



Technische Broschüre

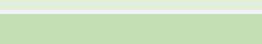
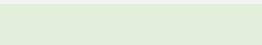
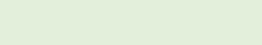
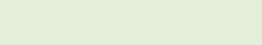
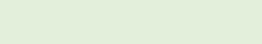
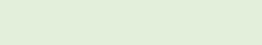
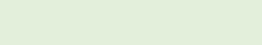
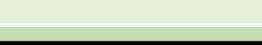
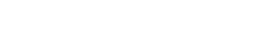
Produktdaten und Informationen für Terrassen und Dielen



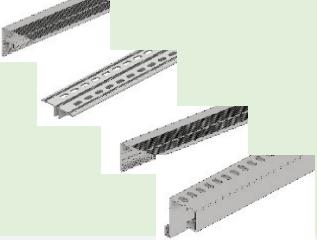
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Terrassenbodenbelag - Technische Daten

Decking					
Article Name	Profile	Article Number	Color	L (mm)	H * W (mm)
Smart™ Regular		GP7429TGPWP1BH380	Beach Grey	3800	22*142
Smart™ Regular		GP7429TGPWP2CH380	Chocolate	3800	22*142
Smart Classic™		GP741TGW1BH380	Cloudy Grey	3800	22*152
Smart Classic™		GP741TGW1BH280	Cloudy Grey	2800	22*152
Smart Classic™		GP741TGW468H380	Walnut	3800	22*152
Smart Classic™		GP741TGPWP1BH380	Beach Grey	3800	22*152
Smart Classic™		GP741TGW429H355	Drift Wood	3550	22*152
Smart Classic™		GP741TGWAOH380	Dark Oak	3800	22*152
Smart Classic™		GP741TGW11PH380	Ipé	3800	22*152
Smart Marine™		GP7190TGR1BH380	Beach Grey	3800	22*138
Smart Marine™		GP7190TGWR73S380	Teak	3800	22*138
Smart Cap™		GPSCAPTGR1BS38	Baltic Grey	3800	23*142
Smart Cap™		GPSCAPTRP2S38	Baltic Brown	3800	23*142
Entra		GP7251GR1BH300	Ash Grey	3000	22*150
Entra		GP7251GR1BH400	Ash Grey	4000	22*150
Entra		GP7251GR1BH500	Ash Grey	5000	22*150
Entra		GP7251R66S300	Walnut	3000	22*150
Entra		GP7251R66S400	Walnut	4000	22*150
Entra		GP7251R66S500	Walnut	5000	22*150
Entra		GP7251R73300	Teak	3000	22*150
Entra		GP7251R73400	Teak	4000	22*150
Entra		GP7251R73500	Teak	5000	22*150
Entra		GP7251GW46H300	Chocolate	3000	22*150
Entra		GP7251GW46H400	Chocolate	4000	22*150
Entra		GP7251GW46H500	Chocolate	5000	22*150
Marine40		GP777R1BS480C40	Beach Grey	4800	19 *146
Marine40		GP777R22S480C40	Chocolate	4800	19 *146
Marine40		GP777R4S480C40	Teak	4800	19*146
Marine40		GP777R1DS480C40	Charcoal	4800	19*146
Marine40		GP777R2S480C40	Brazilian Oak	4800	19*146
Marine60		GP7180R1BS480C60	Beach Grey	4800	22*150
Marine60		GP7180R1DS480C60	Charcoal	4800	22*150
Marine60		GP7180R37S480C60	Walnut	4800	22*150
Marine60		GP7180RA67480C60	Stone Grey	4800	22*150
Marine60		GP7180R47S480C60	Ipé	4800	22*150
MarineCap		GP7806GR1BS48C40	Baltic Grey	4800	19,5*140
MarineCap		GP7806GR2S480C40	Baltic Brown	4800	19,5*140
MarineArt		GP7779R1BS380C40	Rustic Grey	3800	18*130
MarineArt		GP7779R43S380C40	Rustic Brown	3800	18*130
Marine Jumbo		GP7116R1BS360	Beach Grey	3600	31*225
Marine Jumbo		GP7116R1BS280	Beach Grey	2800	31*225
Marine Jumbo		GP7116R73S360	Teak	3600	31*225
Marine Jumbo		GP7116R4DS360	Red Cherry	3600	31*225
Classic Jumbo		GP791R1BH480C50	Beach Grey	4800	23*200
Classic		GP741R1BH380C50	Beach Grey	3800	25*135
Classic		GP741R73H380C50	Teak	3800	25*135
Classic		GP741R73S480C50	Teak	4800	25*135
Classic		GP741R2H480C50	Chocolate	4800	25*135
Classic		GP741R1DH480C50	Charcoal	4800	25*135
Everdeck		ED7113R1BH360C30	Beach Grey	3600	23*146
Everdeck		ED7113R1H360C30	Charcoal	3600	23*146

