

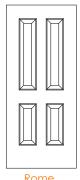
Our technical manual covers everything you need to know about GRP doors.

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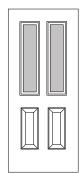
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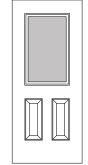
# Click on the door style name for the dimensions.



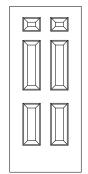
Rome



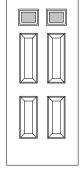
Rome 2



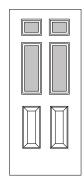
Tuscany



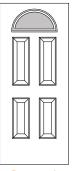
Athens



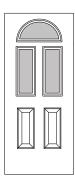
Athens 2



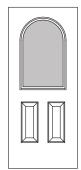
Athens 4



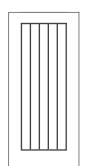
Cannes 1



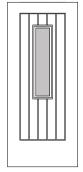
Cannes 3



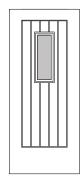
Madeira



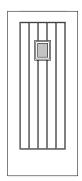
Turin



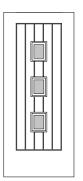
Milan 912



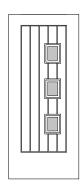
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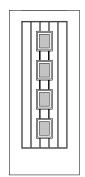
Milan 203



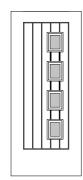
Rotterdam



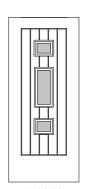
Rotterdam Left or Right



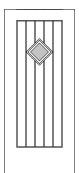
Amsterdam



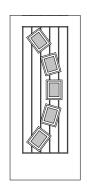
Amsterdam Left or Right



Helsinki



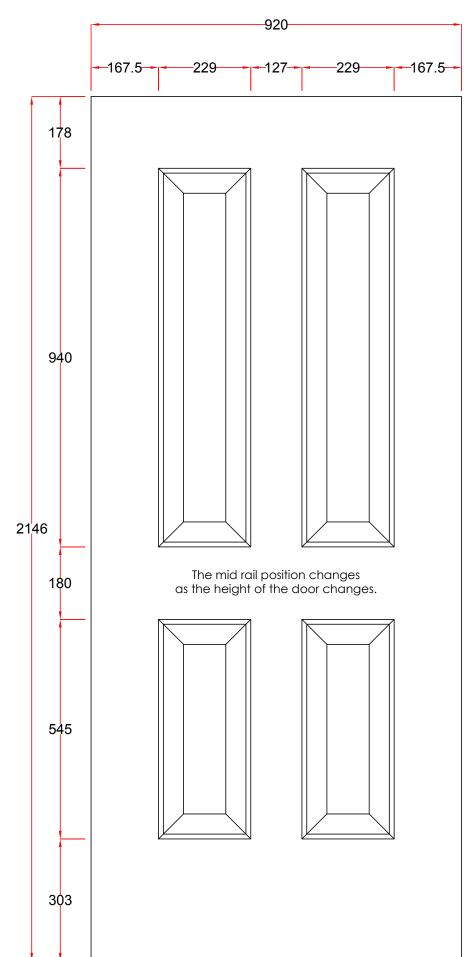
Oslo



Porto Left or Right

Door Blank Type: T4P

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



## **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

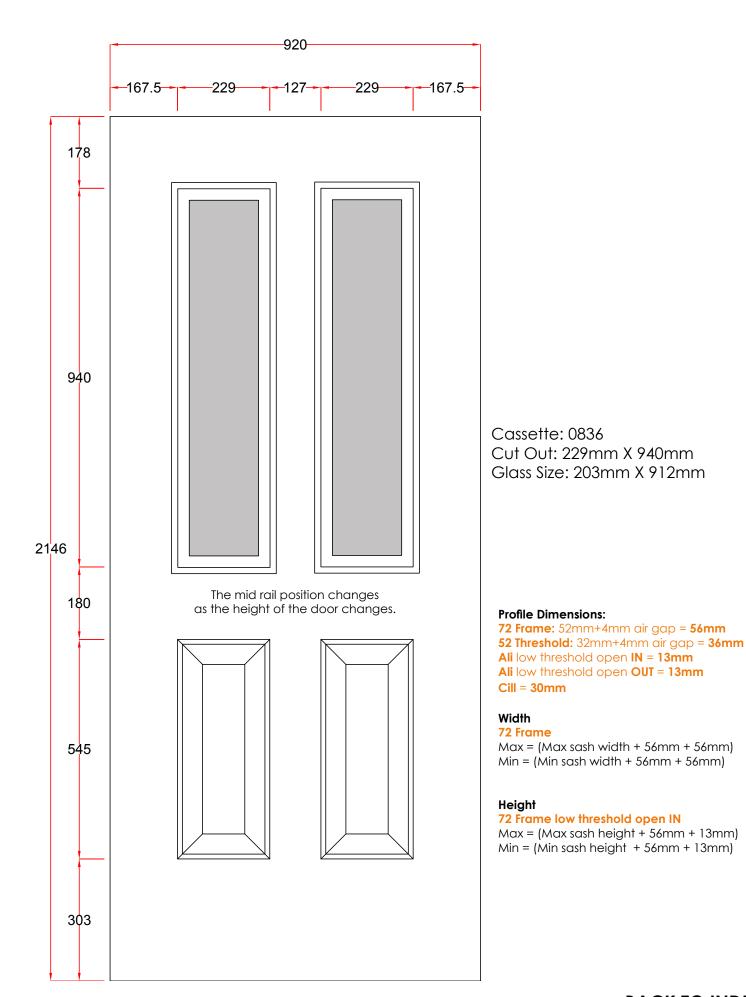
### 72 Frame

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

### Height

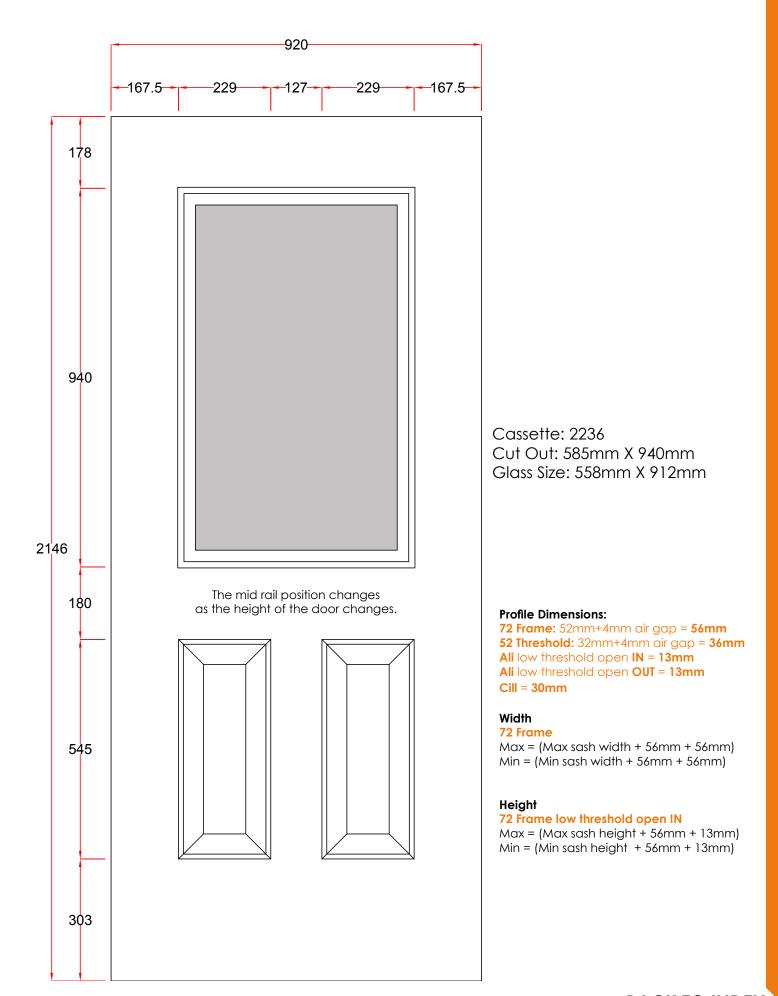
### 72 Frame low threshold open IN

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



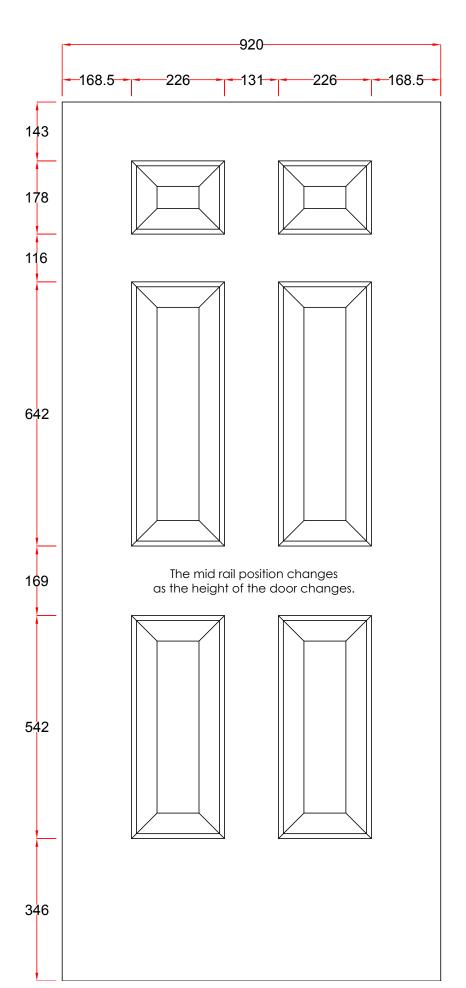
Door Blank Type: T4P

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



Door Blank Type: 6P

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



## **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

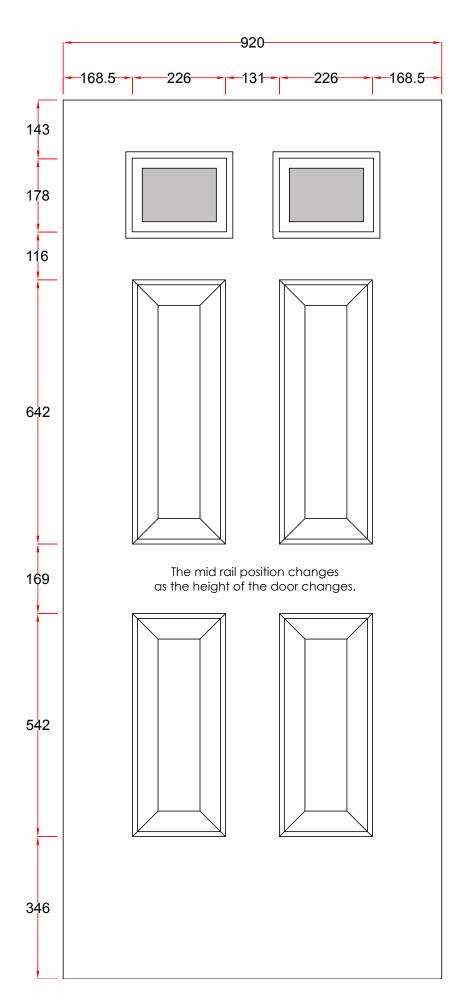
Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

