

INSTALLATION INSTRUCTIONS: CITADEL/CITADEL PLUS RETRACTABLE GRILLES

IMPORTANT NOTES

Please read this instruction booklet carefully prior to carrying out any installation of the Citadel grilles.

Ensure that the correct fixings are used for Citadel fitment. All fixing holes must be used.

Firstly ensure all the parts are present by separating all the pieces then ticking off against the relevant part below

PRODUCT

	<i>Standard</i>	<i>Hinge aside</i>	<i>Split sash</i>
Single fixed panel or floating sash	Sash	Sash fitted in frame	Split sash fixing side
	Top & bottom tracks	Top tracks	Split sash locking
			Top & bottom tracks
Bi-parting	Left hand sash	Left hand sash fitted in frame	Left hand sash fixing side
	Right hand sash	Right hand sash fitted in frame	Left hand sash locking side
	Top & bottom tracks	Top track	Right hand sash locking side
			Top & bottom tracks

All the standard small accessories are packed in a yellow jiffy bag which is attached to one of the sashes. On the outside of each accessory bag is a label detailing its contents.

RECOMMENDED TOOLS

- ELECTRIC DRILL AND MASONRY BITS
(SUITABLE FOR NO. 12 SCREW & PLUG – 7mm DRILL BIT)
- MALLET
- POZIDRIVER (NO. 3)
- RATCHET & POZIDRIVER BIT
(FOR USE IN PLACES WITH RESTRICTED ACCESS)
- 4mm Allen Key
- SPIRIT LEVEL

NOTE: Additional tools may be required if sections of skirting boards or dado rails need to be removed.

FASTENERS:

12 x 2 1 /2” screws and plugs are the recommended MINIMUM fasteners for use when fitting retractable grilles. However, different fixings may be required depending upon the material of the walls that the grilles are being fitted to.

For Citadel Plus, the heads of all fasteners, including the hexagonal drive fixing plate fasteners, must be spoilt after fitting to inhibit removal. This can easily be achieved by drilling out or filling in the cross/allen drive in the head of the screw.

The validity of the LPCB certification is contingent upon each security grille being installed in accordance with the requirements of LPS 1175.

- | | |
|---|------------------------------|
| • Reveal or face installation | • All fixings heads spoiled: |
| • Min distance from edge of reveal 50mm | Masonry 2.5” x 12s |
| • Max distance from any corner 100mm | Wood 4.0” x 12s |
| • Max distance between fixing 400mm | Steel 1.0” x M8s |

The silver label supplied, stating the manufacturer, the product, the security rating and the certificate number must be attached to the grille.

In addition to the installation criteria stated above the Citadel Plus is also subject to the following restrictions:

Maximum Height	3000mm
Maximum Height	1000mm
Maximum Width (bi-parting)	6000mm
Maximum Width (single sash)	3000mm
Maximum Width (bi-parting)	1000mm
Maximum Width (single sash)	500mm

Citadel Plus is not available with the following options:

Hinge Aside, bottom running, removable bottom track, split top or bottom tracks or split sashes.

INSTALLATION INSTRUCTIONS

THERE ARE TWO METHODS COMMONLY USED TO FIX GRILLES – BOTH ARE DETAILED. ENSURE THE DOME HEADED SIDE OF THE RIVETS ARE ON THE INTERNAL SIDE.

COMMON TO BOTH METHODS:

1. Measure reveal opening carefully and measure the overall

- dimensions of the grille. Check if the dimensions of the grille are correct for the reveal size.
2. Remove any sections of skirting board or dado rails if necessary.
 3. Ensure any handles (on windows or doors) or any other obstructions are clear of the opening.
 4. Place the bottom track (W) in its correct position at the bottom of the reveal and leave loose until all the grille is in.
 5. Assemble the grille and place it within the opening making sure that the sides are vertical and the top and bottom tracks are horizontal.

METHOD 1:

6. Once the grille is within the opening, open it out and mark ALL the fixing holes. Remove the grille from the reveal.
7. Drill & plug all fixing holes. The recommended fasteners for fixing the grilles into masonry are 12 x 2 1/2" screws, although others fasteners may be used depending upon the material of the reveal.
8. Position the grille back into the reveal and fasten all fixings.