Zubehör - Technische Daten

Decking accessories					
Article Name	Profile	Article Number	Color	L (mm)	H * W (mm)
Smart F-List		GP709FWBH190	Beach Grey	1900	33*80
Smart F-List		GP709FWR73S19	Teak	1900	33*80
Smart F-List		GP709FWP2190	Chocolate	1900	33*80
Smart F-List		GP709FW1BS19	Cloudy Grey	1900	33*80
Smart F-List		GP709FW468S19	Walnut	1900	33*80
Smart F-List		GP709FW467S19	Ipé	1900	33*80
Smart F-List		GP709FSC1BS19	Baltic Grey	1900	33*80
Smart F-List		GP709FSCR4S19	Baltic Brown	1900	33*80
Smart F-List			Dark Oak	1900	33*80
Smart L-List		GP709LWBH190	Beach Grey	1900	33*80
Smart L-List		GP709LWR73S19	Teak	1900	33*80
Smart L-List		GP709LWP2190	Chocolate	1900	33*80
Smart L-List		GP709LW1BS19	Cloudy Grey	1900	33*80
Smart L-List		GP709LW468S19	Walnut	1900	33*80
Smart L-List		GP709LW467S19	Ipé	1900	33*80
Smart L-List		GP709LSC1BS19	Baltic Grey	1900	33*80
Smart L-List		GP709LSCR4S19	Baltic Brown	1900	33*80
Smart L-List			Dark Oak	1900	33*80
Aluminium F-List		GPZL7833W190	Alu Silver	1900	45*45
Aluminium T-List		GPZL7834W190	Alu Silver	1900	45*12.5
Aluminium L-List		GPZL7832W190	Alu Silver	1900	45*45
Aluminium Start-List		GPZL7835W190	Alu Silver	1900	45*32
T-Trim		GP7151R1B240TL	Beach Grey	2400	10*25
T-Trim		GP7151R1B190TL	Beach Grey	1900	10*25
T-Trim		GP7151R4240TL	Teak	2400	10*25
T-Trim		GP7151R4220TL	Teak	2200	10*25
T-Trim		GP7151R2220TL	Chocolate	2200	10*25
T-Trim		GP7151R2400TL	Chocolate	2400	10*25
T-Trim		GP7151R1D220TL	Charcoal	2200	10*25
T-Trim		GP7151R1D240TL	Charcoal	2400	10*25
Stair-Nose Trim Small		GP7152R1B220TN	Beach Grey	2200	10*60
Stair-Nose Trim Small		GP7152R4220TN	Teak	2200	10*60
Stair-Nose Trim Small		GP7152R2220TN	Chocolate	2200	10*60
Stair-Nose Trim Small		GP7152R2400TN	Chocolate	2400	10*60
Stair-Nose Trim Small		GP7152R1D220TN	Charcoal	2200	10*60
Stair-Nose Trim Big		GP7177R1B190TN	Beach Grey	1900	26*60
Stair-Nose Trim Big		GP7177R4240TN	Teak	2400	26*60
Stair-Nose Trim Big		GP7177R2400TN	Chocolate	2400	26*60
Stair-Nose Trim Big		GP7177R1D240TN	Charcoal	2400	26*60
Coverboard Small		GP709R1BS190	Beach Grey	1900	10*80
Coverboard Small		GP709AOW190	Dark Oak	1900	10*80
Coverboard Small		GP709R73S240	Teak	2400	10*80
Coverboard Small		GP709RS220	Chocolate	2200	10*80
Coverboard Small		GP709RS240	Chocolate	2400	10*80
Coverboard Small		GP709R1DS240	Charcoal	2400	10*80
Coverboard Small		GP709WR1BS240	Stone Grey	2400	10*80
Coverboard Small		GP709WRM4240	Ipé	2400	10*80
Coverboard Small		GP709W480S240	Walnut	2400	10*80

