dales collection
COMPOSITE DOORS

INSTALLATION GUIDE

Issue 3

CONTENTS

If in doubt at any stage

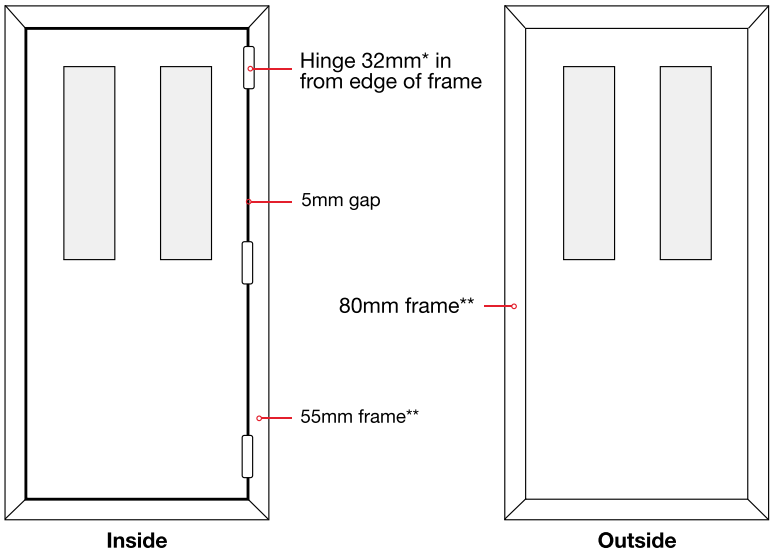
Please contact our Customer Care Team for additional support or advice

0333 321 2353

eurocell

1. SURVEY INFORMATION

Door measurements Example shows EWS031 standard outerframe



Handing viewed from outside cills at width unless horns/length specified in special instructions

* When using EWS032, intermediate hinges are set 17mm in from the edge of the outer frame.

** When using EWS032 SLIM, sizes are 15mm smaller on both internal and external faces.

Interior door leaf
Leaf width = overall door width less 120mm when using standard outerframe

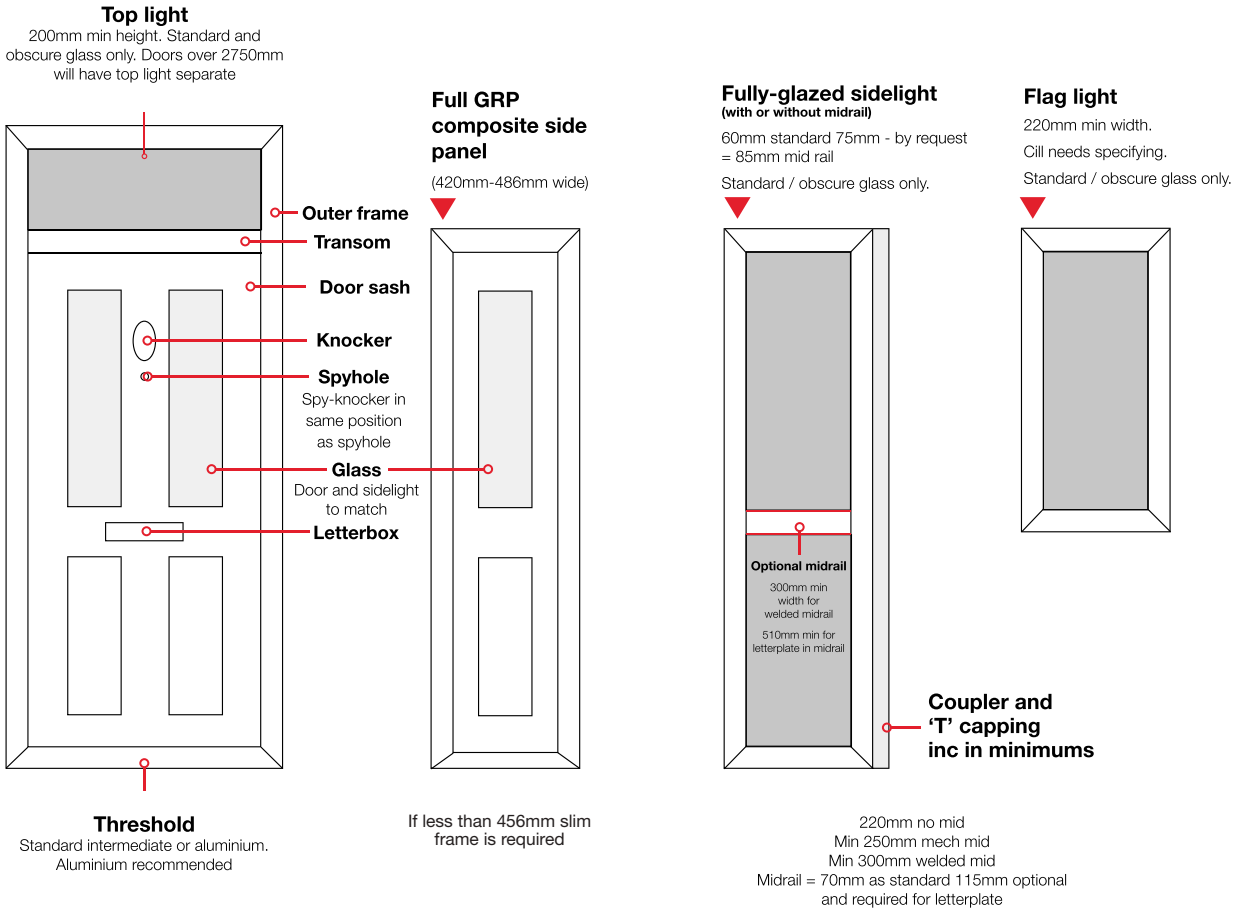
Exterior door leaf
Opening width = overall door less 180mm when using standard outerframe