METHOD 2:

6. Once the grille is within the opening, open it out and separate the sashes from the fixing frame by removing the allen drive fasteners from the fixing plates that clamp the sash to the frame. Also separate the slam post from the fixing frame.
7. Slide the sash to the centre and drill out and plug all fixing holes. Fasten all fixings. The recommended fasteners for fixing the grilles into masonry are 12 x 2 1/2" screws, although other fasteners may be used depending upon the material of the reveal.
8. Position the grille back into the reveal and fasten all fixings.

AND COMMON TO BOTH METHODS:

9. Close the grille and test the locking mechanism operates correctly. If it does not, in order to increase the movement of the lock hooks some vertical adjustment of the slam post can be made after slackening the fasteners. Alternatively check that the hooks are vertically aligned.
10. If necessary seal around the edge of the fixing frame with Silicone sealant i.e. if there are any gaps caused by undulations in the walls.

ADDITIONAL NOTES

HINGE ASIDE:

Installation is essentially the same as for standard grilles.

However, care should be taken to ensure that the top track fixings are very secure as these fixings bear more weight as the top track is unsupported by the fixing frame. Extra care should also be taken to ensure that the grille is fitted vertical and square within the reveal.

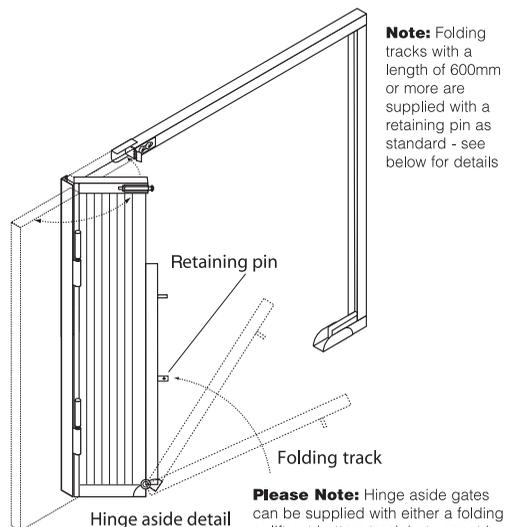
NOTE: Grilles are usually top running i.e. supported on rollers at top.

If the side of a hinge aside grille is face fixed an additional 50 x 25mm steel box section is supplied attached to the grille for fixing. If the side of a hinge aside grille is reveal fixed an additional 55 x 30mm angle is supplied attached to the grille for fixing.

1. Rotate the sash on its hinge and mark out, ensuring the sash and fixing frame are raised as high as possible so that the bottom track is clear of the floor.
2. Drill and fasten the grille in the same way as a fixed grille frame grille
3. Line-up the sash with the top track (B)
4. Locate and fix the top track (A)
5. Repeat steps 1-3 if the grille is a double sash
6. Fold down the 'W' section bottom track and drill a 15mm hole into the floor or window sill to suit the brass inserts into which the metal dowel locates. To ensure the top of brass insert is flush with the surface the hole will require enlarging to 18mm for a depth of 3mm.
7. Adjust strike bolt to suit.

- **FITTERS TIP** - If the grille springs out when closed and the strike bolt is fully back. Loosen the top track from the fixing frame (see page 7) slide back and adjust

- Slide a suitably sized wooden packer into the top track to assist with holding the joints in the top track together while fixing the top track. Once the top track has been fixed remove the wooden packer.



BOTTOM RUNNING

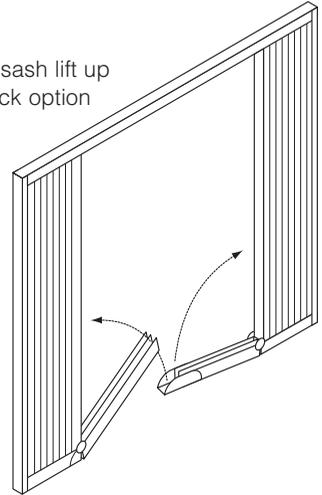
Before marking the position of the fixings for the fixing frame, the grille should be opened fully and the fixing frame height adjusted so that all the bottom wheels are in contact with the bottom track to evenly spread the weight.

