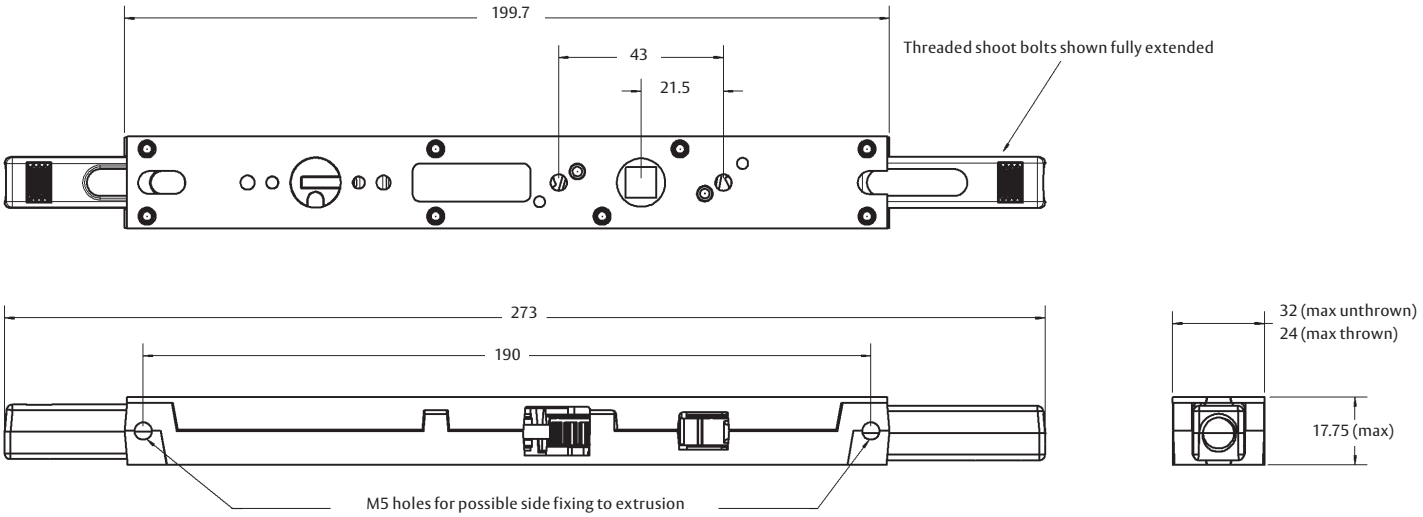
# TWIN BOLT LOCK 18MM THROW - BI-FOLD DOORS

INTERLOCK™
ASSA ABLOY

## INSTALLATION INSTRUCTIONS FOR P84167, P84500, PB3030027, P84166 AND PB3042227 WITH UNO AND ARIA BI-FOLD HANDLES

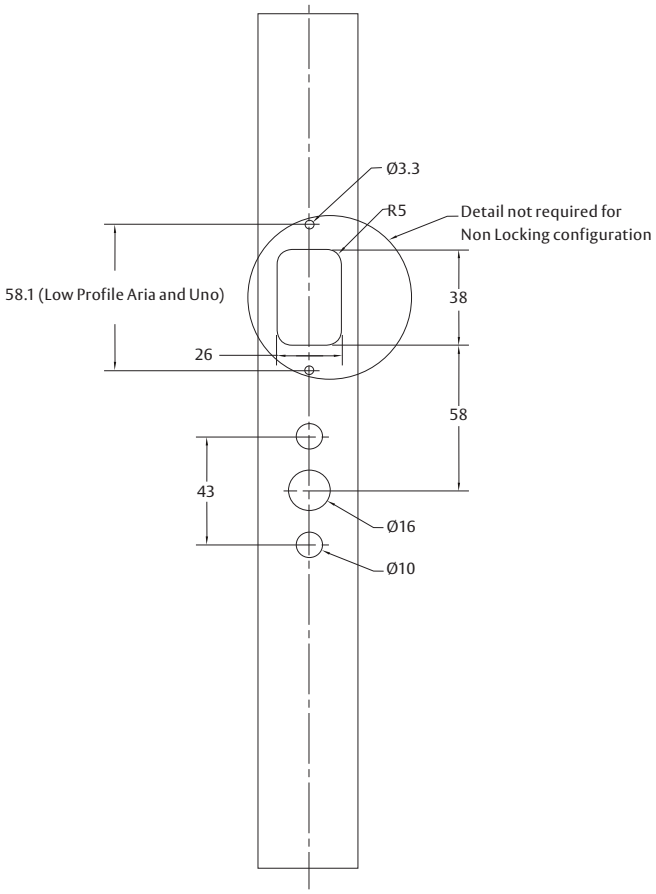
## Twin Bolt Lock Overall Dimensions:

**Figure 1. Twin Bolt Lock Dimensions**




## Routing Details:

**Figure 2. Face Routing**





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### Assembly Details:

For assembly through the end of the extrusion:

1. Cut the rods to length allowing for a lock throw of 18mm.
   **Note:** Allowance must also be made for the clearance between the door and frame, the D-tip length of 44mm and the multi point rod threaded 14mm into the lock.

2. Press the D-tips onto the end of the multi point rod. Crimp the rods onto the D-tip to ensure a solid fit (a crimping tool – P84042 – is available for this task).

3. Screw the rods to the lock, tightening the lock nuts against the throw bolts (see fig 4). Locking nuts only need to be used when D-tips are retained by a round rod guide (i.e not needed with D-shaped guide) to prevent the rod from unwinding.

4. Select the packers to be used and clip this onto the lock body.
   **Note:** The remaining packer can be clipped onto the back of the lock to hold it for easier fixing in the section.

5. Mount the lock assembly onto the door stile checking lock function, D-tip protrusion and D-tip orientation. Fix the handle and lock assembly to the extrusion using the M5 fixing screws.
   **Note:** The 8mm square drive bar should protrude through the entire lock for adequate performance.

6. For Locking Version: Screw the CYL4 lock housing onto the lock body using the M4 fixing screw (see Fig 6 for the packer selection guide). Assemble the lock barrel and housing cover using the retainer wafer of the lock to hold the assembly together.
   **Important Note:** The cylinder should not be used externally.

7. Screw the lock escutcheon in place.

   **Note on Rods:** The vertical locking rods supplied cater for a maximum door height of 2300mm. For taller applications a multi-point extension kit is available which caters for a maximum door height of 3300mm, the part number for the multi-point kit is P84017, one kit required per twin bolt lock body.

   **Warning:** When tightening lock nut use a spanner to support the lock bolt. This will prevent any damage to the lock. See Fig 4.

**Fig 3. Lock Assembly**

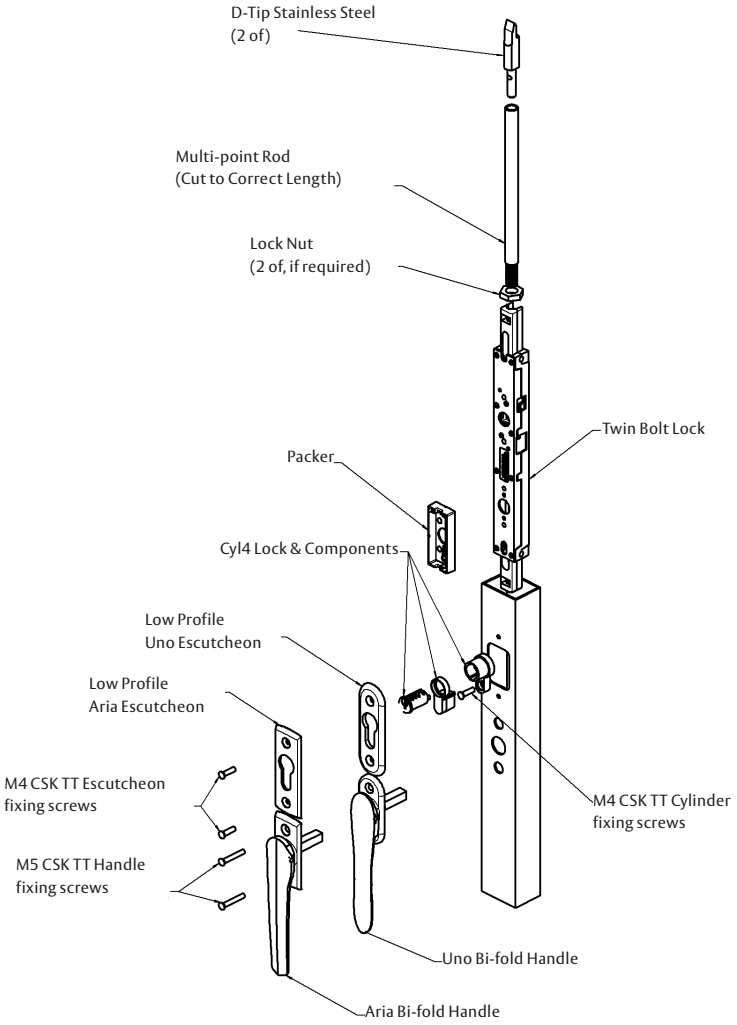
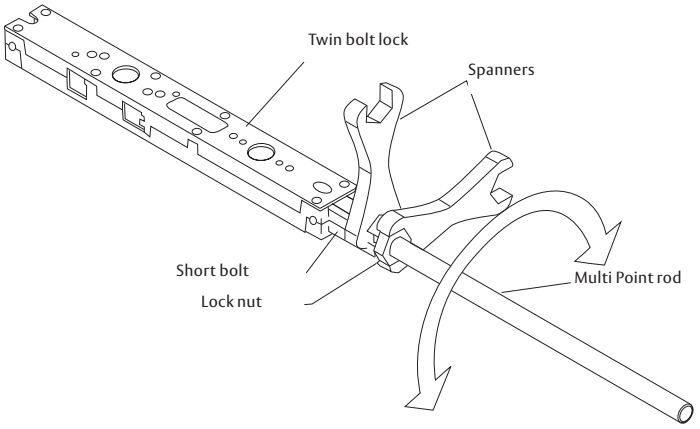