When open 90°, the door edge protrudes 20mm into the opening

SURVEY INFORMATION

Fan light and side light options

(Available glazed and unglazed)



MIN & MAX DOOR SIZES

CHART A

STANDARD LOCK DOORS

BIRCHOVER, BRASSINGTON, BRETTON, BUXTON, CHELMORTON, LITTON, MALHAM, MIDDLETON, THORPE (GLAZED/SOLID), **WIRKSWORTH,**

CYLINDER PULL LOCK DOORS

BIRCHOVER, BRETTON, LITTON, MALHAM MIDDLETON (GLAZED/SOLID)

		Standard Lock Doors								Cylinder Pull Lock Doors							
		Slim Frame				Standard Frame				Slim Frame				Standard Frame			
		Width		Height		Width		Height		Width		Height		Width		Height	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Aluminium Threshold	Part M	800	1003	1930	2078	830	1033	1945	2093	810	1003	1930	2078	840	1033	1945	2093
	Low	800	1003	1930	2078	830	1033	1945	2093	810	1003	1930	2078	840	1033	1945	2093
	Open out	800	1003	1925	2076	830	1012	1940	2088	810	1003	1925	2076	840	1012	1940	2088
PVC-U Threshold	Low	800	1003	1955	2103	830	1033	1955	2118	810	1003	1955	2103	840	1033	1955	2118
	Standard	800	1003	1970	2118	830	1033	1970	2133	810	1003	1970	2118	840	1033	1970	2133

CHART B

STANDARD LOCK DOORS

ASHBOURNE, BRADBOURNE, CHATSWORTH, CROMFORD, HATHERSAGE, NEWHAVEN (GLASS CENTRE/SOLID), **MIDDLETON** (HALF GLAZED), **MILLDALE, PILSLEY, WINSTER**

CYLINDER PULL LOCK DOORS

BRASSINGTON, NEWHAVEN (GLASS CENTRE/SOLID), **THORPE** (GLAZED/SOLID)

		Standard Lock Doors								Cylinder Pull Lock Doors							
		Slim Frame				Standard Frame				Slim Frame				Standard Frame			
		Width		Height		Width		Height		Width		Height		Width		Height	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Aluminium Threshold	Part M	835	1003	1930	2078	865	1033	1945	2093	840	1003	1930	2078	870	1033	1945	2093
	Low	835	1003	1930	2078	865	1033	1945	2093	840	1003	1930	2078	870	1033	1945	2093
	Open out	835	1003	1925	2076	865	1012	1940	2088	840	1003	1925	2076	870	1012	1940	2088
PVC-U Threshold	Low	835	1003	1955	2103	865	1033	1955	2118	840	1003	1955	2103	870	1033	1955	2118
	Standard	835	1003	1970	2118	865	1033	1970	2133	840	1003	1970	2118	870	1033	1970	2133

CHART C

STANDARD LOCK DOORS

ELTON, HARTINGTON (GLAZED/SOLID)

CYLINDER PULL LOCK DOORS

ASHBOURNE, BRADBOURNE, CHELMORTON, CHATSWORTH, CROMFORD, ELTON, HARTNGTON (GLAZED/SOLID), **HATHERSAGE, MIDDLETON** (HALF GLAZED), **MILLDALE, PILSLEY, WINSTER, WIRKSWORTH**

		Standard Lock Doors								Cylinder Pull Lock Doors							
		Slim Frame				Standard Frame				Slim Frame				Standard Frame			
		Width		Height		Width		Height		Width		Height		Width		Height	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Aluminium Threshold	Part M	853	1003	1930	2078	883	1033	1945	2093	875	1003	1930	2078	905	1033	1945	2093
	Low	853	1003	1930	2078	883	1033	1945	2093	875	1003	1930	2078	905	1033	1945	2093
	Open out	853	1003	1925	2076	883	1012	1940	2088	875	1003	1925	2076	905	1012	1940	2088
PVC-U Threshold	Low	853	1003	1955	2103	883	1033	1955	2118	875	1003	1955	2103	905	1033	1955	2118
	Standard	853	1003	1970	2118	883	1033	1970	2133	875	1003	1970	2118	905	1033	1970	2133

MIN & MAX DOOR SIZES

CHART D

STANDARD LOCK DOORS

NEWHAVEN (GLASS LEFT/RIGHT)

		Slim Frame				Standard Frame			
		Width		Height		Width		Height	
		Min	Max	Min	Max	Min	Max	Min	Max
Aluminium Threshold	**Part M**	855	**1003**	1930	**2078**	885	**1033**	1945	**2093**
	Low	855	**1003**	**1930**	**2078**	885	**1033**	1945	**2093**
	Open out	855	**1003**	**1925**	**2076**	885	**1012**	1940	**2088**
PVC-U Threshold	**Low**	855	**1003**	**1955**	**2103**	885	**1033**	1955	**2118**
	Standard	855	**1003**	**1970**	**2118**	885	**1033**	1970	**2133**

CYLINDER PULL LOCK DOORS

NEWHAVEN (GLASS LEFT/RIGHT)

