

ROOF RAZOR®

INSULATION SPACER FOR COMMERCIAL METAL ROOFING

Description

Roof Razor® is an insulation spacer specifically designed for Australian metal roof construction. It sits between the roof structure and the external cladding membrane, creating a space for insulation to recover to its full nominal thickness between purlins, reducing thermal bridging for metal roof construction. Roof Razor® is a spacer solution to the Section J requirement of the National Construction Code (NCC) that insulation must maintain its position and thickness between purlins forming a continuous thermal barrier.

Application

Roof Razor® is compatible with both pierced and concealed fix roof cladding and is suitable for use on roofs with a pitch up to and including 30°.

Roof Razor® is specifically designed for fixing to metal purlins. For all timber batten and truss applications requiring a spacer solution, please consult a structural engineer at design phase.

Features and Benefits

Suitable for roof pitches up to 30°	Accommodates most commercial roof applications.
Small footprint	Reducing the impact on thermal bridging.
Supplied with pre-loaded screws	Easy to install, does not require additional components such as starter blocks thus speeding up installation times.
Australian made	Specifically designed for Australian metal roof construction.
Available in a range of heights	To assist with the selection of Fletcher Insulation roofing blanket.
Delivered in multiple pallet drops along the roof	No need to move product down the line which reduces manual handling time and creates a safe and efficient work practice.
Compatible with both pierced and concealed fix roof cladding	Suitable for most commercial metal roofing manufacturer's roofing profiles.
1200mm length to match typical Permastop® Building Blanket width	Allows a direct line of sight to the purlin.
Cuts through insulation to give a direct connection to the purlin	Forms a strong secure connection to the purlin.

Compliance

- Compliant with section J of the NCC Clause J1.2(c)
- Structurally engineered and certified for use
- Roof Razor® Cyclonic is Low-High-Low (LHL) tested in accordance with NCC Volume 1 Specification B1.2.

Product Data

Product description	Spacer height mm	Spacer length mm	Pieces per pack	Lineal metres per pack	Product Code
Roof Razor® standard; with pre-loaded screws	60	1200	6	7.2	396299
	85	1200	6	7.2	396291
	115	1200	6	7.2	396292
Roof Razor® standard; without pre-loaded screws* (for fixing to timber battens)	85	1200	6	7.2	396295
	115	1200	6	7.2	396296
Roof Razor® cyclonic; with pre-loaded screws	60	1200	6	7.2	396300
	85	1200	6	7.2	396293
	115	1200	6	7.2	396294
Roof Razor® metal roof cyclonic; without pre-loaded screws	115	1200	6	7.2	396301

*Roof Razor® for fixing to timber battens is supplied without pre-loaded screws:

- For 85mm Roof Razor® Fletcher Insulation recommends screws that are 62mm long + penetration depth;
- For 115mm Roof Razor® Fletcher Insulation recommends screws that are 92mm long + penetration depth.

Note: penetration depth is determined based on the type of timber used in addition to the screw manufacturer's recommendations.

Physical Properties

Property	Roof Razor® Standard	Roof Razor® Cyclonic
Cover	1200mm	1200mm
Weight	2kg	3kg
Wind regions	A&B	C&D
Roof sheet fastener yield capacity	0.583 kN per 12g 14TPI (not supplied)	1.43 kN per 14g 10TPI (not supplied)
Batten material	1.15BMT G550 Z275	1.15BMT G550 Z275
Cyclonic insert	N/A	1.15BMT G550 Z275
Pre-loaded fasteners (for fixing to purlin)	6 x 12g 14TPI Class 4	6 x 14g 10TPI Class 4
Minimum purlin thickness	1.2 BMT	1.5 BMT
Minimum purlin surface required	50mm*	50mm*
Fastener centres	38mm	38mm
Dead load capacity^	205kg between legs irrespective of span	205kg between legs irrespective of span
Pack quantity	6	6
Pallet quantity and weight	60mm: 240 (40 packs), 500kg 85, & 115mm: 180 (30 packs), 400kg	60mm: 240 (40 packs), 680kg 85mm, 115mm: 180 (30 packs), 540kg
Pallet dimensions L x W x H (m)	60mm: 1.15 x 1.25 x 0.98 85mm: 1.15 x 1.25 x 0.80 115mm: 1.15 x 1.25 x 0.98	60mm: 1.15 x 1.25 x 0.98 85mm: 1.15 x 1.25 x 0.80 115mm: 1.15 x 1.25 x 0.98

* Roof Razor® requires a minimum full 50mm flat purlin surface, consult purlin manufacturers for exact purlin dimensions to ensure a full 50mm flat surface is available.

^ For load bearing information please contact Fletcher Insulation at technical@insulation.com.au

For more information call 1300 654 444
email info@insulation.com.au or web www.insulation.com.au

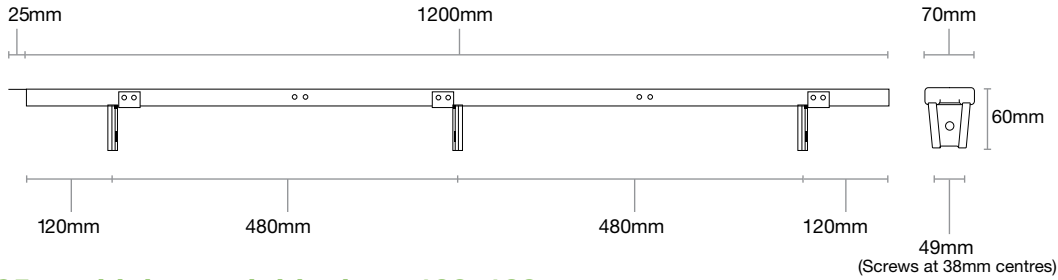
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Material Specifications

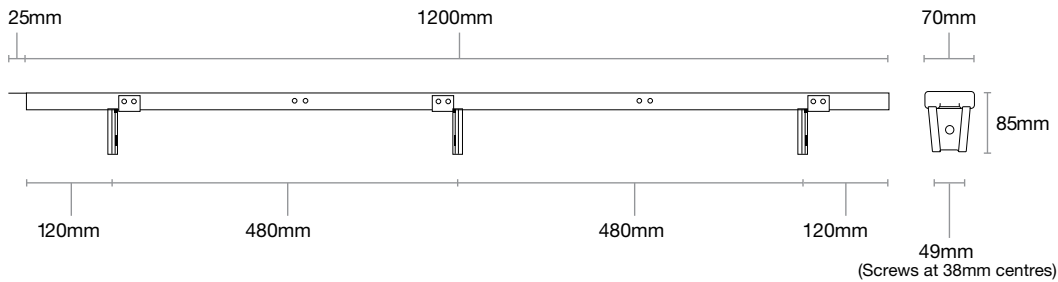
Roof Razor® is available in three heights to suit most commonly used blanket thicknesses:

- 60mm Roof Razor® is suitable for use with 75–80mm thick building blanket;
- 85mm Roof Razor® is suitable for use with 100–120mm thick building blanket;
- 115mm Roof Razor® is suitable for use with 130–145mm thick building blanket.

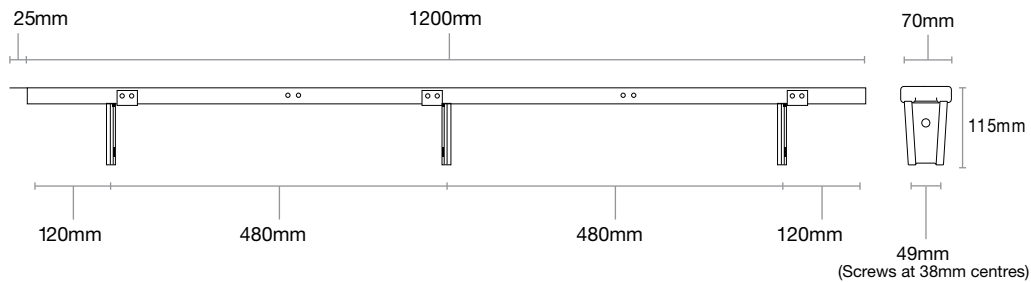
60mm high to suit blankets 75-80mm



85mm high to suit blankets 100–120mm



115mm high to suit blankets 130–145mm



Roof Sheet Fastener Yield Capacity Requirements

Non-Cyclonic	Cyclonic
0.583kN per 12 gauge 14 TPI roof sheet fastener (not supplied)	1.43kN per 14 gauge 10 TPI roof sheet fastener (not supplied)

Roof Razor® Cyclonic is equipped with an extra batten insert to increase the fastener yield capacity, and is pre-loaded with 6 x 14 gauge 10TPI class 4 fasteners.

Technical Specification

When specifying, state the following:

Fletcher Insulation 60mm, 85mm or 115mm Roof Razor® insulation spacer.

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