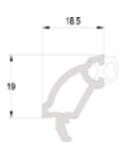
Sideframe with NO Midrail GROOVED

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**

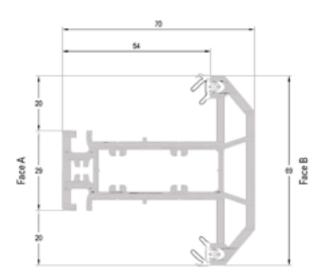
Standard letterplates cannot be fitted into midrails.



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



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



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





Bar Handle Detail 1200mm and 600mm



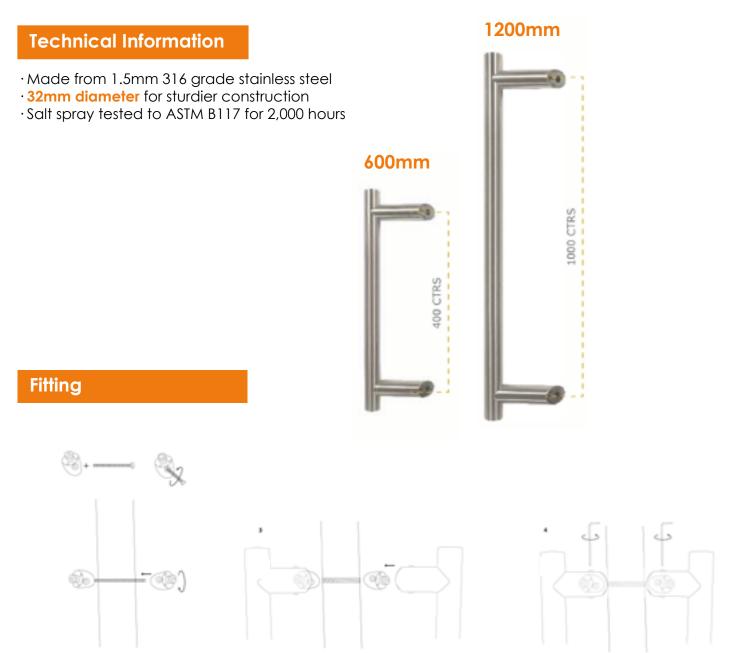
For continued protection of the quality finish and appearance, we advise routine cleaning.

Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation of corrosive contaminants.





Offset Bar Handle Detail 1200mm and 600mm



Suitably line the holes up to where the handle will be fitted on the door making sure it is straight. Take 'fitting A' and feed through the bolt. Screw 'fitting B' onto the other side. Push each handle onto its fixings.

Screw the grub screws up tightly to secure the fitting. For security you can round off the grub screws.

Maintenance

For continued protection of the quality finish and appearance, we advise routine cleaning.

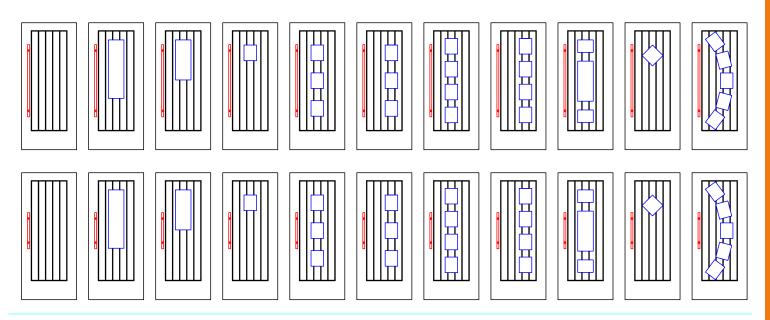
Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation of corrosive contaminants.





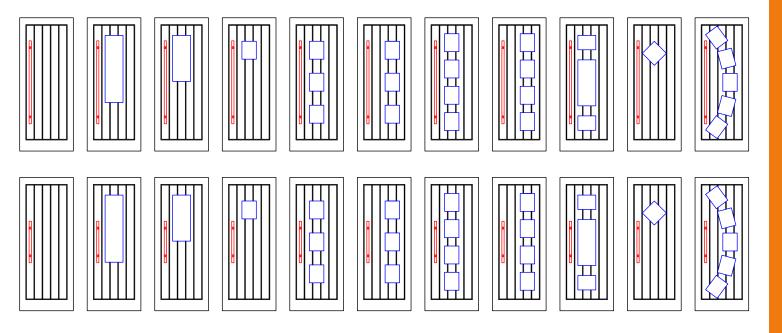
Sash Size 914mm to 870mm

 \cdot Bar handle 115mm from the edge of the sash



Sash Size 869mm to 776mm

 $\cdot\,\textsc{Bar}$ handle in the centre of the first moulding.



