

Installation Guide

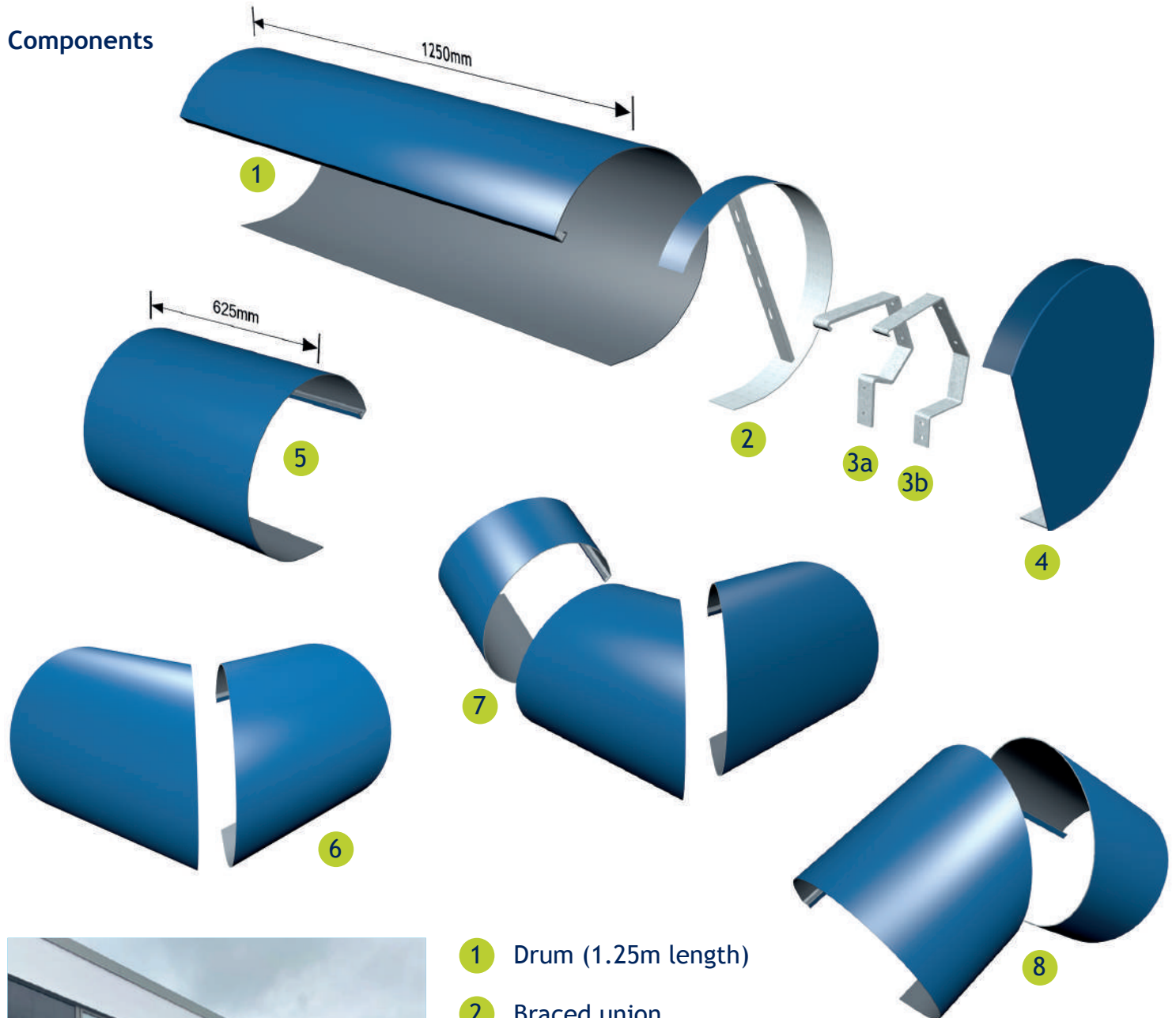
General

Ensure that the substrate is sound and secure, and check substrate for level and alignment. Any irregularities in the background material should be corrected prior to installation of the Skyline Anti-Climb system. This will help components align and fit properly during installation.

Fixings

Bolt fixings for securing Anti-Climb to the bracket system are supplied; screws for fixing the bracket to the substrate are not supplied. Only use high quality fixings and ensure fixings are suitable for the substrate. For advice, contact our Technical Service Team on 01536 383810.

Components



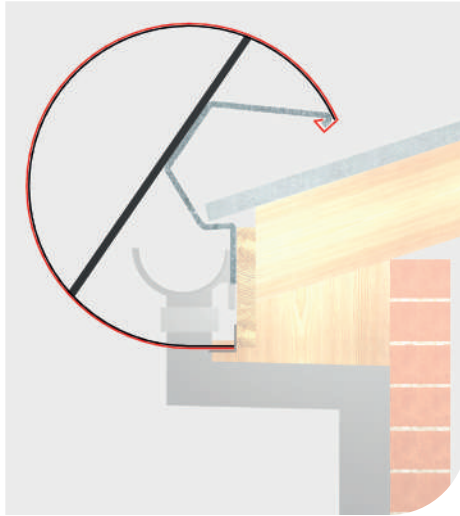
- 1 Drum (1.25m length)
- 2 Braced union
- 3a HD bracket
- 3b Retrofit RF bracket
- 4 End cap
- 5 Make-up piece (625mm length)
- 6 Corner (2 part) internal & external
- 7 Raking angle (3 part)
- 8 Apex angle (2 part)



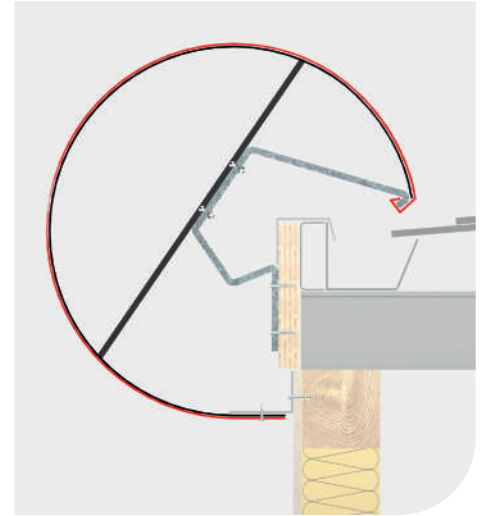
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Typical Roof Details

