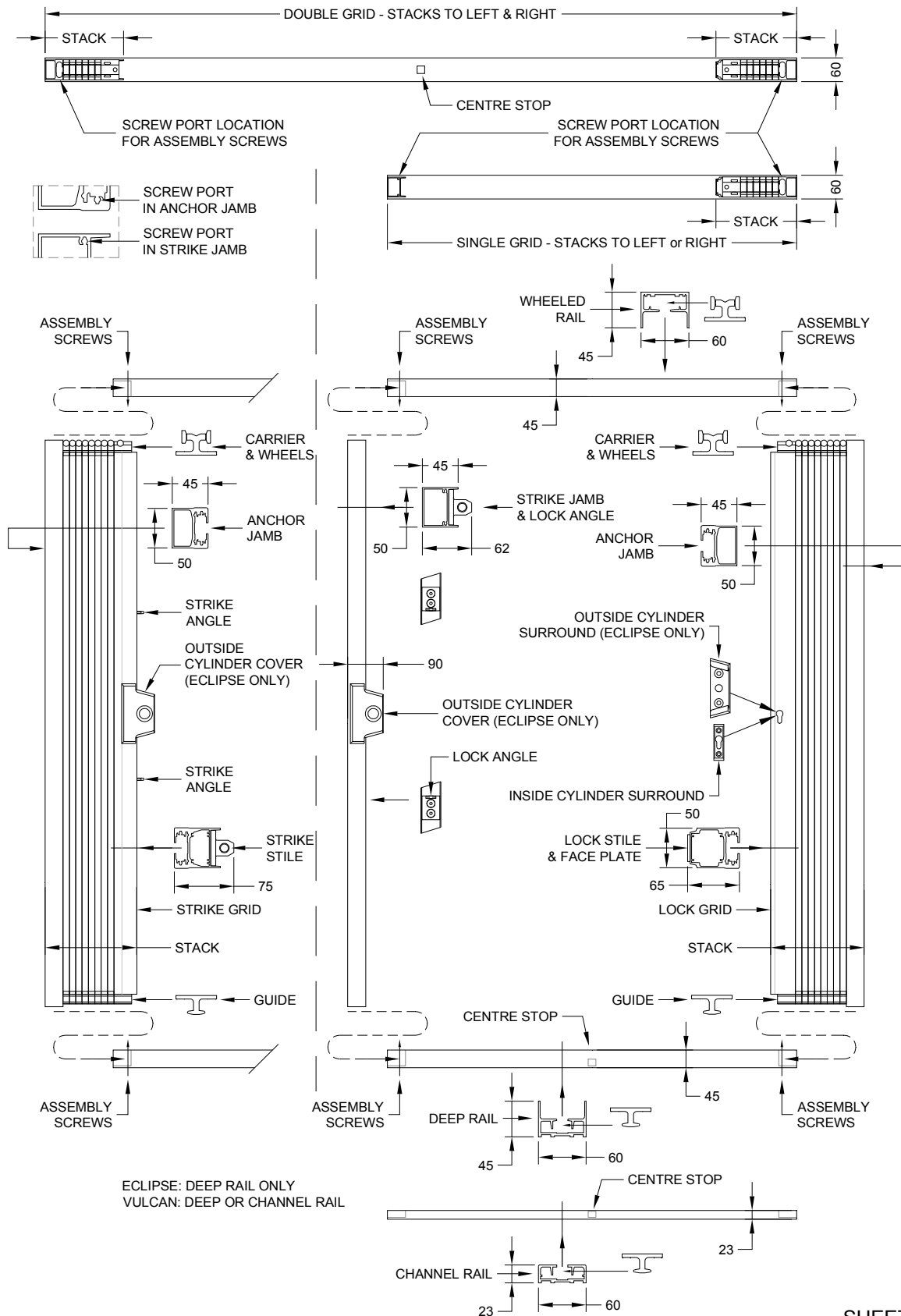


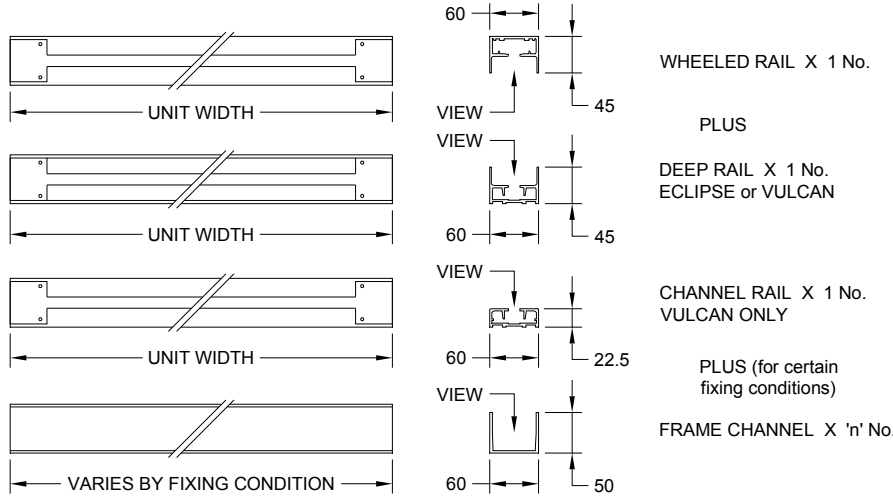
Form IAG02 Issue 1. Installers Assembly Guide. Vulcan (SR2) & Eclipse (SR3)

**ASSEMBLY OVER VIEW SINGLE & DOUBLE GRID RETRACTABLE GRILLES
ECLIPSE & VULCAN**



Form IAG02 Issue 1. Installers Assembly Guide. Vulcan (SR2) & Eclipse (SR3)

SUMMARY OF COMPONENTS AS PACKAGED

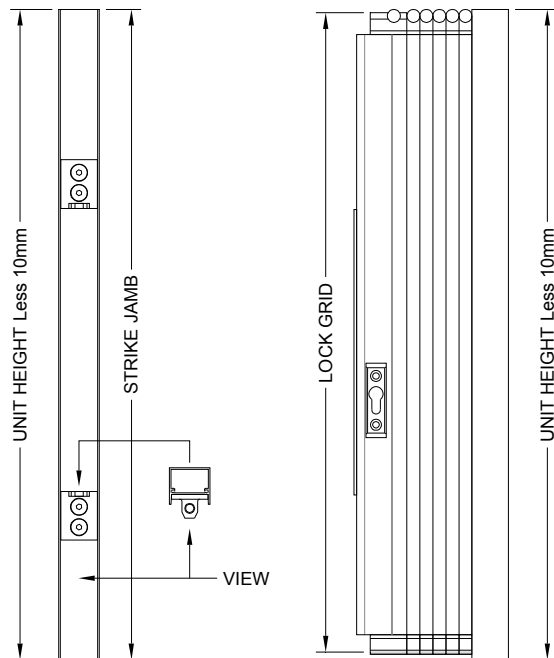


**ECLIPSE - SEAP2 / LPS1175 SR3
VULCAN - LPS1175 SR2**

The wheeled rail and the deep or channel (as ordered) are packed together as one.
Frame channels are required for face fixing conditions. Additional job specific subframing may be included.

Included in the rails package are the stainless steel assembly screws and the keys.

Where multiple grilles are ordered the screws and keys may be collected into one rail package. This will be noted on the packaging and is usually the rails for grille number 1.



ONE STRIKE JAMB & ONE LOCK GRID FOR A SINGLE GRID UNIT.

LOCK GRID SHOWN FOR A 'TOP HUNG' GRILLE ie WHEELS AT TOP OF GRILLE AND FITTED WITH AN INSIDE FACING CYLINDER (on protected face of grille) FOR OUTSIDE FACING CYLINDER (on attack face of grille see below)