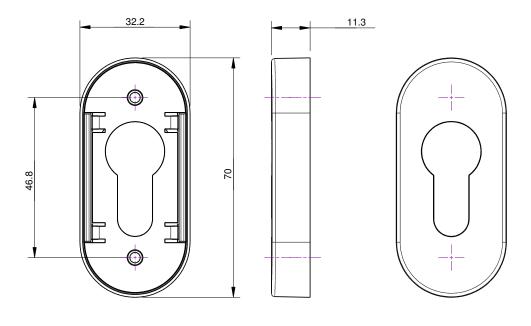


Escutcheon



Technical Information

- · Made from 1.5mm 316 grade stainless steel
- · 32.2 mm wide for sturdier construction
- \cdot Salt spray tested to ASTM B117 for 2,000 hours





Maintenance

For continued protection of the quality finish and appearance, we advise routine cleaning.

Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation of corrosive contaminants.





Lever Handle

Technical Information

Corrosion resistance

Meets the requirements of BS EN 1670:2007Grade 5 (480 hours)

Operation

Endurance tested in excess of 200,000 cycles

Performance

Tested to meet the requirements of PAS 24 as part of a compliant door set. 30 minute fire test to BS 476: Part 20/22: 1987

Material Specification

Handle Grip and Backplate:

Meets the requirements of BS EN 1670:2007Grade 5 (480 hours)

Silver Spindle / Screws:

Machine screws with colour coordinated heads for handle. 60mm - 70mm profiles (1 x 8mm x 120mm spindle; 2 x M5 x 70mm and 2x M5 x 80mm screws)

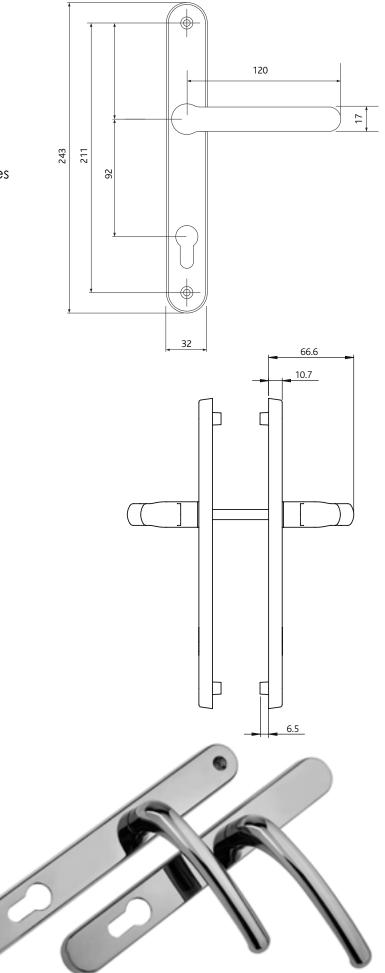
Cylinder:

Euro Cylinder, 92mm PZ

Maintenance

For continued protection of the quality finish and appearance, we advise routine cleaning.

Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation of corrosive contaminants.





Pad Handle

Technical Information

Corrosion resistance

Meets the requirements of BS EN 1670:2007Grade 5 (480 hours)

Operation

Endurance tested in excess of 200,000 cycles

Performance

Tested to meet the requirements of PAS 24 as part of a compliant door set. 30 minute fire test to BS 476: Part 20/22: 1987

Material Specification

Handle Grip and Backplate:

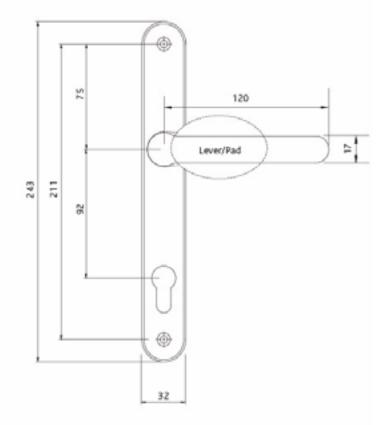
Meets the requirements of BS EN 1670:2007Grade 5 (480 hours)

Silver Spindle / Screws:

Machine screws with colour coordinated heads for handle. 60mm - 70mm profiles (1 x 8mm x 120mm spindle; 2 x M5 x 70mm and 2x M5 x 80mm screws)

Cylinder:

Euro Cylinder, 92mm PZ



Maintenance

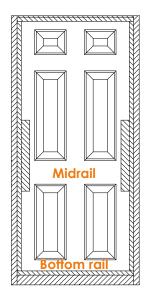
For continued protection of the quality finish and appearance, we advise routine cleaning.