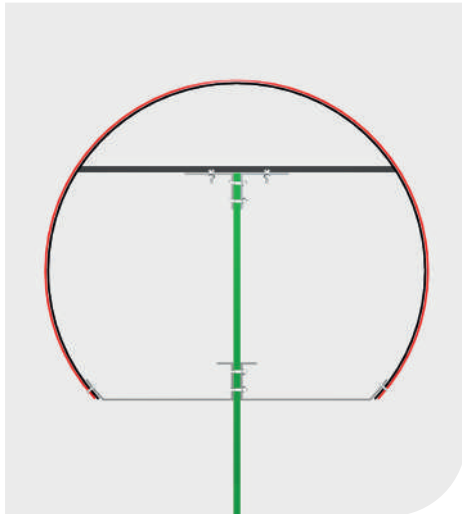
Skyline Anti-Climb is designed for installation on any roof type. The bracket system is designed specifically for each project to accommodate the correct fixing position and to ensure correct alignment of the Anti-Climb barrier for maximum security. In addition to roofline application, Skyline Anti-Climb can also be installed to top security fencing, boundary walls and other applications in designated high security areas to prevent unauthorised access. *Note: two bracket options are available, a heavy duty (HD) bracket, and a retrofit (RF) bracket where existing gutter is retained.*