### Height

### 72 Frame low threshold open IN

Door Blank Type: 6P

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



Cassette: 0806

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

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

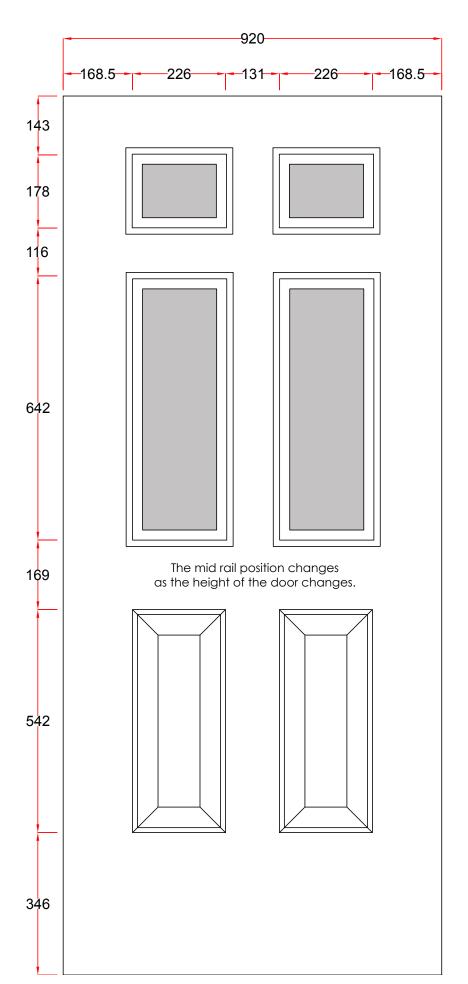
Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

### Height

### 72 Frame low threshold open IN

Door Blank Type: 6P

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



Cassette: 0806

Cut Out: 229mm X 179mm Glass Size: 203mm X 152mm

Cassette: 0824

Cut Out: 229mm X 635mm Glass Size: 203mm X 609mm

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

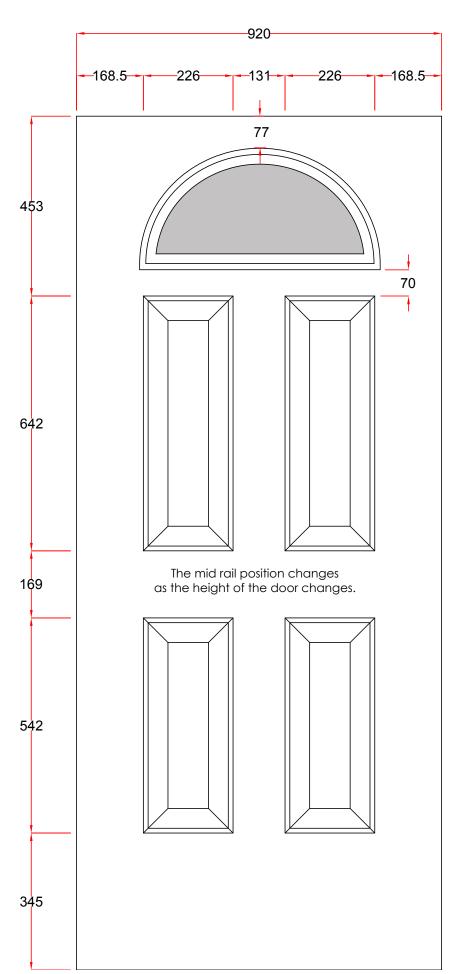
Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

### Height

### 72 Frame low threshold open IN

Door Blank Type: 4Pbt

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



Cassette: HR01

Cut Out: 575mm X 275mm Glass Size: 550mm X 250mm

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

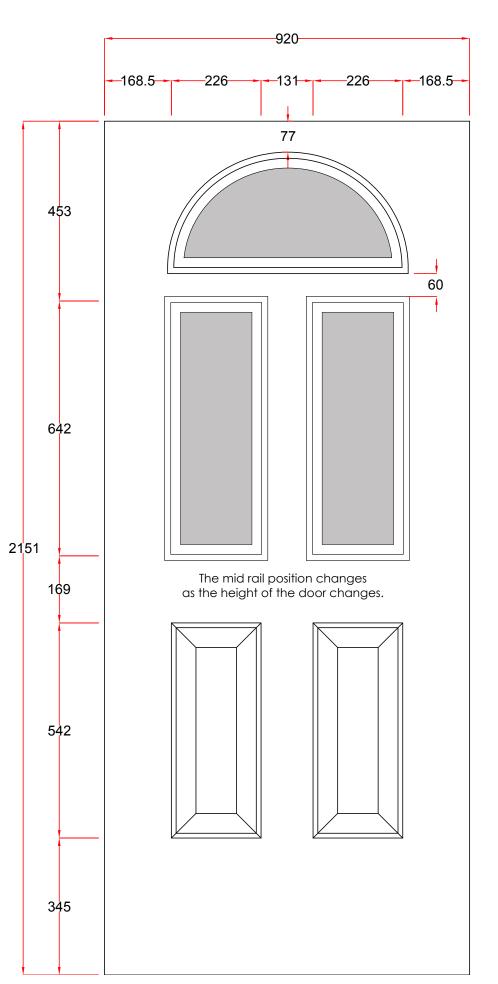
Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

### Height

### 72 Frame low threshold open IN

Door Blank Type: 4Pbt

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



Cassette: HR01

Cut Out: 575mm X 275mm Glass Size: 549mm X 250mm

Cassette: 0824

Cut Out: 229mm X 635mm Glass Size: 203mm X 609mm

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

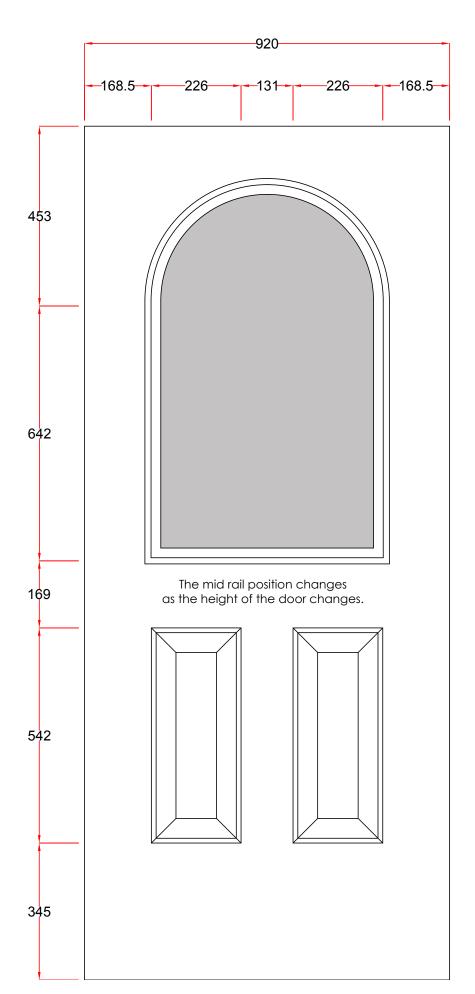
Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