	Slim Frame				Standard Frame			
	Width		Height		Width		Height	
	Min	Max	Min	Max	Min	Max	Min	Max
Part M	890	**1003**	1930	**2078**	920	**1033**	1945	**2093**
Low	890	**1003**	**1930**	**2078**	920	**1033**	1945	**2093**
Open out	890	**1003**	**1925**	**2076**	920	**1012**	1940	**2088**
Low	890	**1003**	**1955**	**2103**	920	**1033**	1955	**2118**
Standard	890	**1003**	**1970**	**2118**	920	**1033**	1970	**2133**

SIDE PANELS

BRADBOURNE, CHATSWORTH, NEWHAVEN

	Slim Frame				Standard Frame			
	Width		Height		Width		Height	
	Min	Max	Min	Max	Min	Max	Min	Max
Dimensions	420	**456**	1936	**2119**	450	**486**	1966	**2149**

Including aluminium coupler (10mm)

2. PRE-INSTALLATION

PRE-INSTALLATION CHECK

Please see the required check list

Prior to removing the existing door the size, type and condition of all doorsets should be checked against both original order size and the actual aperture.

Care should be taken to examine the Door leaf and frame for damage prior to installation as no responsibility can be accepted once the door has been installed.

The door-set specification including hardware, glazing and door style should be checked against the order acknowledgement. Before discarding any packaging, check for any components and check that all ancillary components are accounted for. Loose components are handles, hinge caps, cill end caps, Thumbturn cylinder, numerals door knobs etc.

Side/Top/Wing lights/Combination top light frames

These are supplied temporary glazed and it is expected that they are deglazed, fixings installed and reglazed.

Correct coupling of frames using the aluminium structural coupler is essential and is shown in detail at the bottom of page 9, quick grip clamps should be used to keep frames tight together while inserting bay post fixings.

PRE-INSTALLATION CHECKLIST FOR INSTALLERS

- [ ] Door set is as ordered
- [ ] Door set will fit opening allowing for levelling
- [ ] No visible damage to slab or frame
- [ ] No cracks to welds
- [ ] Glass type as specified
- [ ] No cracks, scratches to glass
- [ ] Loose cill is correct length and colour
- [ ] Handles as specified in ancillary pack
- [ ] Keys screwed to frame for key/key
- [ ] Hinge caps in ancillary pack
- [ ] Thumb-turn cylinder (if required in ancillary pack
- [ ] Cill end caps (if applicable) in ancillary pack
- [ ] Pull Knob (if required) in ancillary pack
- [ ] Numerals (if requested) in ancillary pack

If there are any issues with the door following the pre-installation check, please contact your supplying branch.

IMPORTANT INFORMATION

Solvents and abrasive cleaners will damage the surface finish so should not be used in any circumstances. See care and maintenance information on page 20 for guidance.

The hinges are adjustable but are only for minor corrections and will not compensate for incorrect installation.
After removal of the old door the opening must be thoroughly cleaned and the door leaf must be protected from falling debris during installation.

Please Note:
Failure to install your door set and all associated items in strict accordance with these instructions may invalidate any future warranty claim. Select fixings that are appropriate for the substrate the frame is to be fitted to, this installation guide assumes substrate is brick or concrete block; for timber frame buildings refer to system provider's detail for recommended fixings.

It is essential that the cylinder guard is fitted as this prevents the barrel from being snapped. The cylinder guard also forms part of the 3 star security package.

PRE-INSTALLATION

2.1

Please take the following into account before starting the installation
Doorsets should be installed using the air gaps between the door leaf and frame as a guide, there should be an equal 4-5mm across the head and down both sides Cleats/straps and Fisher type screw/plug fixings are not suitable, self-drilling type fixings (Rapier) should be used and the frame should be pilot drilled prior to drilling brickwork

Minimum fixing lengths
Large outer 80mm Frame = 120mm
Intermediate outer 65mm Frame = 100mm

The fixing length should be increased if gaps between frame and brickwork are more than 5-10mm

IMPORTANT INFO

The frame should never be pushed tight back to the plaster line as this can lead to the door being fitted in twist, always allow 10mm clearance for in/out frame adjustment.

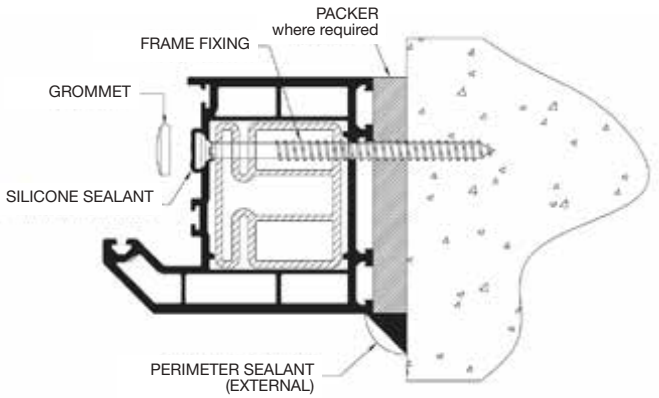
Care should be taken when propping the door leaf to achieve the first fixing, timber should be used to avoid chipping of the bottom edge.

All measurements are a guide only and care should be taken to avoid mortar joints as all fixings need to be secure. Expanding foam is not a substitute as it will not support the weight of a door leaf.