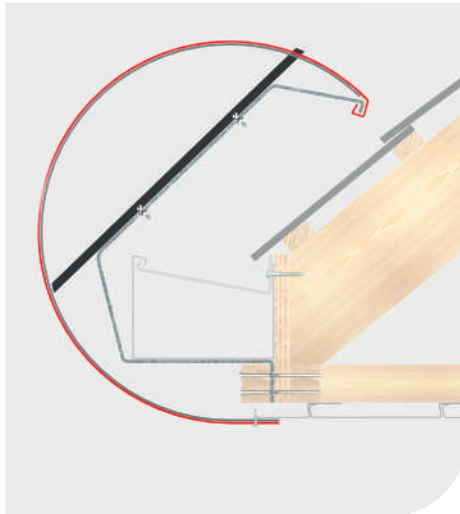
Traditional Roof



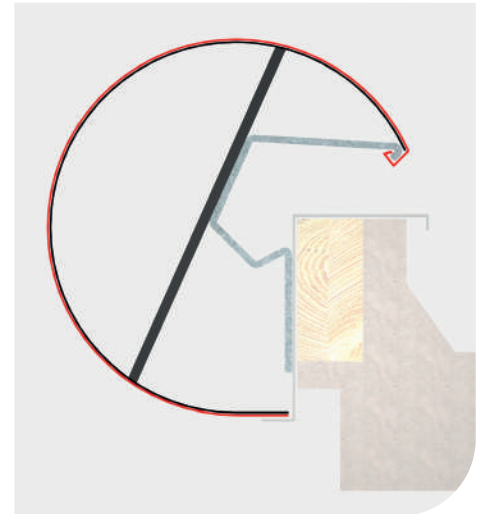
Mono-Pitch Roof



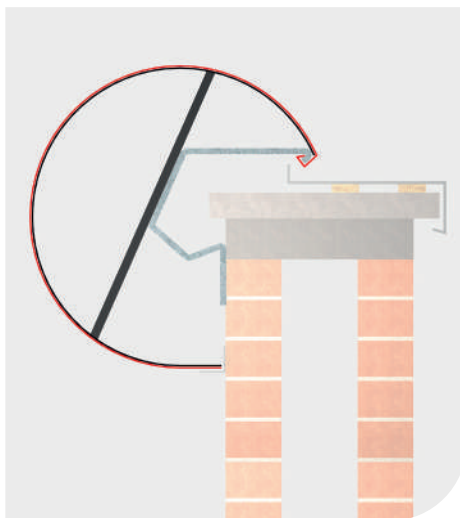
Security Fencing



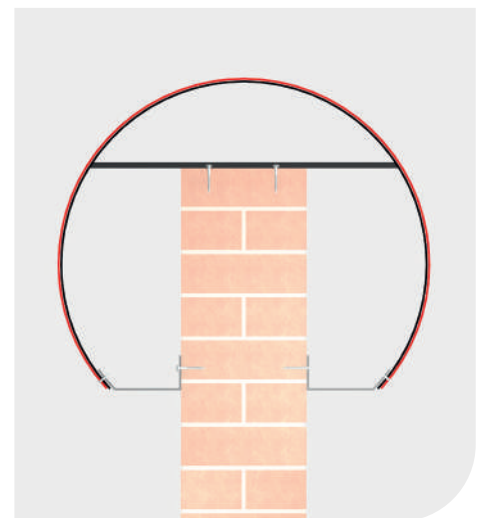
Retrofit RF Bracket



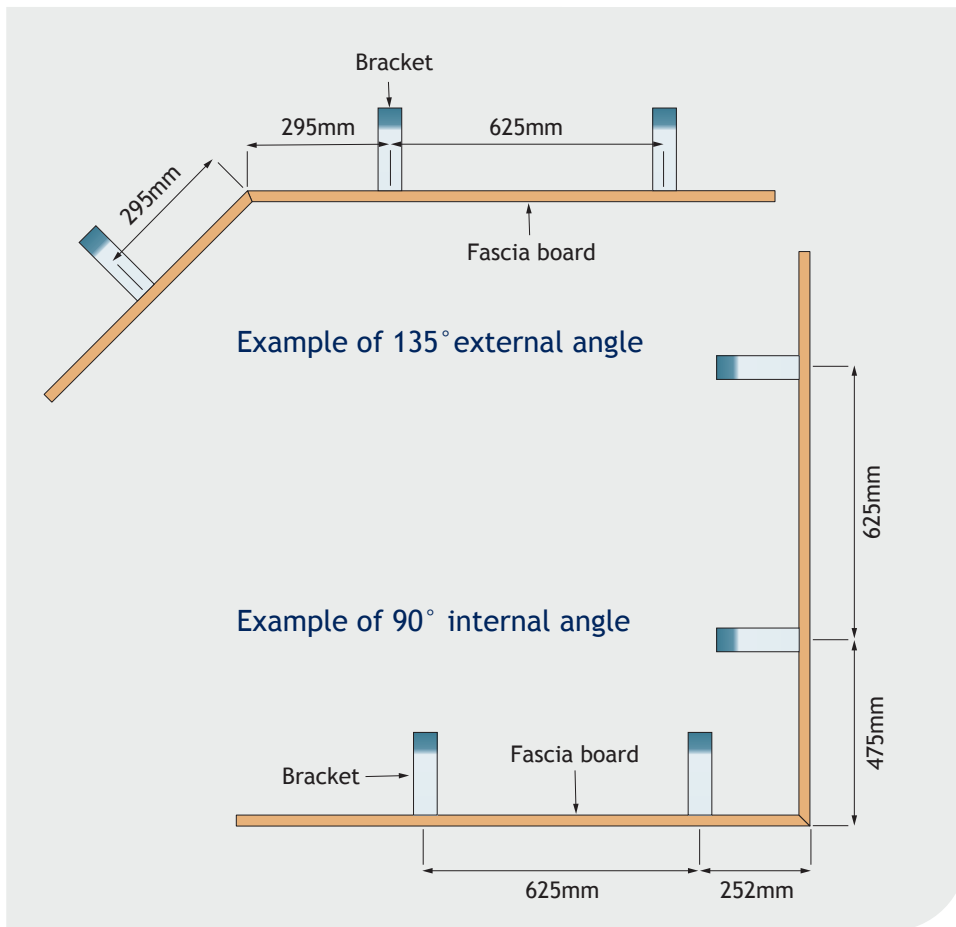
Flat Roof



Parapet Wall



Boundary Wall



The HD bracket system will be manufactured specifically for each project, taking into account the roof pitch, fascia/soffit and gutter detail.



