



# ASCENT™ Aluminium Walkways

## For Metal Profile Roofing Systems

Safety Fabrications has a long history of working within the construction industry providing permanent safe access walkways for inspection, repair and maintenance on pitched and flat roofs.

### Industrial Knowledge and Heritage

Safety Fabrications is based in the heartland of Sheffield's manufacturing industry and has a philosophy of supporting local suppliers. We work closely with them using their experience and skills to meet the exacting time and quality standards the construction industry demands.

### Design Principles

The Ascent range of aluminium walkways is a standardised modular system allowing specifiers to design compliant walkways for access on all major manufacturers and their metal profile roofing systems. A guardrail system can be added to either one or both sides of walkway.

### Compliance

Safety Fabrications Aluminium walkways are manufactured in accordance with CE certification. They are tested to BS EN 516:2006 Class 1 Type C meeting all the Health and Safety requirements demanded.

The range of standard componentry fixes to roofs of differing slope and profiles. The walkway can be configured with a handrail to withstand a loading of either 0.36 kN (general duty) or 0.74 kN (heavy duty) and can be supplied with an optional toeboard if required. The Ascent walkway is unique in that it can achieve these loadings without the need for additional bracing—allowing the walkway to be placed against the area to be accessed.

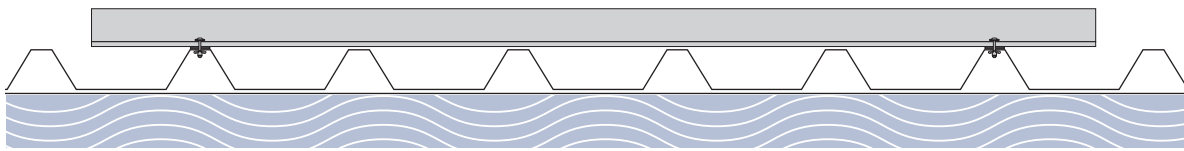
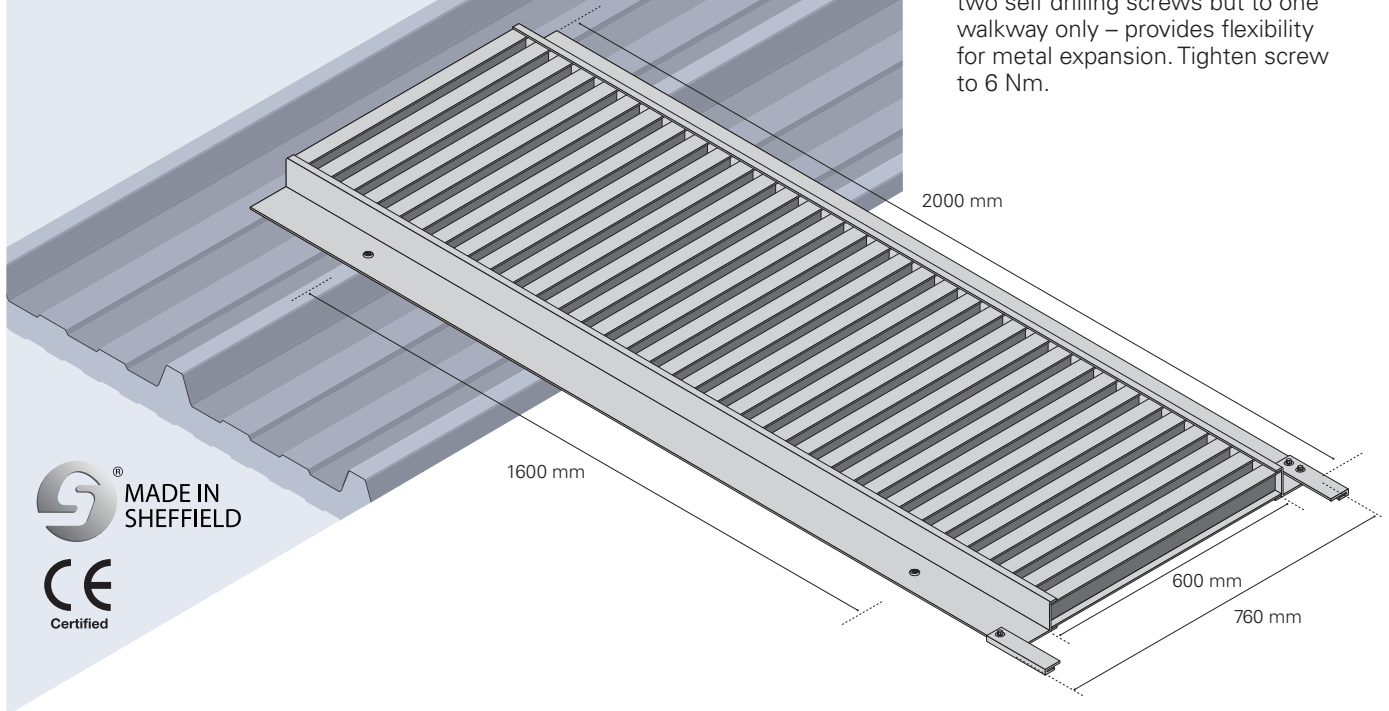