Zubehör - Technische Daten

Decking accessories					
Article Name	Profile	Article Number	Color	L (mm)	H * W (mm)
Coverboard Medium		GP733R1BS240	Beach Grey	2400	10*130
Coverboard Medium		GP733R4S240	Teak	2400	10*130
Coverboard Medium		GP733R2S220	Chocolate	2200	10*130
Coverboard Medium		GP733R2S240	Chocolate	2400	10*130
Coverboard Medium		GP733R1DS220	Charcoal	2200	10*130
Coverboard Medium		GP733R1DS240	Charcoal	2400	10*130
Coverboard Medium		GP733R33S300	Cream	3000	10*130
Coverboard Medium		GP733R33S30	Cream	3000	10*130
Coverboard Medium		GP733W1BS240	Stone Grey	2400	10*130
Coverboard Medium		GP733W467S240	Ipé	2400	10*130
Coverboard Medium		GP733R357S240	Walnut	2400	10*130
Coverboard Large		GP734R1BS240	Beach Grey	2400	10*230
Coverboard Large		GP734R4S240	Teak	2400	10*230
Coverboard Large		GP734R2S220	Chocolate	2200	10*230
Coverboard Large		GP734R2S240	Chocolate	2400	10*230
Coverboard Large		GP734R29S240	Maple Oak	2400	10*230
Coverboard Large		GP734R1DS240	Charcoal	2400	10*230
Coverboard Large		GP734R1BSCG240	Stone Grey	2400	10*230
Coverboard Large		GP734W467S240	Ipé	2400	10*230
Coverboard Large		GP734R357S240	Walnut	2400	10*230
Corner Trim		GP719R1BL240	Beach Grey	2400	40*40
Corner Trim		GP719R4L240	Teak	2400	40*40
Corner Trim		GP719R2L220	Chocolate	2200	40*40
Corner Trim		GP719R2L240	Chocolate	2400	40*40
Corner Trim		GP719R1DS240	Charcoal	2400	40*40
Corner Trim		GP719R67L240	Stone Grey	2400	40*40
Corner Trim		GP719RL240	Walnut	2400	40*40
Corner Trim		GP719R46L240	Ipé	2400	40*40
Rhinofeet Pedestal 1		GP17PLINT	Black	17 - 30	
Rhinofeet Pedestal 2		GP30PLINT	Black	30 - 45	
Rhinofeet Pedestal 3		GP45PLINT	Black	45 - 70	
Rhinofeet Pedestal 4		GP34 PLINT	Black	170 - 270	
Rhinofeet Pedestal 5		GP40 PLINT	Black	25 - 40	
Rhinofeet Pedestal 6		GP41 PLINT	Black	35 - 70	
Rhinofeet Pedestal 7		GP42PLINT	Black	65 - 155	
Rhinofeet Pedestal 8		GP70PLINT	Black	70 - 120	
Marine40 Clips - Metal		GP777SSB6M	Black	CTN	
Marine60 Clips - Metal		GP7180SSB7M	Black	CTN	
MarineArt Clips - Metal		GP7779SSB6M	Black	CTN	
MarineCap Clips - Metal		GP7806GSSB6M	Black	CTN	
Entra Clips - Metal			Black	CTN	
Marine Jumbo Clips - Metal		GP7116SSB7M	Black	CTN	
Classic Jumbo Clips - Metal		ED1113SSB5M	Black	CTN	
Classic Clips - Metal		GP741SSB7M	Black	CTN	
Everdeck - Metal		ED1113SSB5M	Black	CTN	
Classic Clips - Plastic		GP741PCB7M	Black	CTN	
Everdeck Clips - Plastic		ED1113PLB5M	Black	CTN	
Classic Jumbo Clips - Plastic		GP791PCB6M	Black	CTN	
Classic Endcaps		GP741R1BEC	Beach Grey	CTN	
Classic Endcaps		GP741R73EC	Teak	CTN	
Classic Endcaps		GP741R2EC	Chocolate	CTN	
Classic Endcaps		GP741R1DEC	Charcoal	CTN	
Everdeck Endcaps		ED1113R1BEC	Beach Grey	CTN	
Everdeck Endcaps		ED1113R21EC	Charcoal	CTN	
Classic Jumbo Endcaps		GP791R1BEC	Beach Grey	CTN	