### Height

### 72 Frame low threshold open IN

Door Blank Type: 4Pbt

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



Cassette: 2236RT

Cut Out: 585mm X 940mm Glass Size: 558mm X 912mm

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

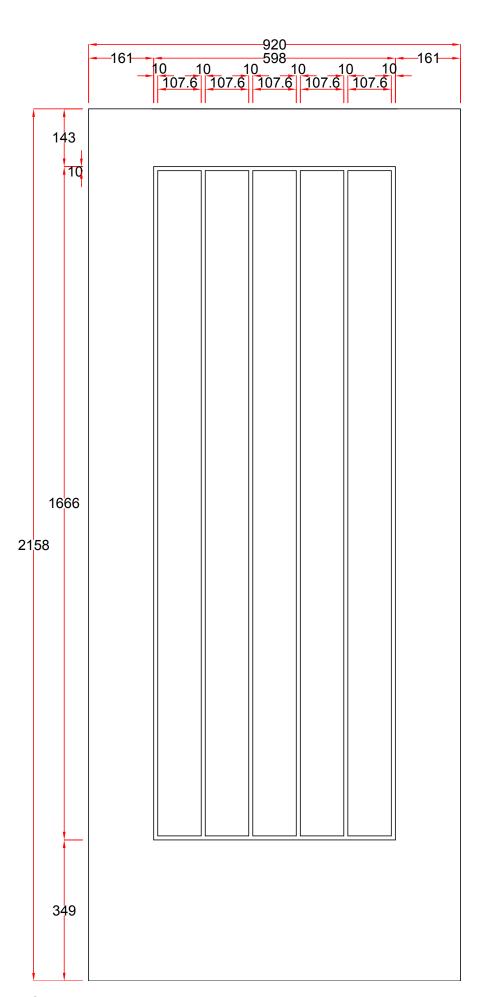
### 72 Frame

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

### Height

### 72 Frame low threshold open IN

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

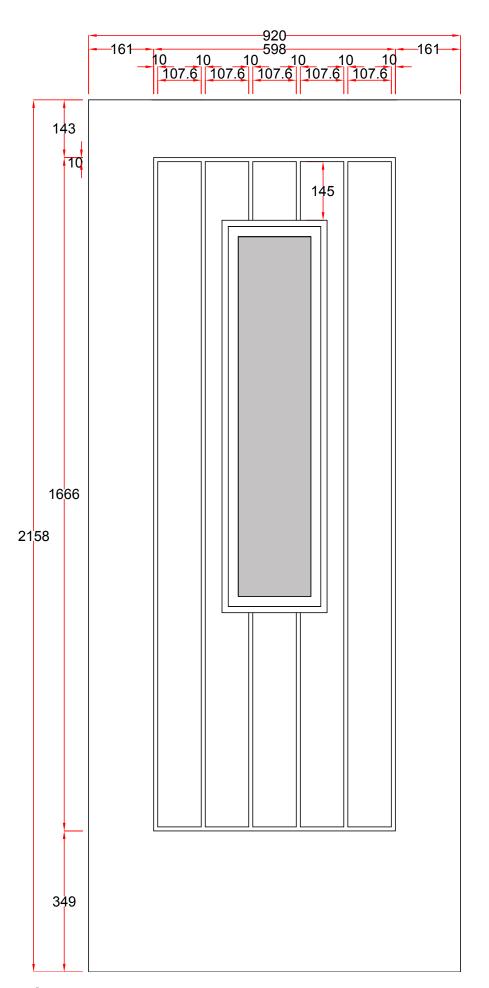
### 72 Frame

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

### Height

### 72 Frame low threshold open IN

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



Cassette: 0836

Cut Out: 229mm X 940mm Glass Size: 203mm X 912mm

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

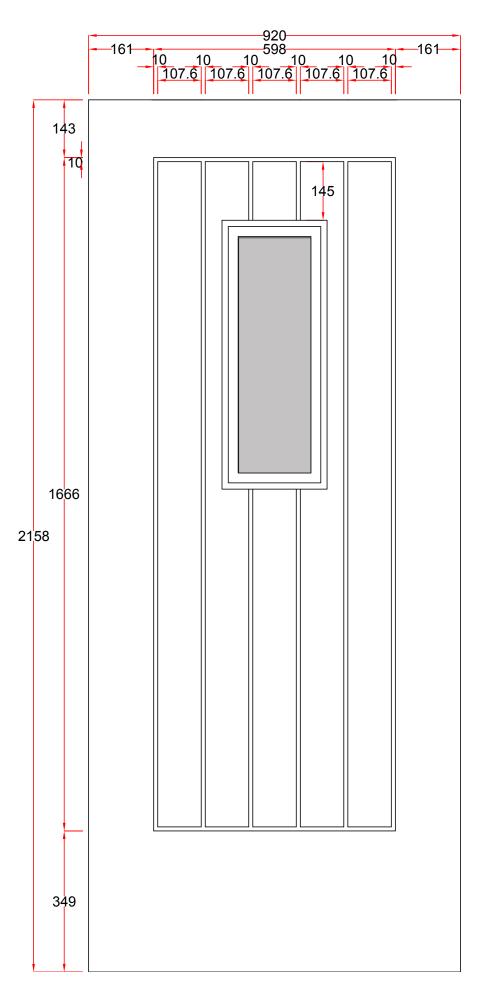
### 72 Frame

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

### Height

### 72 Frame low threshold open IN

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



Cassette: 0824

Cut Out: 229mm X 635mm Glass Size: 203mm X 609mm

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

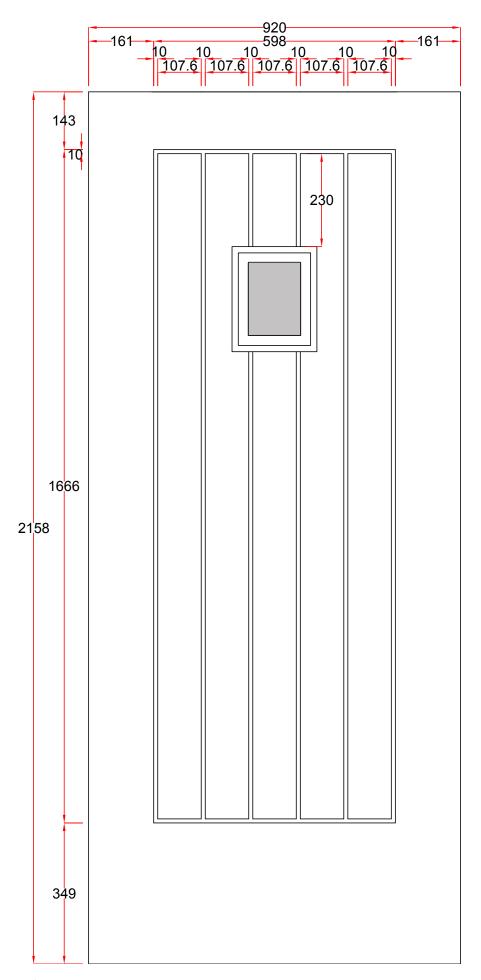
### 72 Frame

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

### Height

### 72 Frame low threshold open IN

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm 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 = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

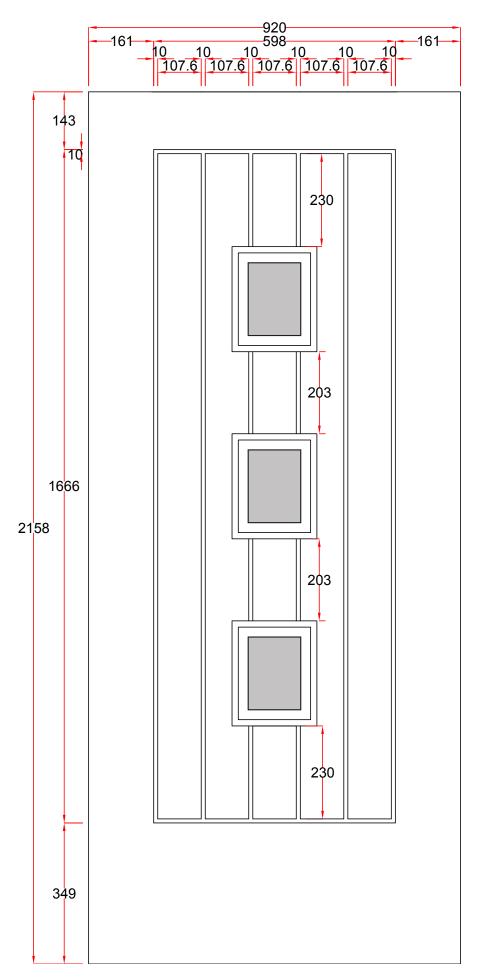
### 72 Frame

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

### Height

### 72 Frame low threshold open IN

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



3 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 = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

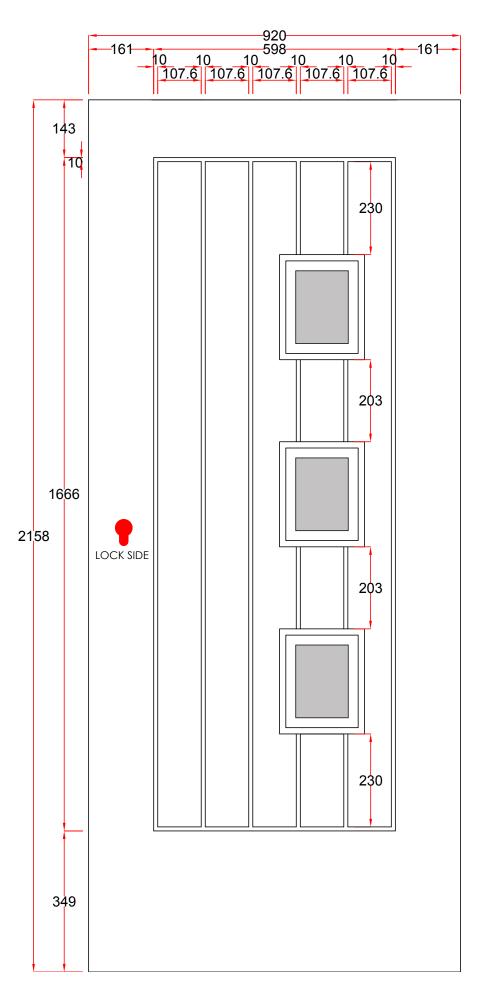
Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

### Height

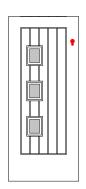
### 72 Frame low threshold open IN

## **Rotterdam RIGHT**

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



# Opposite handing Rotterdam LEFT



3 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 = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

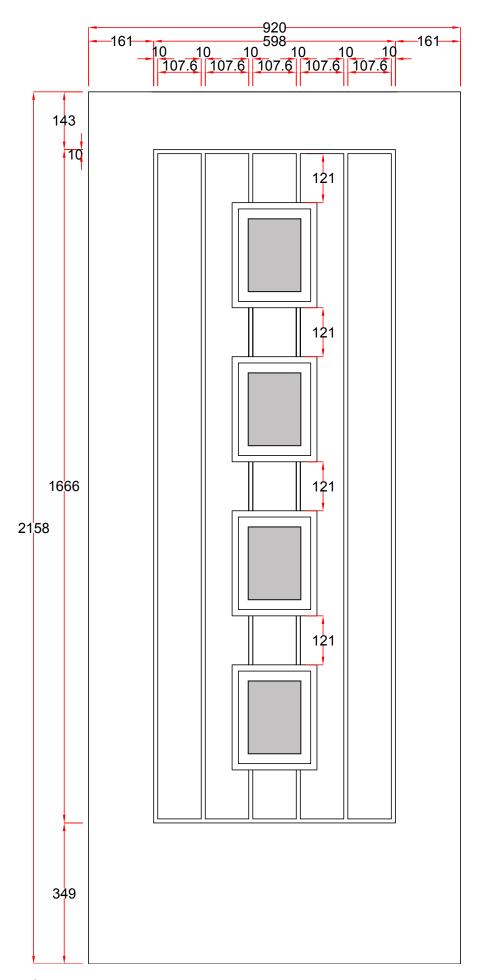
Max = (Max sash width + 56mm + 56mm) Min = (Min sash width + 56mm + 56mm)

### Height

### 72 Frame low threshold open IN



MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm 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 = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

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

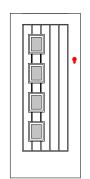
### Height

### 72 Frame low threshold open IN

## **Amsterdam RIGHT**

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm

# Opposite handing **Amsterdam LEFT**



Cassette: 0806

Glass Size: 154mm X 203mm

4 OFF

Cut Out: 179mm X 229mm

### **Profile Dimensions:**

**72 Frame:** 52mm+4mm air gap = **56mm 52 Threshold:** 32mm+4mm air gap = **36mm Ali** low threshold open **IN** = **13mm** Ali low threshold open OUT = 13mm Cill = 30mm