# ASCENT™ Aluminium Walkways

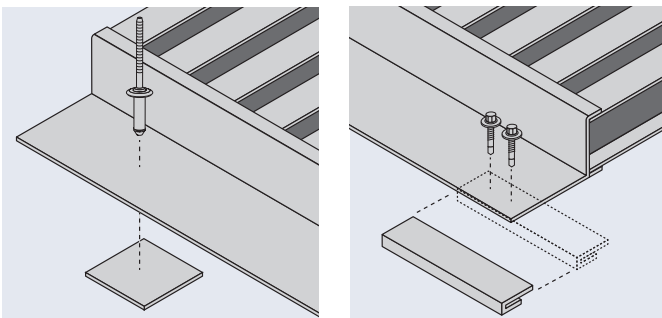
SPECIFICATION DETAILS  
FOR METAL PROFILE  
ROOFING SYSTEMS

## INSTALLATION GUIDE; Laying Walkways across the Fall of the Roof on Roof Pitches Less than 3°

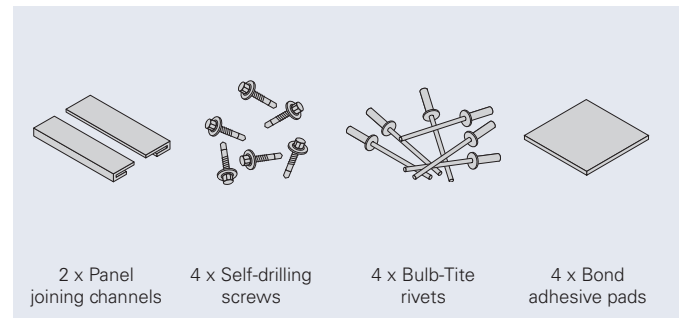
- Locate fixing position on crown of roof sheet.
- Affix hi-bond adhesive pad to contact surface of walkway.
- Drill (8 mm diameter) hole through walkway hi-bond pad & roof-sheet.
- Affix using RV6603/9/6W-Bulb-Tite rivet.
- Fix joining channel to walkway using two self drilling screws but to one walkway only – provides flexibility for metal expansion. Tighten screw to 6 Nm.



### Fixing Detail

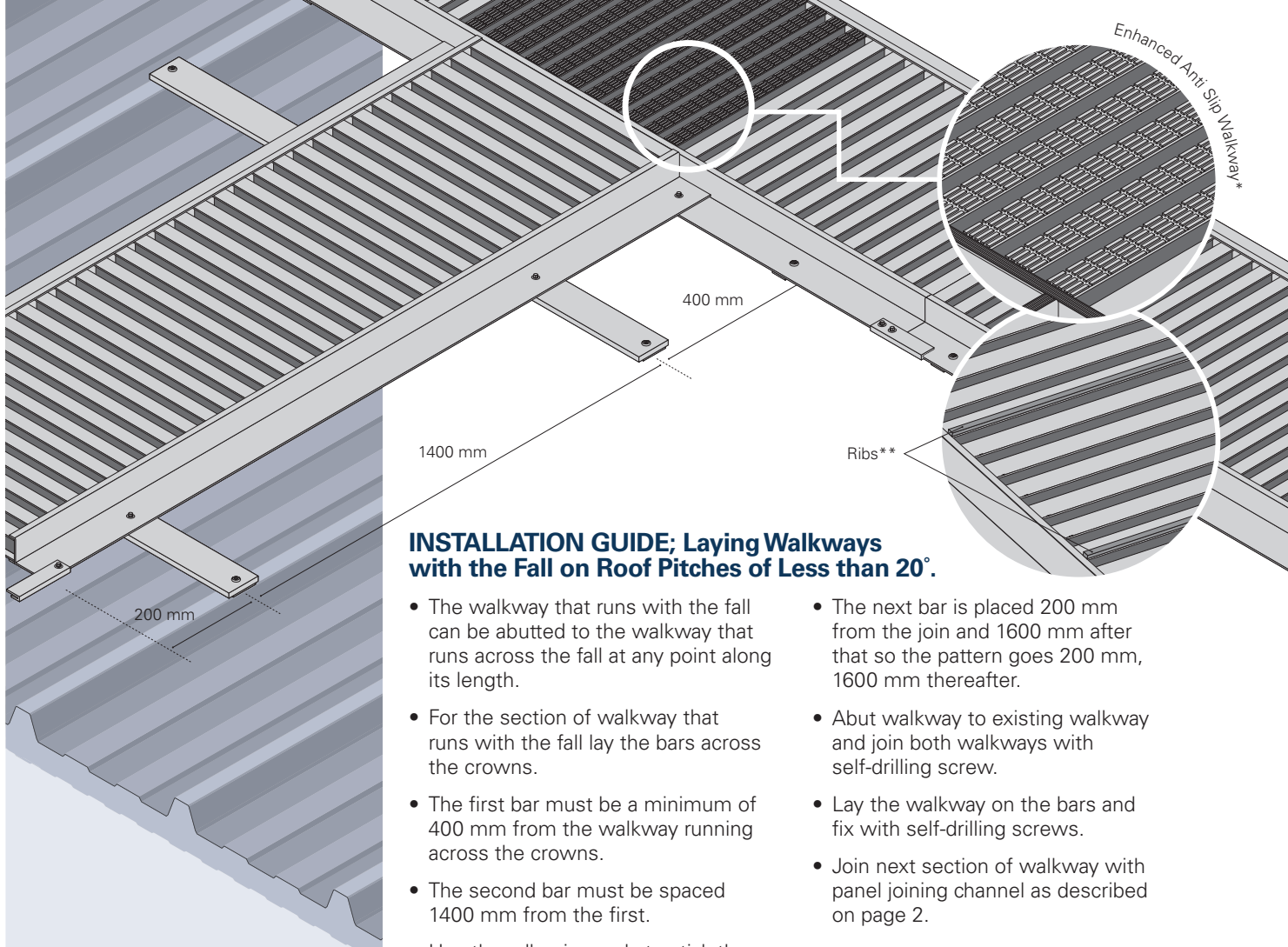


### Components



**Expansion Joints:** An expansion joint of 5 mm must be incorporated in every walkway made from joined panels 6000 mm in length.





