



KARBEN GUARD®
Ember Guard Protection
Compliant to AS3959 up to BAL-29

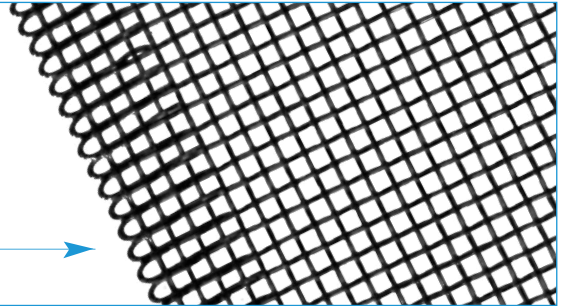
Karben Guard® 1.9 mm Coated Aluminium Mesh

Karben Guard® 1.9 mm Coated Aluminium Mesh offers a simple, compliant and cost-effective mesh for metal roof applications that enables passive ventilation into the roof space for condensation management (NCC2022 HPS Part 10.8.3).

Karben Guard® 1.9 mm coated aluminium mesh also provides ember protection – compliant to AS3959 up to BAL-29. This mesh may also restrict aerosol migration into the building envelope – for construction in corrosive marine environments.

Features include:

- NCC2022 Compliant
- AS3959-2018 Compliant
- 1.9mm Apertures – suitable for BAL-LOW to BAL-29
- Manufactured locked edges for safer handling



Karben Guard® Details & Benefits

- Coated with a durable paint system that improves longevity relative to bare aluminium mesh variants.
- Compatible with Colorbond® steel and TRUECORE® steel framing.
- Manufactured locked edges – provides a smooth and stiff edge for safer handling, transportation and installation. This edge reduces abrasiveness with other materials in service.
- Roll length – 30m.
- Available in two roll widths depending on application:
 - Typical low level – 250mm (Part No. KVEG250)
 - Typical high level – 500mm (Part No. KVEG500)
- The mesh can be formed by hand or cutting.
- For ember protection and marine applications meshes should be installed around components with gaps less than 2mm (per AS3959).



PERFORMANCE REQUIREMENT	SPECIFICATION	COMPLIANCE	KARBEN GUARD™ 1.9 MM COATED ALUMINIUM MESH
BUSHFIRE	AS3959 BAL-LOW, BAL12.5, BAL 19 and BAL-29	Aluminium mesh	✓
		Apertures less than 2mm	✓
	AS/NZS1530.3 – spread of flame less than 3	Spread of Flame - 0	✓
CONDENSATION MANAGEMENT	NCC2022 HPS 10.8.3 (DtS)	Mesh open area – 63%	✓
FIRE SEPARATION	NCC2022 Part 9.2.3 (5)	Exempt for roofs	✓
DURABILITY	ASTM B117	Salt spray resistance – exceeds 1500 hrs	✓
	ASTM D2247	Constant Wetness – exceeds 1500 hrs	✓

Karben Guard® 1.9 mm - Product & Drawing Guide

The table below outlines standard details when incorporating Karben Guard® into a metal roof system. It provides guidance when using Karben Guard® with common insulation products at the low and high level of a roof. PAB refers to metal roofing construction details that utilise profile openings to meet roof

ventilation requirements. For further information refer to:

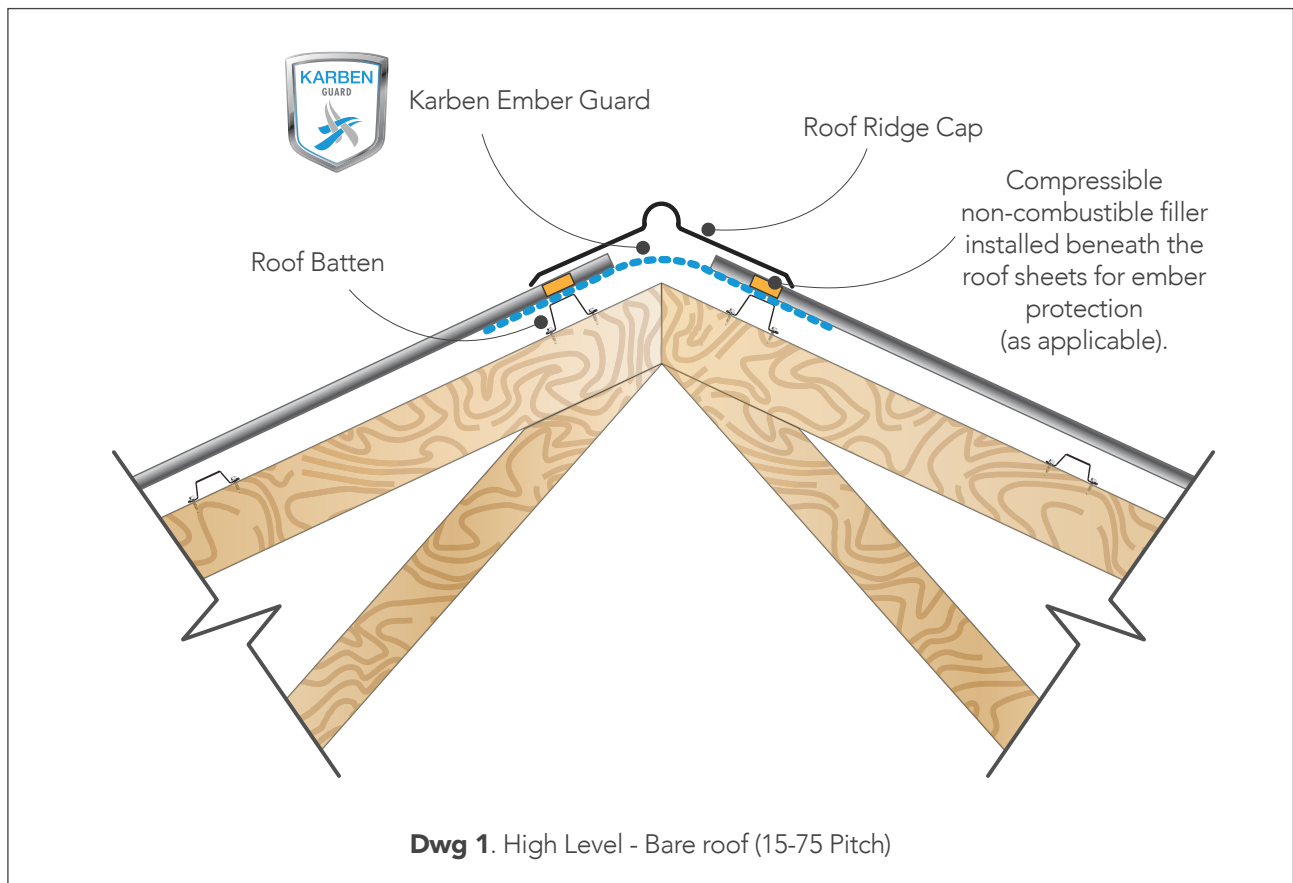
- LYSAGHT® Product Advisory Bulletin PAB-19* High Level Roof Ventilation
- LYSAGHT® Product Advisory Bulletin PAB-20* Low Level Roof Ventilation

* PAB-19 and PAB-20 information visit:

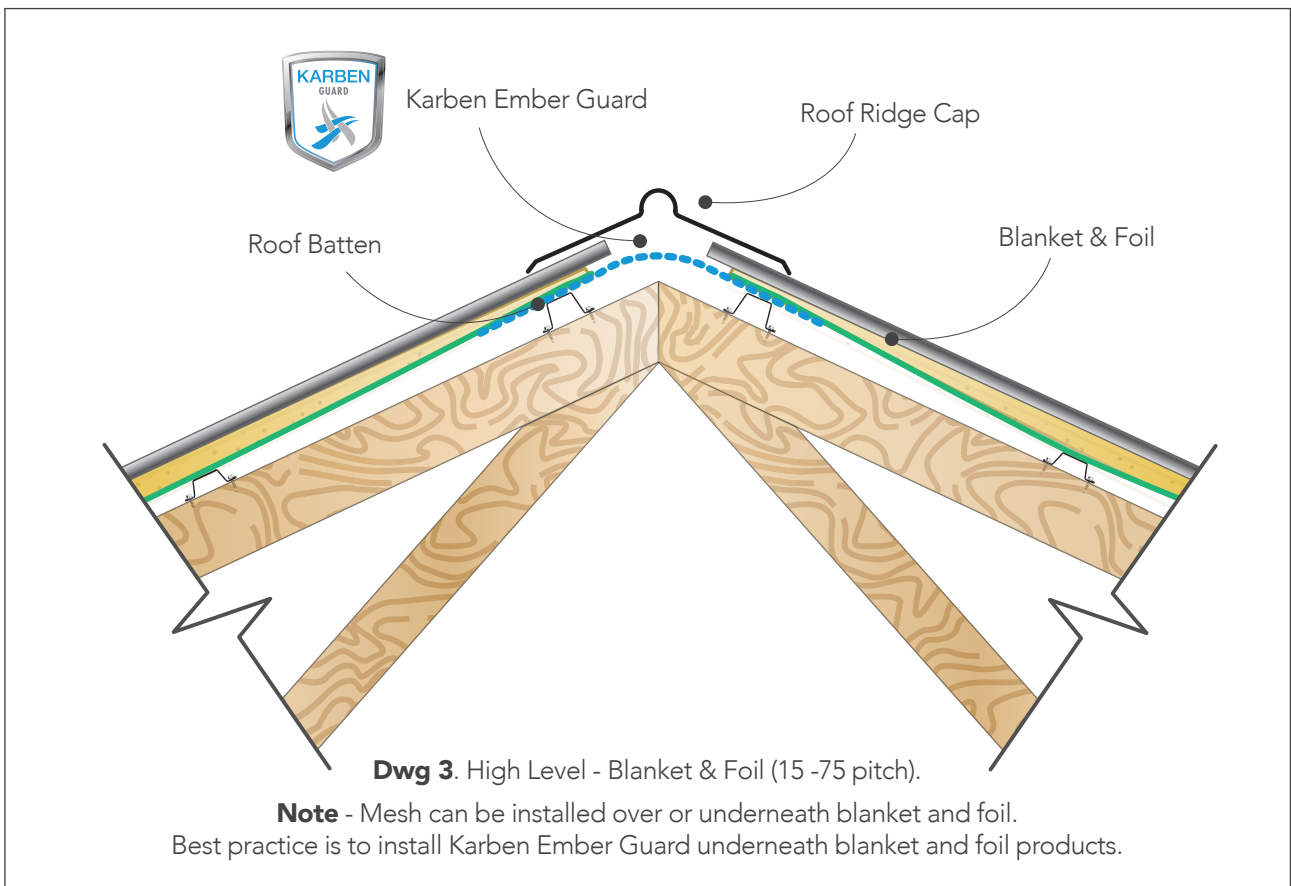
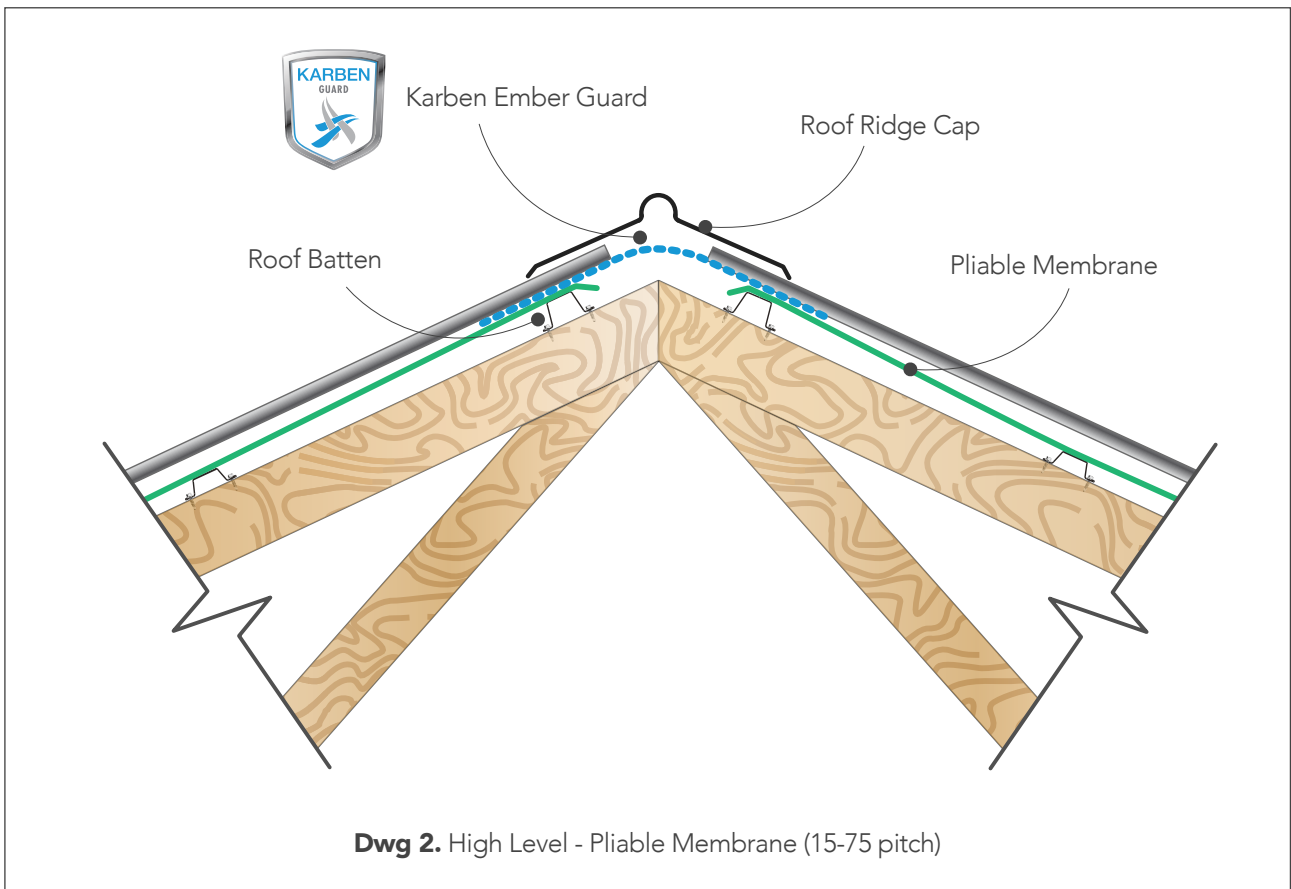
<https://lysaght.com/support-technical/support/design/condensation>