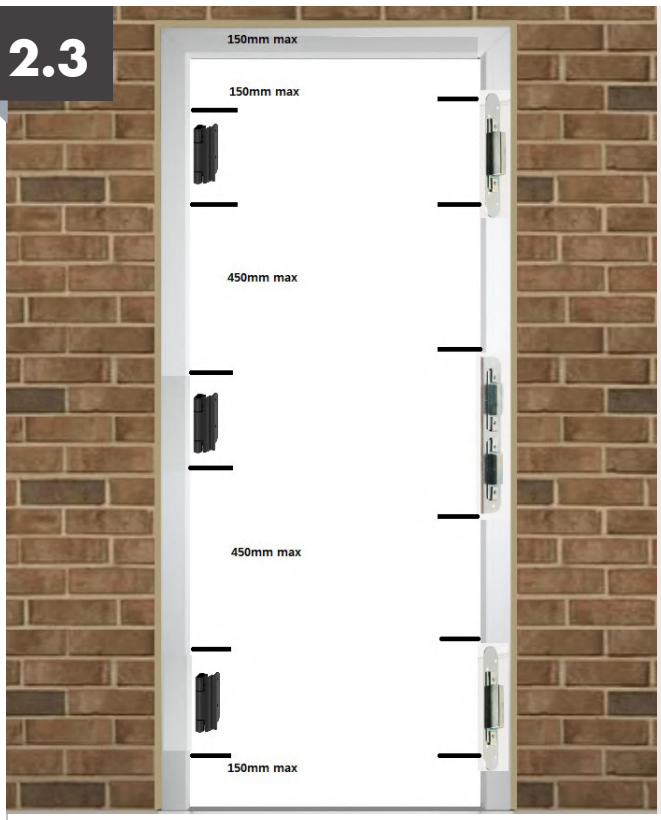
2.2

Fixing Positions Recommended

Generally, all three sides of the frame shall be secured, however it is understood that dependant on the lintel used at the head, fixing at this point is not always possible. If fixing is not possible, the head of the frame should be foamed. There should be minimum of 6 fixing points to each jamb, with each fixing point being above and below a hinge or keep position. Corner fixings should be maximum 150mm away from the external corner. Intermediate fixings should be at centres no greater than 450mm.

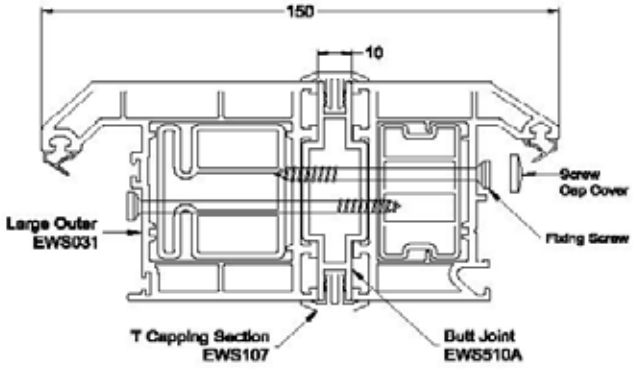


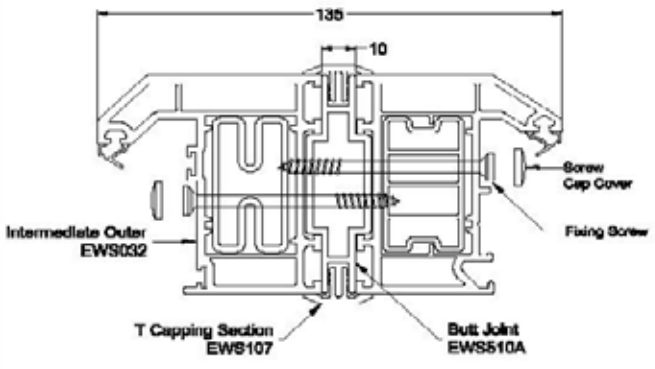
2.3



Fixing Positions Recommended
Fixing position detail Side/Top/ Wing lights/ GRP side panels (if supplied)

These should be checked for size and damage prior to installation as no responsibility can be accepted once installed. A 10mm aluminium coupler is supplied, either EWS 510A (as drawing) or AE10) and this should be fixed as below. If you supply your own a suitable structural aluminium coupler must be installed, failure to do so will invalidate the warranty. In all instances fixings used should be bay post fixings to suit profile depth, quick grip clamps should be used at each fixing point to ensure frames do not distort.





Note: Screws to be fixed 100mm from each corner and a maximum of 300mm centers.

3. INSTALLATION - DOOR AND FRAME - WITH CILL

3.0

The cill/aluminium threshold should be bedded onto the brickwork/stone cill using silicone ensuring it does not block the drain holes in the threshold.

Once the threshold/cill is level raise the hinge side leg/jam using a 4mm packer.

Run a small line of silicone along the cill. This ensures a seal between the cill and door threshold.

ESSENTIAL

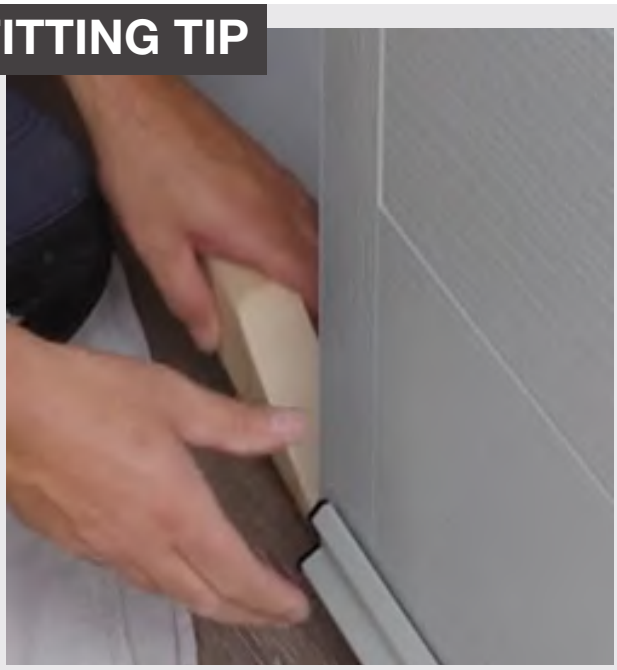
Always put a **4mm packer** under the hinge side leg. If the lock side needs lifting or dropping to square up the head you now have some room for that adjustment. Also seal with silicone between the threshold and cill to stop water ingress.