Technische Daten für Planken und Fliesen

Natur Composite planks					
Article Name	Profile	Article Number	Color	L (mm)	H * W (mm)
CCP - 1		GP7117R1DS360	Charcoal	3600	17*68
CCP - 2		GP7118R1BS360	Beach Grey	3600	27*49
CCP - 2		GP7118R73S360	Teak	3600	27*49
CCP - 2		GP7118R1DS360	Charcoal	3600	27*49
CCP - 3		GP7119R1BS360	Beach Grey	3600	40*90
CCP - 4		GP7120R1DS360	Charcoal	3600	72*34
CCP - 5		GP7121R1B38	Beach Grey	3800	24*140
CCP - 5		GP7121R1B36	Beach Grey	3600	24*140
CCP - 6		GP7129R1DS360	Charcoal	3600	40*140
CCP - 6		GP7129W367S240	Walnut	3600	40*140
Joist - Small		GP704R1DS360	Charcoal	3600	24*40
Joist - Hollow		GP765R1DH360	Charcoal	3600	70*40
Joist - Massive		GP7165R1DS360	Charcoal	3600	70*40
Tiles - Packets of 4					
Article Name	Profile	Article Number	Color	H (mm)	L * W (mm)
Instaclick		GP702TR1	Antique Oak	26	295*295
Instaclick		GP702T1B	Beach Grey	26	295*295
Instaclick		GP702TR2	Chocolate	26	295*295
Instaclick		GP702TR4	Teak	26	295*295
EverTile		ET703TR1D	Charcoal	26	295*295
EverTile		ET703TR1B	Beach Grey	26	295*295
EverTile		ET703TR2	Chocolate	26	295*295

Fragen und Antworten zu Green Plank® Holz - Verbundwerkstoff und Reinigung

WPC-Produkte erfordern wenig Wartung, normalerweise nur in Form von regelmäßiges Spülen. Unsere WPC-Produkte sind wasserdicht und nehmen daher kein Wasser auf. Aber wenn das Wasser ausgetrocknet und Schmutz auf der Oberfläche ist, können Flecken entstehen. Die Luft enthält auch verschiedene Schadstoffe wie Schwefel, die zusammen mit dem Schmutz Flecken bilden können.

Eine neue installierte Komposit Terrasse hatte keine Zeit, sich zu seiner neuen Umgebung anzupassen. Die Anpassung kann etwa 10 bis zu 12 Wochen dauern. Während diesem Zeitraum können Wasserflecken auf der Terrassenoberfläche auftreten. Wasserflecken sind kein Schaden, sondern eine Kombination von Schmutz und Regenwasser / Tau.



Wasserflecken

Der Komposit Terrassenbelag stammt aus einer Fabrikumgebung und muss sich an die neue Umgebung anpassen. Die Flecken, die auftreten können, liegen auf der Oberfläche des Komposit Terrassenbelag und dringen nicht in die Dieken ein. Wenn sich das Produkt angepasst hat, kehren diese Markierungen nicht zurück, es sei denn, das Produkt ist verschmutzt und der Schmutz wird beispielsweise durch Regenwasser / Tau gebunden oder der Regen enthält viele Schwefeloxide.

Wenn das Produkt Wasserzeichen erhält, können diese durch Reinigen des Belags wie folgt entfernt werden. Es ist wichtig darauf hinzuweisen, dass das Produkt wartungsfrei ist, da es nicht geölt oder geschliffen werden muss. Selbst ein wartungsfreier Holzverbund wird jedoch durch die Umgebung verschmutzt und muss daher abgewaschen / gereinigt werden. Innerhalb des Einstellzeitraums können die Flecken allmählich zurückkehren, selbst wenn der Terrassenbelag gereinigt wurde.

Massnahme gegen Schmutz und Wasserflecken:

Wasserflecken können mit gewöhnlichem mildem Haushaltsreiniger (Spülmittel oder milde Seife) und Wasser gewaschen werden. Mischen Sie 1 dl Seife oder ein paar Esslöffel Waschmittel mit 1 Liter lauwarmem Wasser. Tragen Sie den Reiniger mit einer dichten Bürste mit härteren Borsten auf



Öl und Wein:

Öl und in einigen Fällen Rotwein können die Oberfläche des Holzverbundes durchdringen und müssen schnell abgewischt werden. Dann können diese mit gewöhnlichem mildem Haushaltsreiniger (Spülmittel oder milde Seife) und Wasser abgewaschen werden. Mischen Sie 1 dl Seife oder ein paar Esslöffel Waschmittel mit 1 Liter lauwarmem Wasser. Tragen Sie den Reiniger mit einer dichten Büste mit härteren Borsten auf. (Siehe Bild oben)

Wenn nach dem Trocknen des Komposit -Terrassenbelags noch Wein- oder Ölflecken sichtbar sind, entfernen Sie den Fleck, indem Sie den mit Sandpapier abschleifen. Da das Produkt durchgefärbt ist, bleibt die Farbe erhalten. In Fällen, in denen der Komposit Terrassenbelag lange Zeit gelegen hat und in der Sonne verblasst ist, bestätigt die ursprüngliche Farbe. Diese wird mit der Zeit verblasst, bis die gleiche Farbe wie die anderen Dielen wird.

