COMERY		For Staf HAWP#_	F ONLY:
AP	PLICATION FOR	R DATE ASS	IGNED
	AREA WORK		
MARYLAND	301.563.3400		
APPLICANT:			
Name:	E-mail:		
Address:	City:		Zip:
Daytime Phone:	Тах Ассо	unt No.:	
AGENT/CONTACT (if applicable):			
Name:	E-mail:		
Address:	City:		Zip:
Daytime Phone:	Contract	or Registration No).:
LOCATION OF BUILDING/PREMISE	MIHP # of Historic Property	ı	
Is the Property Located within an His	oric District?Yes/Distric	t Name	
Is there an Historic Preservation/Lan map of the easement, and documen	d Trust/Environmental Ease ation from the Easement Ho	ment on the Proper older supporting the	erty? If YES, include a nis application.
Are other Planning and/or Hearing E (Conditional Use, Variance, Record P supplemental information.	aminer Approvals /Reviews at, etc.?) If YES, include info	Required as part rmation on these	of this Application? reviews as
Building Number:	Street:		
Town/City:	Nearest Cross Street: _		
Lot: Block:	Subdivision: P	arcel:	
TYPE OF WORK PROPOSED: See t	e checklist on Page 4 to v	verify that all su	pporting items
be accepted for review. Check all t	with this application. Inco hat apply:	Shed/Garag	tions will not
New Construction	Deck/Porch	Solar	
Addition	Fence	Tree remova	l/planting
Demolition	Hardscape/Landscape	Window/Doo	or
Grading/Excavation	Roof	Other:	
I hereby certify that I have the author and accurate and that the construct agencies and hereby acknowledge a	rity to make the foregoing a on will comply with plans re nd accept this to be a condi	pplication, that th viewed and appro tion for the issuan	e application is correct wed by all necessary nee of this permit.

HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING

[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address	Owner's Agent's mailing address				
Adjacent and confronting	Property Owners mailing addresses				

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

Description of Work Proposed: Please give an overview of the work to be undertaken:

Work Item 1:			
Description of Current Condition:	Proposed Work:		
Work Item 2:			
Description of Current Condition:	Proposed Work:		

Work Item 3:		
Description of Current Condition:	Proposed Work:	

HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*







Existing porch with bump out. Bump out to be removed.



Close up of blue deck color

DISCLAIMER: THIS PLAN IS NOT CONSIDERED COMPLETE UNLESS

APPROVED BY YOUR BUILDING INSPECTOR OR STRUCTURAL ENGINEER. BUILDER ACCEPTS ALL RESPONSIBILITY AND

BASED ON THE INTERNATIONAL RESIDENTIAL CODE

Houthsoeuse

LIABILITY. DECKS.COM LLC AND ASSOCIATED SPONSORS ACCEPT NO LIABILITY FOR THE USE OF THIS PLAN. Houtsouse Dec ە" ÷ House **D\$W** HAND RAIL - 7' 6"



DISCLAIMER: ONLY USE #2 OR BETTER PRESSURE TREATED SOUTHERN PINE 2X10 FOR FRAMING MATERIALS. NEVER SUBSTITUTE SOFTWOODS OR COMPOSITE FOR FRAMING MATERIALS.

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STAIRWAY ILLUMINATION: ALL EXTERIOR STAIRWAYS SHALL BE ILLUMINATED AT THE TOP LANDING TO THE STAIRWAY. ILLUMINATION SHALL BE CONTROLLED FROM INSIDE THE DWELLING OR AUTOMATICALLY ACTIVATED.

.⊆ 2x10 Ledger Board to be flashed and bolted (2) 1/2" bolts with washers or equivalent every 16" on center. (See ledger detail deck construction guide) Joists to be 2x10 pressure treated southern yellow pine installed 16" on center. Beams to be 2-2x10 pressure treated southern yellow pine nailed. Guard Rails to be 36" high with less than 4" openings per IRC code. (See rail detail in deck construction guide) Stairs to be built max rise 7-3/4" min rise 4" in run 10" per IRC code. (See stair detail in deck construction guide) Decking to be 5/4x6 Pressure Treated Pine. (Follow manufacturers' installation instructions) All hardware to be corrosion resistant and installed per manufacturers' instructions.

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FOUNDATIONS.