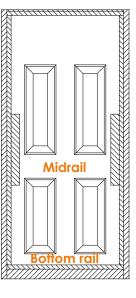
Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation of corrosive contaminants.



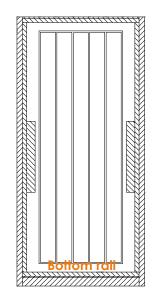


Letterplate Positioning









Door sashes less than 1896 in height cannot have a letterplate fitted in the bottom rail.

Door sashes with a height between 1895 and 1926 can only have standard letterplate fitted in the bottom rail a TS008 will not fit.

Door sashes with a height more than 1927 can have both a standard letterplate fitted in the bottom rail.

Standard letterplates can be fitted in any size door where there is a midrail.

TS008 letterplates should only be **fitted in the midrail position** as PAS24 & SBD doors with a letterplate must have the letterplate above 700mm from floor level.





Letterplate (Standard)

Technical Information

Corrosion resistance

Meets the requirements of BS EN 1670:2007Grade 5 (480 hours)

Operation

Flap cycle tested to 20,000 cycles Conforms to the requirements of BS EN 13724: 2002

Material Specification

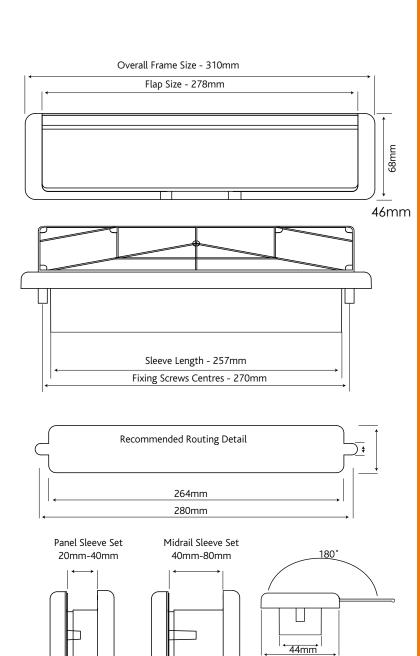
High quality Zinc or Aluminium

Performance

Flap:

Frame: Black ABS

Tested to meet the requirements of PAS 24 as part of a compliant door set. 30 minute fire test to BS 476: Part 20/22: 1987



Fixing Screws Provided

Maintenance

For continued protection of the quality finish and appearance, we advise routine cleaning.

Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation of corrosive contaminants.

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68mm



Letterplate (TS008)

Technical Information

Specification

- TS008:2015 accredited
- Conforms to the requirements of PAS 24:2016 and Approved Document Q
- External unit corrosion tested to BS EN 1670 Grade 5-tested in excess of 1000 hours NSST
- Tested to 20,000 cycles

Material Specification

External Flap:

Austenitic 304 stainless steel

Internal Flap:

Aluminium



Maintenance

For continued protection of the quality finish and appearance, we advise routine cleaning.

Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation of corrosive contaminants.

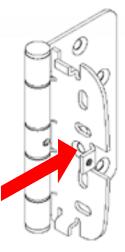




Hinges

Standard Hinge (Open in doors only)

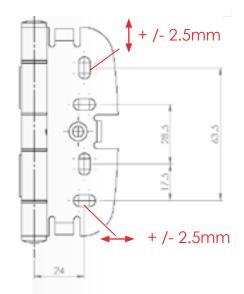
2 way adjustment +/- 2.5mm Height and Side adjustment. Face fitting for a flush door to frame finish. Robust 430 stainless steel body designed to carry up to 100kg on 3 hinges.





FINAL FIX HINGE SCREW

After any hinge adjustments the final fix hinge lock screw must be fixed in the centre hole fixing point.