Smart™ Spezifikationen

Datasheet / Specification Smart™ Decking by Green Plank

Product Item	
Surface	Brushed surface with multi-toned colors
Dimensions	22*182 mm
Standart length	3800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	6.52 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	50 cm
Weight	3.8 kg per meter
Installation	Tongue & Groove with Screws – NO CLIPS
Special Properties (60% faster installation in comparison with conventional decking products)	<ul style="list-style-type: none">→ High Slip Resistance→ Eco-Friendly (90% recycled material)→ NO CLIPS→ Low Maintenance→ Weather and Rot resistant→ Easy Installation

Test Results for Composite Composition –

Smart™ Decking by Green Plank

Properties	Declaration	Results
Density determination according to EN ISO 1183-1	Density (g/cm³)	1.379
Linear mass determination according to EN 15534-1	Linear mass (g/m)	3371
Tensile strength determination according to EN ISO 527-2	Tensile strength (MPa)	35.05
	Strain at break (%)	3
Tensile strength determination according to EN ISO 527-2	Compressive strength (MPa)	56.32
Determination of bending properties for grooved side facing up according to EN 15534-1	Deflection under a load of 500 N (mm)	1.776
	Maximum force (N)	4444
	Bending strength (MPa)	49.37
	Bending modulus of elasticity (MPa)	5124
Determination of cupping according to EN 15534-1	(mm)	0.2
Determination of formaldehyde according to EN ISO 12460-3	Formaldehyde release (mg.m⁻².h⁻¹)	0.56

Smart™ Spezifikationen

Properties	Declaration	Results
Determination of falling mass impact resistance according to EN 15534-1	-	All of the test specimens without failure or crack or residual indentation
Determination of impact strength CHARPY according to EN ISO 179-1	Charpy impact strength ²⁾ (kJ/m ²)	8.75
Determination of resistance to sliding according to EN 15534-1	Slip resistance value – dry conditions	62
	Slip resistance value – wet conditions	42
Determination of swelling and water absorption according to EN 317	Swelling – change of length (%)	0.1
	Swelling – change of width (%)	0.1
	Swelling – change of thickness (%)	1.2
	Swelling – change of weight (%)	1.0
Determination of linear thermal expansion coefficient according to ISO 11 359-2	Linear thermal expansion coeff. (-20°C/+23°C) – „transverse“ orientation (K ⁻¹)	5.33·10 ⁻⁵
	Linear thermal expansion coeff. (-20°C/+23°C) – „longitudinal“ orientation (K ⁻¹)	3.38·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „transverse“ orientation (K ⁻¹)	9.08·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „longitudinal“ orientation (K ⁻¹)	4.67·10 ⁻⁵
Determination of deviation of straightness according to EN 15534-1	Deviation from straightness – flatwise (mm)	0.45
	Deviation from straightness – edgewise (mm)	0.25

Smart Cap™ Spezifikationen

Datasheet / Specification SmartCap™ Decking by Green Plank

Product Item	
Surface	Semi-matte with protective shell (HDPE)
Dimensions	23*172 mm
Standart length	3800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	6.94 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	50 cm
Weight	4.18 kg per meter
Installation	Tongue & Groove with Screws – NO CLIPS
Special Properties (60% faster installation in comparison with conventional decking products)	
<ul style="list-style-type: none">→ High Slip Resistance→ Eco-Friendly (90% recycled material)→ NO CLIPS→ Low Maintenance→ Weather and Rot resistant→ Easy Installation→ Capsulating causes color stability	

Test Results for capped Composite Composition – SmartCap™ Decking by Green Plank

Test Items	Test Methods	Requirements	Results
Flexural properties	EN 15534-1:2014 Annex A EN 15534-4:2014 Section 4.5.2	Flexural properties -F ¹ max: Mean ≥ 3300 N Min. ≥ 3000 N -Deflection under a load of 500 N Mean ≤ 2,0 mm Max. ≤ 2,5 mm	Bending Strength: 45.0 Mpa Modulus of elasticity: 3.6 Gpa Maximum load: Mean: 5342 N Min.: 5216 N Deflection at 500N: Mean: 1.72 mm Max.: 1.91 mm
Tensile Strength perpendicular to the panel	EN 319:1993	/	Tensile Strength: > 4.04 N/mm ²
Density	EN 15534-1:2014 Section 6.2 ISO 1183-1 Method A	/	1.292 g/cm ³
Slipperiness (Pendulum test)	EN 15534-1:2014 Section 6.4.2 CEN/TS 15676	Pendulum value ≥ 36	Mean: Longitudinal: 62 Horizontal: 85 Min.: Longitudinal: 60 Horizontal: 84