DWG No.	DESCRIPTION	KARBEN MESH ROLL WIDTH (MM)
1	High level – bare roof	500mm (KVEG500)
2	High level – PAB-20 (cut membrane)	500mm (KVEG500)
3	High level – PAB-20 (cut blanket and foil)	500mm (KVEG500)
4a	High level – roof pitch <10° with blanket and foil	250mm (KVEG250)
4b	High level – low pitch roof with blanket and foil	250mm (KVEG250)
5	Low level – bare roof	250mm (KVEG250)
6	Low level – PAB-19 (terminated membrane)	250mm (KVEG250)
7	Low level – PAB-19 (terminated blanket and foil)	250mm (KVEG250)
8	Low level – roof pitch <10° with blanket and foil	250mm (KVEG250)

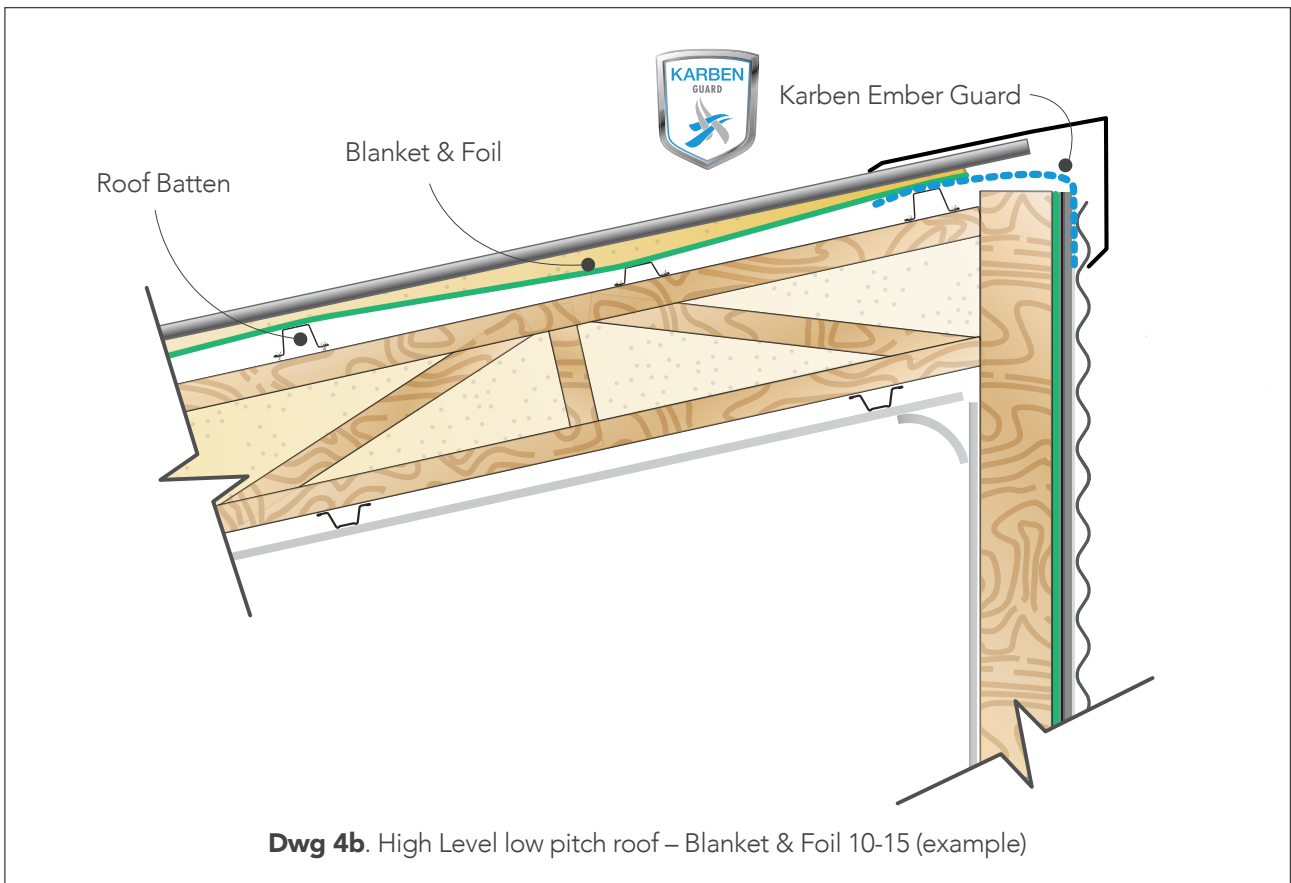
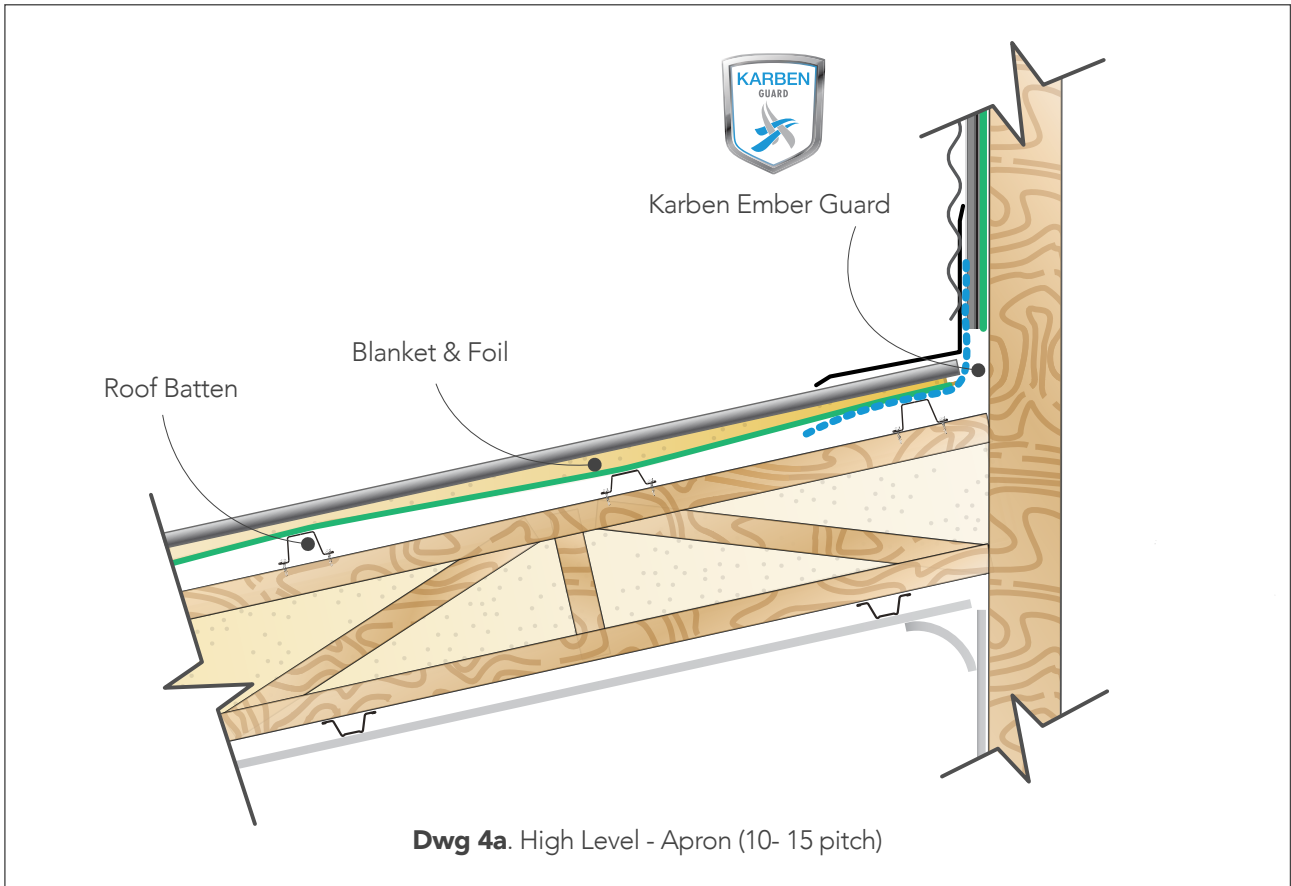
Installation Guide - High Level



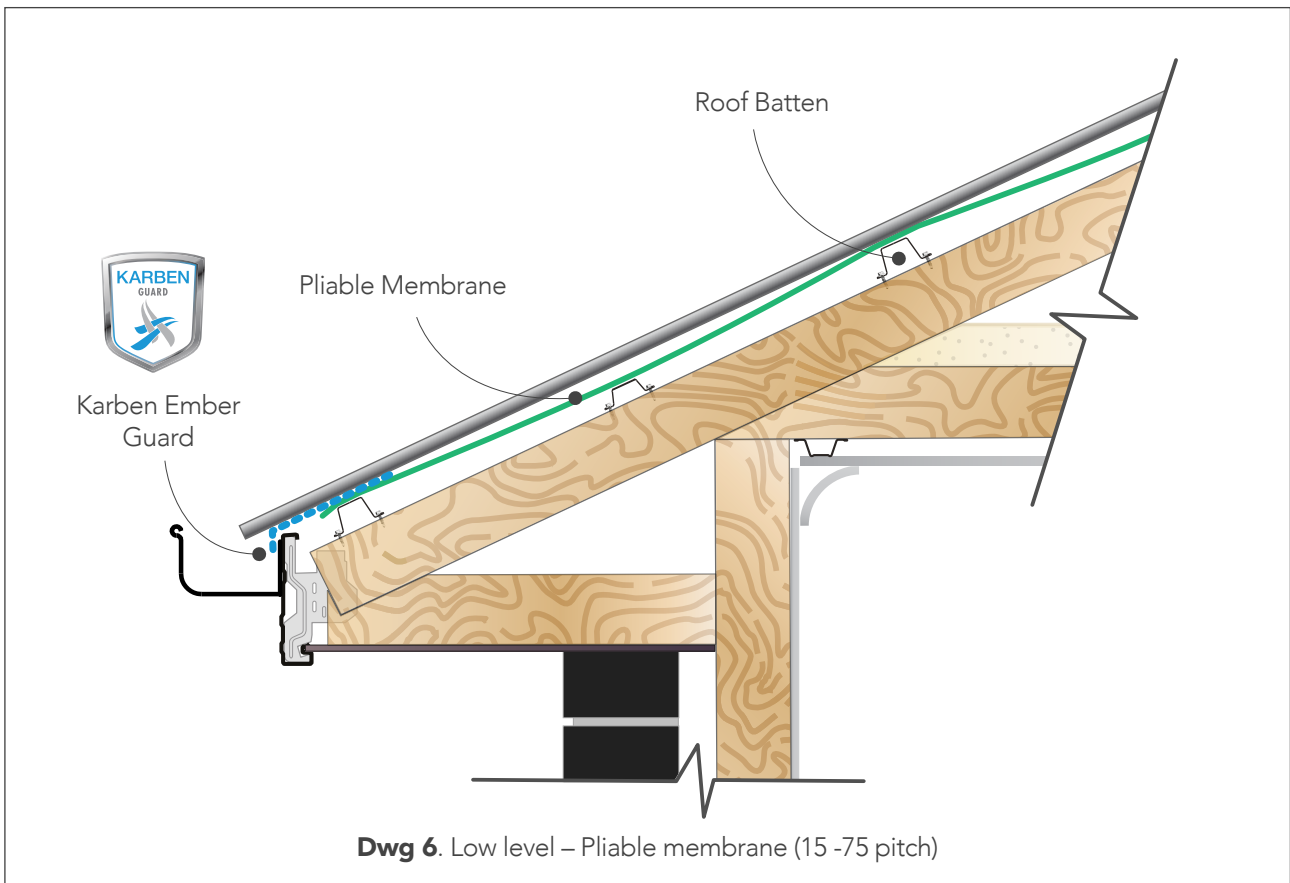
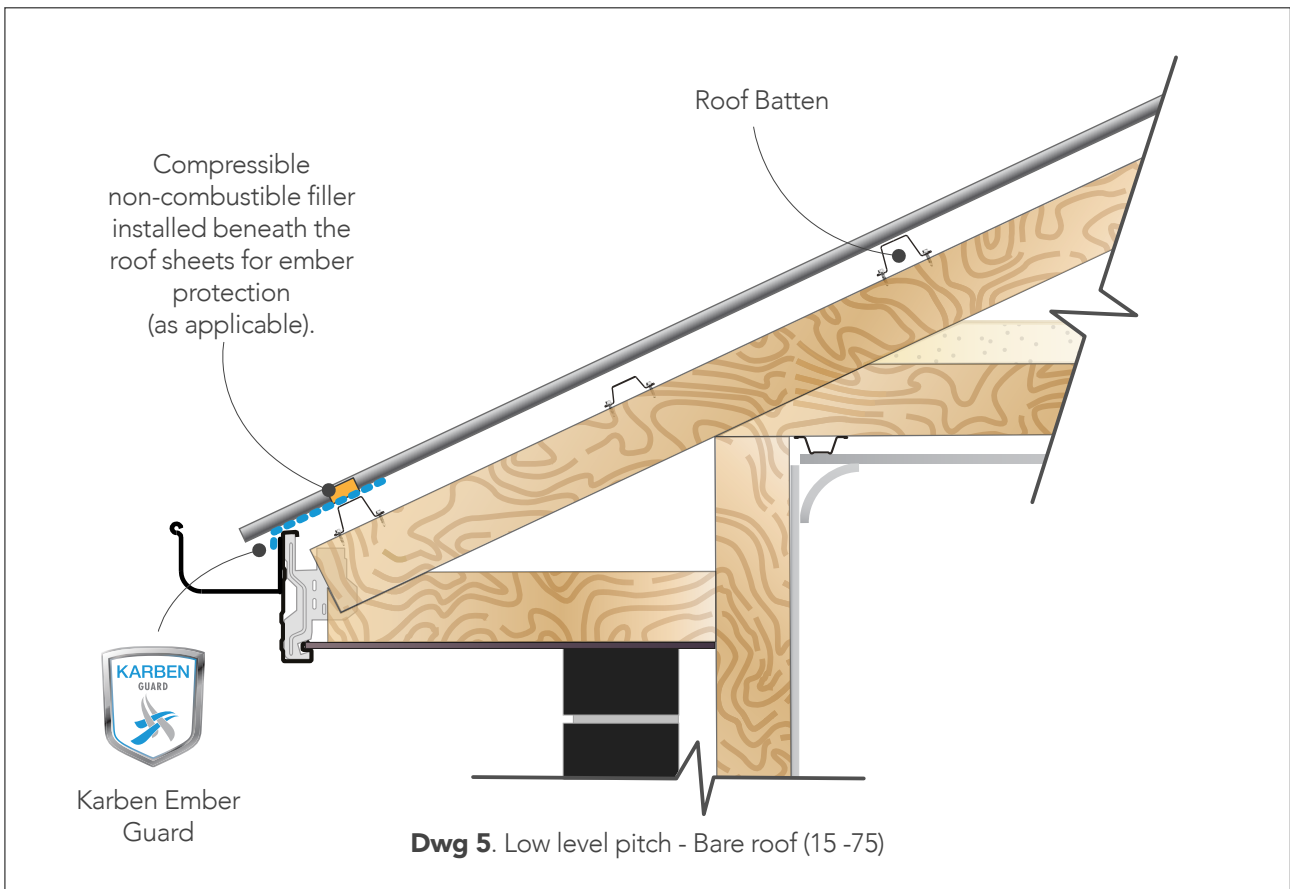
Installation Guide - High Level