Technical Information

Performance: Endurance tested to 100,000 operations, Load tested to 100kg on 3 hinges Corrosion resistance: All finishes meet the requirements of BS EN 1670:2007 - grade 5 (500 hrs Salt Spray)

Material Specification

Hinge Body: 430 Stainless Steel Hinge Cover: Zinc Alloy Pin: 304 Stainless Steel

Maintenance

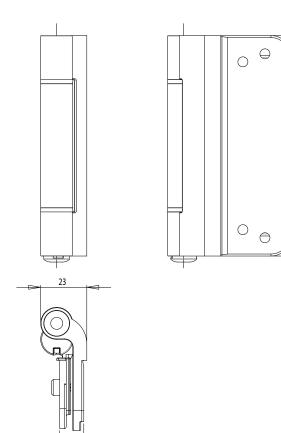
We recommend that all moving components are lubricated using a non-acidic mineral oil at least twice a year and surface cleaned with a damp cloth.

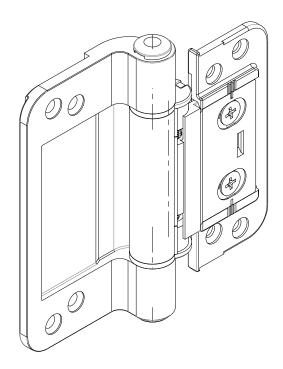




Hinges

Optional Hinge (Standard on open out doors)





Technical Information

Performance: Endurance tested to 100,000 operations, Load tested to 100kg on 3 hinges Corrosion resistance: All finishes meet the requirements of BS EN 1670:2007 - grade 5 (500 hrs Salt Spray)

110

Adjustment

12

Lateral +/- 3mm Height +/- 4mm Compression +/- 1.75mm

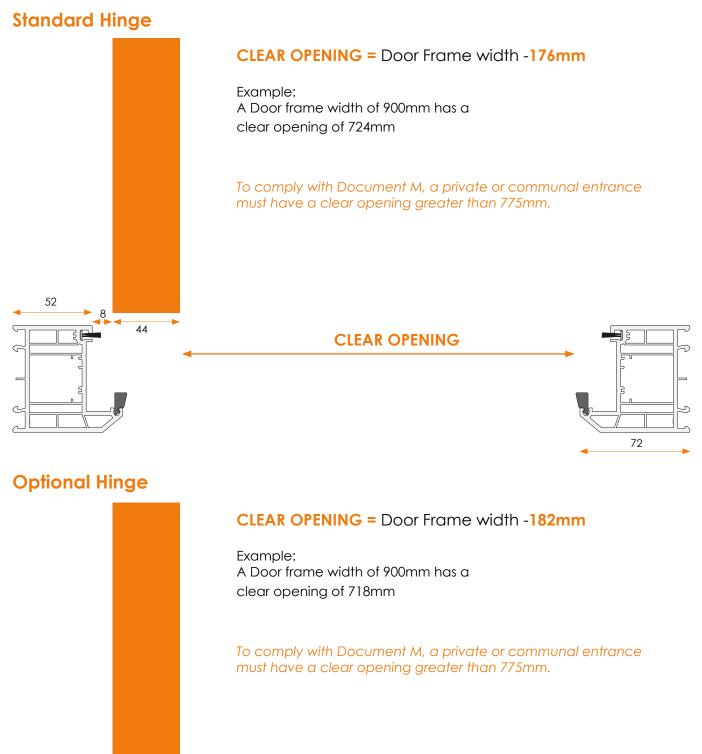
Maintenance

We recommend that all moving components are lubricated using a non-acidic mineral oil at least twice a year and surface cleaned with a damp cloth.