Smart Cap™ Spezifikationen

Test Items	Test Methods	Requirements	Results
Impact resistance	EN 15534-1:2014 Section 7.1.1 EN ISO 179-1:2010	/	5.8 kJ/m ²
Creep behaviour	EN 15537-1:2014 Section 7.4.1 EN 15534-4:2014 Section 4.5.3	Known span in use Mean $\Delta S \leq 10$ mm Max. $\Delta S \leq 13$ mm Mean $\Delta S_r \leq 5$ mm	Span: 300 mm Mean ΔS : 2.13 Max. ΔS : 2.25 mm Mean ΔS_r : 1.24 mm
Resistance to indentation	EN 15534-1:2014 Section 7.5 EN 1534:2010	/	Apply 2000N load Brinell hardness: 58.1 N/mm ² Rate of elastic recovery: 52%
Nail and Screw withdrawal	EN 15537-1:2014 Section 7.6 EN 13446:2002	/	Surface withdrawal: 48.5 N/mm ² Edge withdrawal: 44.1 N/mm ²
Resistance to artificial weathering	EN 15534-1:2014 Section 8.1 EN ISO 4892-2:2013 Cycle 1	/	After 2000 hours exposure $\Delta E^* = 0.72$, Grey Scale 4-5 There was slight color change
Tensile Strength perpendicular to the panel	EN ISO 4892-2:2013 Cycle 1 EN 319:1993	/	After 2000 hours exposure Tensile Strength: > 3.44 N/mm ²
Moisture resistance under cyclic test conditions	EN 15534-1:2014 Section 8.3.2 and 7.3.2 EN 15534-4:2014 Section 4.5.5.2	Decrease of bending strength, Mean $\leq 20\%$ Max. $\leq 30\%$	Original MOR: 45.0 MPa After exposure, Mean MOR: 45.1 MPa Increase: 0.2% Min MOR: 43.6 MPa Decrease: 3%
Moisture resistance under cyclic test conditions	Refer to EN 15534-1:2014 Section 8.3.2 and 8.3.1	/	Mean Swelling: 0.05% in thickness 0.01% in width 0.02% in length Max. Swelling: 0.05% in thickness 0.03% in width 0.03% in length Water absorption: Mean: 0.19% Max.: 0.23%
	Refer to EN 15534-1:2014 Section 8.3.2 and EN 319:1993	/	Tensile Strength: > 4.30 N/mm ²
Boiling Test Swelling and water absorption	EN 15534-1:2014 Section 8.3.3 and 8.3.1 EN 15534-4:2014 Section 4.5.5.4	Water absorption in weight: Mean $\leq 7\%$ Max. $\leq 9\%$	Water absorption in weight: Mean: 0.15% Max.: 0.16%

Smart Cap™ Spezifikationen

Test Items	Test Methods	Requirements	Results
Boiling Test Tensile Strength perpendicular to the panel	EN 15534-1:2014 Section 8.3.3 and 8.3.1	/	Mean Swelling: 1.12% in thickness 0.18% in width 0.13% in length Max. Swelling: 1.27% in thickness 0.21% in width 0.17% in length
	EN 15534-1:2014 Section 8.3.3 EN 319:1993	/	Tensile Strength: > 3.26 N/mm ²
Swelling and water absorption (24 hours immersion)	EN 15534-1:2014 Section 8.3.1 EN 15534-4:2014 Section 4.5.5.3	Means swelling: ≤ 4% in thickness ≤ 0,8% in width ≤ 0,4% in length Max. swelling: ≤ 5% in thickness ≤ 1,2% in width ≤ 0,6% in length Water absorption: Mean ≤ 7% Max. ≤ 9%	Means swelling: 0.02% in thickness 0.001% in width 0.002% in length Max. swelling: 0.10% in thickness 0.01% in width 0.01% in length Water absorption: Mean 0.09% Max. 0.11%
Resistance against discolouring micro-fungi	EN 15534-1:2014 Section 8.5.5 ISO 16869:2008	/	Rating 0, no growth
Pb, Cu content	EN 71-3:2013	Limit (mg/kg)	Result (mg/kg)
		Copper (Cu): 7700	< 10
		Lead (Pb): 160	< 10
Linear thermal expansion	ASTM D696:2008e1	/	39.3*10 ⁻⁶ /°C
Formaldehyde	ASTM D6007:2014	/	Not detected