INSTALLATION - DOOR AND FRAME

3.1

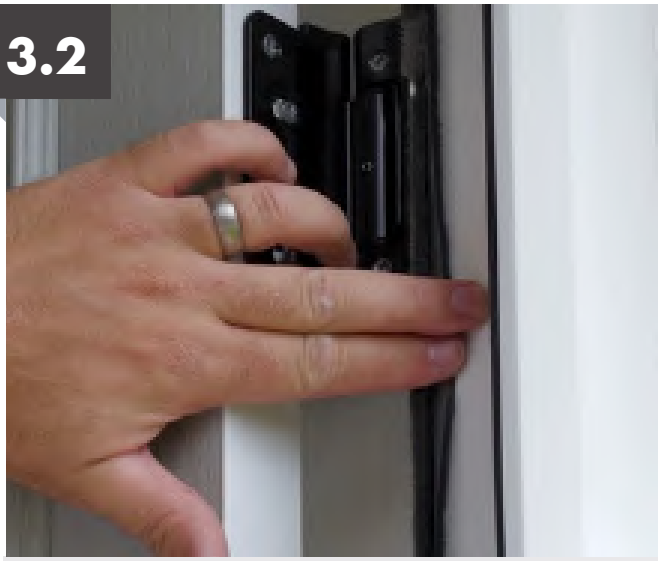
Install the hinge side of the frame plumb and level using a 6ft level/straight edge ensuring that the frame is packed (if required) to allow the head to be fitted level. Ensuring the hinges are centre, make sure you have a 4-5mm equal air gap between door leaf and frame from top to bottom.

FITTING TIP



Using a wedge will help take the weight of the door

3.2



First fixing position **MUST** be two fingers below the top hinge. **Drill a 5mm pilot hole for each fixing before fixing to brickwork to avoid cracking the frame.**

3.3

Using an 1800mm level, check the frame is plum

FITTING TIP

Remove the rubber from your level and get it right into the top when squaring up, you may find the frame is bending inwards in the top corner. This bending in of the frame causes issues with the way the sash hangs square.

3.4

Install next fixings **below** the middle and bottom hinges, ensuring that a 5mm pilot hole has been drilled before fixing to brickwork.

3.5

Place the 1800mm level on the frame and ensure that the frame and the level meet the entire way down the frame

3.6

Using a crowbar to move the frame over, insert a 4mm/5mm packer at the top of the frame. This is to stop the frame from pulling over when the next phase of fixings are installed. This ensures an equal air gap between the two brush piles.

3.7

Pull the door slab up to the brush pile ensuring that it touches top and bottom

3.8

Install your first fixing on the latch side, fixing can be made either above or below the latch. Remembering to drill a 5mm pilot hole in the frame before fixing to the brickwork

3.9

Bring the door slab to the fame checking that it touches top and bottom before the bottom fixing is installed

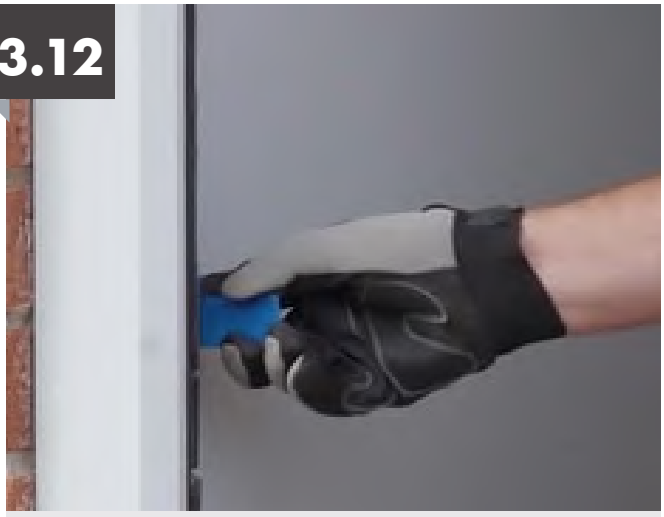
3.10

Install the bottom fixing, again remembering to drill a 5mm pilot hole in the frame before fixing to the brickwork