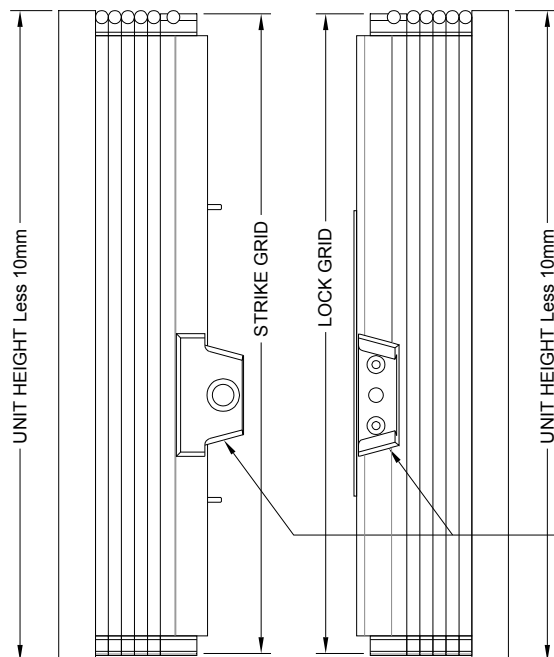
For a single grid unit the locking grid is packaged with it's matching strike jamb.

For single grid unit there are two packages for the grille.
1. The rails
2. The lock grid, this includes the strike jamb packaged with it.

Frame Channel(s) are required for certain fixing conditions, which will be determined at the time of ordering. In most cases these will be a separate additional package.

No.8 x 32mm ASSEMBLY SCREW - 8 REQUIRED.

KEY(s)



ONE STRIKE GRID & ONE LOCK GRID FOR A DOUBLE GRID UNIT.

LOCK GRID SHOWN FOR A 'TOP HUNG' GRILLE ie WHEELS AT TOP OF GRILLE AND FITTED WITH AN OUTSIDE FACING CYLINDER (on attack face of grille) FOR INSIDE FACING CYLINDER (on protected face of grille see above)

INSIDE OR OUTSIDE FACING CYLINDERS CAN BE FITTED TO EITHER SINGLE OR DOUBLE GRID UNITS

For a double grid unit there are three packages for the grille.

1. The rails
2. The lock grid
3. The strike grid.

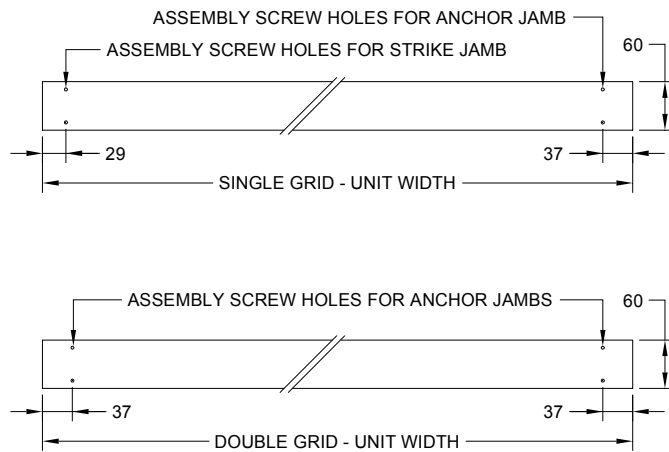
Frame Channel(s) are required for certain fixing conditions, which will be determined at the time of ordering. In most cases these will be a separate additional package.

All packages are uniquely labelled with the job order number and the individual grille reference number.

Form IAG02 Issue 1. Installers Assembly Guide. Vulcan (SR2) & Eclipse (SR3)

PRE - ASSEMBLY CHECKS

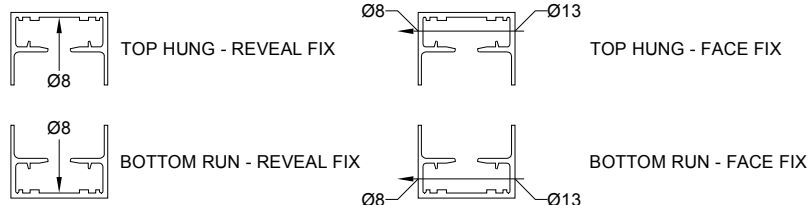
1. ASSEMBLY SCREW HOLES



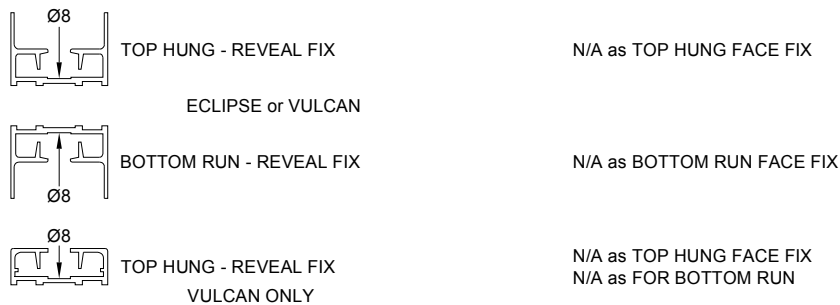
ALL RAILS HAVE THE ASSEMBLY SCREW HOLES PRE-DRILLED TO SUIT THE TYPE OF GRID ORDERED i.e. single or double AND THE ORIENTATION OF THE GRID i.e. STRIKE JAMB ON THE LEFT OR RIGHT FOR SINGLE GRID UNITS.