Marine40™ Spezifikationen

Datasheet / Specification Marine 40™ Decking by Green Plank

Product Item	
Surface	Reversible decking planks – grooved and ripped
Dimensions	19*146 mm
Standart length	4800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	6.7 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	40 cm
Weight	3.5 kg per meter
Installation	Clips and screws
Special Properties (matching accessories aviable)	<ul style="list-style-type: none"> → High Slip Resistance → Eco-Friendly (90% recycled material) → Scandinavian design → Low Maintenance → Weather and Rot resistant → Earthy colors (reversible)

Test Results for Composite Composition –

Marine 40™ Decking by Green Plank

Properties	Declaration	Results
Density determination according to EN ISO 1183-1	Density (g/cm³)	1.379
Linear mass determination according to EN 15534-1	Linear mass (g/m)	3371
Tensile strength determination according to EN ISO 527-2	Tensile strength (MPa)	35.05
	Strain at break (%)	3
Tensile strength determination according to EN ISO 527-2	Compressive strength (MPa)	56.32
Determination of bending properties for grooved side facing up according to EN 15534-1	Deflection under a load of 500 N (mm)	1.776
	Maximum force (N)	4444
	Bending strength (MPa)	49.37
	Bending modulus of elasticity (MPa)	5124
Determination of cupping according to EN 15534-1	(mm)	0.2
Determination of formaldehyde according to EN ISO 12460-3	Formaldehyde release (mg.m⁻².h⁻¹)	0.56

Marine40™ Spezifikationen

Properties	Declaration	Results
Determination of falling mass impact resistance according to EN 15534-1	-	All of the test specimens without failure or crack or residual indentation
Determination of impact strength CHARPY according to EN ISO 179-1	Charpy impact strength ²⁾ (kJ/m ²)	8.75
Determination of resistance to sliding according to EN 15534-1	Slip resistance value – dry conditions	62
	Slip resistance value – wet conditions	42
Determination of swelling and water absorption according to EN 317	Swelling – change of length (%)	0.1
	Swelling – change of width (%)	0.1
	Swelling – change of thickness (%)	1.2
	Swelling – change of weight (%)	1.0
Determination of linear thermal expansion coefficient according to ISO 11 359-2	Linear thermal expansion coeff. (-20°C/+23°C) – „transverse“ orientation (K ⁻¹)	5.33·10 ⁻⁵
	Linear thermal expansion coeff. (-20°C/+23°C) – „longitudinal“ orientation (K ⁻¹)	3.38·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „transverse“ orientation (K ⁻¹)	9.08·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „longitudinal“ orientation (K ⁻¹)	4.67·10 ⁻⁵
Determination of deviation of straightness according to EN 15534-1	Deviation from straightness – flatwise (mm)	0.45
	Deviation from straightness – edgewise (mm)	0.25

Marine60™ Spezifikationen

Datasheet / Specification Marine 60™ Decking by Green Plank

Product Item	
Surface	Reversible decking planks – smooth and rippled
Dimensions	23*150 mm
Standart length	4800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	6.5 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	50 cm
Weight	4 kg per meter
Installation	Clips and screws
Special Properties (matching accessories aviable)	<ul style="list-style-type: none"> → High Slip Resistance → Eco-Friendly (90% recycled material) → Scandinavian design → Low Maintenance → Weather and Rot resistant → Earthy and multi-toned colors (reversible)

Test Results for Composite Composition –

Marine 60™ Decking by Green Plank

Properties	Declaration	Results
Density determination according to EN ISO 1183-1	Density (g/cm³)	1.379
Linear mass determination according to EN 15534-1	Linear mass (g/m)	3371
Tensile strength determination according to EN ISO 527-2	Tensile strength (MPa) Strain at break (%)	35.05 3
Tensile strength determination according to EN ISO 527-2	Compressive strength (MPa)	56.32
Determination of bending properties for grooved side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.776 4444 49.37 5124
Determination of bending properties for flat side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.772 4471 49.67 5092
Determination of cupping according to EN 15534-1	(mm)	0.2
Determination of formaldehyde according to EN ISO 12460-3	Formaldehyde release (mg.m⁻².h⁻¹)	0.56