The retrofit RF bracket can be used on existing roof areas to avoid removal and refitting of an existing gutter. Strengthening of the fascia and soffit may be required to accommodate the retrofit RF brackets.

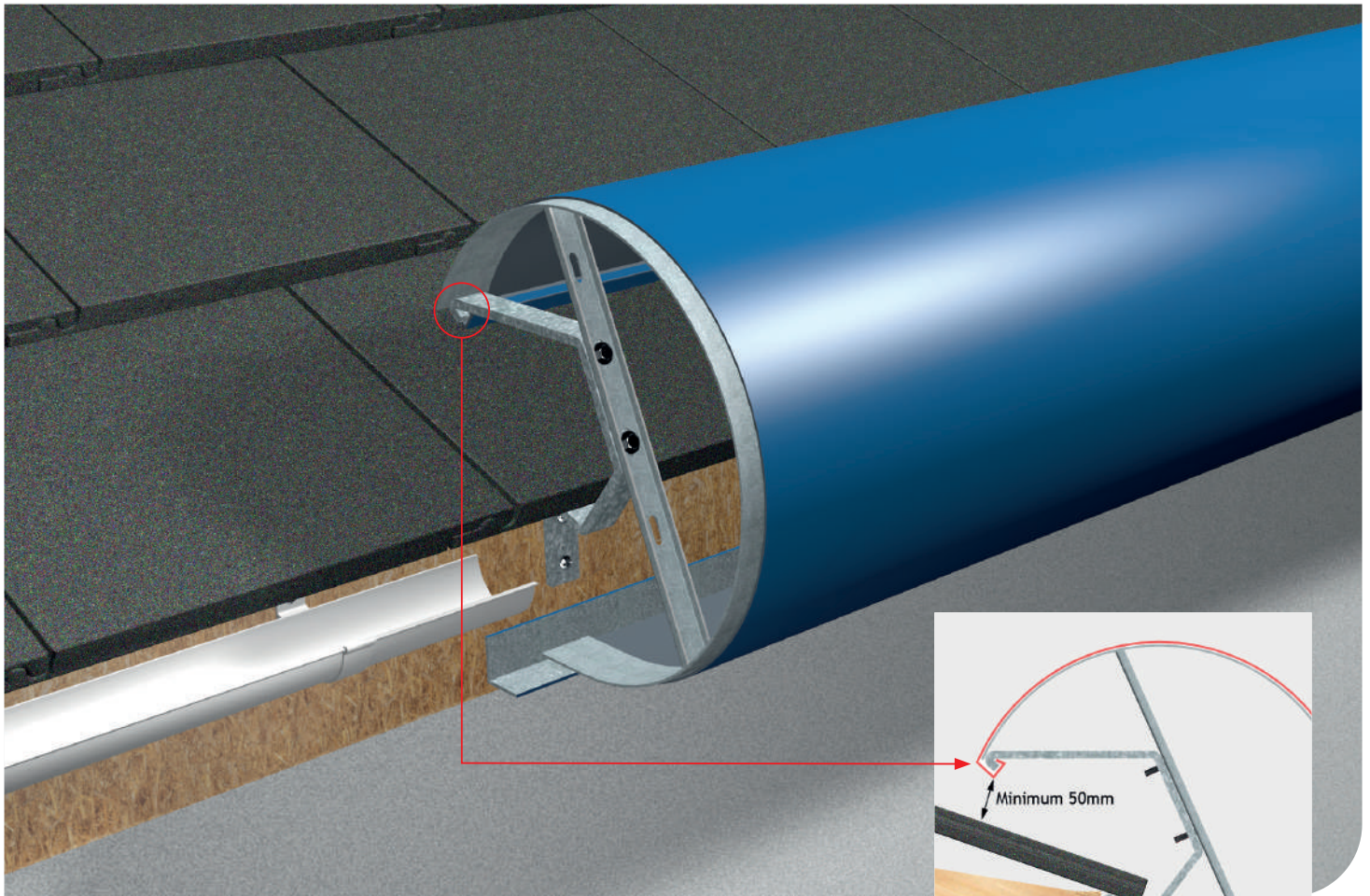
Setting out Plan: Generally, brackets are spaced at 625mm centres along the building. This may vary at internal and external corners, with differing requirements for each individual project. A make-up piece is installed every third Anti-Climb drum section for maintenance and future access to the roof. On large, complex roof areas, Alumasc can assist with the setting out plan.