LIFT UP BOTTOM TRACKS

If the grille has a lift up bottom track then a locating dowel and ferrule may be required and are supplied separately in the grille accessory pack. One dowel and ferrule is supplied per folding track.

The exact location of the dowel and ferrule is dependant on the surface the track will be resting upon but is generally towards the lift up end of the bottom track in either of the 'U' sections of the 'W' bottom track.

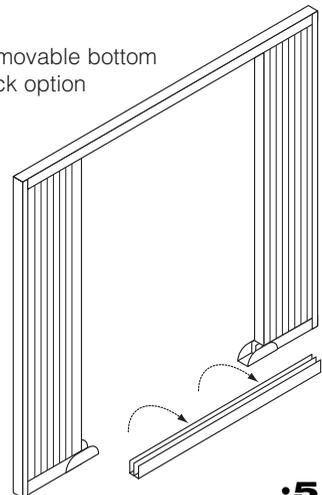
Bi-parting sash lift up bottom track option



REMOVABLE BOTTOM TRACK

Both ends of the removable bottom track supplied will locate into the oversized 'U' channels attached to the fixed sections of the bottom track.

Removable bottom track option



TERMINOLOGY

STANDARD GRILLES:

A = TOP TRACK
 (SECTION: 
 DIMENSIONS : 45 x 40 x 15 x 2 mm)

B = FIXING FRAME
 (SECTION: 
 DIMENSIONS : 45 x 20 x 15 x 2mm)

C = LOCK POST

D = SLAM POST

E = BOTTOM TRACK
 (FIXED OR LIFT UP/REMOVABLE)

F = TOP TRACK GUIDES

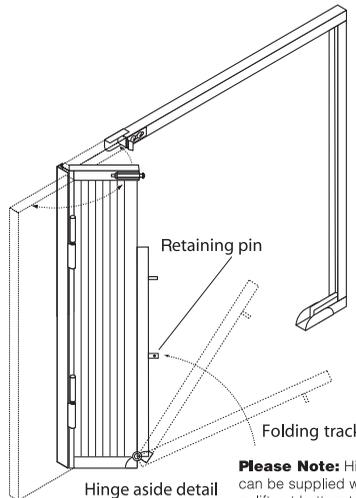
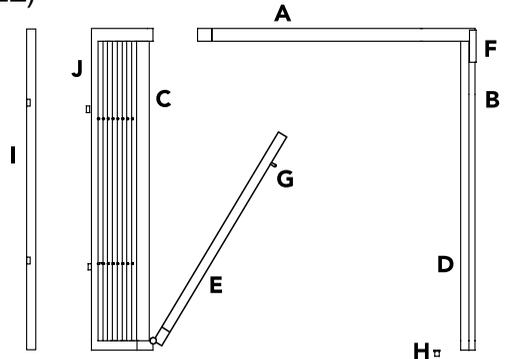
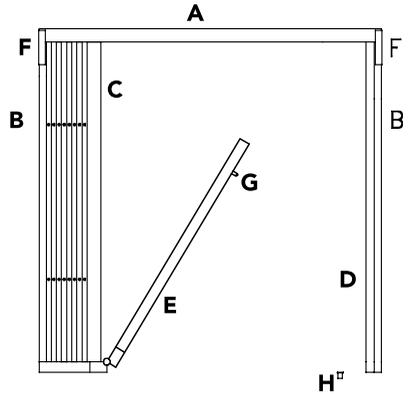
G = DOWEL

H = FERRULE

HINGE ASIDE GRILLES:

I = HINGE POST

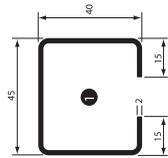
J = GRILLE FRAME



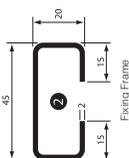
Note: Folding tracks with a length of 600mm or more are supplied with a retaining pin as standard - see below for details

Please Note: Hinge aside gates can be supplied with either a folding or lift out bottom track but cannot be supplied with a fixed bottom track.