THE GRILLE FIXING HOLES ARE ALL FACTORY DRILLED AS SPECIFIED ON THE ORDER AND ORDER ACKNOWLEDGEMENT

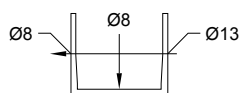
2. FIXING HOLES - WHEELED RAIL



3. FIXING HOLES - DEEP & CHANNEL RAIL

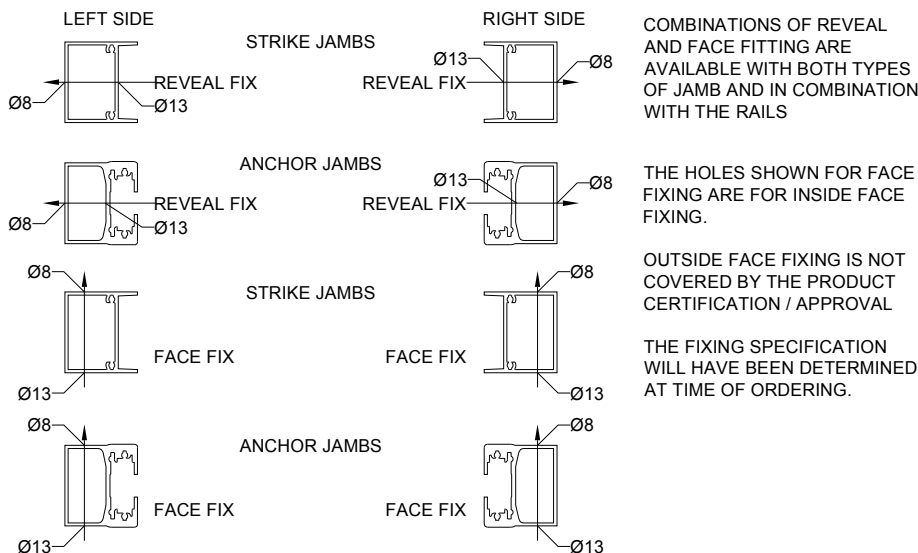


4. FIXING HOLES - FRAME CHANNEL



FRAME CHANNEL(S) ARE REQUIRED FOR CERTAIN FIXING CONDITIONS. EACH FRAME CHANNEL IS ANCHORED TO THE STRUCTURE BEFORE BOLTING TO THE GRILLE. THE INSTALLATION DETAILS SHOULD BE READ IN CONJUNCTION WITH THESE ASSEMBLY DETAILS.

5. FIXING HOLES - JAMBS



**ECLIPSE - SEAP2 / LPS1175 SR3
VULCAN - LPS1175 SR2**

Before unwrapping any components check the labelling on the packaging to ensure you have the correct components for each grille grouped together.

When removing wrapping take care not to damage the seen faces of the grilles.

When assembling multiple grille orders and once the components of the each grille have been unwrapped DO NOT REMOVE THE COMPONENT I.D. LABELS. The labels should be left in place until the grille(s) are installed.

a Assembly screw holes.

The rails should be checked for the position of the assembly screw holes.

Note: The assembly screw position is different for the anchor jamb, which is supplied assembled onto the grids, and the strike jamb, which is required for the single grids.

a Orientation of components.

The orientation of the rails, grid(s) and strike jamb (single grids only) must be checked before starting assembly.

Single grids.

With single grids the different assembly screw hole positions dictate the orientation of the rails to the grid and strike jamb. This should be confirmed as correct to the order details.

Double grids.

As the assembly screw holes are the same distance from each end of the rails the orientation is not vital unless there are other features on the rails which are not reversible i.e. Face Fixing Holes.