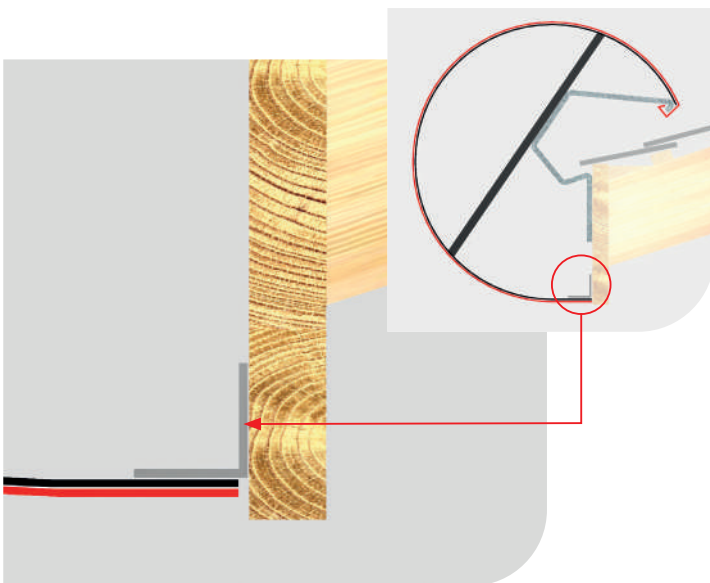
Where Skyline Anti-Climb barrier is integral with a rainwater disposal system, Alumasc's high security Guardian downpipes are typically used.



Pipe Covers: Alumasc can provide specially fabricated components to cover all manner of potential hazards. Typically this would include boxing of existing downpipes, cabling and other unsightly features of detailing.



1. Prior to installing the brackets, first check to ensure correct alignment of the proposed Anti-Climb system installation. Check that there is a minimum 50mm gap between the roof and the top edge of the Anti-Climb drum.

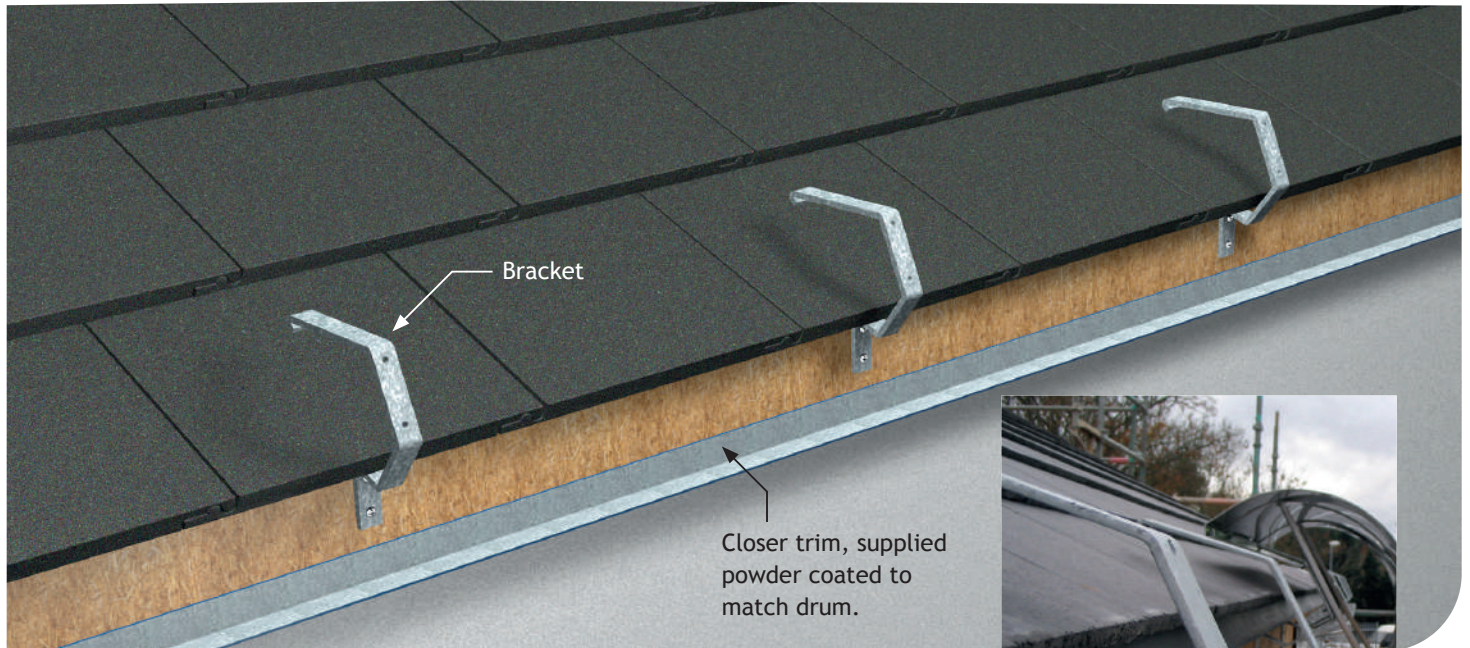


2. Before finalising the bracket position, check the position of the closer trim to ensure that the Anti-Climb drum is aligning correctly to the roof and fascia/soffit.

