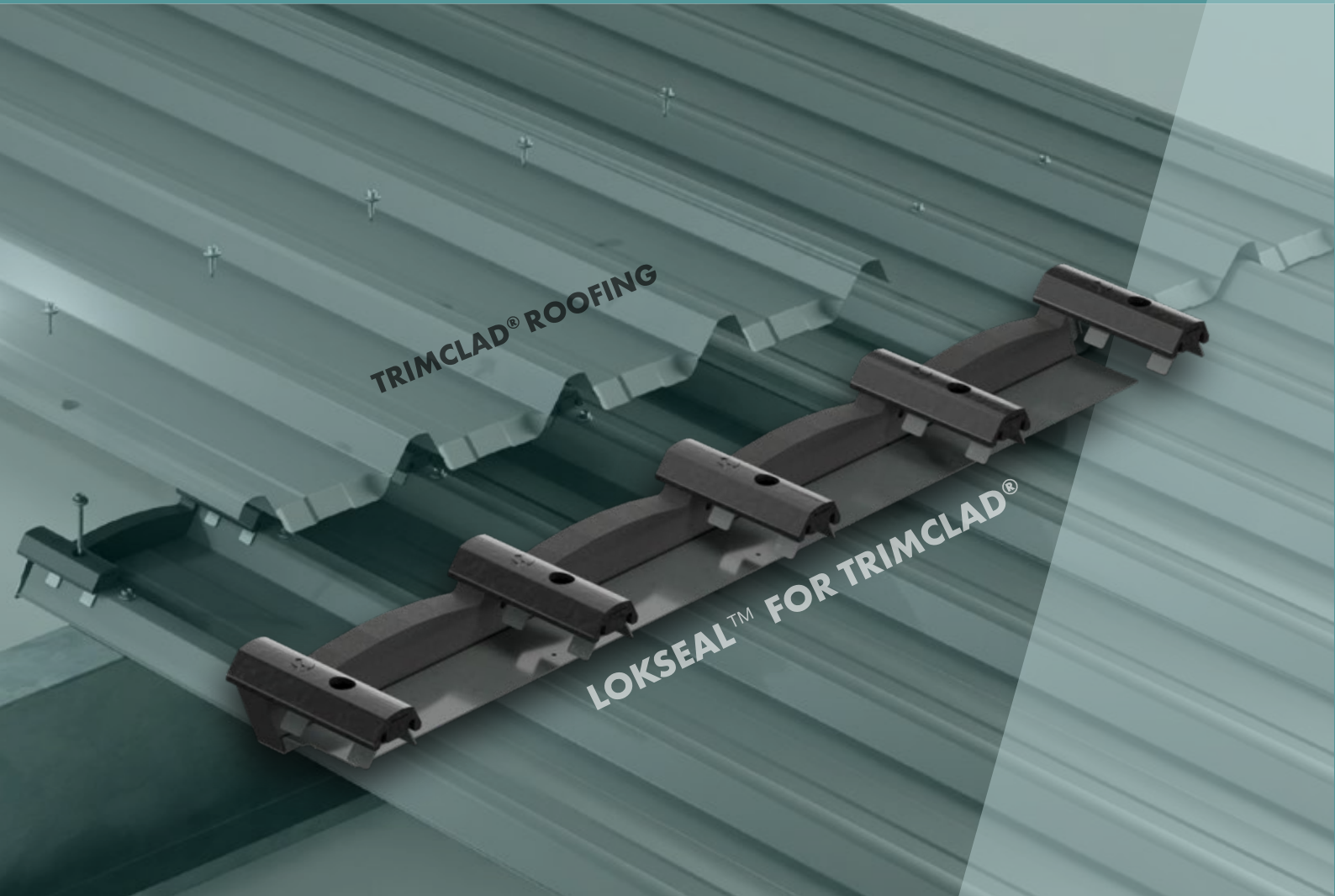




lokseal™

FOR TRIMCLAD® ROOFING

ROOF LAP JOINT SYSTEM



A Met-TECH™ GUIDE

NOVEMBER 2025



Metroll®

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lokseal™

TRIMCLAD EDITION



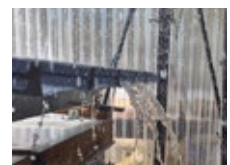
WHAT IS LOKSEAL™ TRIMCLAD® EDITION?

LOKSEAL™ is a patented roof lap joining and sealing system for Trimclad® roofing, providing roofing installers with a fast and easy, cost effective solution to long-length roof sheet spans. LOKSEAL™ is a high-strength steel clip that has been tested to withstand the rigours of high wind and rainfall events.

TESTED AT JAMES COOK UNIVERSITY CYCLONE TESTING STATION

Uplift tested to comply with Australian Standards AS/ NZS 1170.2. Testing for LOKSEAL™ was undertaken at James Cook University (JCU) Cyclone Testing Station. The objective was to evaluate the lap expansion/ seal joint's ability to withstand extreme weather conditions, specifically those associated with 1 in 100 year maximum rainfall events and wind loads, in accordance with Australian Standard AS3500.3.