Marine60™ Spezifikationen

Properties	Declaration	Results
Determination of falling mass impact resistance according to EN 15534-1	-	All of the test specimens without failure or crack or residual indentation
Determination of impact strength CHARPY according to EN ISO 179-1	Charpy impact strength ²⁾ (kJ/m ²)	8.75
Determination of resistance to sliding according to EN 15534-1	Slip resistance value – dry conditions	62
	Slip resistance value – wet conditions	42
Determination of swelling and water absorption according to EN 317	Swelling – change of length (%)	0.1
	Swelling – change of width (%)	0.1
	Swelling – change of thickness (%)	1.2
	Swelling – change of weight (%)	1.0
Determination of linear thermal expansion coefficient according to ISO 11 359-2	Linear thermal expansion coeff. (-20°C/+23°C) – „transverse“ orientation (K ⁻¹)	5.33·10 ⁻⁵
	Linear thermal expansion coeff. (-20°C/+23°C) – „longitudinal“ orientation (K ⁻¹)	3.38·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „transverse“ orientation (K ⁻¹)	9.08·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „longitudinal“ orientation (K ⁻¹)	4.67·10 ⁻⁵
Determination of deviation of straightness according to EN 15534-1	Deviation from straightness – flatwise (mm)	0.45
	Deviation from straightness – edgewise (mm)	0.25

Marine Art™ Spezifikationen

Datasheet / Specification Marine Art™ Decking by Green Plank

Product Item	
Surface	Reversible – smooth and 3D wood embossing
Dimensions	19*130 mm
Standart length	4800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	7.52 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	40 cm
Weight	3.83 kg per meter
Installation	Clips and screws
Special Properties (matching accessories aviable)	<ul style="list-style-type: none"> → High Slip Resistance → Eco-Friendly (90% recycled material) → Scandinavian design → Low Maintenance → Weather and Rot resistant → Earthy and multi-toned colors (reversible)

Test Results for Composite Composition –

Marine Art™ Decking by Green Plank

Properties	Declaration	Results
Density determination according to EN ISO 1183-1	Density (g/cm³)	1.379
Linear mass determination according to EN 15534-1	Linear mass (g/m)	3371
Tensile strength determination according to EN ISO 527-2	Tensile strength (MPa) Strain at break (%)	35.05 3
Tensile strength determination according to EN ISO 527-2	Compressive strength (MPa)	56.32
Determination of bending properties for grooved side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.776 4444 49.37 5124
Determination of bending properties for flat side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.772 4471 49.67 5092
Determination of cupping according to EN 15534-1	(mm)	0.2
Determination of formaldehyde according to EN ISO 12460-3	Formaldehyde release (mg.m⁻².h⁻¹)	0.56

Marine Art™ Spezifikationen

Properties	Declaration	Results
Determination of falling mass impact resistance according to EN 15534-1	-	All of the test specimens without failure or crack or residual indentation
Determination of impact strength CHARPY according to EN ISO 179-1	Charpy impact strength ²⁾ (kJ/m ²)	8.75
Determination of resistance to sliding according to EN 15534-1	Slip resistance value – dry conditions	62
	Slip resistance value – wet conditions	42
Determination of swelling and water absorption according to EN 317	Swelling – change of length (%)	0.1
	Swelling – change of width (%)	0.1
	Swelling – change of thickness (%)	1.2
	Swelling – change of weight (%)	1.0
Determination of linear thermal expansion coefficient according to ISO 11 359-2	Linear thermal expansion coeff. (-20°C/+23°C) – „transverse“ orientation (K ⁻¹)	5.33·10 ⁻⁵
	Linear thermal expansion coeff. (-20°C/+23°C) – „longitudinal“ orientation (K ⁻¹)	3.38·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „transverse“ orientation (K ⁻¹)	9.08·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „longitudinal“ orientation (K ⁻¹)	4.67·10 ⁻⁵
Determination of deviation of straightness according to EN 15534-1	Deviation from straightness – flatwise (mm)	0.45
	Deviation from straightness – edgewise (mm)	0.25

MarineCap™ Spezifikationen

Datasheet / Specification MarineCap™ Decking by Green Plank

Product Item	
Surface	Reversible board with protective shell (HDPE)
Dimensions	23*140 mm
Standart length	4800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	7 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	50 cm
Weight	3.5 kg per meter
Installation	Clips and Screws
Special Properties (matching accessories aviable)	
→ High Slip Resistance → Eco-Friendly (90% recycled material) → Skandinavian design → Low Maintenance → Weather and Rot resistant → Easy Installation → Capsulating causes color stability	

Test Results for Capped Composite Composition – MarineCap™ Decking by Green Plank

Test Items	Test Methods	Requirements	Results
Flexural properties	EN 15534-1:2014 Annex A EN 15534-4:2014 Section 4.5.2	Flexural properties -F ¹ max: Mean ