

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.

Applications

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.

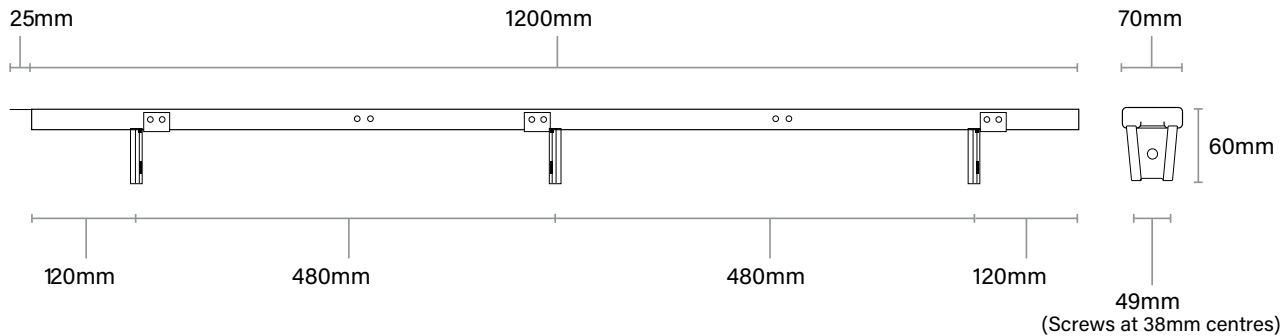
[^] For load bearing information please contact Fletcher Insulation at technical@insulation.com.au

Material specifications

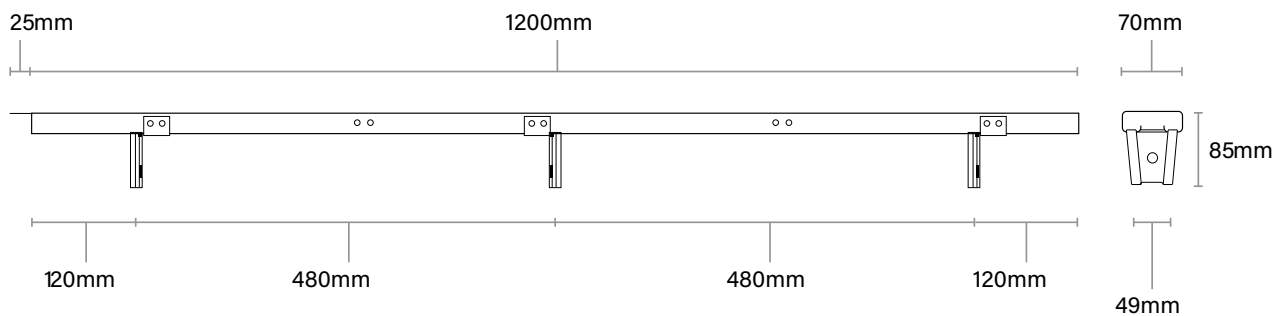
Roof Razor® is available in three heights to suit most commonly used blanket thicknesses:

- 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.

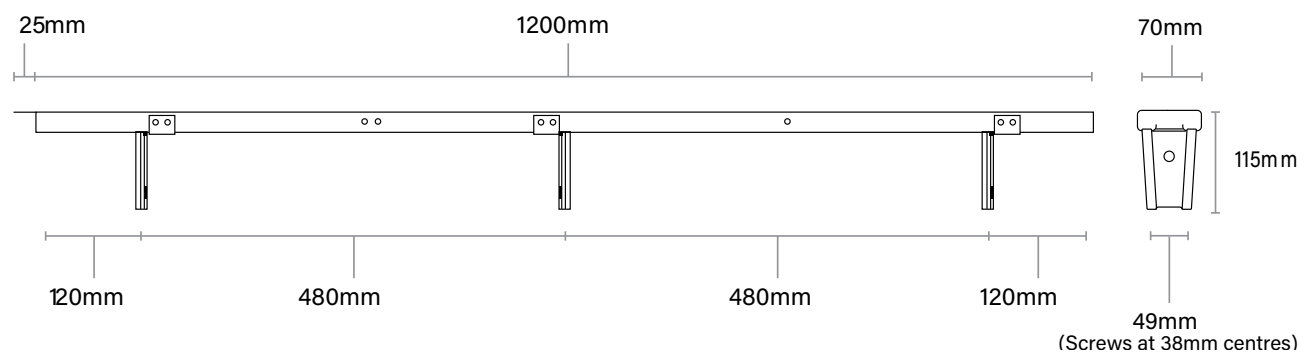
60mm high to suit blankets 75-80mm



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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