### Width

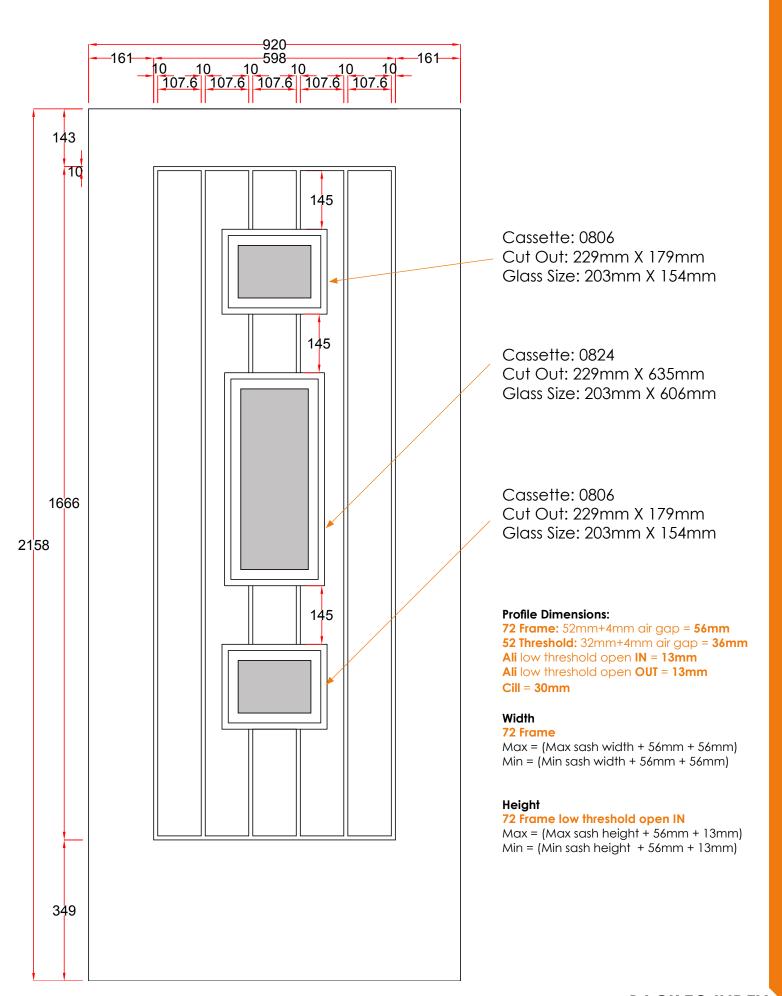
### 72 Frame

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

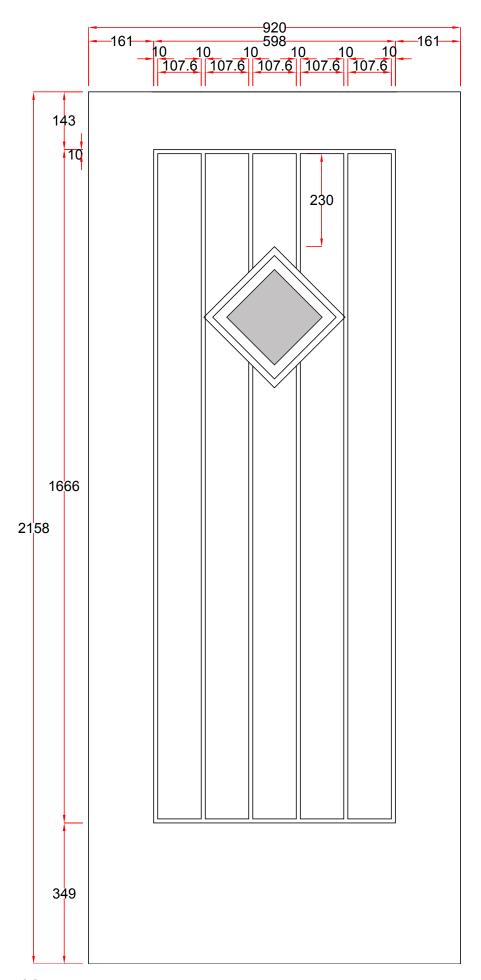
### Height

### 72 Frame low threshold open IN

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



Cassette: 0707

Cut Out: 216mm X 216mm Glass Size: 190mm X 190mm

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

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

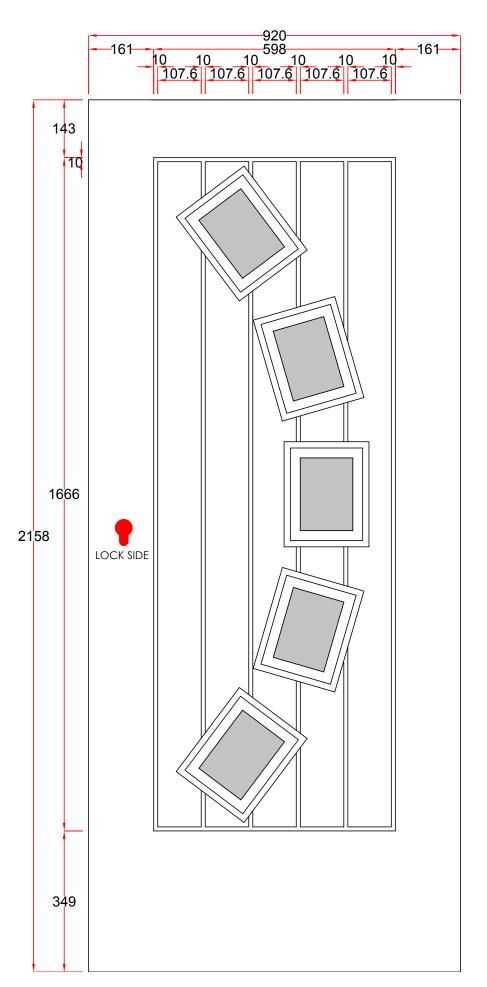
### Height

### 72 Frame low threshold open IN

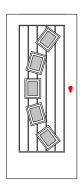
## **Porto RIGHT**

Door Blank Type:PCD

MAX SASH SIZE: 910mm X 2109mm MIN SASH SIZE: 724mm X 1866mm



# Opposite handing Porto LEFT



5 OFF

Cassette: 0806

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

### **Profile Dimensions:**

72 Frame: 52mm+4mm air gap = 56mm
52 Threshold: 32mm+4mm air gap = 36mm
Ali low threshold open IN = 13mm
Ali low threshold open OUT = 13mm
Cill = 30mm

### Width

### 72 Frame

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

### Height

### 72 Frame low threshold open IN

# Colours

# **Door and Frame Colours**



# **Door Colour Options**

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

# **Frame Colour Options**

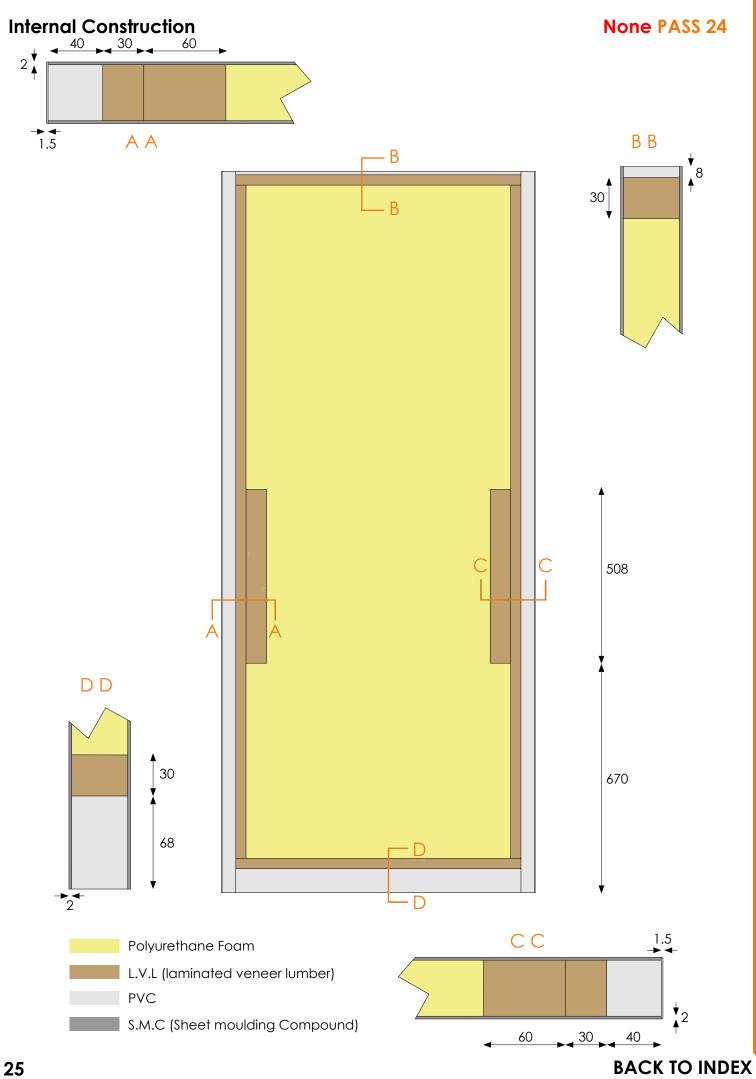
EXTERNAL INTERNAL White White Grey White

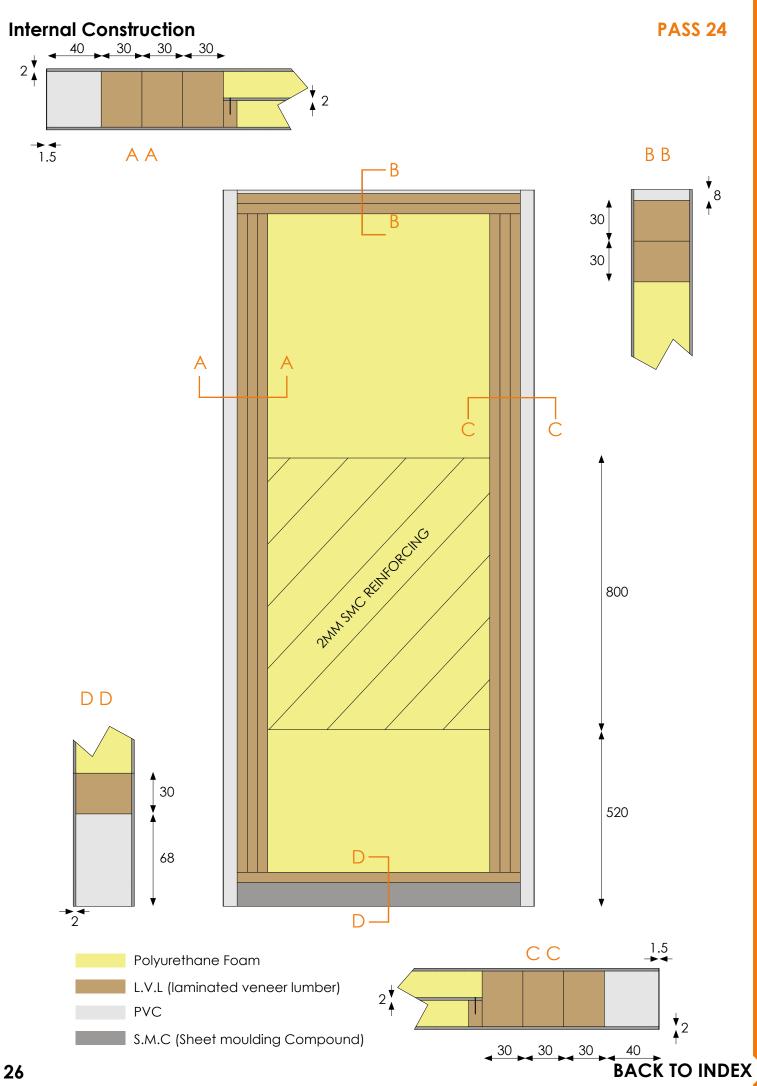
## **Furniture Matrix**

Orange box shows availability.