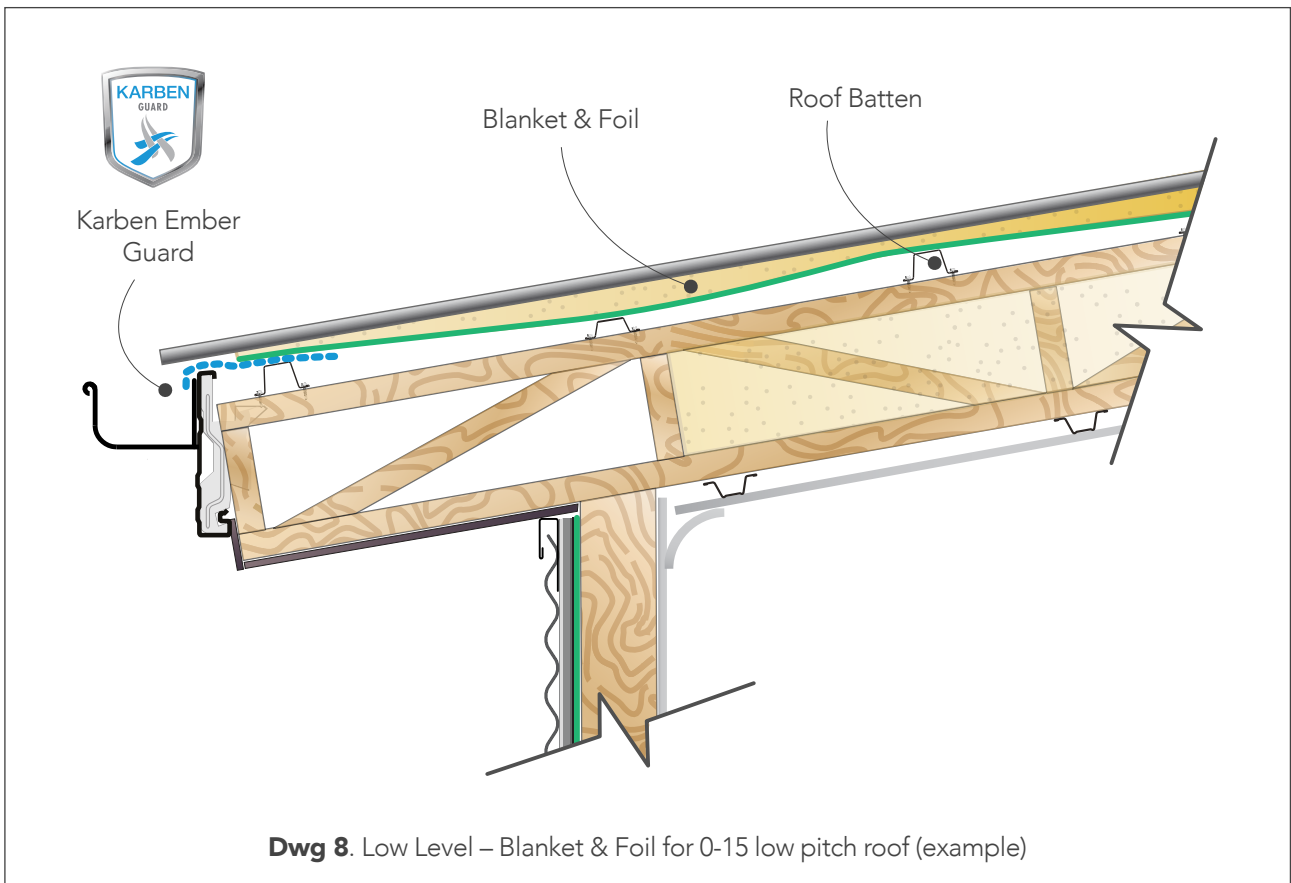
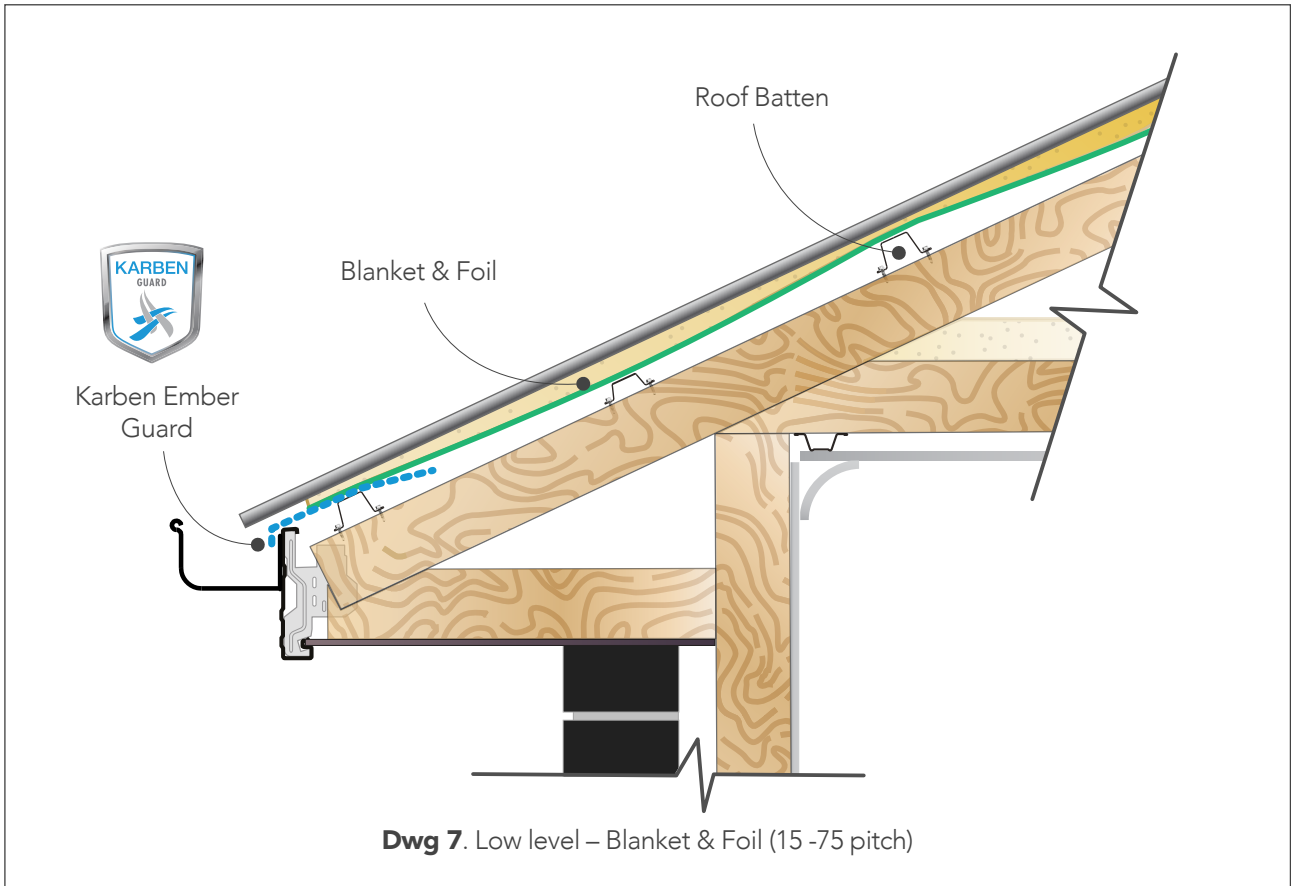
■ Installation Guide - High Level



Installation Guide - Low Level



Installation Guide - Low Level





KARBEN GUARD®

Proudly Australian Owned and Operated



KARBEN INDUSTRIES

1/3 Palm Tree Road Wyong NSW 2259

PO Box 410 Wyong NSW 2259

1300 527 236 | info@karben.com.au | www.karben.com.au