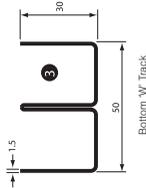
TRACK PROFILES



Top Track



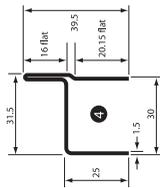
Fixing Frame



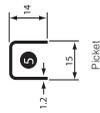
Bottom W Track



Low profile Bottom T Track
Low security option - not Citadel Plus

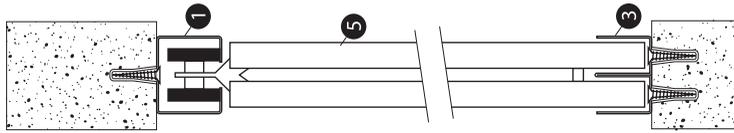


Lock Post

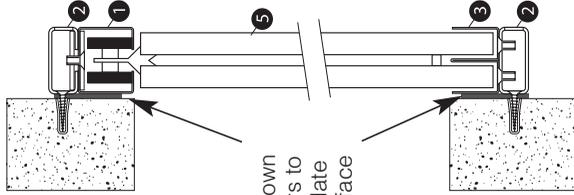


Picket

**REVEAL FIXED
SIDE ELEVATION**

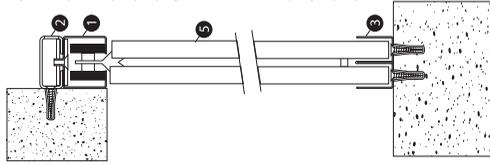


**FACE FIXED SIDE
ELEVATION WITH PACKER**



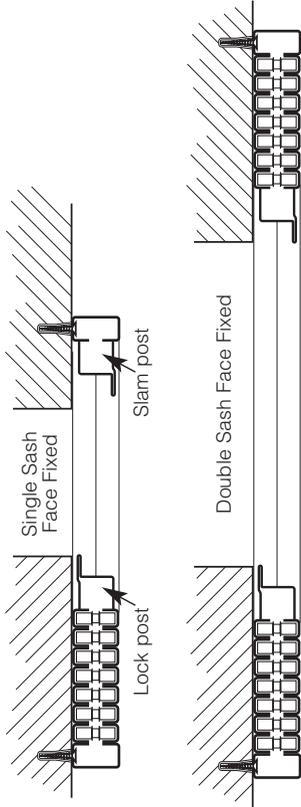
Face Fix shown with packers to accommodate uneven surface

**FACE FIXED
SIDE ELEVATION**



The standard arrangement for a face fitted grille is as shown with the top track and sides face fixed and the bottom track reveal fixed. When ordering please identify clearly how each side of the frame will be fitted. Importantly, the size of your order will be manufactured to a height including fixing frame(s).

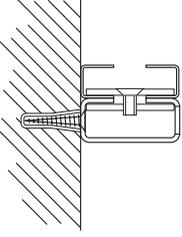
FACE FIX PLAN VIEWS & FIXING DETAILS



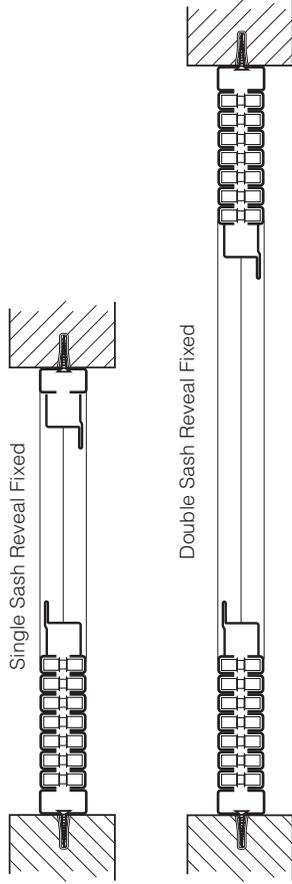
**FIXING DETAIL
FACE FIX**



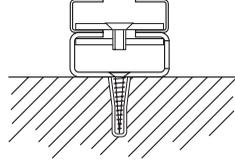
FIXING DETAIL



REVEAL FIX PLAN VIEWS & FIXING DETAILS

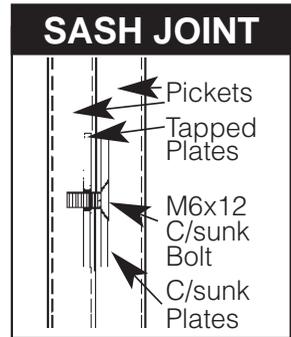


FIXING DETAIL



SPLIT SASHES (NOT CITADEL PLUS)

All single sash grilles wider than 2m and all grilles wider than 4m will be supplied with split sashes which must be joined together during installation. The sashes will be supplied with the counter sunk plate's already in place and the pickets should be fastened together as shown.



SPLIT TRACKS (NOT CITADEL PLUS)

Grilles wider than 4m will be supplied with split top and bottom tracks. If the grille is bi-parting one section of track will be supplied slightly longer than the other to enable the centre stop to be located in the centre of the fully assembled track.

HANDLES FOR GRILLES

Handles for the grilles, for easier opening and closing, are available at a surcharge. The handles must be attached to a picket not the lock post. You must ensure the handle will not interfere with the operation of the lock. Rivets are supplied with the handle to attach it to the grille.

FLOATING SASH

If the grille has been supplied with a floating sash it should be installed in exactly the same way as a standard grille with the exception that there will be a set of lock and slam posts on both sides of the grille.

FIXED PANEL

If the grille supplied is a fixed panel it should be installed in exactly the same way as a standard grille with the exception that there will be no lock or slam posts.

PROBLEM SOLVING

1. Grille is stiff to open/close:
Lubricate the running wheels, nylon lattice bushes and the lattices rivets and run in by opening and closing the grille.
2. Grille fails to close properly:
This is caused by incorrect alignment of the lock post with the slam post. It is most easily corrected by slackening the fasteners that fix the slam post to the fixing frame (or sash if a double sash grille) and adjusting the slam post horizontally or vertically. Once the correct alignment is reached the fasteners should be tightened securely.
3. Key fails to turn in lock:
This can result from the ingress of the powder coating around the lock barrel. It can be simply overcome by lubricating the lock barrel, lock assembly and the locking hooks and by applying a firm force to turn the key. Also see point 9 on page 3.

MAINTENANCE/OPERATING INSTRUCTIONS FOR RETRACTABLE GRILLES

OPERATION

BEFORE OPENING THE GRILLE, ENSURE THAT HANDS, CLOTHING ETC ARE CLEAR OF LATTICES TO AVOID TRAPPING

TO OPEN THE GRILLE:

Unlock the grille by turning the key through 360 degrees – hold the locking post up against the locking jamb if slight resistance is encountered.

Holding the grille by the locking post (or handle if fitted), slide the grille smoothly across until fully bunched. Repeat other sash if bi parting.

Wide grilles may be more smoothly retracted by also pushing across from a point in the middle of the sash.

GRILLES WITH LIFT UP TRACK

After retracting the grille, fold the hinged bottom track up against the bunch and hold in place using the pin and clip supplied.

GRILLES WITH HINGE ASIDE

Lift up the bottom track as above then, grasp the retracted sash by the locking post and pull firmly towards the body to disengage the catch at the top. The grille sash can now be carefully opened, clearing the reveal and into its final position.

GRILLES WITH REMOVABLE BOTTOM TRACK

After retracting the grille, carefully lift out the removable section and store.

TO CLOSE THE GRILLES

GRILLES WITH HINGE ASIDE

Swing the grille bunch back into the frame, pushing firmly to engage the catch in the top track.

GRILLES WITH REMOVABLE OR LIFT UP TRACKS

Restore the track, locating the pins on the underside of the track into the static part.

FOR ALL GRILLES

Holding the grille by the locking post (or handle if fitted), slide grille sash smoothly cross until a 'click' indicates that the locking posts have connected. Then lock the grille by turning the key through 360 degrees.

MAINTENANCE

The grilles will benefit from regular cleaning and lubricating using WD40 or equivalent, paying particular attention to the lattice rivets and the wheels in the top track and wheels in the bottom track if the grille has been supplied with the bottom running option.

Externally fitted grilles can be washed with warm, soapy water to remove dirt/grit.

Make sure that no foreign objects collect in the top or bottom tracks or become trapped in the lattice.

Take care when removing any items to avoid danger of trapping hands.

CAREFUL USE OF RETRACTABLE GRILLES IS THE BEST WAY TO AVOID MAINTENANCE OR REMEDIAL WORK