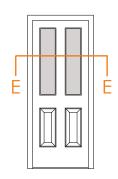
	CHROME	GRAPHITE	GOLD	BLACK	WHITE	STAINLESS	BRASS	NICKEL
LETTER PLATE								
TS008 LETTER PLATE								
LEVER HANDLE								
PAD HANDLE								
NUMERALS								
KNOCKERS								
KNOBS								
SPY HOLE								
ESCUTCHEON								
BAR HANDLE								
STANDARD HINGE								
OPTIONAL HINGE								
1 STAR CYLINDER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

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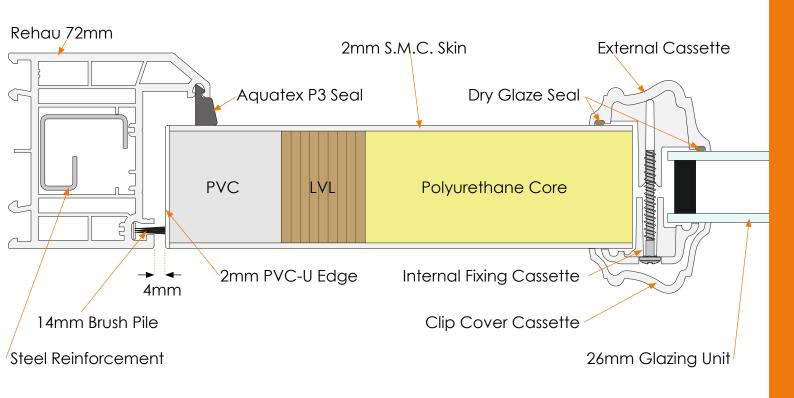


