PRODUCT ASSURANCE SUPPLIER STATEMENT

pass™ no: 19298 | Expires: 08/2025

ALUMINIUM DECK FRAMING

PROFRAME DECK FRAMING SYSTEM

PURPOSE

The Proframe Deck Framing System is an aluminium joist and bearer system designed to support timber decking, composite decking, structural tiles and artificial turf.

EXPLANATION

The Proframe Deck Framing System comprises a grid of proprietary aluminium sections designed to function as joists and bearers for supporting decking.

The system is manufactured from 6063 T5 aluminium and polyester powder-coated with Bond CP-04.

It is available in lengths of 3.6 m, 4.2 m, 4.8 m and 5.85 m, with profiles of 70 mm x 45 mm x 2 mm and 70 mm x 90 mm x 3 mm. Deck and tile trims are available in 2.4 m x 43 mm x 43 mm x 2 mm.

The system connects using two types of brackets: a right angle and a straight connector. The brackets are made from 304 stainless steel with a black coating.

The system also includes stackable deck jacks, equipped with interchangeable spacers. The deck jacks allow for adjustable deck heights, ranging from 70 mm to 300 mm. The feet and spacers are manufactured from polypropylene and are available in 5 mm, 15 mm, 30 mm and 60 mm sizes. A rubber tile spacer is also provided for setting out and installing structural tiles.

Fibre-glass-reinforced 1200 mm x 1800 mm x 15 mm sheet, fixed with stainless-steel washers and screws, is used to support artificial turf over the frame.

For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
In wind zones up to and including Extra High as defined in NZS 3604:2011 or to calculated design wind pressure (ULS) of 2.0 kPa.	
In all exposure zones as defined in NZS 3604:2011.	› Proframe should be consulted if the panels are to be used in a microclimate (as defined in paragraph 4.2.2 of NZS 3604:2011. › All fixings must be in accordance with Section 4 of NZS 3604:2011.
Any distance from a relevant boundary.	
Building	
In conjunction with a primary structure that complies with the NZ Building Code or existing buildings where the designer and/or installer are satisfied that the existing building is suitable for the intended building work.	
As a joist and bearer system to support timber or composite decking boards or structural tiles.	› With a maximum load capacity of up to 4 kPa. Designs requiring higher live and dead loads are subject to specific engineering design. › Joist spacing must be in accordance with the maximum span requirements specified by the manufacturer of the selected decking boards or structural tiles. › Maximum bearer spans must be in accordance with Proframe's installation instructions. › When crossing three or more supports, all joist and bearer spans can be increased by 10 %. › The selected decking material must have a maximum weight of 25 kg/m^2 and tiles a maximum weight of 48 kg/m2. › Where the system is enclosed by a perimeter structure, such as a balustrade, nib, floor, or wall, this must be designed by others. › Attached handrails must be specifically designed. › If timber bearers and piles are used, refer to the timber manufacturer's span tables. › Waterproof decks must be designed in accordance with E2/AS1. It is the installer's responsibility to ensure compliance with the membrane manufacturer's warranty.

CONDITIONS OF USE

The Proframe Deck Framing System must be installed in accordance with the design and all Proframe requirements.

USEFUL INFORMATION

For design, installation and maintenance information, refer to **proframe.co.nz**

VERSION: 1.0

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Proframe Ltd requirements, the Proframe Deck Framing System will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2, B1.3.3 (a, b, g, j and q)	ACCEPTABLE SOLUTION B1/AS1 AND VERIFICATION METHOD B1/VM1	› Structural design of the system in accordance with AS/NZS 1170.0:2002 [set] and AS/NZS 1664.1:1997 and producer statement PS1 design by a chartered professional engineer. Tested to AS/NZS 1170.1:2002 Table 3.1. Meets requirements for a uniformly distributed live load of 0.2 KPa, a maximum dead load of 0.2 KPa, and a concentrated live load Qc of 1.8 kN. Designs requiring higher live and deal loads refer to the span table. Polypropylene feet verified to safely support a maximum ULS load of 6.9 kN. [Eden Consultants, 15/12/2017; 11/2021; 25/03/2024]. › Extruded aluminium joists and bearers manufactured from 6063 T5 aluminium alloy [Proframe, 04/2024].
B2 DURABILITY B2.3.1 (c)	VERIFICATION METHOD B2/VM1	› Extruded aluminium joists and bearers manufactured from 6063 T5 aluminium alloy and polyester powder coated with Bond CP-04 [Proframe, 04/2024; Eden Consultants, 15/12/2017].
F2 HAZARDOUS BUILDING MATERIALS F3.2.1	ALTERNATIVE SOLUTION	› Manufactured material is inert. › Use in accordance with the supplier's safety information.

SOURCES OF INFORMATION

› Eden Consultants. [15/12/2017] *Report on Proframe Decking System.* Ref 17/033.
› Eden Consultants. [11/2021] *Report on Proframe Bearer Spans.* Ref 21/034.
› Eden Consultants. [25/03/2024] *Structural Report: Amended Box Bearer.* Ref 24/093.
› Proframe. [04/2024] *Product Technical Statement.*

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1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

Proframe Ltd confirms that if Proframe Deck Framing System is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

Date of first issue:	03/09/2024
Date of current issue:	03/09/2024
NZBN:	9429045950261

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Proframe Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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