

Marley Eco-Tuff Building Plank

[Marley Roofing's Agrément-approved Eco-Tuff Building Plank](#) offers a revolutionary alternative to fibre cement, delivering exceptional strength, durability, insulation properties, and aesthetic appeal. Perfect for timber-frame prefabricated homes, the Eco-Tuff Building Plank provides the ideal solution for constructing both interior and exterior walls, cladding, and flooring.



PRODUCT SYSTEM COMPONENTS:

> MARLEY ECO-TUFF BUILDING PLANK - (L) Any length up to 6m x 150mm x 25mm

> MARLEY ECO-TUFF CORNER - (L) Any length up to 6m x 70mm x 70mm x 4mm

> MARLEY NOWA CLIP

*Please note the correct screws should be used for application type!



APPLICATION: Walling (Interior and/or Exterior), Cladding and Deck Flooring for Prefabricated Residential or Commercial Structures in accordance with SANS 1008: Timber frame buildings.

ADVANTAGES:

- > Superior strength – significant reduction in breakages when compared to Fibre Cement alternatives.
- > Superior weathering – extreme UV and water resistant.
- > Good Thermal Performance – 2,252 m²K/W *as part of wall assembly 114mm thick.
- > Eco friendly – made from PVC / Wood composite utilising recycled materials and fully recyclable.
- > Tailor-made lengths up to 6m – no joiners, result in labour and material cost savings
- > Paintable * vertical surfaces – no primer required if sanded, wiped and finished with two coats of Marley M22 Ultimo.

PRODUCT DESCRIPTION:

UV Stabilised Wood Composite consisting of a blend of PVC and Wood Flour. The PVC is non-lead stabilised and therefore not toxic.

TECHNICAL INFORMATION:

 For more concise information please view: <https://marleyroofing.co.za/wp-content/uploads/2019/07/Eco-Barge-Agreement-Certification-copy.pdf>

> Performance

Aspects of performance	Opinion of Agrément South Africa	National Building Regulations satisfied
<i>Fitness-for-purpose of materials used</i>	The materials described in Part 3 meet the requirements of the National Building Regulations.	A13(1)(a) <i>Materials</i>
<i>Behaviour in fire</i>	The wall panels are classified as type FR (non-combustible) with a fire resistance rating of 30 minutes.	K4 <i>Walls</i> J1 (1) b <i>Floors</i> L2 <i>Roofs</i> T1 (1) (b) and (c) are satisfied as far as walls are concerned. Comments made in <u>Supplement to certificates</u> must be taken into account when building plans are scrutinized by local authorities, to check compliance with Regulations T1 (1)(a), and T1 (1)(d) with regard to spread of smoke, and T1 (1)(e). Deemed-to-satisfy rules TT5.1(c) and TT5.2 (c) of Section 3 of SANS 10400 have been met. With regard to safety distances, external walls are classified type FR (non-combustible), as defined in deemed-to-satisfy rule TT2.1 (a) of Section 3 of SANS 10400 and safety distances as set out in the relevant rules of Part T can therefore be applied.
<i>Structural performance</i>	Satisfactory. Provided the requirements of this certificate are complied with.	J1(1) <i>Floors</i> K1, K3, K4 <i>Walls</i> L1 (b) and (c) <i>Roofs</i> Regulations B1 (1) and (2) are deemed to be satisfied as the design and erection of RWPA Building System buildings are the responsibility of a professional competent engineer or approved competent person (deemed-to-satisfy rule BB4 of SANS 10400). Regulations H1(1) and H1 (2), <i>Foundations</i> , are deemed to be satisfied as follows: <ul style="list-style-type: none"> • H1 (1) on non-problematic soils; • H1 (2) in all buildings where foundations are designed by a professional engineer or approved competent person and deemed-to-satisfy rule HH 1(a) applies.
<i>Water penetration and rising damp</i>	Satisfactory. RWPA Building System buildings meet Agrément South Africa's criteria for resistance to water penetration and rising damp throughout South Africa.	K2 (1) <i>Walls</i> J1(2) <i>Floors</i> L1 (b) <i>Roofs</i>

> Habitability

Aspects of performance	Opinion of Agrément South Africa	Explanatory notes
Thermal performance	External wall (114 mm thick) was assessed as having a total R-value of 2,252 m ² K/W. <div style="border: 1px solid black; padding: 2px;"> SANS 10400 XA <i>The application of the National Building Regulations Part X: Environmental sustainability Part XA: Energy usage in buildings</i> </div>	When neither artificial heating nor cooling is applied to 53 m ² RWPA Building System dwellings with insulated roofs, minimum and maximum temperatures will be similar to those occurring in standard buildings. The annual energy requirement and energy demand of a 53 m ² RWPA Building System dwelling with roofs of sheet metal was determined using the BRE U-value Calculator and provided they are insulated in accordance with the requirements of Clauses 4.4.5.3 and 4.4.5.4 of SANS 10400 XA , their performance was assessed as being equivalent to that of standard brick house meeting the requirements of Clause 4.2.1 b) of SANS 10400 XA .
Energy usage	The energy required to heat RWPA Building System buildings in winter will be less than that required for a standard brick house.	NB. Insulated ceilings must be installed in all instances.
Condensation	Satisfactory. When insulated ceilings are installed, RWPA Building Systems perform better than a standard brick house.	Condensation is generally a problem in the Southern Coastal Condensation Problem Area (SCCP Area). Agrément South Africa requires that the minimum standard of performance be equivalent to that of the standard brick dwelling which is, itself, not immune to condensation problems.
Acoustic performance	Satisfactory. Agrément South Africa's performance criteria for sound attenuation between adjacent rooms and dwellings have been met. <div style="border: 1px solid black; padding: 2px;"> SANS 10218: Part 1 <i>Acoustical properties of buildings</i> </div>	Agrément South Africa's opinion is based on a theoretical analysis of the frequency-weighted sound reduction index, R_w the value that is likely to be obtained between adjacent rooms is 43 dB($D_{nT,w}$); This value meet Agrément South Africa's criteria and most of the recommended sound insulation values set out in SANS 10218: Part 1 . A description of the degree of acoustic privacy that can be expected between specific rooms for various degrees of sound insulation is given in Supplement to certificates .
Durability	Satisfactory. Durability of RWPA Building System buildings will be satisfactory provided: the requirements given in this certificate are adhered to, as well as the buildings being regularly and adequately maintained.	Agrément South Africa's opinion is based on knowledge of the materials used and an analysis of the construction details specified in the design of buildings constructed using RWPA Building System.

> Quality management system

Aspects of performance	Opinion of Agrément South Africa	Explanatory notes
Quality management system	The certificate holder's quality management system complies with Agrément South Africa's requirements. Properly applied, it will ensure that quality in the manufacture and erection of RWPA Building System will be consistently maintained.	Agrément South Africa's requirements are based on SANS/ISO 9001 . <div style="border: 1px solid black; padding: 2px;"> SANS/ISO 9001 <i>Quality management systems – Requirements'</i> </div>

IMPORTANT NOTES:

Due to the composite containing natural wood, the holes for fixation of the Marley Eco-Tuff Corner should be pre-drilled 2mm larger than the intended screws or nails that will be used to allow for expansion and contraction.

If used for walls, both Marley Eco-Tuff Building Plank and Corners are meant to be painted upon installation – the surface should be sanded, wiped clean with a damp cloth. Once dry and free from contaminants, apply two coats of a good quality roof paint such as [Marley M22 Ultimo](#). No primer is required.

The conventional aspects of construction using Marley Building Plank are subject to the rules of good building practice and must comply with the National Building Regulations.

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MANUFACTURER:

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