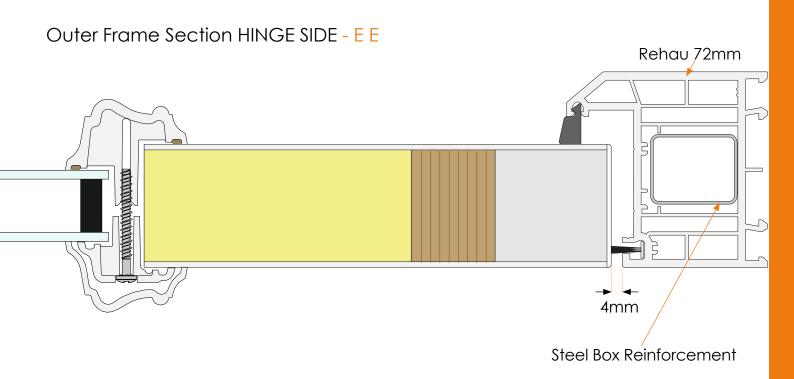


# **Outer Frame Construction Sections**

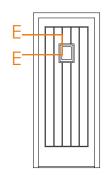


Outer Frame Section KEEP SIDE - E E

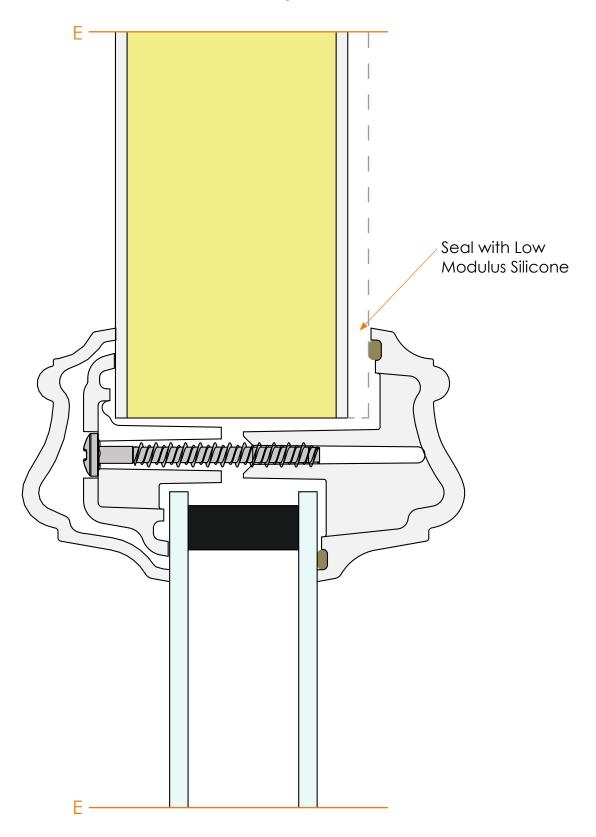




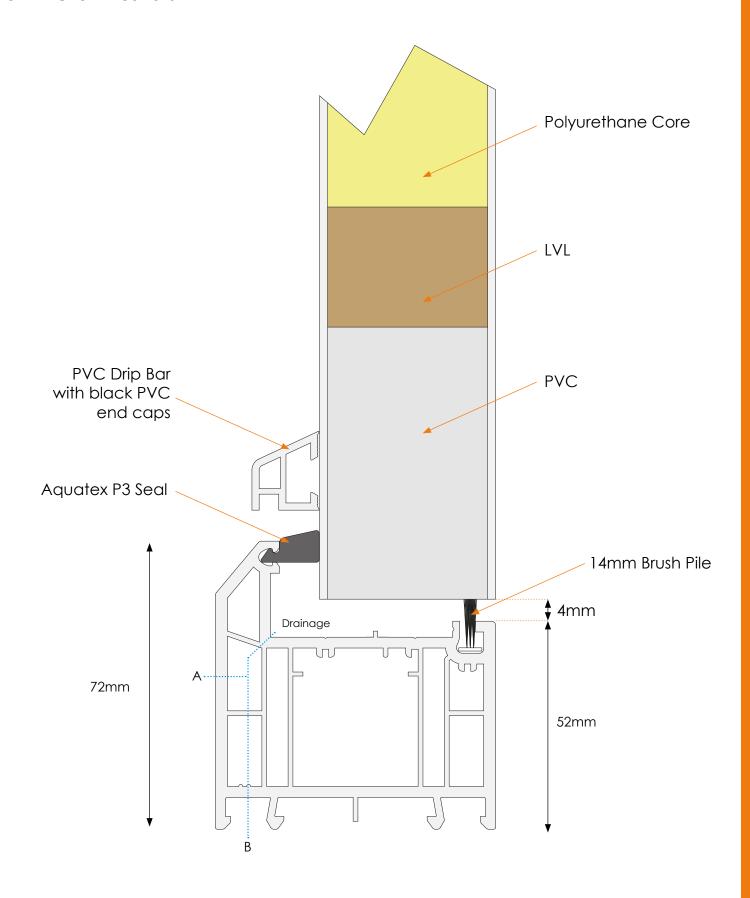
# **Construction Section Glazing**



Cassette Section in line with the moulding detail



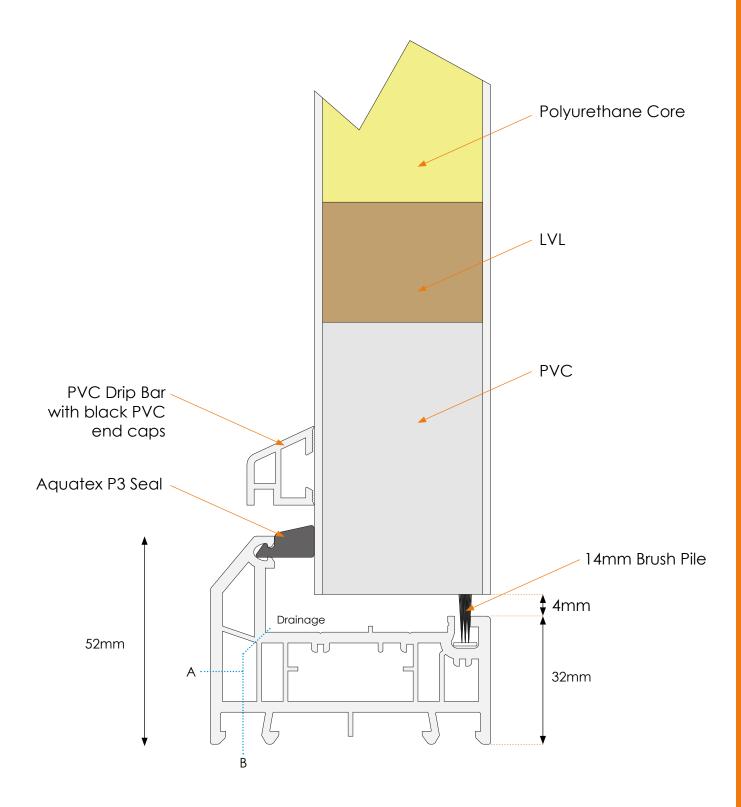
# **Full PVC-U Threshold**



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

B= Concealed Drainage

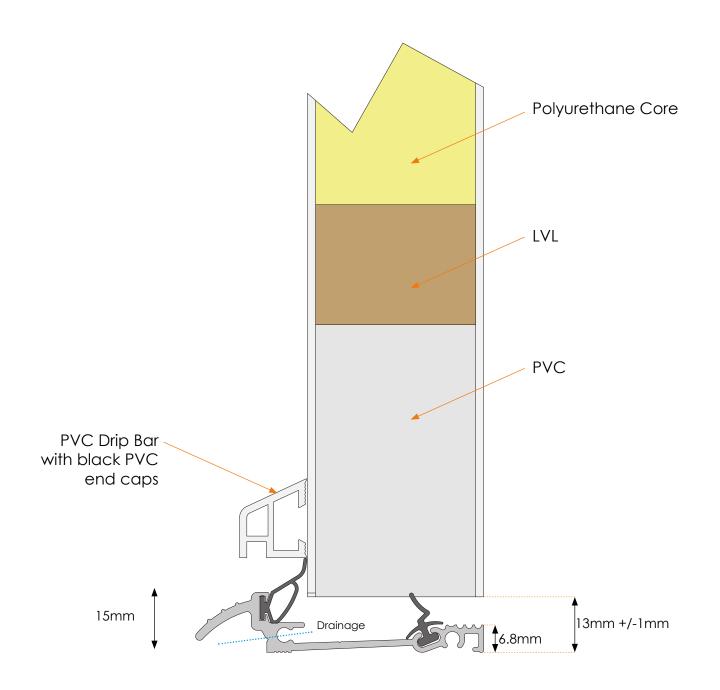
# Slim PVC-U Threshold



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

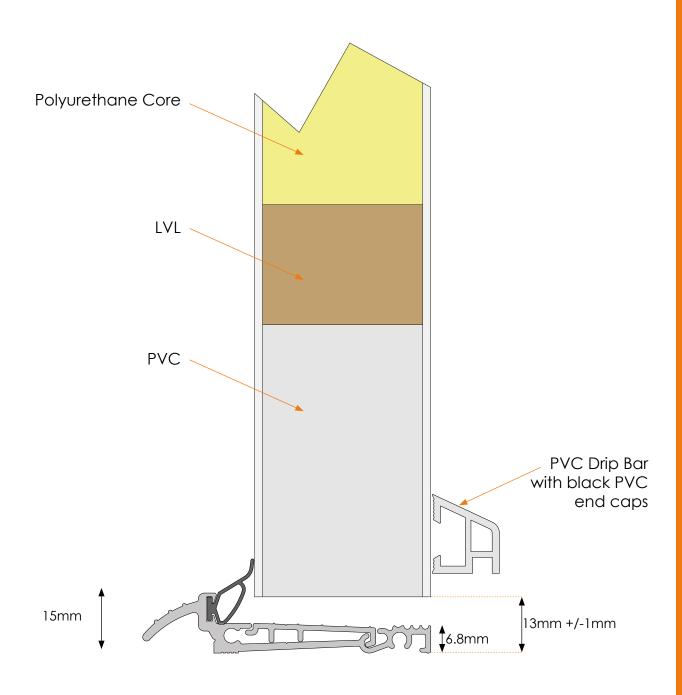
B= Concealed Drainage

# **Open IN Aluminium Threshold**

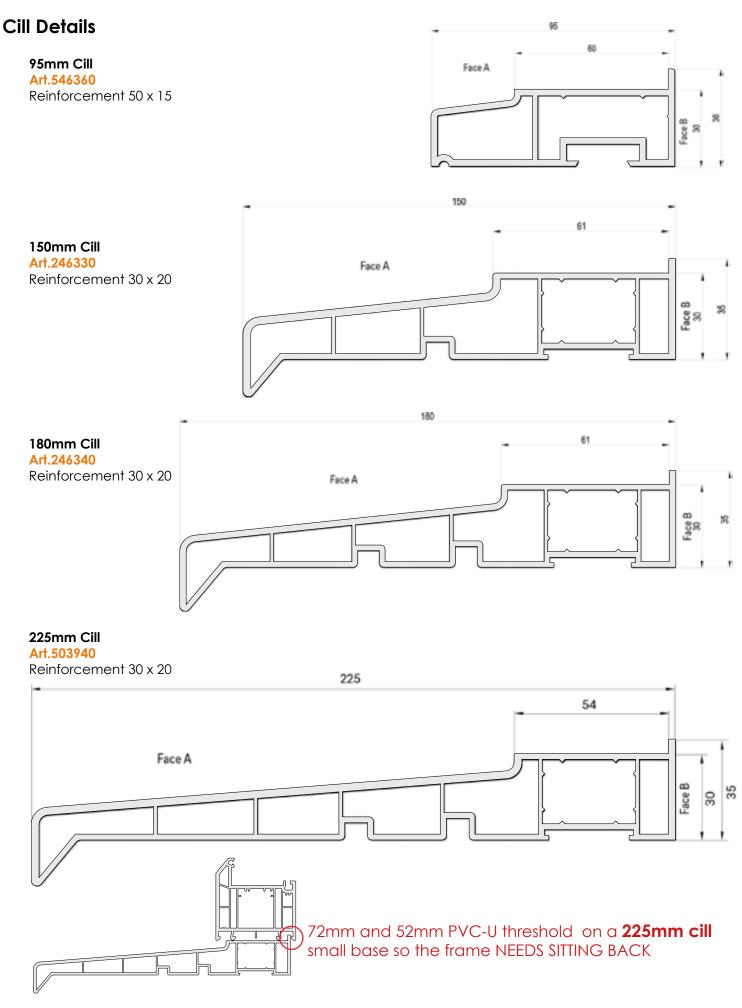


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# **Open OUT Aluminium Threshold**



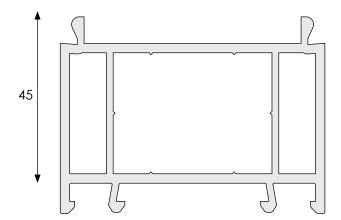
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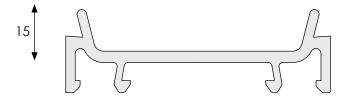
Face A & Face B used to identify foiled face

# Add On / Frame Extension

## 45mm Add On / Frame Extension

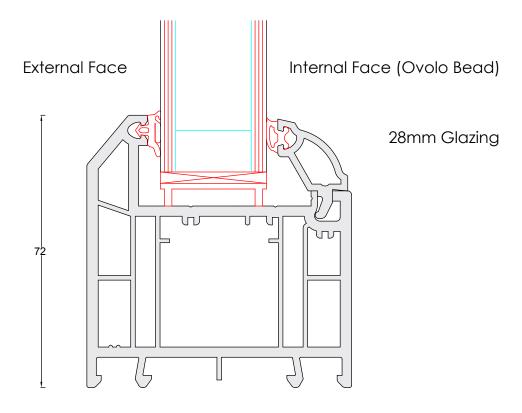


# 15mm Add On / Frame Extension

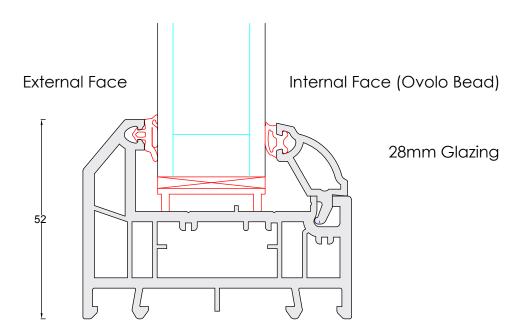


# **Side Frame Details**

## 72mm Side Frame



## **52mm Side Frame**



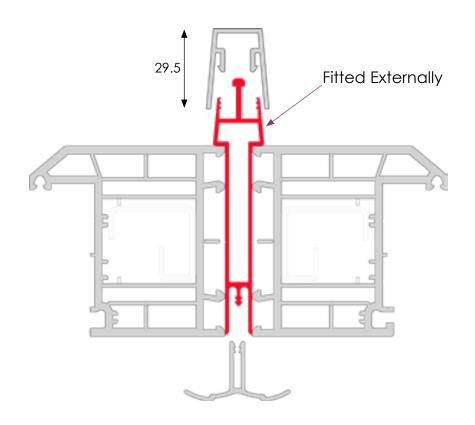
Not used as a door outer frame only used as a low PVCu threshold

# **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.





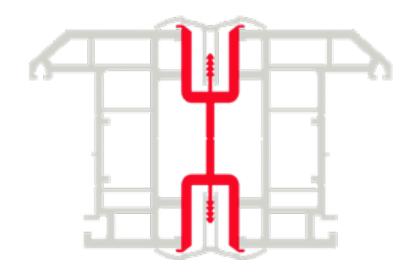
CODE IXX (cm ) IYY (cm ) DEDUCTION

WWL153 27.95 0.79 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

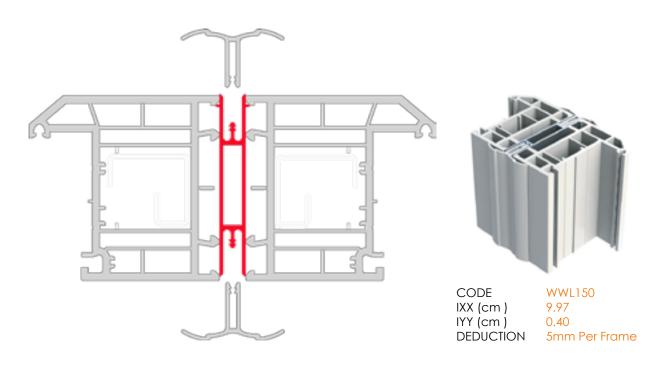
DEDUCTION 10mm Per Frame

# **Coupling Bar Detail**

# **Light Weight Coupler (10mm wide)**

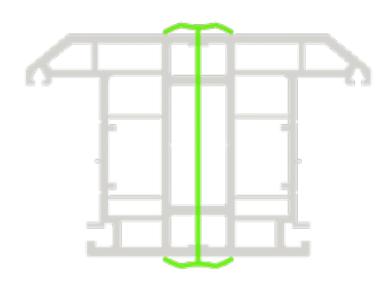
#### Flush Fitting

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 IXX (cm ) IYY (cm )

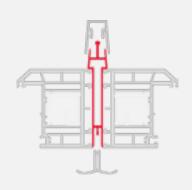
IYY (cm) 10
DEDUCTION 0.75mm Per Frame

PFC70

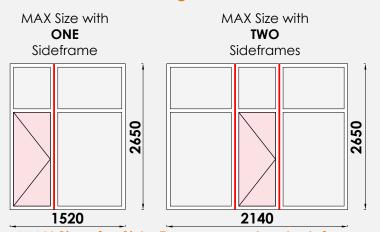
# Side Frame / Coupling Bar Max Sizes

72mm Reinforced Outer Frame to achieve 800PA.

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



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



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

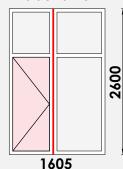
# The door size cannot be larger than 900mm x 2070mm

Medium Duty Coupler (20mm Wide)

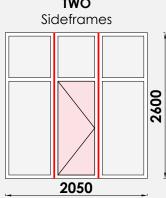
Rigidity: **High** 



MAX Size with ONE
Sideframe

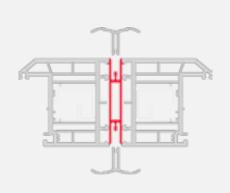


MAX Size with **TWO** 

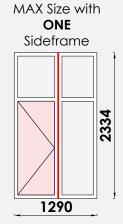


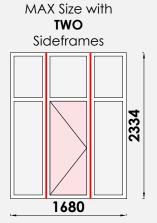
MAX Sizes for Side Frames constructed from 72mm Reinforced Outer Frame using Medium Duty Coupler

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



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



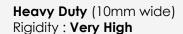


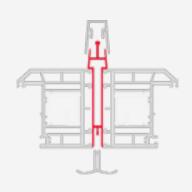
MAX Sizes for Side Frames constructed from 72mm Reinforced Outer Frame using Light Duty Coupler

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.

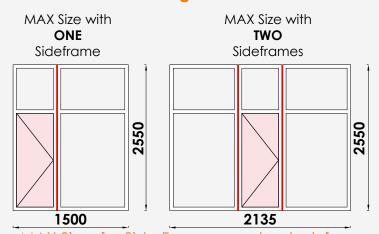
# Side Frame / Coupling Bar Max Sizes

52mm Reinforced Outer Frame to achieve 800PA.