### INSTALLATION GUIDE; Laying Walkways with the Fall on Roof Pitches of Less than 20°.

- The walkway that runs with the fall can be abutted to the walkway that runs across the fall at any point along its length.
- For the section of walkway that runs with the fall lay the bars across the crowns.
- The first bar must be a minimum of 400 mm from the walkway running across the crowns.
- The second bar must be spaced 1400 mm from the first.
- Use the adhesive pads to stick the bar to the roof then rivet.
- The next bar is placed 200 mm from the join and 1600 mm after that so the pattern goes 200 mm, 1600 mm thereafter.
- Abut walkway to existing walkway and join both walkways with self-drilling screw.
- Lay the walkway on the bars and fix with self-drilling screws.
- Join next section of walkway with panel joining channel as described on page 2.

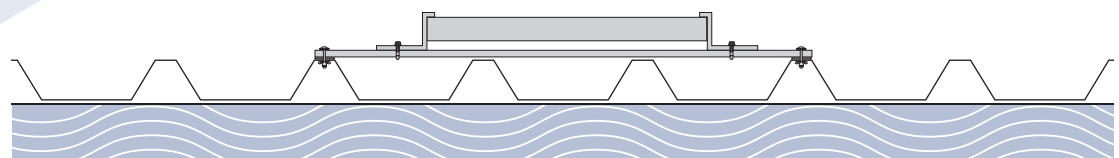
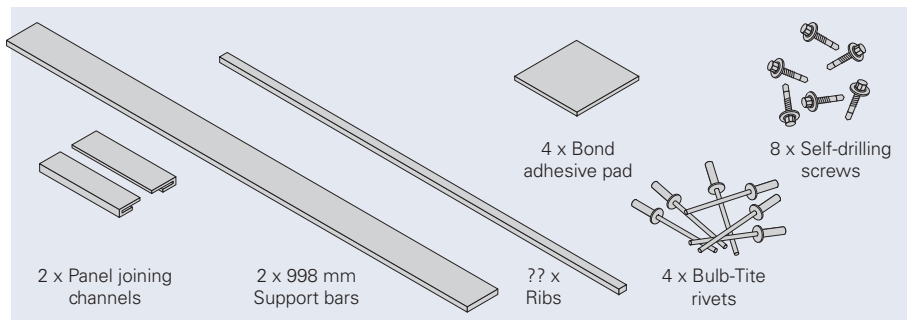
# ASCENT™ Aluminium Walkways

SPECIFICATION DETAILS FOR METAL PROFILE ROOFING SYSTEMS

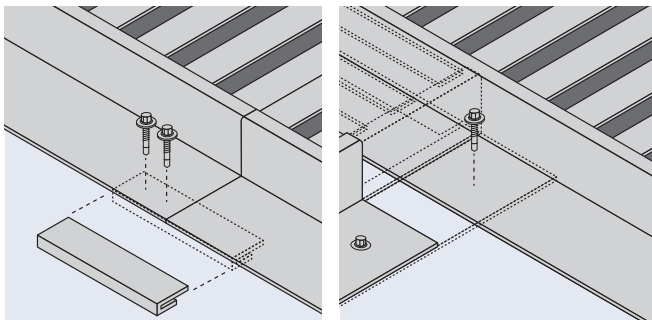
MADE IN SHEFFIELD



### Components



### Fixing Detail



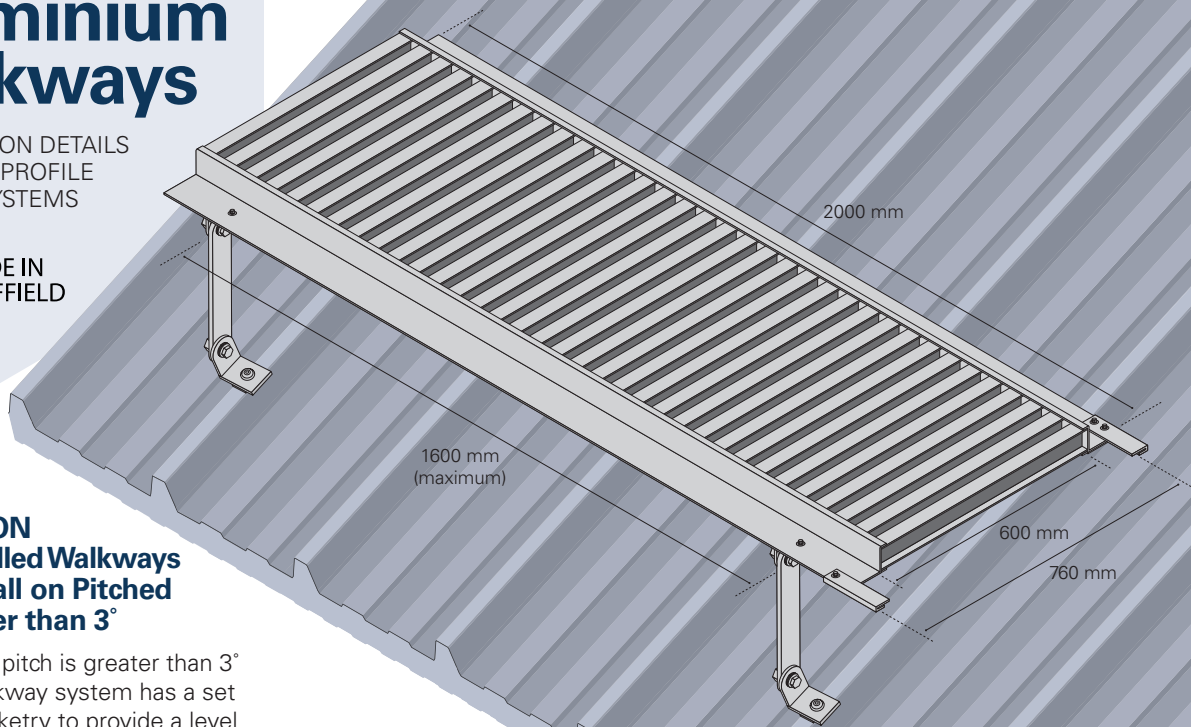
**Upon completion check all fixings are to the required torque settings: Self drilling screws 6 Nm**

\*Enhanced Anti Slip Walkway—slip resistance testing requirement—BS 7976-2:2002+A1:2013 on panel, corner and T-junction configuration. \*\*The walkway can be used as a ramp up to 20°. Up to 10° standard panels are used, over 10° additional ribs are required to increase slip resistance.



# ASCENT™ Aluminium Walkways

SPECIFICATION DETAILS  
FOR METAL PROFILE  
ROOFING SYSTEMS

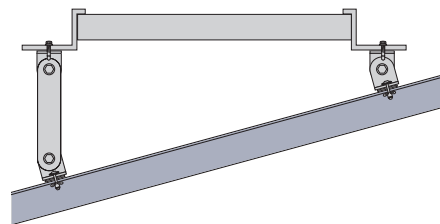
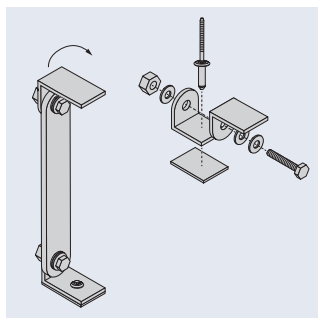


## INSTALLATION GUIDE; Levelled Walkways across the Fall on Pitched Roofs Greater than 3°

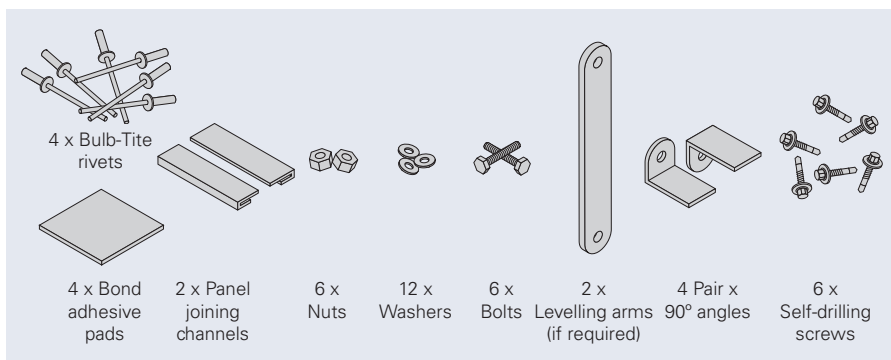
Where the roof pitch is greater than 3° the Ascent Walkway system has a set of levelling bracketry to provide a level, compliant walkway.

- Brackets need to be placed in a line across the crowns sited approx. 200 mm from each end of the walkway leaving a middle spacing of maximum 1600 mm.
- The upper brackets must be positioned first, stuck with adhesive pads and riveted.
- The upper support bracket consists of x 2 90° angles joined by a M12 bolt and four washers, the nylon washers separating two metal surfaces.
- Once in the correct position tighten to 50 Nm.
- The bottom brackets need to be stuck and riveted to the crowns, taking care to position correctly.
- The levelling arm is then bolted to the angle using a M12 bolt. Bolt the top of the levelling arm to another 90° angle.
- Loosely tighten so that the height of the arm can be adjusted to ensure the walkway can be levelled. Once in the correct position tighten the bolts to 50 Nm.
- Lay the walkway on the 'upper' brackets and temporarily hold in place with suitable clamps. The bottom brackets can then be adjusted to ensure the walkway is level.
- Once level fix the walkway to the brackets using a self-drilling screws.
- Join the next walkway using panel joining channels as previously described.