3.11

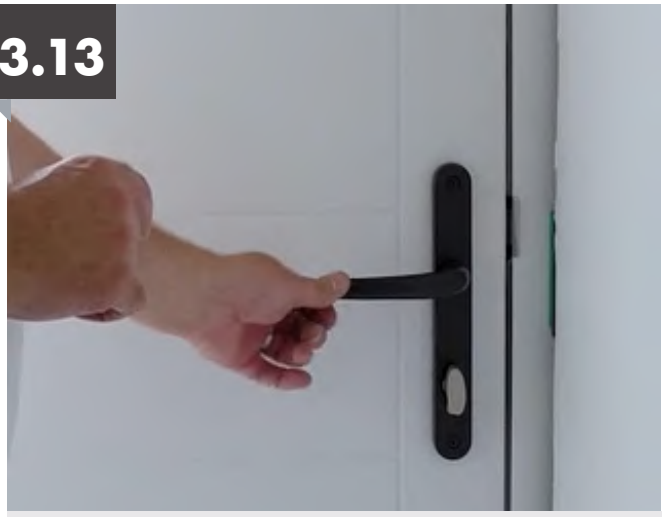
Bring the door slab to the fame checking that it touches top and bottom before the centre fixing is installed

3.12



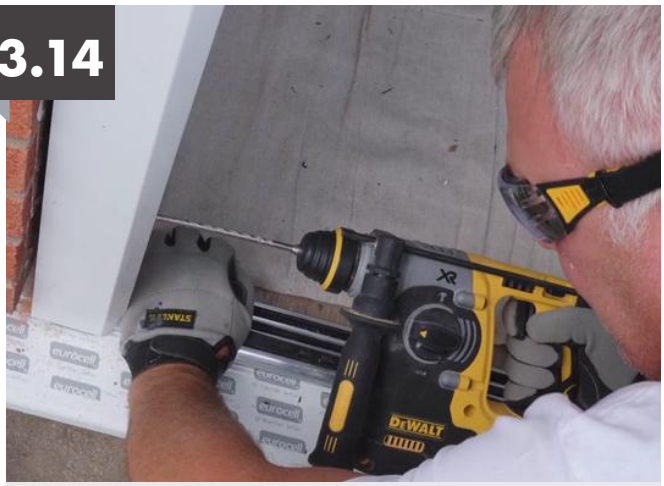
For the centre fixing on the latch side, place a 2mm packer between the frame and the plaster line, this will cause the frame to slightly bow outwards, which allows the centre catch to click in and the mechanism smoother to operate. Install the centre fixing remembering the 5mm pilot hole

3.13



Now the centre fixing is in place, close the door to check the door closes and latches correctly.

3.14



Install the remaining fixings, on both the hinge and keep side of the door, there should be 6 fixings in total on either side, with a fixing above and below each hinge and keep. Ensure a 5mm pilot hole is drilled in the frame prior to fixing to the brickwork.

3.15

Check the tension on the door, pull the door closed so it latches and ensure there is no movement on the door. If you need to adjust the centre latch, undo the two screws which will allow for the centre catch to be moved in or out. Once adjustments have been made, repeat the process of closing and latching the door until there is no movement on the centre fixing.

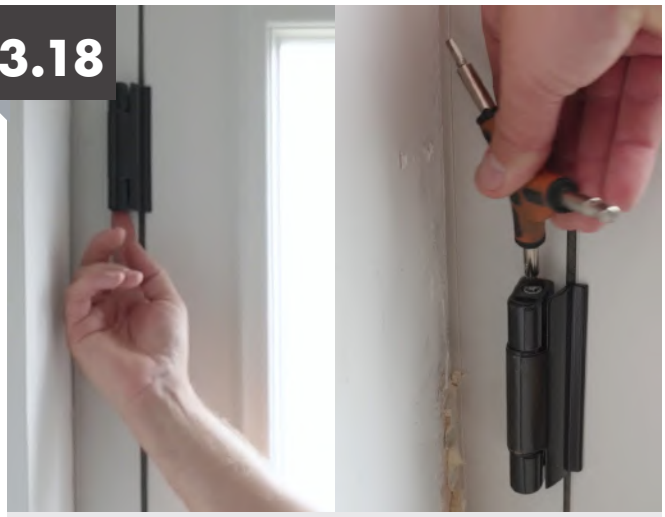
3.16

With the door closed, check the top and bottom of the door to ensure there is no movement. If you need to adjust the top and bottom latches, they can be adjusted using a 4mm allen key

3.17

If hinge adjustment is required, the hinge can be moved left to right using the side hinge. Quarter of a turn should be sufficient, ensure that the top and bottom are both adjusted inline with each other on each hinge

3.18



The hinges can also be adjusted up and down. Ensure the allen key underneath is fully loosened off, to adjust the hinge up or down, use the top allen key, you need to adjust all three hinges by the same number of turns, once in the correct position, tighten all the allen keys underneath to lock in place.

3.19

Expanding foam should now be applied between the frame and brickwork ensuring only enough is used to avoid distorting the frame when it expands. Once the foam has dried it can be cut away and perimeter sealing can be carried out. Ensure the frame is free from dust and debris before applying silicone. Do not seal across the front of the aluminium threshold as the drain holes are concealed behind the front ramp.

3.20

Fit the finishing trim

4. INSTALLATION - HARDWARE

HANDLES & KEEPS

Important information
Lever type handles and keeps should only ever be fitted/adjusted using hand held screwdrivers, **Cordless/Torque drivers must not be used.**

NUMERALS

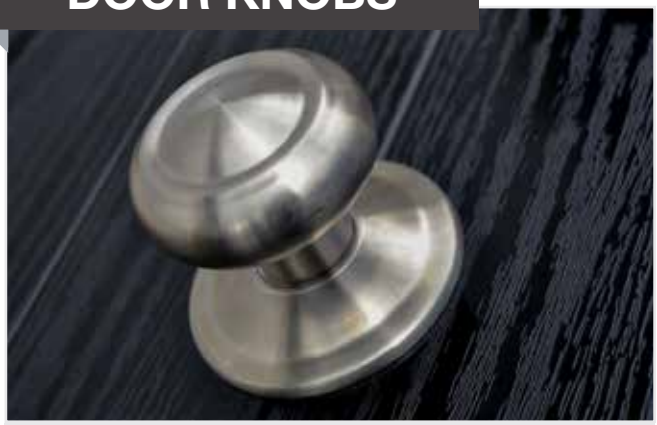
If Numerals have been supplied the screw holes should be marked and pilot drilled using a 2mm drill bit.

If installing your own numerals/fixings they should be high quality exterior grade. Steel plated numerals and fixings will rust and damage the surface of the door.

ESCUTCHEONS

These should be fitted using the screws provided and pilot drilled using a 2mm drill bit. Never drill more than 10mm into the door leaf as damage to the lock can occur if you drill deeper.

DOOR KNOBS



Single fitted lock side can be screwed to door using plate supplied pilot drilling with a 1.5mm bit. Bolt will need to be cut to attach to handle/plate.

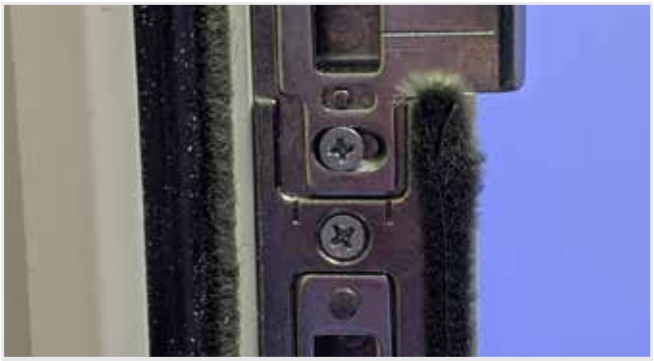
Single/double centre fixed must be bolted through the door. 8mm drill bit required and bolt will need to be liquid nailed into knob/nut, **do not over tighten** as this will compress the foam core and indent the skin.

5. HARDWARE - ADJUSTMENT

ADJUSTMENTS

Failure to adjust the keeps correctly after installation can allow thermal movement in the door leaf on warm days and may cause locking issues.

The latch plate on the centre keep should now be adjusted so that the door closes on the latch without using excessive force, the sash should compress the gasket slightly, not clamp it.

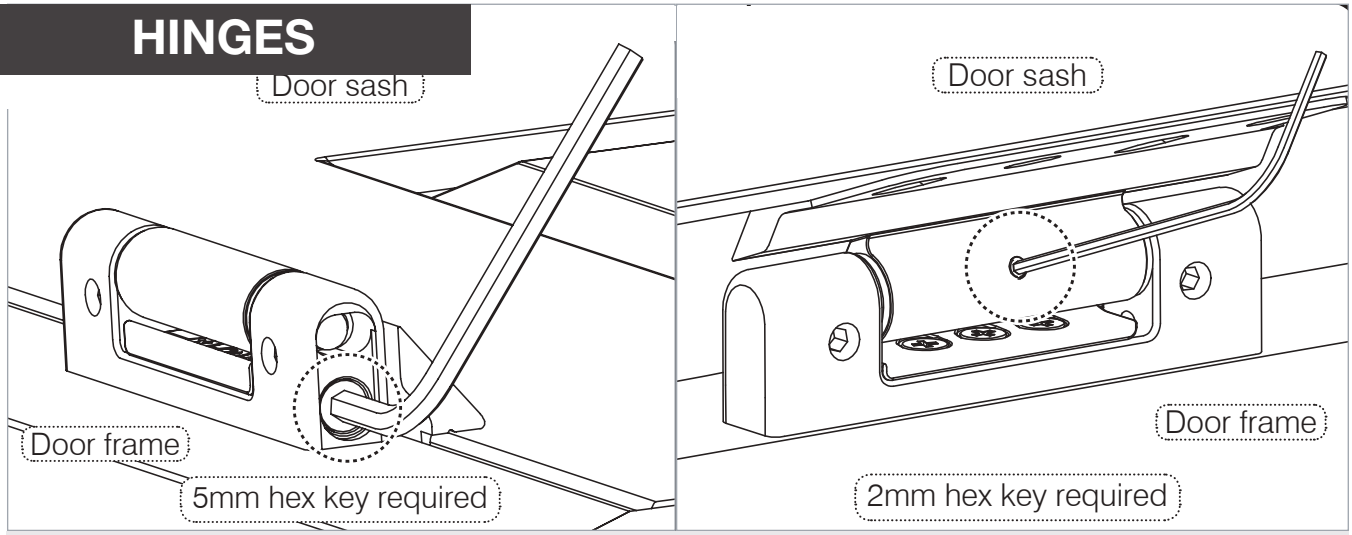


Loosen the adjuster plate by turning the screws anti clockwise one/two turns maximum. Move the latch plate in 1 to 2mm and re tighten screws, close the door using one finger against the door leaf, it should latch easily without any ‘rattle’. If it will not close, back the plate off slightly, if it ‘rattles’ move plate further in and carry out check again.

The top and bottom keeps can now be adjusted in the same way but the hooks should hit the plates so that they just pull the sash into the gasket slightly.