Clear Openings

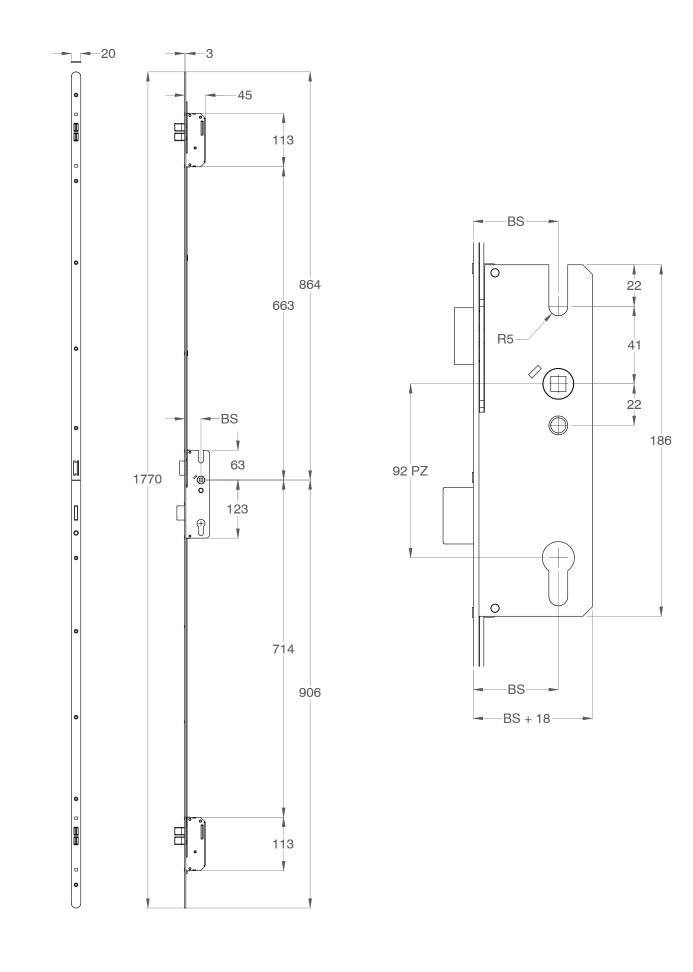




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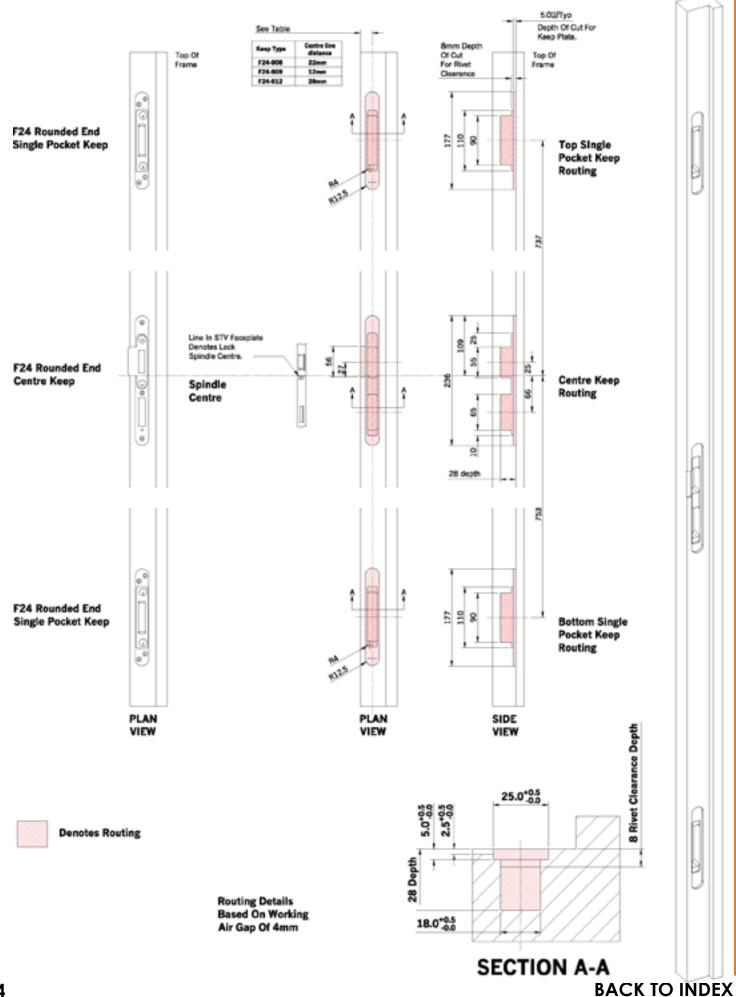


Lock



Keeps



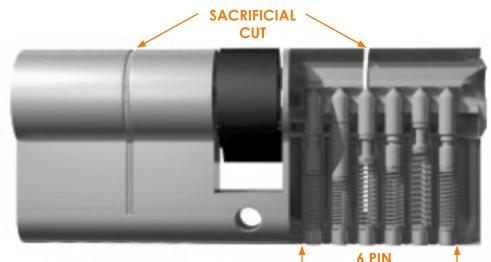




*Cylinder also available with a thumbturn option.

Technical Information

- BSi 1* Kite-marked KM561977
- Secured by Design approved
- Supplied with 3 keys
- 6 pins
- Sacrificial cut lines on both sides of the cylinder so can be fitted either way round.
- Over 200,000 different key combinations.



Sacrificial cut

The cylinder has a sacrificial cut line, so when force is applied to the end, the cylinder will break away to the sacrificial cut line only, leaving the remaining cylinder operational and the locking mechanism intact.

Anti-bump

The cylinder has a unique and patented anti-bump system which does not use trap pins. This system makes the turning of the cylinder key extra smooth.

Anti-drill

Anti-drill pins are in each side of the cylinder.

Anti-pick

Anti-pick pins in each side of the cylinder makes it extremely difficult for a common burglar to pick the cylinder.

Maintenance

We recommend that the area highlighted with **blue** is wiped over with a lemon based very mild soap solution and a soft cloth once a month or every 2 weeks in areas of high sea salt such as coastal areas.

We recommend that the area highlighted with **orange** is lubricate with silicone based oil or graphite once a month or every 2 weeks in areas of high sea salt such as coastal areas.



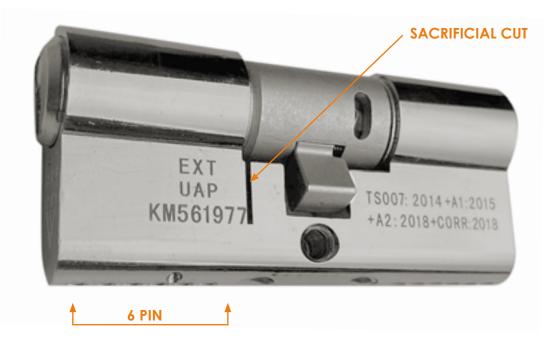
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*****Cylinder** also available with a thumbturn option.

Technical Information

- BSi 3* Kitemarked
- Secured by Design Approved
- Sold Secure Approved
- Supplied with 3 Bio keys which have antibacterial and antiviral properties and have been tested to ISO 22196:2011 and ISO 21702:2019
- 6 pins
- Anti snap line on the outside of the cylinder
- Patented anti-bump timing pin system
- Patent applied for anti tilt mechanism
- Anti-pick pins
- Hardened steel anti-drill pins
- Does not use trap pins so no danger of cylinder entrapment
- Cylinder can open from the inside if attacked from the outside
- Over 200,000+ different key combinations
- Unrestricted keyway makes it easier for customers to get keys cut using the Kinetica key blank
- Tested to EN1303:2015



Maintenance

We recommend that the area highlighted with **blue** is wiped over with a lemon based very mild soap solution and a soft cloth once a month or every 2 weeks in areas of high sea salt such as coastal areas.

We recommend that the area highlighted with **orange** is lubricate with silicone based oil or graphite once a month or every 2 weeks in areas of high sea salt such as coastal areas.



UV



/alues	Dout K gl	ole Glozec oss one cr Triple AlA	Glozed P Glozed P A glosst N Doub K glo	shold VC Thres 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5N5 23N5 23	nold NNA5:N24 Auminiu oot Die Glozer JAI gloss Triple AI AI	n Thresho Aluminiu Glazed P 6.8 glosst Doubl Alum	old om Threshold VC Threshold VC Threshold N23N5N5:NN15:N24 N23N5N5:NN15:N24 Re Glozed AllAl6.8 gloss AllAl6.8 gloss
Rome	1	1	1	1	1	1	
Rome 2	1.2	1.3	1.2	1.3	1.2	1.3	
Tuscany	1.2	1.3	1.2	1.3	1.2	1.3	
Athens	1	1	1	1	1	1	
Athens 2	1	1	1	1	1	1	
Athens 4	1.2	1.3	1.2	1.3	1.2	1.3	
Cannes 1	1	1	1	1	1	1	
Cannes 3	1.2	1.3	1.2	1.3	1.2	1.3	
Madeira	1.2	1.3	1.2	1.3	1.2	1.3	
Turin	1	1	1	1	1	1	
Milan 912	1	1	1	1	1	1	
Milan 609	1	1	1	1	1	1	
Milan 470	1	1	1	1	1	1	
Milan 203	1	1	1	1	1	1	
Rotterdam C	1	1	1	1	1	1	
Rotterdam L	1	1	1	1	1	1	
Rotterdam R	1	1	1	1	1	1	
Amsterdam C	1	1	1	1	1	1	
Amsterdam L	1	1	1	1	1	1	
Amsterdam R	1	1	1	1	1	1	
Helsinki	1	1	1	1	1	1	
Oslo	1	1	1	1	1	1	
Porto Left	1	1	1	1	1	1	
Porto Right	1	1	1	1	1	1	

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