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## Mapei Mapeplan TPO Membrane

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### Abbreviation

Appraisal number 1101

### Valid from

18/12/2019

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### Information provider

BRANZ Limited

### Information type

BRANZ Appraisal

### Format

PDF

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### Description

Mapeplan TPO Membrane is a single ply, polyester fabric reinforced, thermoplastic polyolefin (TPO) fully bonded waterproofing sheet membrane for roofs and decks.

### Scope

Mapeplan TPO Membrane has been appraised as roof and deck waterproofing membrane 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, strandsarking (roofs only) or suspended concrete slab; and,
- with minimum falls for roofs of 1:30, concrete roofs of 1:60 and decks of 1:40; and,
- with deck size limited to 40 m<sup>2</sup>; and,
- situated in NZS 3604 Wind Zones, up to, and including Extra High.

Mapeplan TPO Membrane has also been appraised as roof and deck waterproofing membrane on buildings within the following scope:

- subject to specific structural and weathertightness design; and,
- with substrates of plywood, strandsarking (roofs only) 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.

Roofs and decks waterproofed with Mapeplan TPO Membrane must be designed and constructed in accordance with the following limitations:

- nominally flat roofs and desks and pitched roofs constructed to drain water to gutters and drainage outlets complying with

the NZBC; and,

- with no steps within the deck level, no intergral roof gardens and no downpipe direct discharge to decks; and,
- with the deck membrane continually protected from physical damage by a pedestal protection system.

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.

The membrane must be installed by Mapei New Zealand Limited Approved Applicators.

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