Millboard Bullnose Board

Weights and Measures

Dimensions (W x D x H)	150mm x 3200 x 32mm
Weight Per Edging	8.3kg

The information in this document was correct at the time of going to print, due to our culture of continuous improvement we reserve the right to change the information at any time without prior notice should further tests reveal different results.

Millboard Product Specification Guide
Bullnose Board

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Live.Life.Outside.

Millboard Polyurethane Profile

Polyurethane Resin & Mineral Board (RMB)

Pendulum Test Values

Does not warp or rot. No timber content that will rot or can be eaten by insects

Low maintenance. No Stains from food and drink spills, no algal growth. No painting required

Environmentally friendly. Base Materials have low impact on global warming and ozone depletion

Splinter-free. No real wood content so no splinter

Dimensional stability. Very minimal movement in the boards

Resistant to algae. Unlike wood there is no protein content to assist algal growth

Slip resistant. High grip surface much safer than wood especially in the wet

UV & weathering stability. Tested in all weathers at temperatures from -20° to 70°

Moulded from real oak. Not extruded like plastics. Looks like natural oak

Stain Resistant. Non porous, so will not absorb, drink, food, fats etc.

Lost Head fixing using Durafix stainless steel trimhead screws

Low carbon footprint

430g/M²

Working specification for all decking boards

Polyurethane Resin & Mineral Board (RMB)

Working specification for all decking boards

For all applications we recommend our boards are installed with a 4mm gap between the boards and a 2mm gap at butt ends, this is to facilitate drainage. The maximum unsupported overhang for the boards is 50mm, each cut board must be supported by a minimum of three joists. Each board must be screwed down with 2x Durafix fixings where a board crosses a joist, 3x Durafix fixings are recommended at the ends of the boards.

Residential applications (1.5kN/m² uniform distributed load):

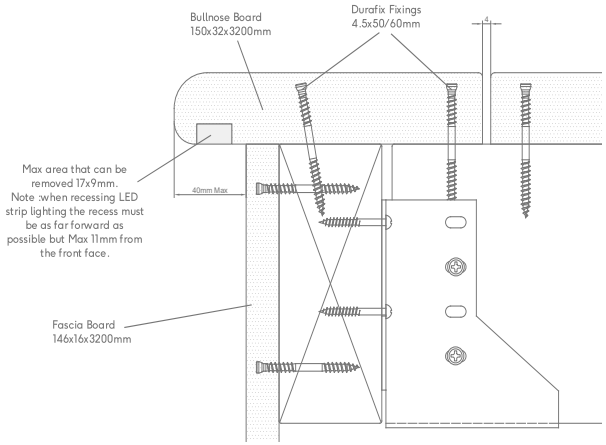
Joists must support boards at 400mm centres if boards are at 90° to joists, if boards are at 45° then joists needs to be set at 300mm centres

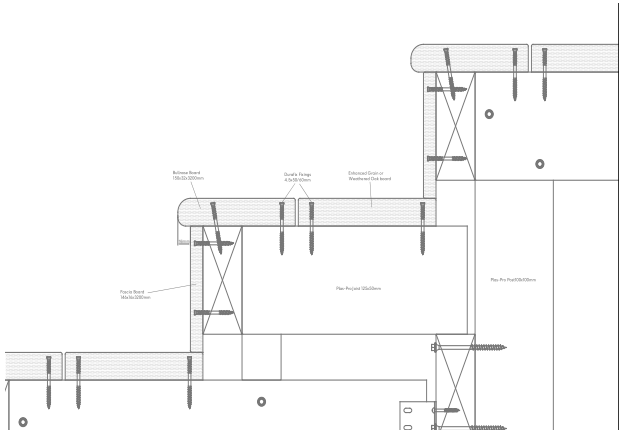
Commercial applications (4kN/m² uniform distributed load):

Joists must support boards at 300mm centres if boards are at 90° to joists, if boards are at 45° then joists need to be set at 240mm centres.

The Bullnose board must be fully supported by a perimeter joist for all situations, all mitred corners to be glued together with PU wood adhesive.

The Bullnose board must be screwed down every 300mm in to the perimeter joist, then every 300/400mm in to the joist at the back.





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Technical Data

Physical & Mechanical Properties	Test Standard	Unit	Value/Results
Line Load Bearing Test - Peak Load (180mm width, 300mm span centres)	BS EN ISO 14125	kN	9.32
Line Load Bearing Test - Peak Load (200mm width, 300mm span centres)	BS EN ISO 14125	kN	8.34
Line Load Bearing Test - Peak Load (180mm width, 400mm span centres)	BS EN ISO 14125	kN	6.56
Line Load Bearing Test - Peak Load (200mm width, 400mm span centres)	BS EN ISO 14125	kN	6.64
Line Load Bearing Test - Peak Deflection (180mm width, 300mm span centres)	BS EN ISO 14125	mm	10.75
Line Load Bearing Test - Peak Deflection (200mm width, 300mm span centres)	BS EN ISO 14125	mm	9.39
Line Load Bearing Test - Peak Deflection (180mm width, 400mm span centres)	BS EN ISO 14125	mm	14.39
Line Load Bearing Test - Peak Deflection (200mm width, 400mm span centres)	BS EN ISO 14125	mm	12.36
Line Load Bearing Test - Peak Stress (180mm width, 300mm span centres)	BS EN ISO 14125	Mpa	22.75
Line Load Bearing Test - Peak Stress (180mm width, 400mm span centres)	BS EN ISO 14125	Mpa	18.32
Line Load Bearing Test - Peak Stress (180mm width, 400mm span centres)	BS EN ISO 14125	Mpa	21.36
Line Load Bearing Test - Peak Stress (200mm width, 400mm span centres)	BS EN ISO 14125	Mpa	19.46
Point Load Bearing Test - Peak Load (180mm width, 300mm span centres)	BS EN ISO 14125	kN	7.14
Point Load Bearing Test - Peak Load (200mm width, 300mm span centres)	BS EN ISO 14125	kN	5.78
Point Load Bearing Test - Peak Load (180mm width, 400mm span centres)	BS EN ISO 14125	kN	5.52
Point Load Bearing Test - Peak Load (200mm width, 400mm span centres)	BS EN ISO 14125	kN	5.65
Point Load Bearing Test - Peak Deflection (180mm width, 300mm span centres)	BS EN ISO 14125	mm	5.65
Point Load Bearing Test - Peak Deflection (200mm width, 300mm span centres)	BS EN ISO 14125	mm	11.4
Point Load Bearing Test - Peak Deflection (180mm width, 400mm span centres)	BS EN ISO 14125	mm	19.33
Point Load Bearing Test - Peak Deflection (200mm width, 400mm span centres)	BS EN ISO 14125	mm	15.37
Bending Strength (Textured surface tested)	BS EN 310 :1993	fmN/mm2	13.3
Bending Strength (Textured surface tested) after UV aging	BS EN 310 :1993	fm N/mm2	11.4
Modulus of Elasticity (Textured surface tested)	BS EN 310 :1993	Em N/mm2	896
Modulus of Elasticity (Textured surface tested) after UV aging	BS EN 310 :1993	Em N/mm2	758
Resistance To Static Indentation	MOAT 27:1983	mm	0.1

Physical & Mechanical Properties	Test Standard	Unit	Value/Results
Soft Body Impact	MOAT 43 :1987	mm	0 (no visible damage)
Hard Body Impact	MOAT 43 :1987	mm	0 (no visible damage)
Impact Resistance After Aging	BS EN 13245-1 : 2010	-	No cracking or damage to top coat
Fixing Pull Out	BS EN 1382 :1999	Fmax (N)	1610.8
Pull Through Resistance of Fixings	BS EN 1383 :1999	Fmax (N)	1124.9
Density	BBA	kg·m³	529.75
Reaction To Fire	EN 13501-1 : 2007 + A1 : 2009	-	Bfl – s1
Slip Resistance - WET (Weathered Oak)	BS EN 14231	PTV`s	54
Slip Resistance - DRY (Weathered Oak)	BS EN 14231	PTV`s	66
Slip Resistance - WET (Enhanced Grain)	BS EN 14231	PTV`s	51
Slip Resistance - DRY (Enhanced Grain)	BS EN 14231	PTV`s	58
Moisture Content	BS EN 322 :1993	(%)	0.6
Ease of Cleaning	BBA	Bleach, Detergent	Completely removed, with no damage or staining
Resistance to Staining	BS EN 438-2 : 2005	Acetone	No visible change
Resistance to Staining	BS EN 438-2 : 2005	Coffee	Slight change of colour, only visible at certain angles
Resistance to Staining	BS EN 438-2 : 2005	Sodium Hydroxide	No visible change
Resistance to Staining	BS EN 438-2 : 2005	Hydrogen Peroxide	No visible change
Resistance to Staining	BS EN 438-2 : 2005	Shoe Polish	No visible change
Determination of Swelling in Thickness	BS EN 317 :1993	(Gt)	0.1%
Taber Abrasion	ISO 7784-2	mg	261
Tensile Strength Perpendicular to the Plane	BS EN 319 :1993	N/mm²	1.53
Tensile Strength Perpendicular to the Plane (After Boiling defined in BS EN 1087-1)	BS EN 319 :1993	N/mm²	1.31
Dimensional Stability	BS EN 318: 2002	65-85rh (mm/m)	0.47
Dimensional Stability	BS EN 318: 2002	65,30 mm/m	-0.30
Colour Measurement	BS 3900 Parts D8-D10 (ISO 7724 Parts 1-3)	D65	Less Red/Yellower
Acoustic Testing	AS 1191.2002, AS/NZS ISO 717.1:2004, AS ISO 354 - 2006	Rw	51