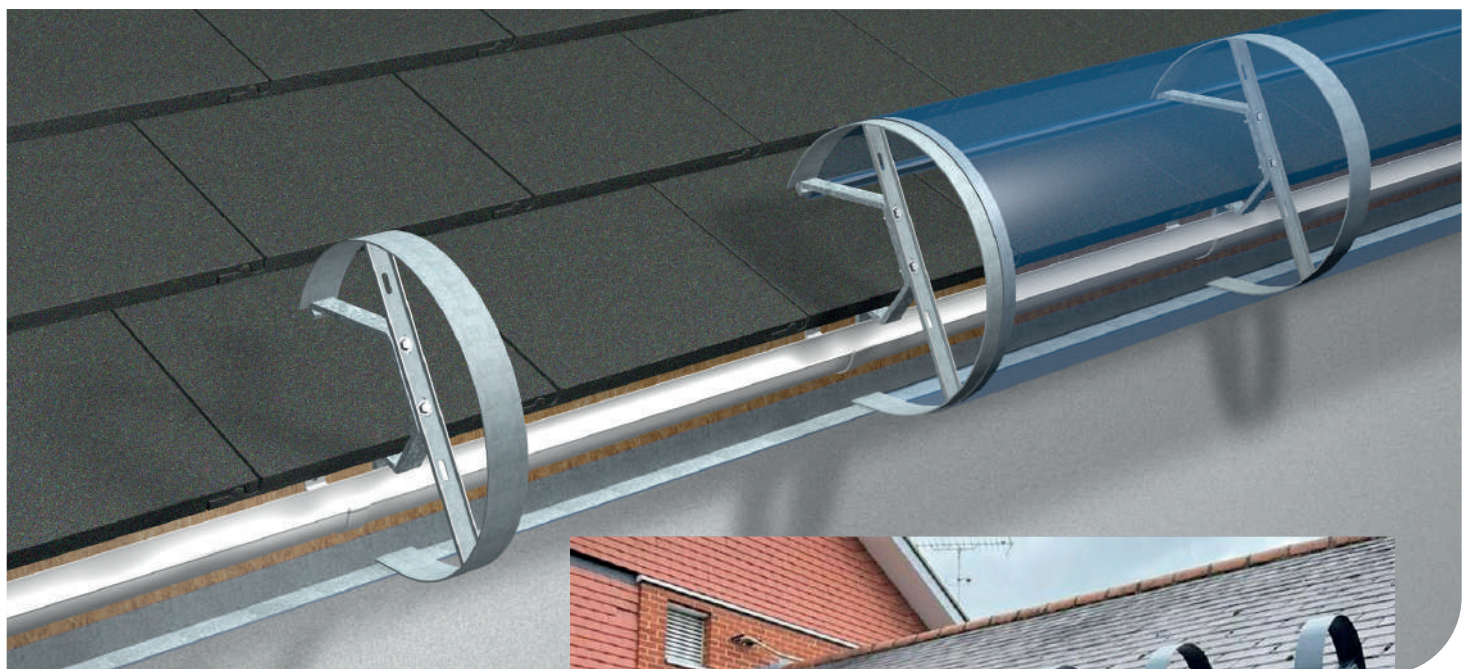


3. Check and measure gutter section to ensure that the braced union does not impede the gutter.

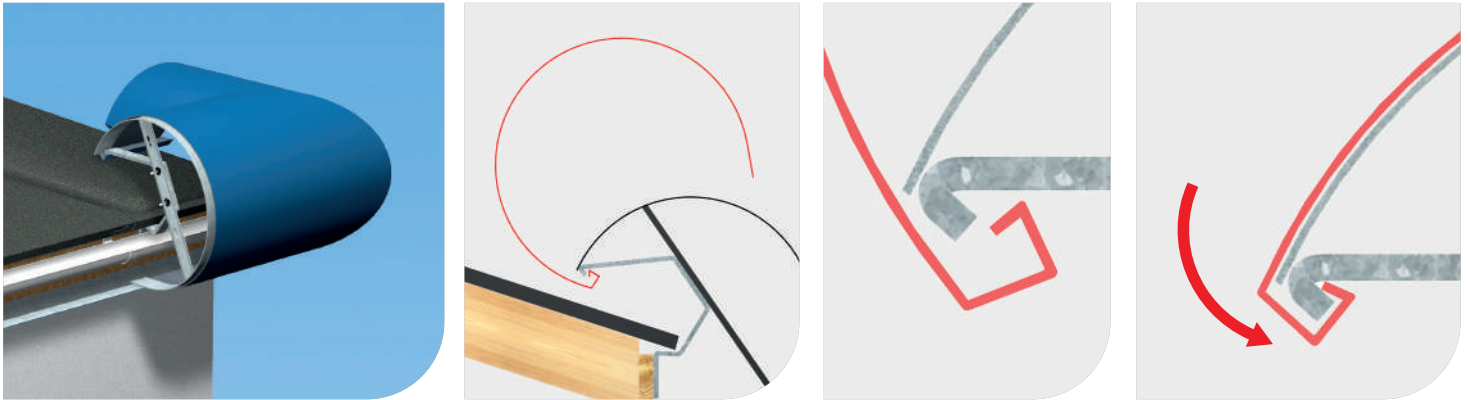




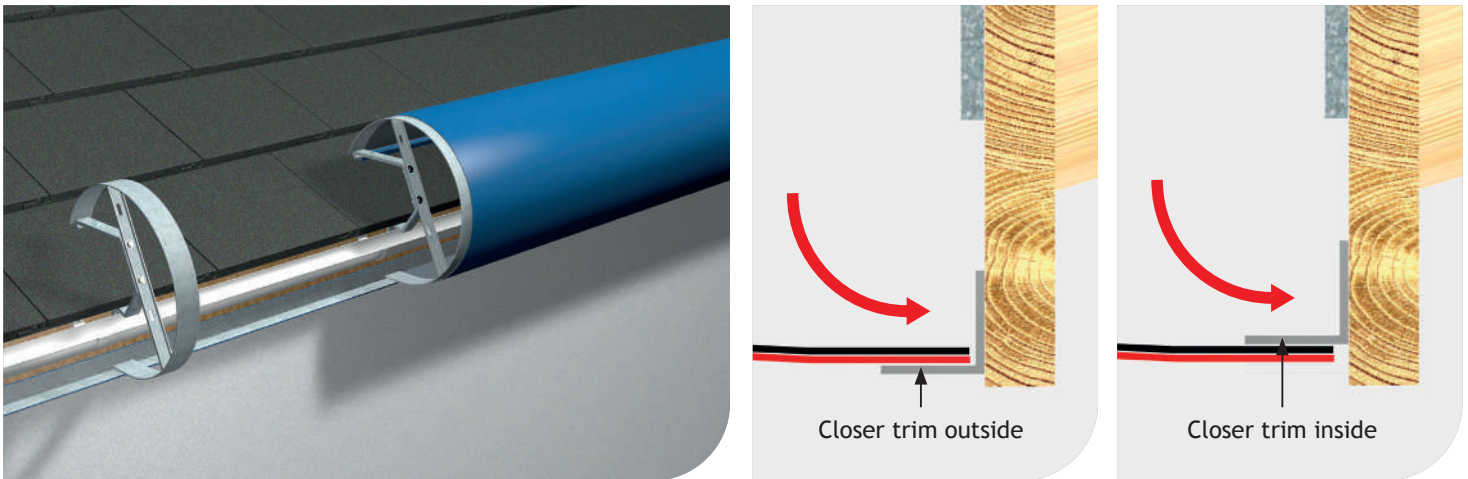
4. When the correct bracket position has been established, install the brackets at 625mm centres along the length of the building. If there are corners, then start at the corners and refer to the detailed setting out plan provided. Ensure accurate alignment of the brackets along the length of the building using a builders' string line. Use the correct fixings appropriate to the substrate: a minimum screw size of No.12 x 50mm is recommended. *Note: additional support timber may be required.*



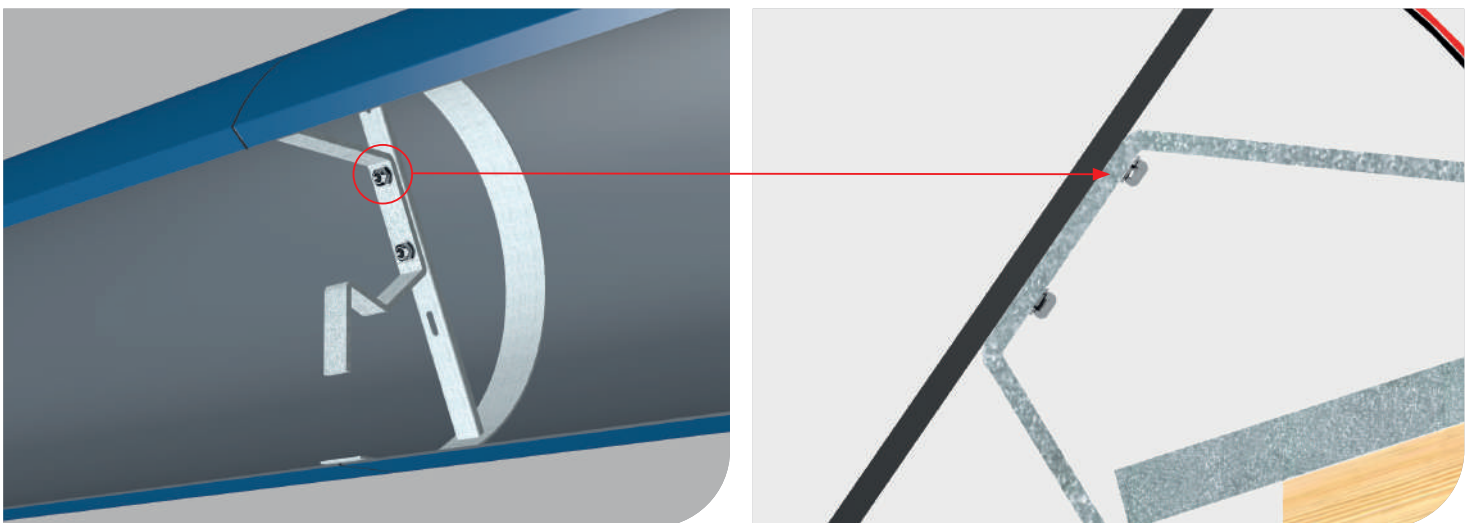
5. With brackets securely in position, proceed to bolt all the braced unions to the brackets, using the 2x M6 nut/bolt/washer provided. Note that a 'shakeproof washer' (supplied) must be included at every fixing. Use a string line to align the unions (this will help later when installing the Anti-Climb drum).