Fixing Hole Positions & Directions

At this time the fixing holes should be checked as correct paying particular attention to any Face Fixing Hole direction.

a Other Pre-assembly Checks

All wheels are present, rotate freely and the axles have not been bent .

Centre stops are fitted in both rails for double grids.

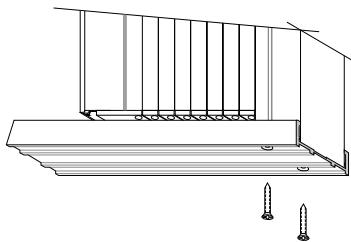
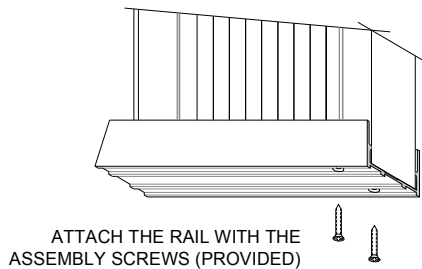
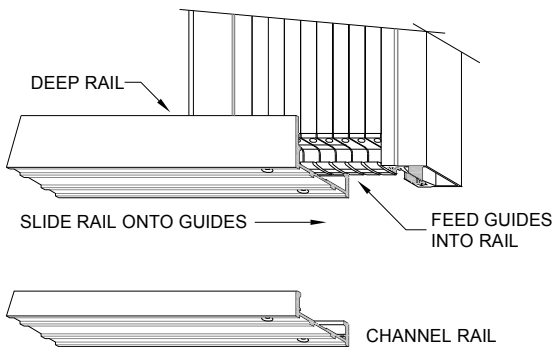
The top of the Strike jamb is identified. Check against the lock stile before commencing assembly.

Note:

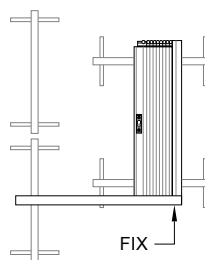
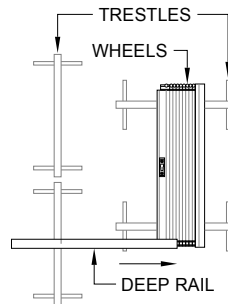
Tek screw fixings are NOT permitted.

ASSEMBLY PROCEDURE OF RETRACTABLE GRILLES 1 of 2

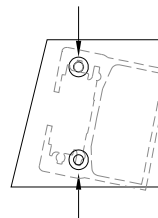
1. ATTACH THE RAIL TO THE GUIDES OF THE LOCK GRID



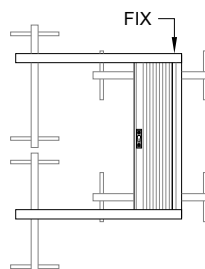
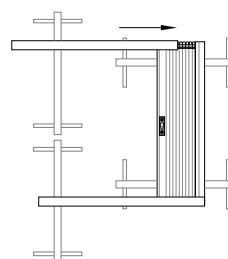
POSITION 4 TRESTLES TO SUPPORT THE GRID AND RAILS BEFORE STARTING ASSEMBLY. (grid shown with inside facing cylinder)



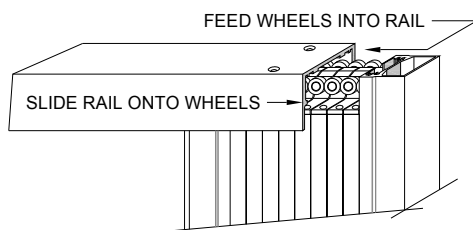
ASSEMBLY SCREW ALIGNED



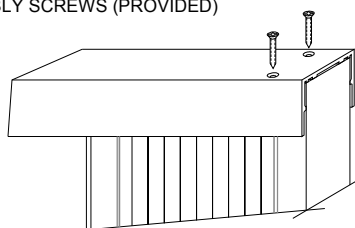
ASSEMBLY SCREW MISS ALIGNED



2. ATTACH THE WHEELED RAIL TO THE SAME GRID



ATTACH THE RAIL WITH THE ASSEMBLY SCREWS (PROVIDED)



ECLIPSE - SEAP2 / LPS1175 SR3
VULCAN - LPS1175 SR2

Preparation for assembly.

Complete component checks before commencing grille assembly.

Tools required:

- Trestles. These greatly assist the assemble and reduce the risk of damage.
- Variable torque battery screw driver.
- No.2 Pozzi screw driver bits

Assembly - Retractable Grilles

Assembly should commence by attaching the Channel / Sloped / Deep Rail (as specified in the order) to the anchor jamb on the Lock Grid.

Place the Lock Grid on a pair of trestles and slide the Channel / Sloped / Deep Rail onto the guides.

Once the rail is located onto the anchor jamb support the 'free' end on a trestle and fix with two assembly screws provided. Ensure the assembly screw holes in the rail are aligned with the screw port holes in the jamb.

Next slide the wheeled rail over the wheels and fix as described above.

Note: The wheeled rail is positioned second as it is possible to fit it over the guides by mistake, however the other rails cannot be fitted over the wheels.

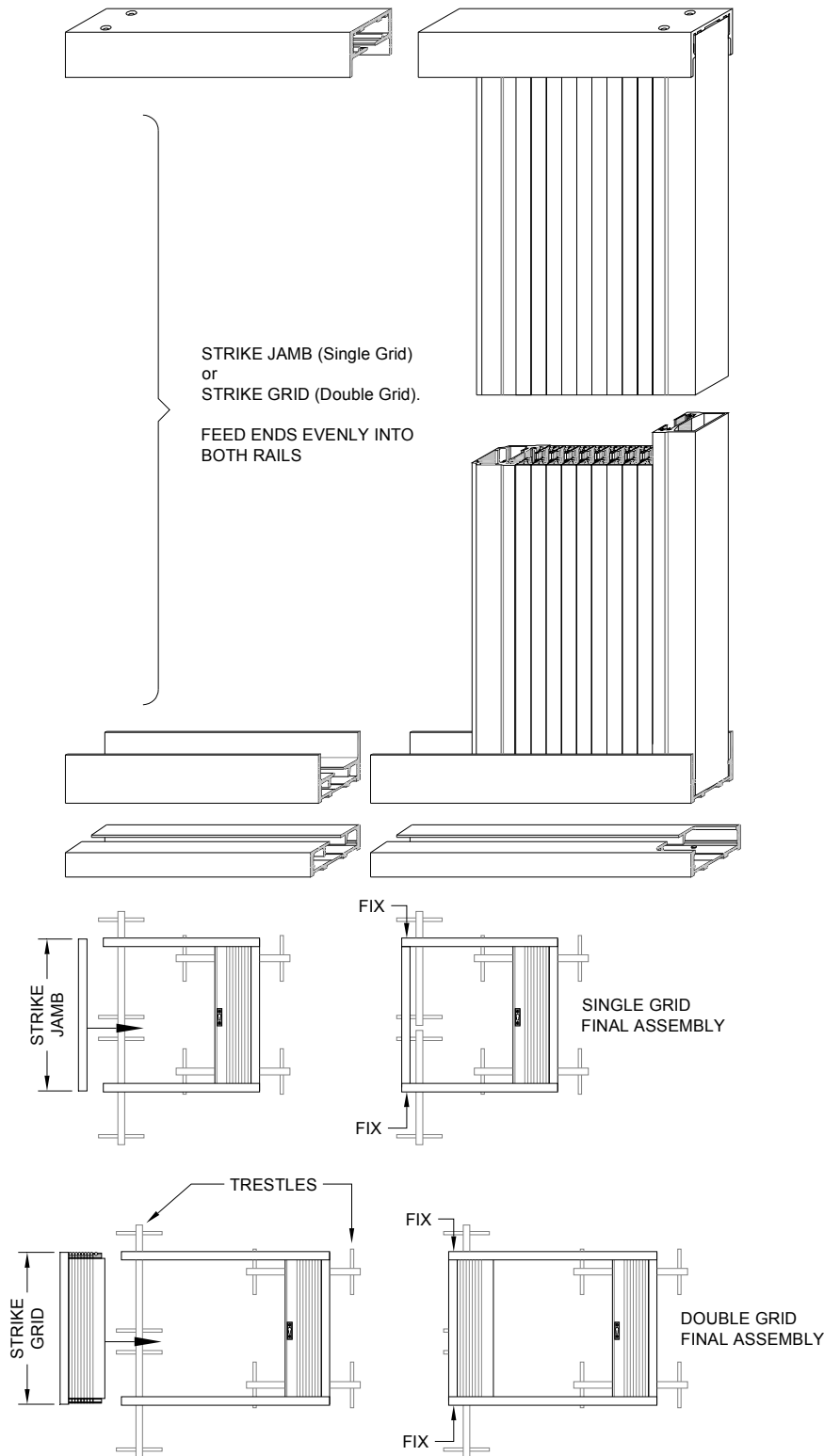
WARNING:

When fixing the rails to the jambs using the No.8 x 25mm stainless steel self tapping screws provided ensure: -

1. The screw driver bit is a No.2 Pozzi in good condition.
2. The screw driver bit is held firm into the screw head. This may require 'pulling' on the jamb to provide sufficient pressure.
3. The screw is aligned with the screw port in the anchor jamb.
4. If the screw driver starts to 'skip' in the screw head stop, withdraw the screw and replace with a new one. Continuing with a damaged screw may result in a screw which cannot be screwed fully in or removed.
5. When first using a battery screw driver set the speed to slow and start with a low torque setting. Increase the torque progressively until the correct setting is found to sufficient to fully tighten the screw.
6. Excessive screw driver speed and/or torque settings can result in the screw head being snapped off.
7. Take particular care if replacing a screw into a screw port which has already had a screw fitted and removed.

ASSEMBLY PROCEDURE OF RETRACTABLE GRILLES 2 of 2

I. COMPLETE THE ASSEMBLY



ECLIPSE - SEAP2 / LPS1175 SR3
VULCAN - LPS1175 SR2

Completing the grille assembly.

Fixing the remaining element.

1. Strike jamb for a single grid.
or
2. Strike grid for a double grid.

The strike jamb is easily position.
 NOTE: Double check the Jamb is the correct way up to ensure the strike angles align with the locking slots in the lock stile.

The strike grid must be evenly and carefully slid into the rails.

The wheels and the guides of the dtrike grid can 'snag' in the rebates, for the anchor jamb, at the end of the rails.

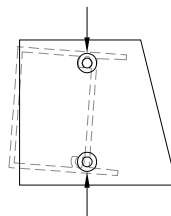
This is avoided by pushing the bar ends up into line.

Do not apply undue force to engage the grid into the rails. if it will not fit something is snagged, which should be cleared.

Attempting to force the grid in may damage the wheels, the guides and/or the rail.

When fixing the jamb in to rails recheck the assembly screw holes are aligned with the screw ports in the jamb.

ASSEMBLY SCREW
ALIGNED



ASSEMBLY SCREW
MISS ALIGNED

WARNING:

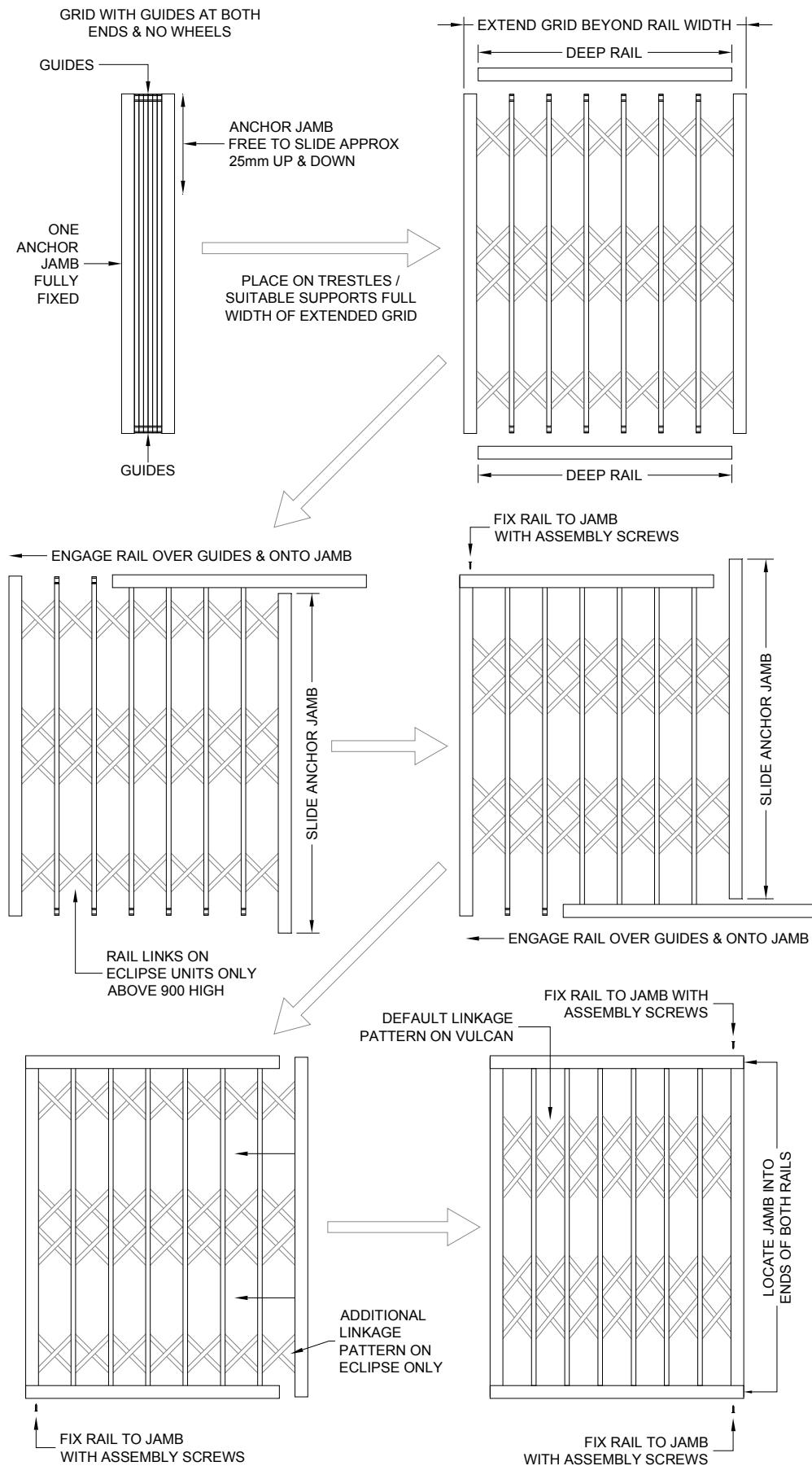
Top avoid damage to the grid(s) or the rails note the following:-

Once assembly is complete the assembled grille should be lift off the trestles and stood up, before opening / closing the grid(s).

When moving the grid(s) the wheeled rail of wider top hung units will need to be supported to prevent the grid(s) dragging in the track.

The grille is now ready for installation.

ASSEMBLY PROCEDURE - FIXED GRIDS



**ECLIPSE - SEAP2 / LPS1175 SR3
VULCAN - LPS1175 SR2**

Assembly of fixed grid grilles must follow a different procedure because the two anchor jambs are both attached to the grid, over which the rails need to be fitted.

To allow the rails (deep rail by default) to be slide over the guides one of the anchor jambs has been manufactured with limited movement (approx. 25mm) which provides sufficient clearance.

First the grid must be slightly over extended as shown. This is best achieved on trestles with bearers of suitable length supporting the bars of the grid to prevent sagging. This will allow the rails to fit over the guides and between the jambs.

Unlike retractable grilles where the key position and order details will indicate which face of the grille is the 'outside face' with fixed grids this cannot be determined from inspection of the grille, unless face fixing holes have been specified.

Eclipse and Vulcan grilles must be correctly positioned to ensure the anti drill and saw protection is facing the attack side, usually the outside. To allow this the outside face is labelled 'Rods this Side'.

WARNING:

When screwing in the No.8 x 25mm stainless steel self tapping screws provided ensure: -

1. The screw driver bit is a No.2 Pozidriv in good condition.
2. The screw driver bit is held firm into the screw head. This may require 'pulling' on the jamb to provide sufficient pressure.
3. The screw is aligned with the screw port in the anchor jamb.
4. If the screw driver starts to 'skip' in the screw head stop and replace with a new one. Continuing will result in a screw which cannot be screwed fully in or removed.
5. Set the screwdriver speed and a low torque setting. Increase the torque progressively until the correct setting is found to fully tighten the screw. Note: Excessive screw driver speed can snap the screw head off.