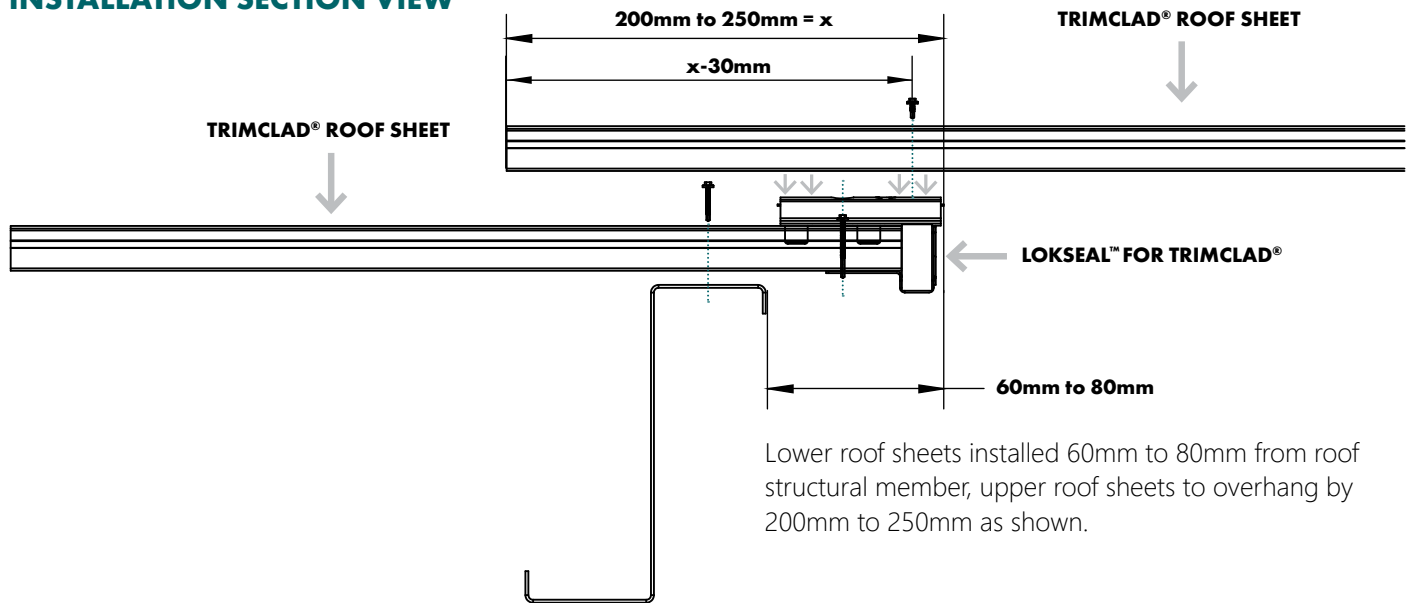
The test simulated a worst-case scenario involving rainfall runoff rates of approximately 10 litres per metre per minute and wind speeds ranging from 55 to 60 km/h. These wind forces were applied at an angle parallel to the roof sheet surface (i.e., 0 degrees), representing the most severe wind-driven rain conditions. Testing was conducted with a turned-down overlap sheet to replicate standard installation practice.



What is Met-TECH™?

Met-TECH™ is Metroll's Technical Resource Centre. It is the one stop shop for all of Metroll's product and technical information. Perfect for builders, contractors and specifiers to source all the information they may require. You can find other Met-TECH™ items on our website www.metroll.com.au/resources

INSTALLATION SECTION VIEW



INSTALLATION STEPS FOR TRIMCLAD® ROOF SHEETS

STEP 1

Do not turn up the underlapping sheet. Screw roof sheet down onto purlin. Fasteners and installation should be as per the Trimclad® Design and Installation Guide.

STEP 2

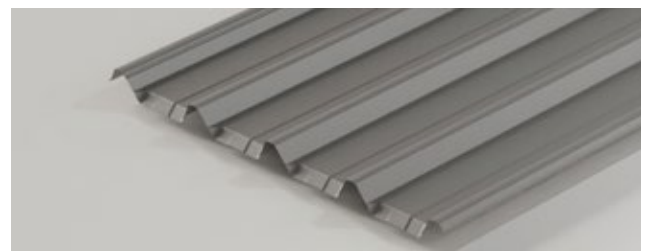
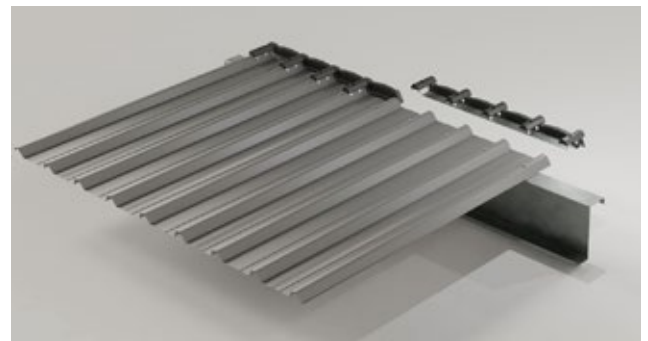
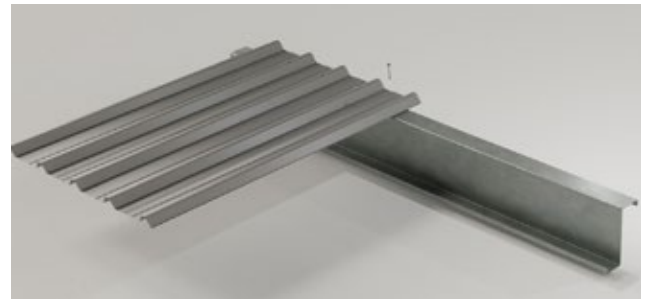
Slide the LOKSEAL™ length into the ribs of the roof sheet, fix M6 x 50 hex head roof zip screw through each bracket to securely attach the LOKSEAL™ to the roof sheet. Continue this step down the length of the lower run of roof sheets. Ensure LOKSEAL™ is pressed against the roof sheet when fixing tek screw to achieve seal. Ensure the screw is fixed through the hole in the top of the bracket. Ensure the screw captures and attaches to the bottom rail fully.

STEP 3

Turn down the pan section of upper run of roof sheets.

STEP 4

Install the upper run of roof sheets, LOKSEAL™ is then encased between the joining roof sheets and forms a strong connection and sealed joint of the upper and lower roof sheets. Use one #12 x 20mm hex head self-drilling screw per rib to fix the top roof sheet to LOKSEAL™ as per dimensions on installation section view on page 2 between the rail screw and the foam. Use a string line to line up screw before fixing.



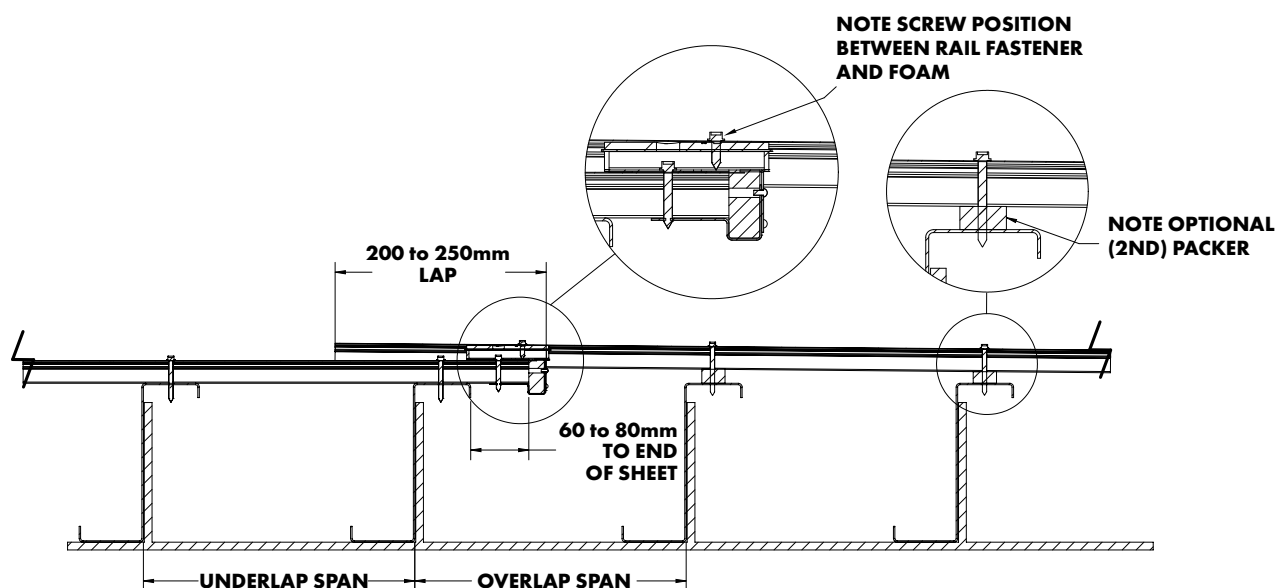
SPAN PRESSURES & DESIGN NOTES

When LOKSEAL™ Trimclad® Edition is used in conjunction with the Trimclad® roof system, the spans, pressures and design notes in the Trimclad® Design and Installation Guide remain unchanged with the following conditions:

- The lapping spans at each joint shall be regarded as end spans for the purpose of determining wind and foot traffic capacity.
- Any roof penetration must be a minimum distance of 1500mm from a Lokseal roof lap joint.
- At low roof pitches the overlapping end span may require the use of packers below the sheet on at least the next purlin up from the joint. Table A gives the minimum overlapping span for the roof pitch and packer thickness. If 10mm packers are used on the first purlin upstream, and 5mm packers on the second purlin, then the minimum end span drops to approximately 400mm regardless of roof pitch. Where a packer is used the screw length needs to be proportionally longer.

TABLE A - MINIMUM OVERLAPPING ROOF SPAN mm

ROOF PITCH	PACKER THICKNESS		
	0 mm	5 mm	10 mm
2°	2300	1750	1150
2.5°	1150	900	600
3°	800	600	400
4°	500	350	250
5°	350	250	200



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