**Fig 4. Rod Assembly with Lock Nut**





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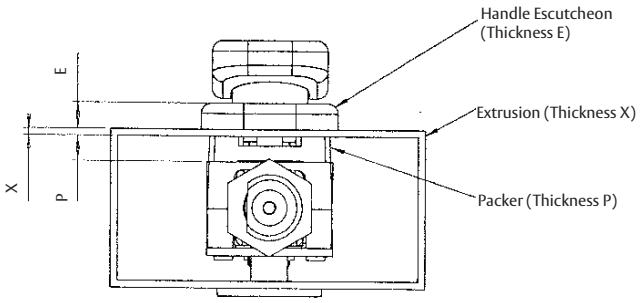
## Screw Length Formula:

The length of the M5 fixing screws is critical to the performance of the lock.

If the screw is too short the lock will not be held correctly.
If the screw is too long the lock may bind and not operate.

Screw Length = E + X + P + (4.5 ± 0.5) mm – refer opposite

**Fig 5. Top view of Components in Folding Panel Section**




## Screw and Packer Selection Guide:

This guide shows the M5 screws required for fixing the lock and the M4 screws for fixing the locking cylinder (if locking version), and the packers that should be used in each situation. For all other section configurations use the formula above.

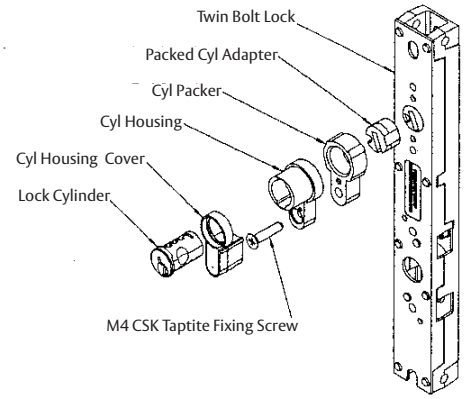
**Fig 6. Screw Length Formula**

| Sections | Non Locking - Use: | Locking with Low Profile Lock Escutcheon - Use: |
|---|---|---|
| **Aluminium**<br>• 38mm internal extrusion width<br>• 1.6mm extrusion thickness | • M5 x 17mm Screws<br>• 6.25mm Packer (interior side)<br>• 6.25mm x 2 Packer (exterior side) | • M5 x 26mm Screws<br>• M4 x 10mm Screw<br>• 14.8mm Packer (interior side)<br>• 5mm Packer (exterior side) |
| **Aluminium**<br>• 38mm internal extrusion width<br>• 3.6mm extrusion thickness | • M5 x 26 Screws<br>• 14.8mm Packer (interior side)<br>• 5mm Packer (exterior side) | • M5 x 26mm Screws<br>• M4 x 10mm Screw<br>• 14.8mm Packer (interior side)<br>• 5mm Packer (exterior side) |

## Cylinder Packing:

In the situation where the lock is assembled into composite (wood and aluminium) sections, the locking cylinder assembly may require packing to ensure it sits proud of the door, see Fig 7.

**Fig 7. Packing system for locking cylinder**



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