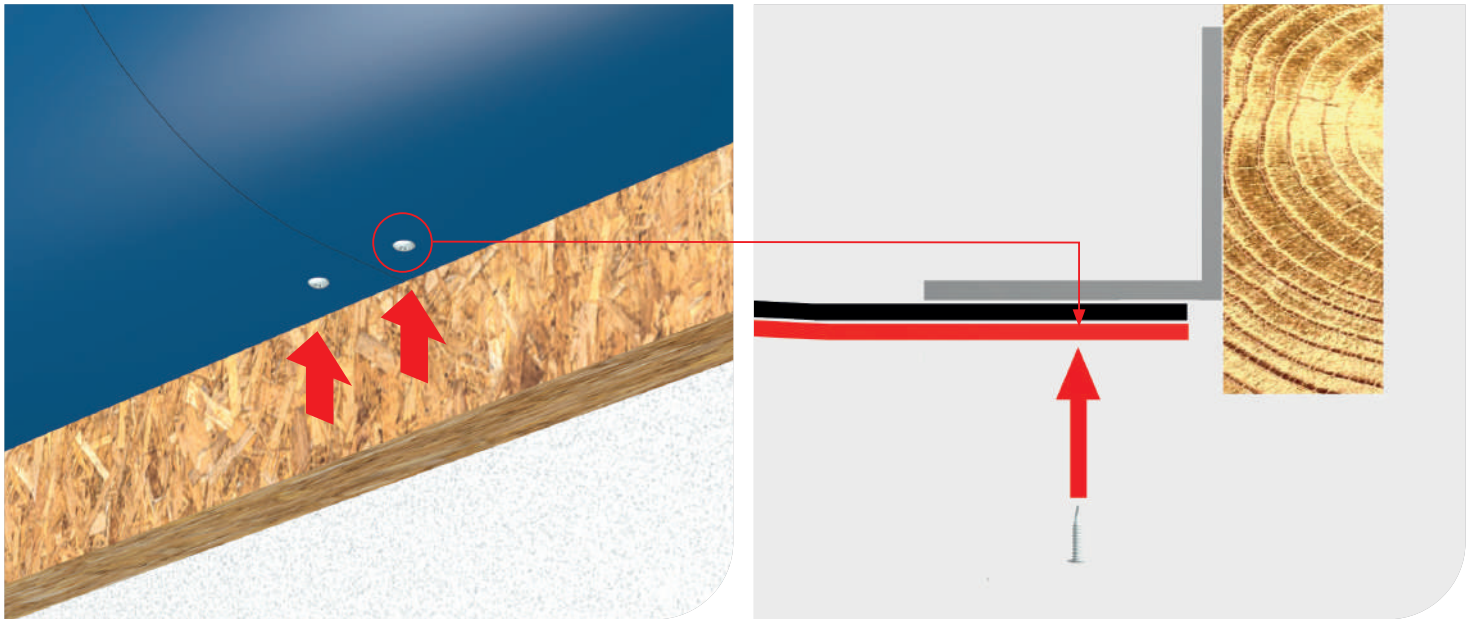
6. Starting from one end, install the drum components in sequence by hooking over the top of the braced union and fix the bottom edge to the trim at the fascia/soffit. If the building has a corner angle, then start at the corner, ensuring that the corner components fit correctly and that the joint is positioned at the centre point of the next braced union.



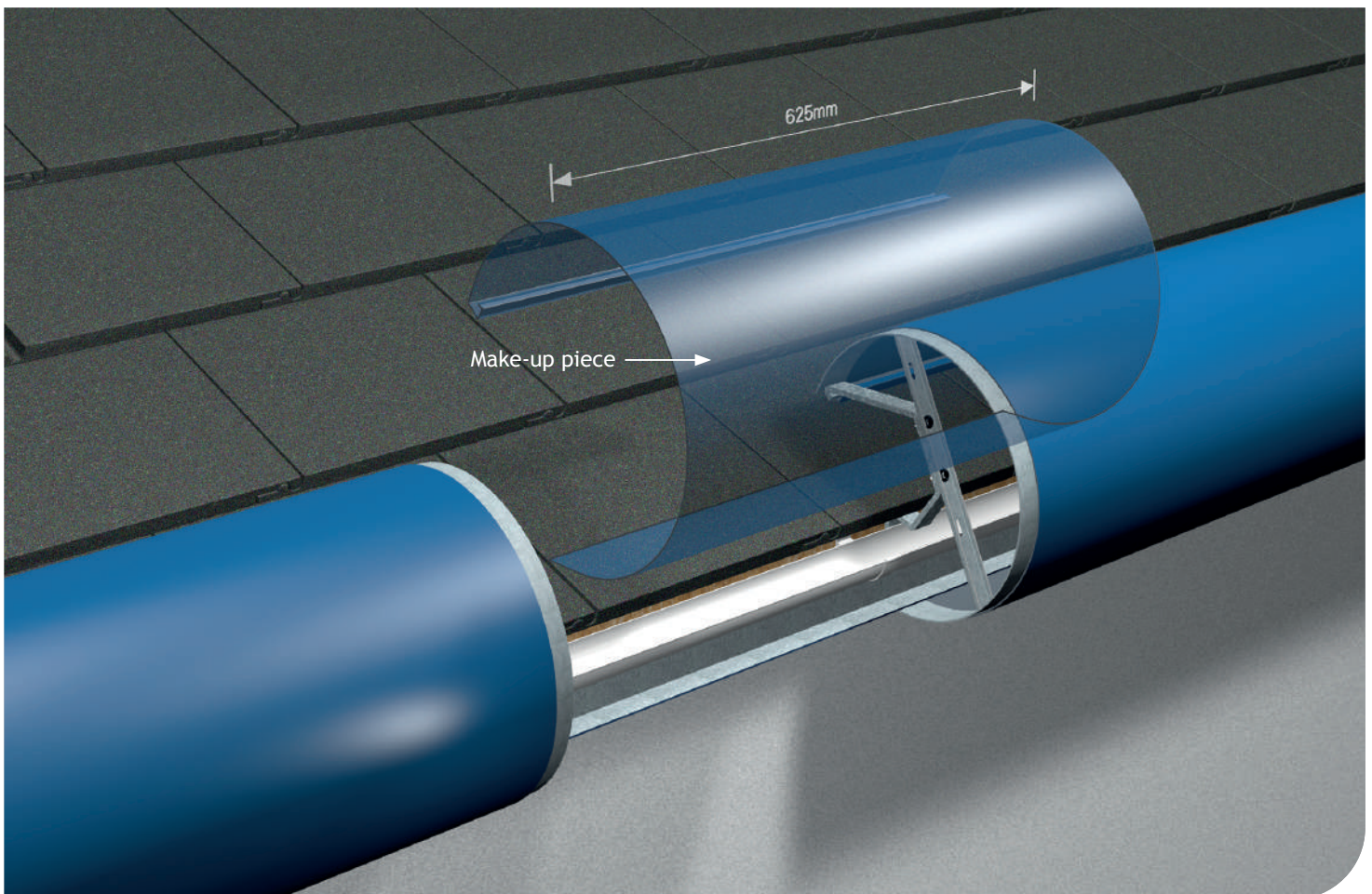
7. Once firmly in position, the base of the Anti-Climb drum should overlap and align with the bottom closer trim at the fascia/soffit. If any adjustments are required, then this should be done now prior to fixing the next drum.