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



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

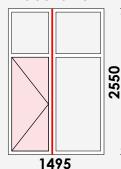
# The door size cannot be larger than 900mm x 2070mm

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

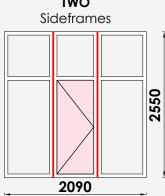
Rigidity . High



MAX Size with ONE
Sideframe

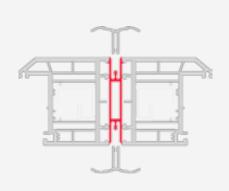


MAX Size with **TWO** 

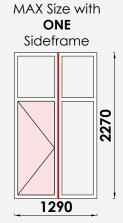


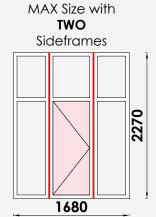
MAX Sizes for Side Frames constructed from 72mm Reinforced Outer Frame using Medium Duty Coupler

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



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





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

# 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** 

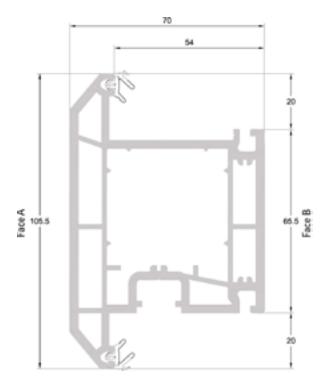
#### Sideframe with NO Midrail GROOVED

72mm outer: min width =295mm 52mm outer: min width =275mm

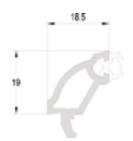
Sideframe with NO Midrail KNIFED OFF by hand

72mm outer: min width =190mm 52mm outer: min width =190mm

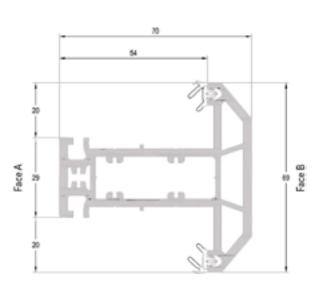
# Standard letterplates cannot be fitted into midrails.



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

# **Technical Information** 1200mm · Made from 1.5mm 316 grade stainless steel · 32mm diameter for sturdier construction ·Salt spray tested to ASTM B117 for 2,000 hours 600mm **Fitting** HIDDEN FIX BOLTTHROUGH

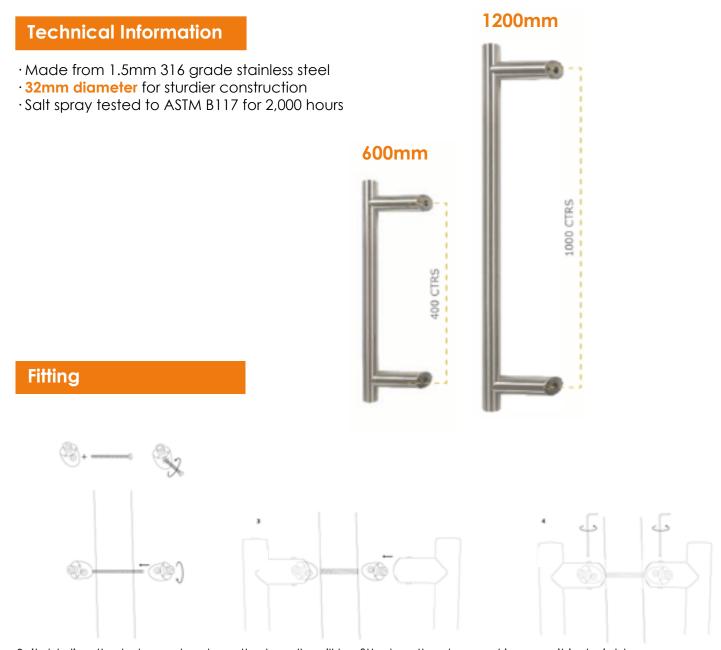
# Maintenance

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.

#### 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.

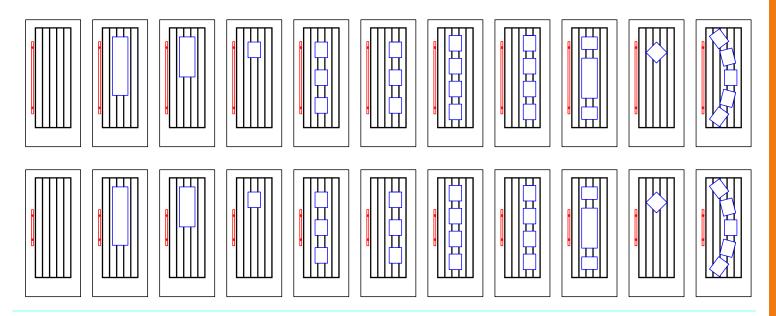
Moving parts should also be lightly lubricated at least twice a year.

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.

# **Bar Handle Fitting positions**

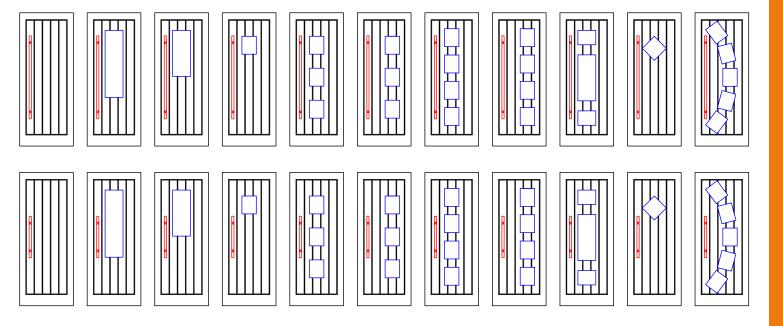
# Sash Size 914mm to 870mm

·Bar handle 115mm from the edge of the sash



# Sash Size 869mm to 776mm

· Bar handle in the centre of the first moulding.



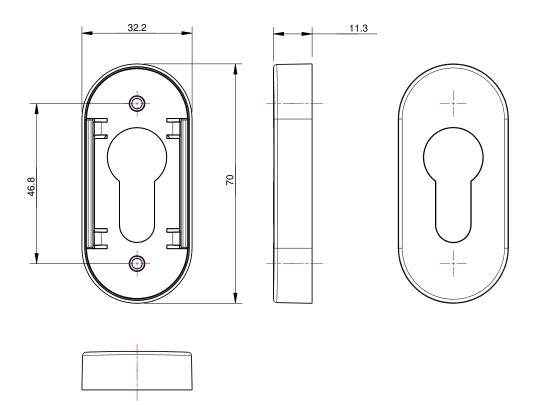
#### **Escutcheon**





# **Technical Information**

- · Made from 1.5mm 316 grade stainless steel
- ·32.2 mm wide for sturdier construction
- ·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)

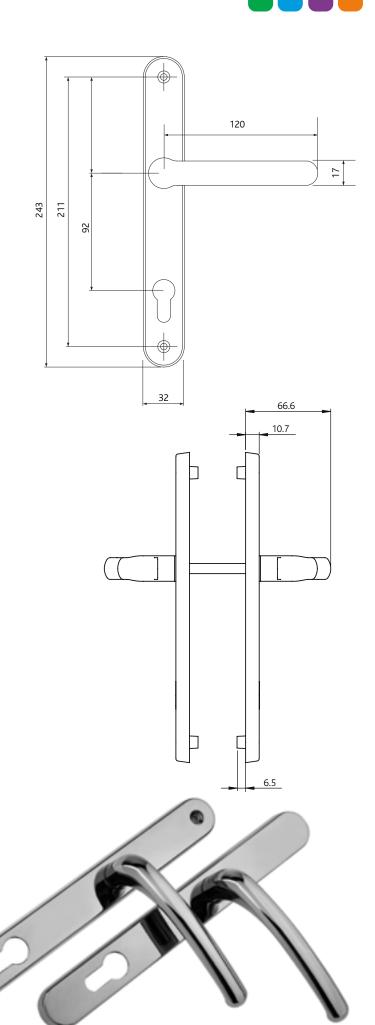
# Cylinder:

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:

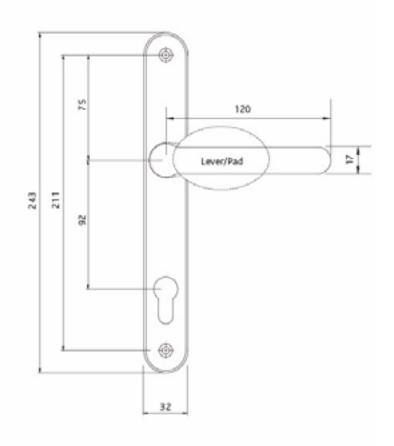
Meets the requirements of BS EN 1670:2007Grade 5 (480 hours)

#### 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



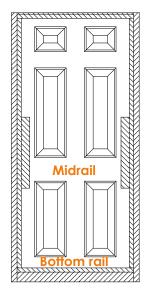
#### Maintenance

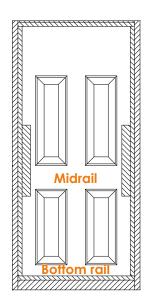
For continued protection of the quality finish and appearance, we advise routine cleaning.

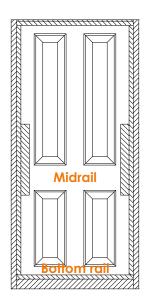
Moving parts should also be lightly lubricated at least twice a year. This procedure is particularly essential if products are used within a 25-mile radius of coastal areas or close proximity to building sites or large industrial areas, where more frequent cleaning may be required to prevent the accumulation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

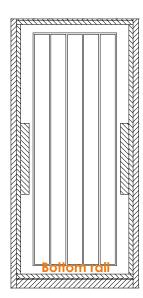


## **Letterplate Positioning**









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

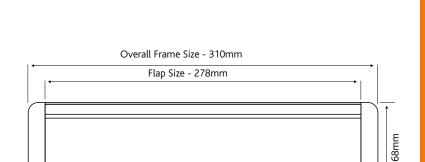
Meets the requirements of BS EN 1670:2007Grade 5 (480 hours)

#### **Operation**

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

#### **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**

#### Flap:

High quality Zinc or Aluminium

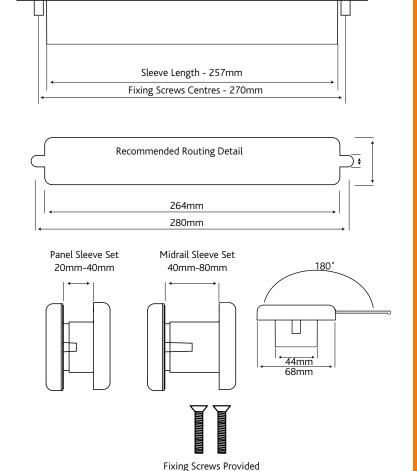
#### Frame:

Black ABS

# **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.



46mm

# 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**

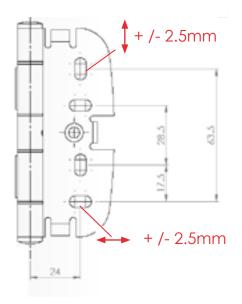
# Standard Hinge (Open in doors only)

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

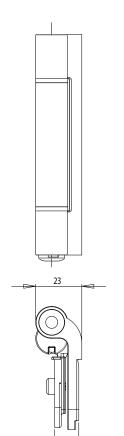
Hinge Cover: Zinc Alloy Pin: 304 Stainless Steel

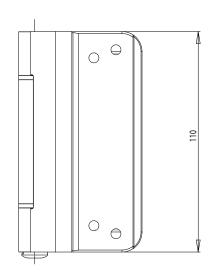
#### Maintenance

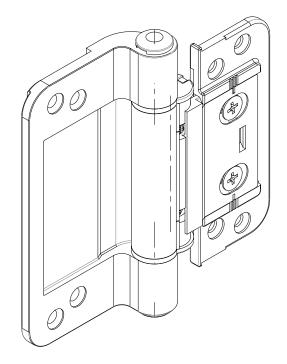
We recommend that all moving components are lubricated using a non-acidic mineral oil at least twice a year and surface cleaned with a damp cloth.