### Fixing Detail



### Components

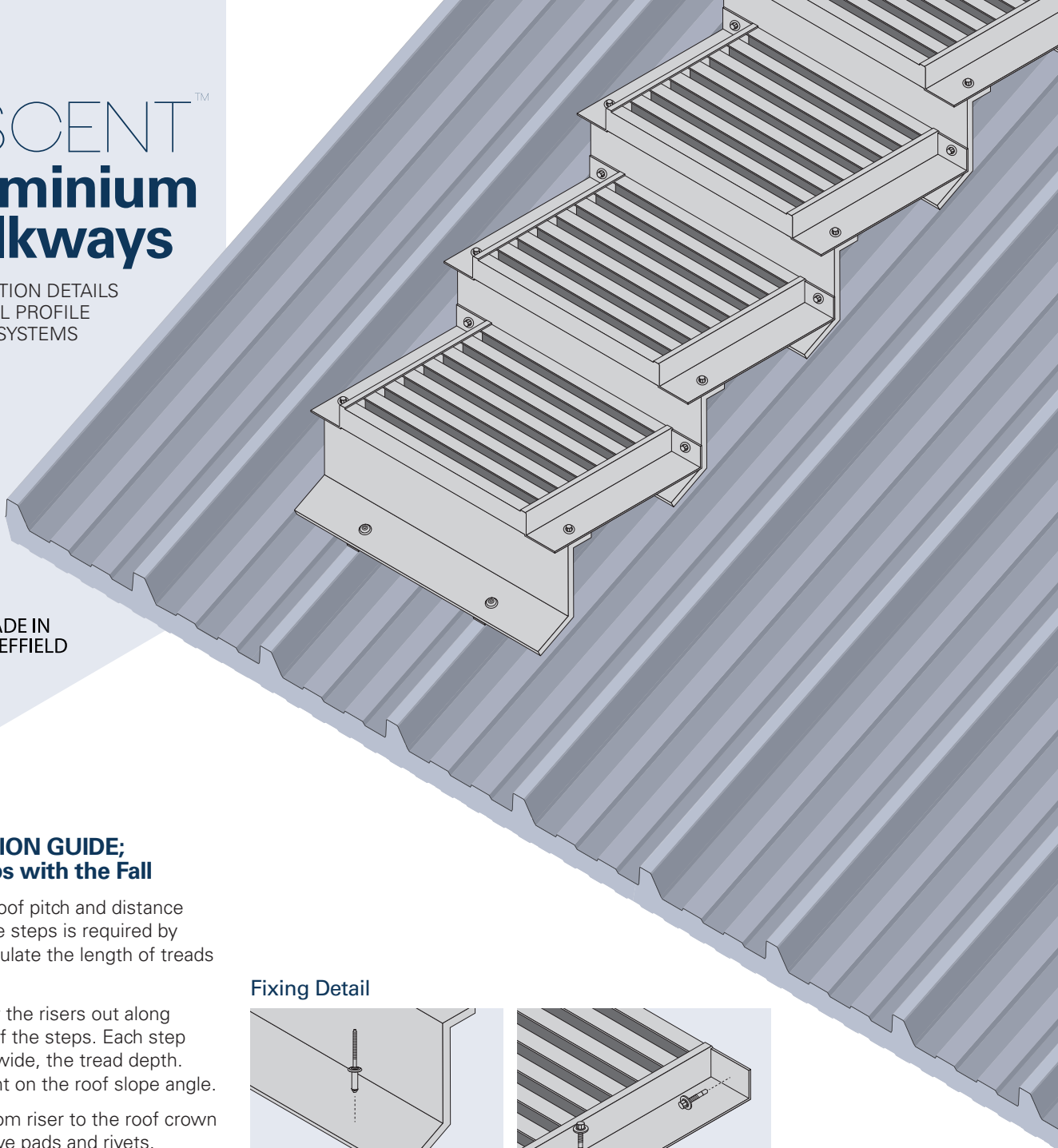


**Upon completion check all fixings are to the required torque settings:**

Self-drilling screws 6 Nm / Bolts holding walkway arms 50 Nm

# ASCENT™ Aluminium Walkways

SPECIFICATION DETAILS  
FOR METAL PROFILE  
ROOFING SYSTEMS

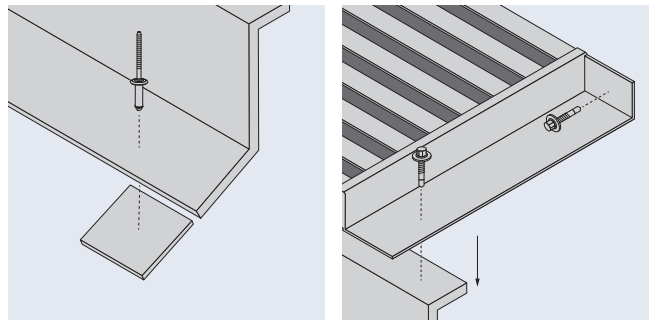


## INSTALLATION GUIDE; Laying steps with the Fall

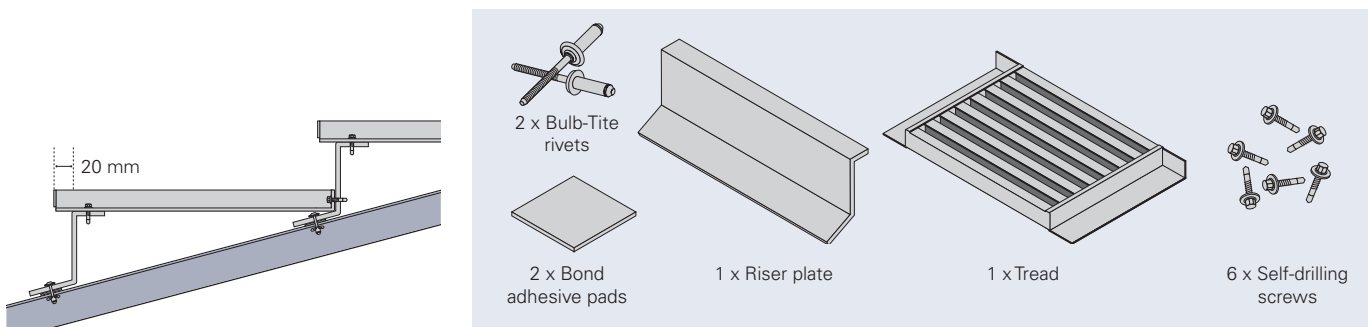
The angle of roof pitch and distance covered by the steps is required by Ascent to calculate the length of treads and fall.

- Carefully lay the risers out along the length of the steps. Each step is 600 mm wide, the tread depth. Is dependent on the roof slope angle.
- Fix the bottom riser to the roof crown with adhesive pads and rivets.
- Lay the step on the top of the riser and using a spirit level check the tread is level. Fix the next riser to the roof with an adhesive pad, rivet to the roof. Then rivet first step to the two risers and repeat for remaining steps.

### Fixing Detail



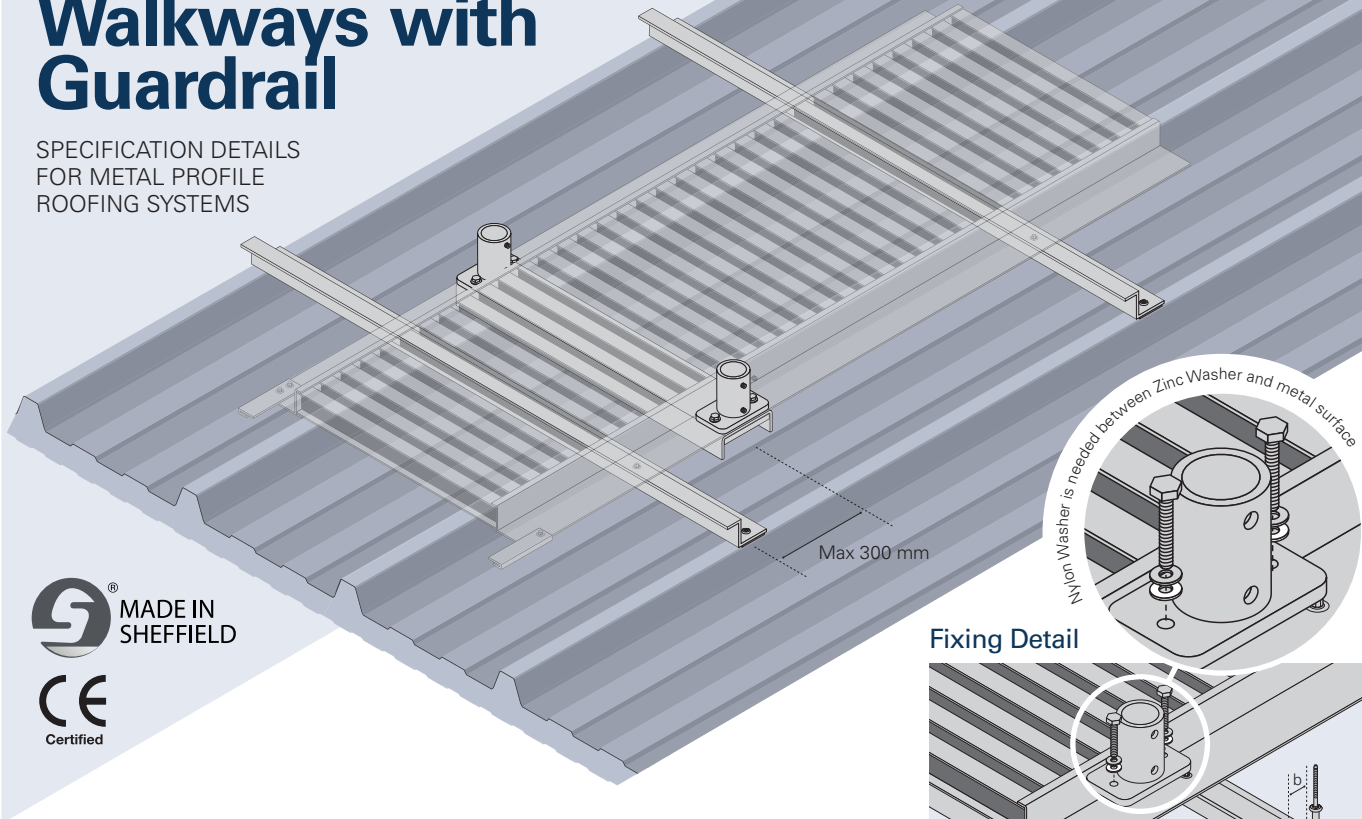
### Components



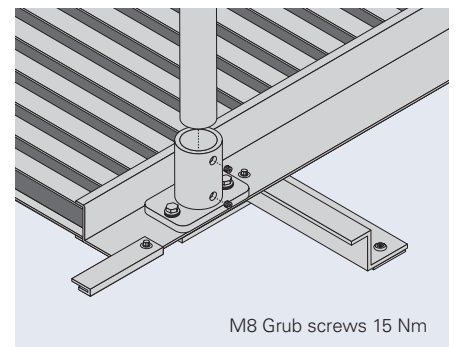
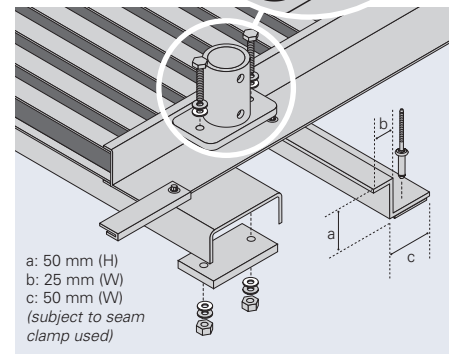
**Ensure everything is tightened to correct torque settings:**  
Self-drilling screws 6 Nm

# ASCENT™ Aluminium Walkways with Guardrail

SPECIFICATION DETAILS  
FOR METAL PROFILE  
ROOFING SYSTEMS



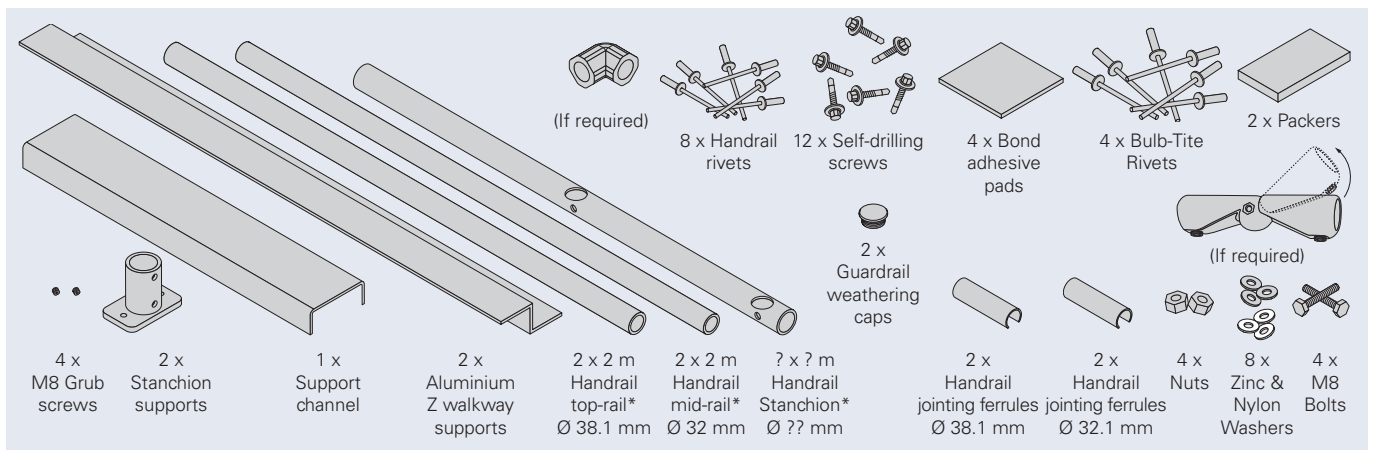
Fixing Detail



## INSTALLATION GUIDE; Fixing Aluminium Guardrail Walkway

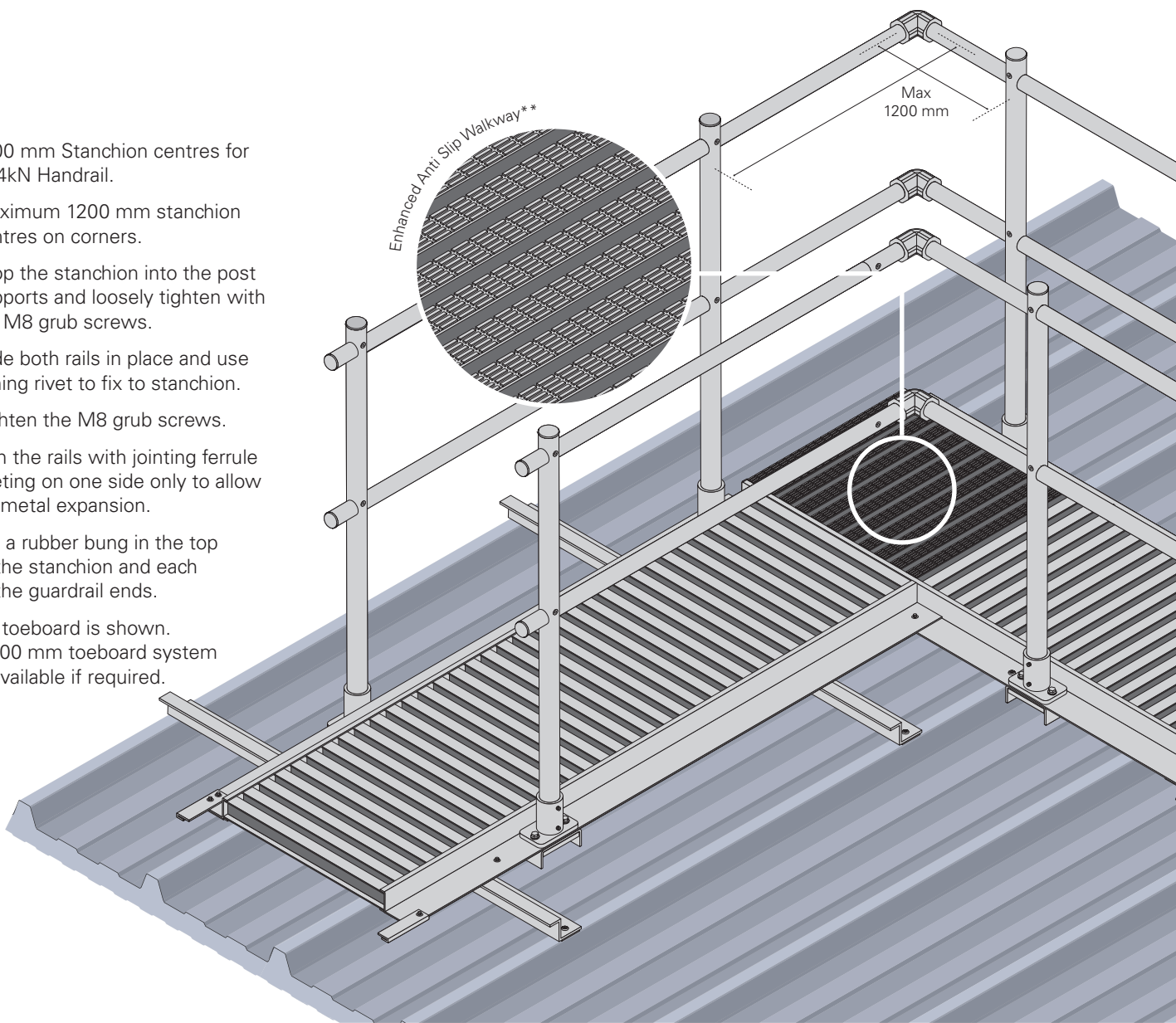
- Using adhesive pads and rivets fix the Z-sections to the roof crowns.
- Fit channel to underside of walkway using the M12 bolts, ensuring packer is in place beneath walkway and handrail base above.
- Using self drilling screws affix the walkway panel onto the Z sections, ensuring the handrail base is no more than 300 mm from the Z section.
- Place the post supports a maximum of 300 mm from the fixing point to the roof. The stanchion centres must not be more than 2000 mm apart.
- Hold support post in place with suitable clamps, drill through walkway.
- Slide support channel under the walkway, put packer in place and tighten post support with M12 bolts ensuring nylon washer keeps metallic surfaces separated.
- 2000 mm Stanchion centres for 0.36kN Handrail.