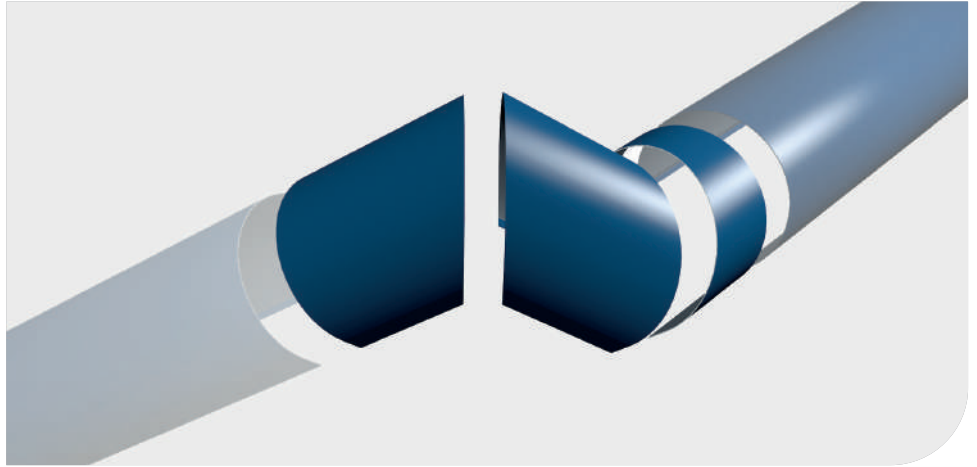
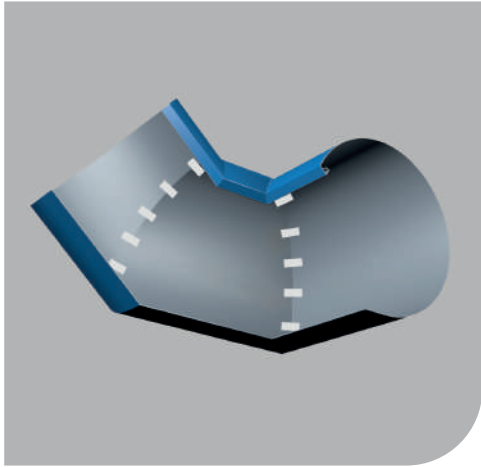
- 7a. To adjust drum, simply reach into the drum from the open side, and loosen the bolts on the central braced union and the open side braced union. Make the required adjustment and re-tighten the bolts. Carry out this procedure on each Anti-Climb drum length before proceeding to the next. This will ensure correct alignment as installation proceeds. Be aware that a drum cannot be adjusted once the next drum is in position. It is therefore critical that each Anti-Climb drum section is adjusted as installation proceeds. Failure to do so may result in product having to be completely removed and re-installed.



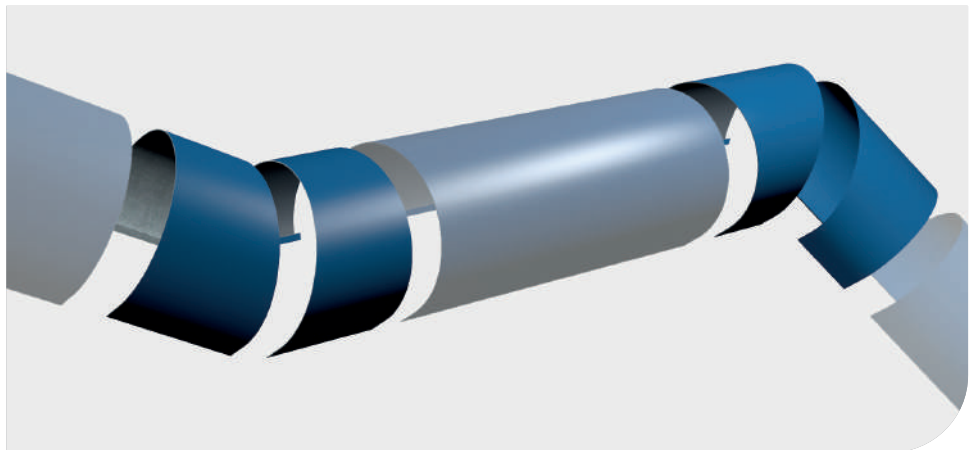
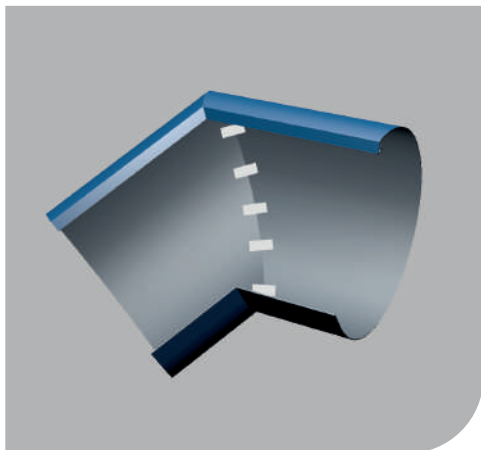
8. Fix the drum to the closer trim using high security low profile colour matched fixings. Ensure that the hole through the Anti-Climb drum and union are oversized (usually 8mm for 6mm fixing) to allow for expansion and contraction. Once in position and in alignment, proceed to fix around the circumference of the drum at 250mm maximum centres (as shown in point 12).



9. At every 3rd length of Anti-Climb drum a make-up piece should be installed. This allows for future maintenance and access to the roof area. Fix the make-up piece using the same procedure as described for the drum in point 8.



10. **Raking Angle:** all corners and raking angles are manufactured in separate pieces to allow for site installation onto the braced union. Each Anti-Climb section should be installed in turn, working around the corner then up the gable. The corner mitre joints employ connection strips as shown. These should be fixed using rivets (or low profile high security colour matched fixings). Space these at regular intervals around the circumference of the drum (250mm maximum centres).



11. **Apex Angle:** these should be installed using the same method outlined in point 10. Each drum section should be installed in turn, working to the apex.

12. **End Cap:** these push into the Anti-Climb drum section and should be fixed in position using rivets (or low profile high security colour matched fixings). A minimum of 5 fixings is recommended on each joint (250mm maximum centres).