# 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)

# **Adjustment**

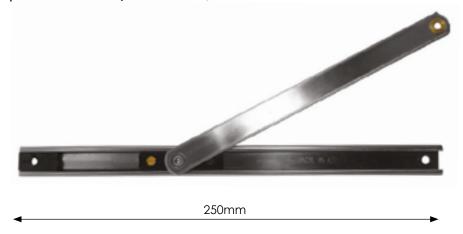
Lateral +/- 3mm Height +/- 4mm Compression +/- 1.75mm

# 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.

#### **Restrictor**

# Restrictor (Supplied loose) CODE: R/SLP10



# Installation

#### **Frame**

Fix the restrictor with two CFG43X35Z 140mm from the corner of the hinge side of the door frame.



#### **Door**

Fix the restrictor with one CFG43X35Z 60mm from the hinge side edge of the door.



# **Technical Information**

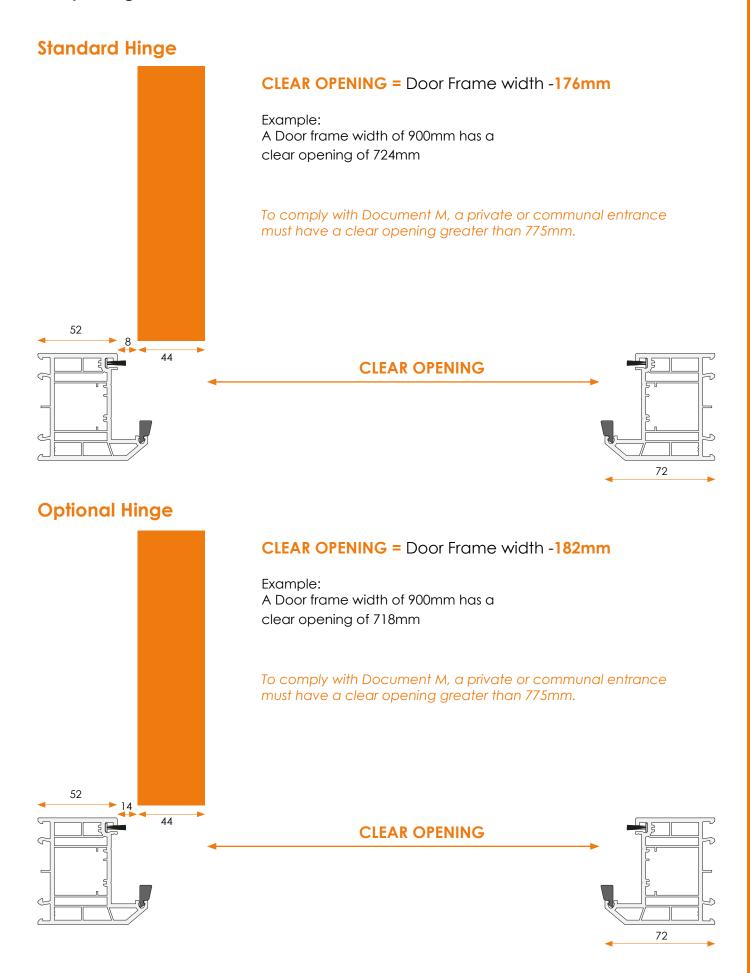
Tested to 20,000 cycles.

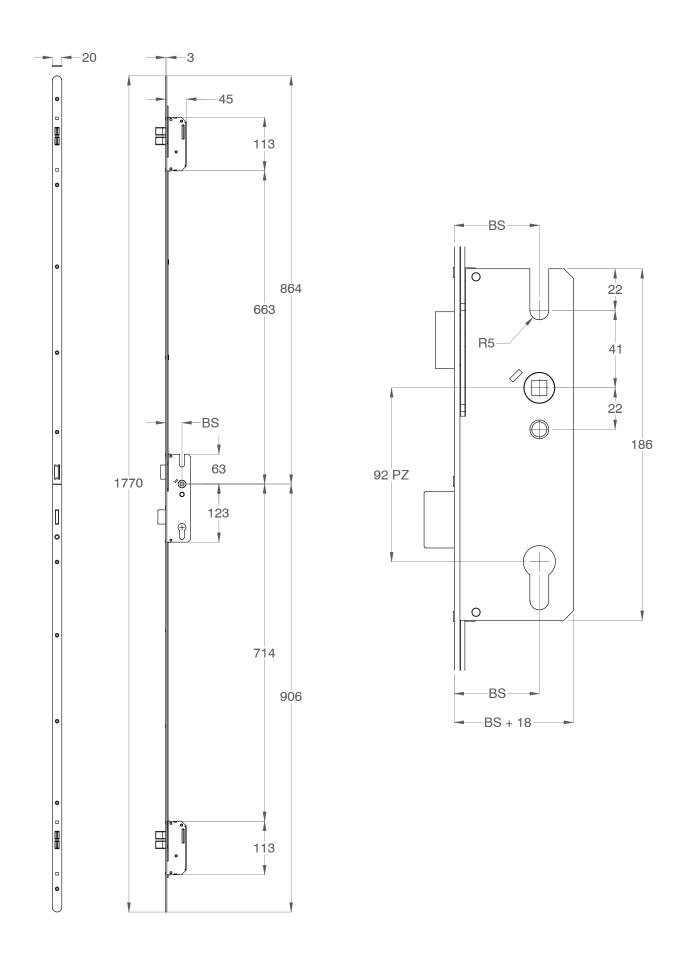
Adjustable friction using screw in friction shoe.

Features integral damper to prevent door slamming.

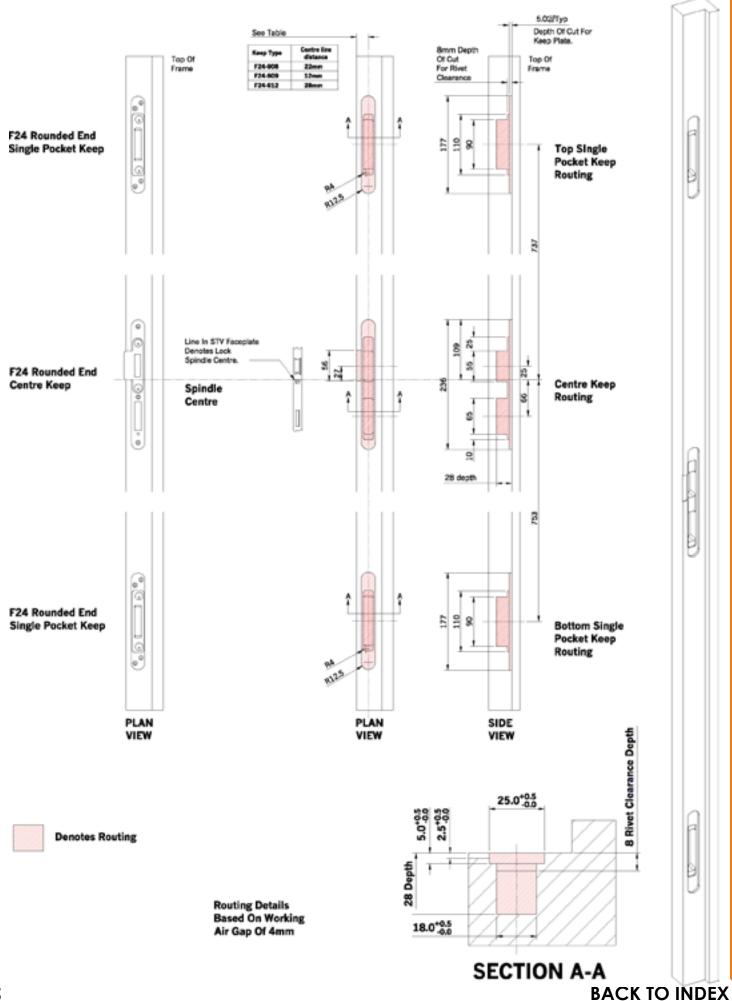
Damper offers additional friction at end of travel and will hold door open.

# **Clear Openings**





# Keeps

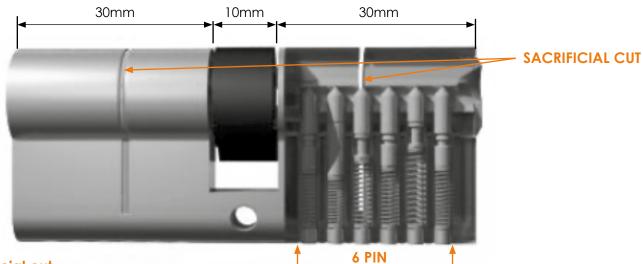


**55** 

\*Cylinder 35/35 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.

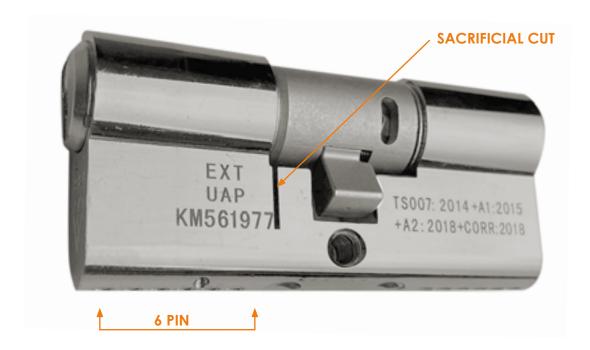
We recommend that the area highlighted with **orange** is lubricate with silicone based oil or graphite once a month or every 2 weeks in areas of high sea salt such as coastal areas.



\*\*\*\*Cylinder 35/35 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.



						₩°
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