## Components

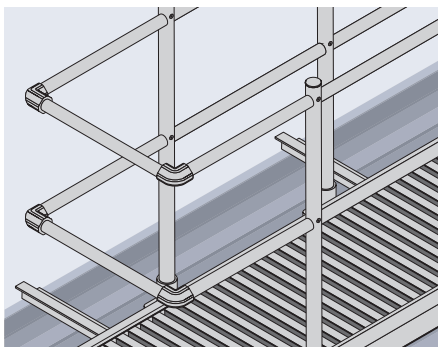


\*Assuming handrail to both sides

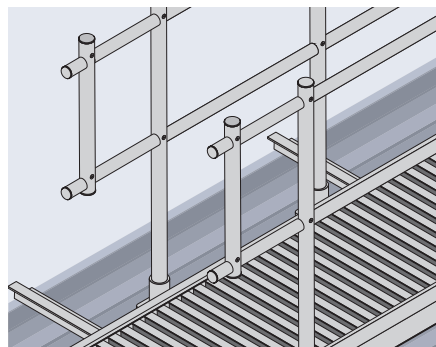
- 1000 mm Stanchion centres for 0.74kN Handrail.
- Maximum 1200 mm stanchion centres on corners.
- Drop the stanchion into the post supports and loosely tighten with x 2 M8 grub screws.
- Slide both rails in place and use joining rivet to fix to stanchion.
- Tighten the M8 grub screws.
- Join the rails with jointing ferrule riveting on one side only to allow for metal expansion.
- Put a rubber bung in the top of the stanchion and each of the guardrail ends.
- No toeboard is shown. A 100 mm toeboard system is available if required.



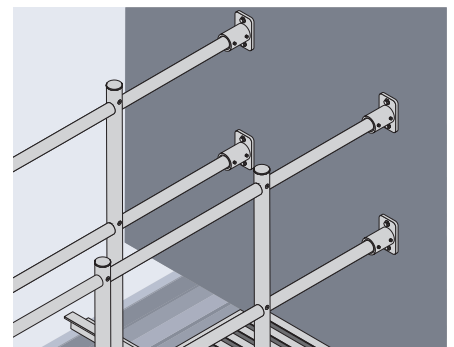
Guardrail closed end detail



Guardrail open end detail

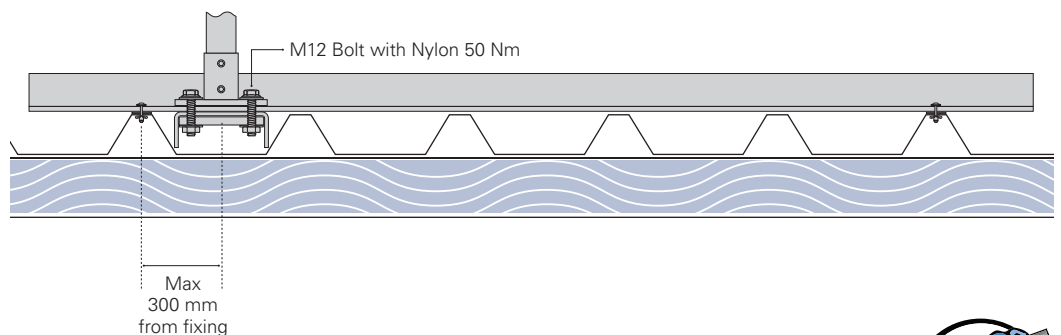


Guardrail wall fix detail



**Ensure everything is tightened to correct torque settings:**

Self drill screws 6 Nm /  
Grub screws on tube fittings 29 Nm / Handrail stanchion grub screws 15 Nm / M12 bolts 50 Nm / Bulb rivets with rivet tool



\*\*Enhanced Anti Slip Walkway—slip resistance testing requirement—BS 7976-2:2002+A1:2013 on panel, corner and T-junction configuration.



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