



PRODUCT DESCRIPTION

Permadeck Timber Panels are a high quality, custom made, slip resistant decking system designed to suit a wide range of applications and environments. Manufactured and hand-finished to order, Permadeck Timber Panels provide a flexible decking solution, minimising downtime and closure periods. Engineered for both pedestrian and vehicular traffic, Permadeck Timber Panels are designed for quick, easy installation on both new build projects, retro fitting contracts such as; Walkways, Footbridges, Railway Station Platforms, Disabled Access Ramps, Gantries, Factories, Cycle Paths and Public Spaces.

USES

- Walkways
- Stairways
- Footbridges
- Loading Bays
- Ramps
- Disabled Access
- Mezzanine Floors
- Work Stations
- Railway Platforms
- Link Spans
- Catwalks
- Signal Gantries

Specifically designed for ease of installation, these high specification panels provide a durable slip resistant surface for both pedestrian and vehicular traffic. Engineered to suit a vast range of applications, Permadeck panels can be manufactured to incorporate DDA compliant Stair Nosings and Permagrip Hazard Warning Tiles.

AGGREGATES

Permagrip PU is typically used with Aluminium Oxide aggregate for its' high Polished Stone Value (PSV) of 70, and a score of 9 on the Mohs hardness scale.

Description	Size
Pedestrian Grade Fine	0.6mm - 1.0mm
Pedestrian Grade Medium	1.4mm - 2.0mm
Pedestrian Grade Coarse	1.0mm - 3.0mm
Vehicular Grade	3.0mm - 5.0mm

DISCLAIMER

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TECHNICAL DATA

Plywood	Finnish Birch throughout to BS5268 Part 2 1988 Section 4, of certified quality and manufactured to BS6566 1985, solid face veneers not lower than ISO Grade III.
Panel Sizes	Standard Panels: 1220 x 2440mm; 1525 x 3050mm Bespoke Panels: Cut and detailed to supplied sizes Panel Thickness: 6, 9, 12, 18 and 24mm
Epoxy Resin	Permagrip PU® - a multi-component coating system based on an advanced epoxy resin combined with mineral fillers.
Aggregate	Aluminium Oxide: Mohs Hardness 9, Polished Stone Value 70 Pedestrian Fine: 0.6mm - 1.0mm Pedestrian Medium: 1.4mm - 2.0mm Pedestrian Coarse: 1.0mm - 3.0mm Vehicular Grade: 3.0mm - 5.0mm
Slip Resistance	BS7976-2: 2002 Pendulum Tester Pedestrian Grade Fine: 74 Mean Dry; 70 Mean Wet Pedestrian Grade Med: 73 Mean Dry; 69 Mean Wet Pedestrian Grade Course : 78 Mean Dry, 77 Mean Wet
Standard Colours:	BS4800, BS381C, RAL
Edge Details	50mm Sight Line in contrasting colour Stair Nosing (optional extra) Corduroy Tactile Tiles (optional extra)
Appearance	Semi-gloss
Applications	Internal or external
Chemical Resistance:	Chemical Resistance: Mineral acids, dilute alkalis, detergents, alcohol, petrol, paraffin, white spirit, vegetable oils, diesel, lubricating oils, hydraulic oils and greases.

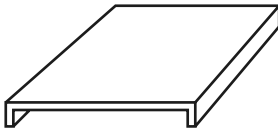
DISCLAIMER

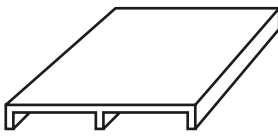
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LOADING TABLES

INDEX KEY	
T= Thickness	N= Number of piles
O_{\perp}, O_{\parallel} = permissible stress N/mm ²	I = Second moment area, mm ⁴ /mmW
ll = PerpendicularW	E_{\perp}, E_{\parallel} = Modulus of elasticity, N/mm ² w
Q= UDL kN/m ² N/mm ²	D= Deflection mm
S = Normal Stress Limitedt	ll = Parallel

SECTION PROPERTIES				MODULUS OF ELASTICITY N/mm ²				PERMISSIBLE STRESSES N/mm ²					
				BENDING		TENSION COMPRESSION		BENDING		TENSION		COMPRESSION	
N	tl		W	E	E_{\perp}	E_{\parallel}	E_{\parallel}	O_{\perp}	O_{\parallel}	O_{\perp}	O_{\parallel}	O_{\perp}	O_{\parallel}
7	9	72	15	9900	5270	8250	6910	17.1	10.9	14.6	11.7	8.7	7.3
9	12	160	26	9320	5860	8100	7070	16.0	11.8	14.2	12.0	8.5	7.5
13	18	503	55	8730	6440	7930	7230	15.3	12.2	13.7	12.2	8.4	7.7
17	24	1152	96	8440	6740	7850	7320	14.9	12.4	13.5	12.4	8.3	7.8
19	27	1622	121	8340	6830	7820	7350	14.8	12.5	13.4	12.4	8.3	7.8
21	30	2204	148	8260	6910	7800	7370	14.6	12.6	13.4	12.5	8.2	7.8

PROFILE	SINGLE SPAN PLATE STRIP - NOMINAL THICKNESS												
	Span	9mm qqqq		12mm		18mm		24mm		27mm qq		30mm	
	300	23s	3.5	36s	2.3	75s	1.6	117t	1.1	132t	0.9	146t	0.7
	400	13s	5.5	21s	4.1	42s	2.8	72s	2.1	89s	1.9	108s	1.7
	500			13s	6.4	27s	4.3	46s	3.3	57s	2.9	69s	2.6
	600					19s	6.2	32s	4.7	40s	4.2	48s	3.8
	800					11s	11.1	18s	8.3	22s	7.4	27s	6.7
	1000							11s	11.0	14s	11.6	17s	10.4
	1200									10s	16.8	12s	15.0
	1500											8s	23.4

PROFILE	DOUBLE SPAN PLATE STRIP- NOMINAL THICKNESS												
	Span	9mm qqqq		12mm		18mm		24mm		27mm qq		30mm	
	300	23s	3.5	36s	1.0	75s	1.6	94t	0.4	105t	0.3	117t	0.2
	400	13s	5.5	21s	1.7	42s	1.2	70s	0.9	79s	0.7	87s	0.6
	500	8s	3.5	13s	2.6	27s	1.8	46s	1.4	57s	1.2	69s	1.1
	600	6s	5.1	9s	3.8	19s	2.6	32s	4.7	40s	1.7	48s	1.6
	800			5s	6.8	11s	4.6	18s	8.3	22s	3.1	27s	2.8
	1000					7s	7.2	11s	11.0	14s	4.8	17s	4.3
	1200					5s	10.4	8s	7.8	10s	7.0	12s	6.2
	1500							5s	12.2	6s	10.9	8s	9.8

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Tel: +44 (0)1744 265 26
 Fax: +44 (0)1744 225 51
 Email: enquiries@nlwgroup.com
 Web: www.nlwgroup.com
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