



BRANZ Appraised

Appraisal No. 404 [2014]

BITUFLAME® ROOF AND DECK MEMBRANES

Appraisal No. 404 [2014]

This Appraisal replaces BRANZ
Appraisal No. 404 [2008].

Amended 01 April 2016



BRANZ Appraisals

Technical Assessments of products
for building and construction.



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Product

- 1.1 bituFLAME® Roof and Deck Membranes are waterproofing membranes for nominally flat and pitched roofs and decks. They are installed as a multi-layer system with either a mineral chip finished product or UV protective paint as the top layer, or as a single layer system onto a concrete substrate under heavy protection such as paving slabs or a topping screed.

Scope

- 2.1 bituFLAME® Roof and Deck Membranes have been appraised as roof and deck waterproofing membranes on buildings within the following scope:
 - the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or,
 - the scope of limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area when subject to specific structural design; and,
 - with substrates of plywood or suspended concrete slab; and,
 - with minimum falls for roofs of 1:30 and decks of 1:40; and,
 - with deck size limited to 40 m²; and,
 - situated in NZS 3604 Wind Zones, up to, and including Extra High.
- 2.2 bituFLAME® Roof and Deck Membranes have also been appraised as roof and deck waterproofing membranes on buildings within the following scope:
 - subject to specific structural and weathertightness design and,
 - with substrates of plywood or suspended concrete slab; and,
 - situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 6 kPa; and,
 - with the weathertightness design of junctions for each specific structure being the responsibility of the building designer.
- 2.3 Roofs and decks waterproofed with bituFLAME® Roof and Deck Membranes must be designed and constructed in accordance with the following limitations:
 - nominally flat or pitched roofs and decks constructed to drain water to gutters and drainage outlets complying with the NZBC; and,
 - with no steps within the deck level, no integral roof gardens and no downpipe direct discharge to the deck; and,
 - with the deck membranes continually protected from physical damage by pedestal protection system.
- 2.4 The design and construction of the substrate and movement and control joints is specific to each building, and therefore is the responsibility of the building designer and building contractor and is outside the scope of this Appraisal.