

DEKTITE SOLAR

Product Description:

Dektite Solar flashings offer a versatile flashing solution for solar PV solar panel and solar hot water heater installations, and other installations that require the flashing of electrical cabling such as satellite dishes.

They consist of a durable flashing cone manufactured of either black EPDM or red Silicone, with an integrated malleable aluminum flange that easily moulds to most metal roofing profiles.

Scope of use:

Dektite Solar flashings can be used to flash pipe and flue penetrations through profiled metal roof and wall cladding, for penetrations ranging in size from 0-55mm, on roof pitches from 0-45°.

Relevant building code clauses

- B2 Durability – B2.3.1 (b)
- E2 External Moisture – E2.3.1, E2.3.2
- F2 Hazardous Building Materials – F2.3.1

Contribution to code compliance

[B2 Durability – B2.3.1 \(b\)](#)

When installed in accordance with DLM Wallace literature and NZBC E2/AS1, Dektite Solar flashings will provide durability of at least 15 years.

Dektite Solar flashings carry a 20 year warranty.

Dektite flashings have an in-service history in New Zealand of over 30 years.

[E2 External Moisture – E2.3.1, E2.3.2](#)

When installed in accordance with DLM Wallace Literature and NZBC E2/AS1, Dektite Solar flashings will contribute to satisfying these performance requirements on NZBC E2.

Dektite Solar flashings comply with figures 53 & 54, of NZBC E2/AS1.

[F2 Hazardous Building Materials – F2.3.1](#)

Dektite Solar flashings are safe when handled and are a non-hazardous material. There is no requirement for this product to comply with acceptable solution F2/AS1.

Composition:

Dektite Solar flashings consist of a flashing cone made of either black EPDM or red silicone, with an integrated malleable aluminium flange that easily moulds to most metal roofing profiles, providing a watertight seal.

Standards:

Dektite Solar black EPDM and Dektite Solar red silicone are tested to the below standards.

Property	Conditions	Method	Requirements As per IAPMO PS 64 -12	Result
Ultimate Elongation of Rubber	Die C	ASTM D412	Min. 210 % Elongation	Complies
Split Tear Strength of Rubber	Die C	ASTM D624	Min. 0.25 kN/m (EPDM), Min. 0.17 kN/m (Silicone)	Complies
Water Absorption of Rubber	48 hrs @ 158°F	ASTM D471	Max. change 5% by volume	Complies
Ozone Resistance of Rubber	72 hrs @ 104°F & 50 pphm Ozone	ASTM D1149 and D1171	No visible cracks	Complies
Low Temp. Brittleness of Rubber	Non-brittle 3 minutes @ -40°F, Method A	ASTM D2137	No brittleness	Complies
UV resistance of Rubber	UV: One cycle of 4 hrs @ 140°F. Condensation: 2000 hrs @ 122°F	ASTM G154	Max. 50% loss in Tensile Strength & Elongation	Complies
Rain Test for Flashing	Section 25	ANSI/UL 441	Pass	Complies
Temperature Test of Flashing	Section 19	ANSI/UL 441	Max. 90°F above the room temp.	Complies
Horizontal Burning Test / Flame spread of Flashing	Section 7	UL 94	Max. 75 mm/min	Complies

Limitations:

- Black EPDM temperature range: -50°C to 115°C, and up to 150°C intermittently
- Red silicone temperature range: -60°C to 200°C, and up to 250°C intermittently.
- Suitable for roof pitches 0-45°.
- Not for use on concrete tile roofs (refer Deks Tileflash Aluminium, Deks Rapid Flash, Tileflash Lead).
- Not for use on asphalt shingle roofs (refer Dektite Shingle Flashings).
- Not for use on membrane roofing (refer to membrane roofing supplier for guidance).

Range:

ITEM NUMBER	DESCRIPTION
DEKTITE SOLAR RANGE	
*DFE100BS	SOLAR MINI #0 BLACK 0-35MM
*DFE101BS	SOLAR #1 BLACK 5-55MM
*DFE200RES	SOLAR MINI #0 RED 0-35MM (SILICONE)
*DFE201RES	SOLAR #1 RED 5-55MM (SILICONE)

Installation Requirements:

- When installing Dektite Premium flashings on profiled metal roofing, consideration must always be made of the ability for water to flow and drain freely down the roofing profile.
- Direct fixing of Dektite Premium flashings to the roof sheet is pitch, penetration size and location sensitive. Refer to E2/AS1, figures 53 & 54, and New Zealand Metal Roof Manufacturers Code of Practise V3.0: 9-5 for further guidance.
- Install flashing on the diamond bias.
- Under the perimeter of the aluminium flange, apply a thick bead of neutral cure 100% silicone.
- Dektite Premium flashings are to be mechanically fixed to the roof sheet or pan flashing with either sealed blind rivets or neoprene washered tek screws, fixed through the malleable aluminium flange at approximately 50mm centres.
- Ensure that the fasteners used are compatible with the roofing material in use, and the exposure zone of the building.
- When flashing pipes or flues with a vertical seam or join, run a bead of neutral cure 100% silicone from the top of the pipe/flue down to the neck of the Dektite Premium flashing.

Maintenance Requirements:

As with all roofing material, Dektite Solar flashings should be kept clean and free of moss, mould, lichen and debris.

Warning and Bans:

Dektite Solar flashings are not subject to warning or ban under section 26 of the Building Act 2004.

Place of Manufacture:

Overseas

Distributor Details:

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