

MILLBOARD COMPOSITE DECKING

PURPOSE

Millboard composite decking is hand-moulded with a natural timber grain look for use as external decking.

EXPLANATION

Millboard composite decking is manufactured from a blend of natural minerals bonded in a polymer resin with long fibre reinforcement.

The boards have an elastomeric Lastane® surface layer chemically melded to the core and are coated in a UV stable 2K polyurethane coating. The boards incorporate recycled materials, renewable biopolymers and have a closed-cell structure.

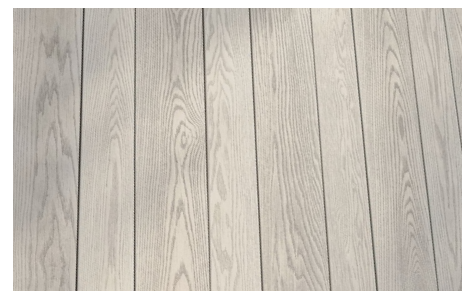
As the composite decking is 100 % wood-free, it is rot and warp resistant as well as being resistant to UV, algae, impact, and weathering.

Millboard composite decking is supplied in the Enhanced Grain, Enhanced Grain SB, Weathered Oak and Lasta-Grip profiles, each offered in various colours. The dimensions of the boards are as follows (width x length x depth in mm):

- Enhanced Grain 176 x 3600 x 32
- Enhanced Grain SB 126 x 3600 x 32
- Weathered Oak 200 x 3600 x 32
- Lasta-Grip 200 x 3600 x 32

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Location</p> <p>In all exposure zones as defined in NZS 3604:2011.</p> <p>Greater than 1 m from a relevant boundary.</p>	<ul style="list-style-type: none"> ➤ Where microclimatic conditions apply, as defined in NZS 3604:2011, contact Millboard for technical advice. ➤ Fixings must be in accordance with section 4 of NZS 3604:2011. In exposure zone D, stainless steel fixings must be used.
<p>Building</p> <p>On timber framing that complies with the NZ Building Code or with the Millboard support systems (Plas-Pro, DuoSpan or DuoLift).</p> <p>As an external decking board.</p>	<ul style="list-style-type: none"> ➤ The framing must have a minimum design load of 2 kPa or be subject to specific engineering design. ➤ Joist spacing must be at maximum of 400 mm centres for residential applications or 300mm centres for commercial applications. ➤ Durafix® fixings must be used (4.5 mm x 60 mm dimension) to fasten the Millboard composite decking boards to a timber subframe. ➤ Durafix® 4.5 mm x 45 fixings can be used to fasten the Millboard composite decking boards to a plastic subframe.



For further assistance please contact:

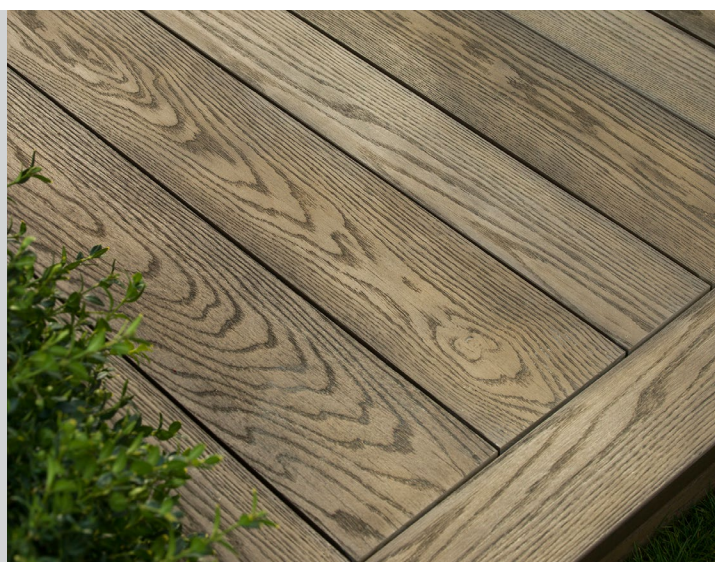
- ☎ 00 44 (0) 24 7643 9943
- ✉ enquiries@millboard.com
- 🌐 [millboard.com](https://www.millboard.com)

USEFUL INFORMATION

For design, installation and maintenance information, refer to [millboard.com](https://www.millboard.com).

OTHER CERTIFICATIONS HELD BY THE MILLBOARD CO LTD

- ISO 45001: 2018 Alcumus ISOQAR. Manufacture and supply of composite decking and related products. Expiry 18/01/2025, UKAS No. 13959-OHS-001
- ISO 14001: 2015 Alcumus ISOQAR. Manufacture and supply of composite decking, cladding and related products. UKAS No. 13595-EMS-001



PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all The Millboard Co Ltd requirements, Millboard composite decking 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, c, e, f, j, m, & q)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Tested in accordance with ASTM D7032-17 for creep-recovery and mechanical fastener holding tests [element, 17/10/22]. Tested in accordance with ASTM D7032-17, section 4.4.1 and 4.4.2, and ASTM D6109 for bending stiffness/flexural rigidity (product of modulus of rupture) and bending strength/moment capacity (product of modulus of elasticity) [element, 17/10/22]. Meets a minimum value of 96,848 in2-lbf for flexural rigidity and 1,834 in2-lbf for moment capacity [element, 17/10/22].
B2 DURABILITY B2.3.1 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Tested to ASTM D7032-17 for elevated temperature, moisture and freeze-thaw [element, 17/10/22]. Tested for UV/accelerated ageing [Q-Lab, 11/11/22a, 11/11/22b]. Composite material will not rot, warp, or split as it is non-porous, not extruded, and has no timber content. Composite material will not support algal growth as it has no protein content and has a 2K UV-resistant polyurethane coating.
D1 ACCESS ROUTES D1.3.3 (d)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Tested in accordance with BS 7976-2:2002, cited in AS/NZS 4586:2004 for average slip measurement in wet and dry conditions. Classified as low slip potential [SATRA Technology Centre, 10/11/22 a,b,c,d, 25/3/20, 19/03/20].
F2 HAZARDOUS BUILDING MATERIALS F3.2.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Manufactured material is inert. Use in accordance with supplier's safety information.

SOURCES OF INFORMATION

- element. [17/10/22] *Evaluation of Composite Deck Boards for Performance in General Accordance with ASTM D7032-17*. Report No. 21-06-P0093 RV1.
- Q-Lab. [11/11/22a] *Instrumental Color Report*. Report No. 8.
- Q-Lab. [11/11/22b] *Inspection Report*. Test No. Report No. 8.
- SATRA Technology Centre. [10/12/19a] *Technical Report for Millboard Weathered Oak Boards*. Report ID: 10815/1.
- SATRA Technology Centre. [10/12/19b] *Technical Report for Millboard Enhanced Grain Boards*. Report ID: 10811/1.
- SATRA Technology Centre. [10/12/19c] *Technical Report for Millboard Weathered Oak Boards*. Report ID: 10816/1.
- SATRA Technology Centre. [25/03/20] *Technical Report for Millboard Enhanced Grain Boards*. Report ID: 11855/1.
- SATRA Technology Centre. [10/12/19d] *Technical Report for Millboard Lasta-Grip Boards*. Report ID 10814/1.



SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

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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™.

The Millboard Co Ltd confirms that if the Millboard composite decking 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: 06/07/2023

Date of current issue: 22/07/2024

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of The Millboard Co 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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