5. HARDWARE - ADJUSTMENT

HINGES



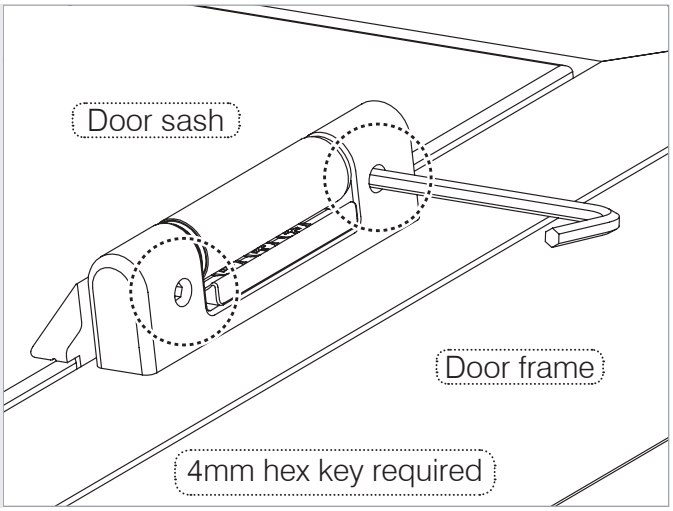
Vertical Adjustment

For vertical adjustment, insert a 5mm hex key into the vertical adjuster screw located at the top of the hinge. This screw allows up to 4mm of upwards adjustment. Adjust all hinges equally and fit the end caps.

Open door and using a 2mm hex key, tighten security screw on all hinges.

Lateral Adjustment

For lateral adjustment, insert a 4mm hex key into the lateral adjuster screws, located on the side
of the frame part. You will need to adjust both screws equally.



6. POST-INSTALLATION - CHECKLIST FOR HOMEOWNER

POST-INSTALLATION CHECKLIST

- ☐ Door set installed plumb, square and vertical
- ☐ Air gaps between slab and frame are 5mm
- ☐ No air gaps between door leaf and frame seal
- ☐ No scraping/rubbing between hooks and keeps
- ☐ Door locks and unlocks satisfactorily
- ☐ Hinge pin locking screws have been tightened (with the door open they are in the rebate)
- ☐ Hinge caps have been fitted
- ☐ Exposed faces free from damage
- ☐ Trims are installed correctly
- ☐ Sealant joints have smooth finish/correct shape
- ☐ No excess sealant on frame/brickwork
- ☐ Threshold/Sidelight drainage free from debris
- ☐ Cill end caps in place and secure
- ☐ All Debris cleared away
- ☐ This sheet has been left with the homeowner

PRECAUTIONS

Your new door will need very little maintenance. The amount of cleaning and servicing required will be dependent on the location of the door, if it is on a main road, in a coastal area or in an industrialised area it will need more maintenance than a door that is installed in the countryside

- **DO NOT** use chemical cleaners
- **DO NOT** use bleach or solvent
- **DO NOT** use abrasive cleaners or scouring pad
- **DO NOT** use pressure washers or steam cleaners
- **DO NOT** apply any adhesives of any type of tack (Blu Tack is an adhesive)
- **DO NOT** allow to come into contact with sharp objects
- **DO NOT** hang ornaments on the door as they will scratch the surface in windy conditions
- **DO NOT** when opening the door care should be taken to avoid damaging the surface finish. Large bunches of keys, shopping bags etc. can scratch the surface and would not be covered under warranty.

7. CARE & MAINTENANCE

CLEANING

Door leaf (Part that opens) and furniture
This will need occasional cleaning and should only be done with warm soapy water (washing up liquid is suitable) and a soft lint free cloth. Once clean the furniture should be dried with a soft cloth.

Stainless steel hardware does require cleaning or the dust/dirt in the air will stick to the surface and if left can give the effect of pitting/rusting (known as Tea Staining).

Frame
The frame should be cleaned with warm soapy water For any stubborn stains, contact your local Eurocell branch for assistance.

Glass
Clean with warm soapy water but care should be taken that the cloth used does not snag any lead design

Gasket
The gasket has a silicone lubricant applied and should need no maintenance other than a wipe with warm soapy water when cleaning the rest of the door.

Threshold
The threshold should be kept clear of debris and should be cleaned with warm soapy water when cleaning the rest of the door. The channel between the two gaskets should be vacumed occasionally to ensure the drain holes remain clear. The threshold should be stepped over when entering and leaving the building to avoid damaging the gaskets.

Hinges
The hinges are maintenance free however when maintaining the lock, the top caps can be removed and a small amount of silicone spray can be applied to the pins.

Locking Mechanism and Cylinder
The lock and cylinder will require occasional maintenance. Every 6 months is recommended but may be more often dependant on the area you live in.

With the door open lift the handle so the hooks are on show, check for dust and debris and clean if necessary. The hooks, latch and keeps in the door frame should then be lubricated using a lithium spray grease or silicone spray. Manipulate the handle several times and then lubricate again. **Do not use WD40® or other oils.**

The cylinder is supplied with 3 keys, should you require additional keys to be cut, a certified locksmith should be used as they will use genuine manufacturer's blanks. Other key cutting companies can use copy blanks and these can be of poor quality and cause the cylinder to fail. The cylinder should be lubricated every 6 months. Lubricate with lock graphite or graphite pencil. Apply this lubricant to the key only and work the key in and out of cylinder a few times. Never apply lubricant directly into the cylinder as this may cause the internal pins to stick. **Do not use WD40® or other oils.**

Keeps
After a period of time the gasket on your door will compress and keep adjustment may be necessary. This can be done by loosening the screws top and bottom with a hand held screwdriver, moving the plate in 1-2mm and re-tightening.

Please contact our Customer Care Team for additional support or advice:

0333 321 2353

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