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STAIR FOOTING REQUIREMENTS WHERE THE STAIRWAY MEETS GRADE, ATTACH THE STAIR STRINGERS TO THE STAIR GUARD RAIL POSTS. POSTS SHALL BEAR ON FOOTINGS

Footings to be installed to 48" depth as is required by your local building ordinance. Frost footing sizes based on 55 lbs per square foot tributary loads applied to 1500 psi soil compression capacity (assumed clay soil). See footing detail in deck construction guide.

DISCLAIMER: USE ONLY 2,500 PSI CONCRETE FOR FROST FOOTING

Millboard Enhanced Grain







GOLDEN OAK - MDE176G

COPPERED OAK - MDE176C

JARRAH - MDE176J BURNT CEDAR - MDE176R







BRUSHED BASALT - MDE176B

New

SMOKED OAK - MDE176D

LIMED OAK - MDE176L

ANTIQUE OAK - MDE176A

Weights and Measures

Dimensions (W x L x H)	176 x 3600 x 32mm
Weight Per Board	11.4kg
Fixings per board	22
Boards per m ²	1.54
Weight per m ²	17.6kg

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 Enhanced Grain





Millboard Polyurethane Profile

Polyurethane Resin & Mineral Board (RMB)

Pendulum Test Values

Dry: 47 Wet: 28

Dry: 65 Wet: 22

Dry: 49-60 Wet: 36-42

Dry: 54-79 Wet: 41-56

Dry: 58-75 Wet: 43-6

Typical Wood

Enhanced Grain

Weathered Oak



Resistant to algae Unlike wood, there is no



Slip-resistant







Environmentally friendly



Lightweight







Splinter-free



'Lost head' fixing





Low carbon footprint UKAS accredited to the

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 1mm 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 (2.5kN/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 (5kN/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.







Millboard Product Specification Guide Enhanced Grain



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	Мра	22.75
Line Load Bearing Test - Peak Stress (180mm width, 400mm span centres)	BS EN ISO 14125	Мра	18.32
Line Load Bearing Test - Peak Stress (180mm width, 400mm span centres)	BS EN ISO 14125	Мра	21.36
Line Load Bearing Test - Peak Stress (200mm width, 400mm span centres)	BS EN ISO 14125	Мра	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	EN13501-1 : 2007 + A1 : 2009	-	Bfl — s1
Slip Resistance - WET (Weathered Oak)	BS 7976-2	PTV`s	41 - 56
Slip Resistance - DRY (Weathered Oak)	BS 7976-2	PTV`s	54 - 79
Slip Resistance - WET (Enhanced Grain)	BS 7976-2	PTV`s	36 - 42
Slip Resistance - DRY (Enhanced Grain)	BS 7976-2	PTV`s	49 - 60
Slip Resistance - WET (Lasta-Grip)	BS 7976-2	PTV's	43 - 63
Slip Resistance - DRY (Lasta-Grip)	BS 7976-2	PTV's	58 - 75
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

Millboard Product Specification Guide Enhanced Grain



252F1SHe - 1020

millboard

Live.Life.Outside.



< Enhanced Grain

Cladding

Brushed Basalt

Brushed Basalt is the most authentic painted-wood-look decking board available. This distinctive option within the Millboard collection is perfect for seamless transitions between indoor and outdoor spaces.

Consciously styled to work with interiors, Brushed Basalt's glamorous blue-grey hues are mesmerising and interplay beautifully with other cool and contemporary tones.

Why Millboard



Contact

Q

Wood-free decking



millboard.co.u



Live. Life. Outside.

A FOCUS ON SUSTAINABILITY.

Millboard is the world's only hand-moulded Polyurethane wood-alternative decking. Setting out to replicate the beauty of natural timber without any of its inherent flaws, we created Millboard decking – a premium wood-free outdoor flooring. Its wood look is so authentic that most people never realise that it isn't wood, but its wood-free construction ensures the preservation of natural forestland.

Millboard decking is a low-carbon material that has been rigorously tested to ensure our production has minimal impact on the environment. We are proud to be the first premium outdoor flooring company in the world to have its carbon footprint independently verified and UKAS accredited, to the international standard ISO 14064-1 Verified Carbon Footprint Assurance Mark. Sustainability is a crucial element of the company's ethos, and we are committed to producing decking that enhances the outdoors without damaging the planet.

 Statistical information within has been sourced from:

 Isopa: www.polyurethanes.org
 | Huntsman: 'Blowing agent options for insulation foam after HCFC phase out'

 Isopa: Polyurethane.Sustainable Materials
 | Procedia: Recycling and disposal methods for polyurethane foam waster





LOW CARBON FOOTPRINT

1.31kg CO₂/M² to ISO 14064.

Our manufactured products were verified to the international standard ISO 14064 by a UKAS accredited testing laboratory, resulting in a low carbon footprint of 1.31kg/CO2 per m2. This proves that Millboard has a limiting effect on our contribution to climate change and our environment.



BIOPOLYMERS

Made using renewable biopolymers.

The Lastane layer on the boards is made partly from renewable raw materials, utilising biopolymers/natural oil polyols as opposed to a petroleum-based material. Natural oil polyols are derived from naturally occurring vegetables oils, therefore represent a fully renewable raw material base.



RECYCLED FILLERS

Made using recucled minerals.

Over a third of the raw materials used for making the structural core of Millboard is recycled. These materials have been diverted from waste streams and reprocessed to create premium ingredients for our boards. This helps to sustain the earths limited resources and prevents waste unnecessarily going to landfill sites.

THE MILLBOARD SUSTAINABILITY JIGSAW MODEL

We have used this jigsaw model to show the interconnected nature of Millboard's production and processes. From manufacture to delivery, sustainability is a major consideration.





TYPE OF MATERIAL

While most composite decking boards are thermoplastic (melted plastic mixed with wood), the structural core of Millboard is a blend of natural minerals bonded in a polymer resin – such composite materials are designed to provide mechanical strength, chemical resistance and durability.

The Lastane layer on the boards is made partly from renewable raw materials, utilising biobased/natural oil polyols as opposed to a petroleum-based material. Natural oil polyols are derived from naturally occurring vegetable oils, therefore represent a fully renewable raw material base.

Over a third of the raw materials used for making the structural core of Millboard is recycled, these materials have been diverted from waste streams and reprocessed to create premium ingredient for our boards.

Polyurethane is inert, safe and extremely versatile, and its production process uses less than 0.1% of oil consumed worldwide, saving 14.5 million tonnes of CO2 in Europe each year – that's equivalent to one year's worth of electricity use in two million homes.

METHOD OF MANUFACTURE

Processing Polyurethane is more energy efficient than processing thermoplastics. The production process of Millboard decking also replaces problematic HFCs with water as a blowing agent, reducing the Global Warming Potential and eliminating Ozone Depletion Potential.

TRANSPORT TO SITE

Millboard decking is made in the UK, so transportation of materials and product is kept to a minimum when it is used on UK projects, further reducing negative environmental impact. Millboard decking is a lightweight product, making it cost effective to transport; being almost half the weight per cubic metre of some conventional composite decking materials means more boards can be transported on fewer trips, so reducing CO2 emissions from road traffic.



PACKAGING

The packaging we use to cover the pallets for transport safety is fully recyclable, as its lighter than other packaging, this adds to transport economy. Due to the stability and non-porous character of Millboard decking this enables it to be stored outdoors with zero covering, further reducing the requirement for plastic-based packaging materials.



EFFICIENCY IN USE

As a building material, Polyurethane has a lifespan of 50 years or more, which means demand on global resources decreases. Our boards require minimal maintenance, therefore reducing the need to use potentially harmful cleaners or preservatives.



PRODUCT WASTAGE

The Millboard manufacturing process creates minimal wastage because boards are moulded to specific sizes and any wastage can be recycled. During installation, 100% of the board can be utilised – that's a much greater percentage than using timber, which can generate up to 15% wastage due to natural defects.



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ABILITY TO RECYCLE

Millboard decking can be recycled or reused in a variety of ways. It can be reground and recycled as a Polyurethane filler and used within building materials, such as concrete. It can also be reworked in its existing form and put to alternative uses such as path edging or creation of planters. Incineration provides effective energy recovery, releasing the same amount of energy as the Polyurethane contained at the beginning – 1kg of Polyurethane can produce energy equivalent to 1kg of coal.

At Millboard, we are exploring the use of reground filler from our own decking material within the manufacture of new products, to create a complete sustainability loop.

Complementing and conserving natural beauty

millboard.co.uk



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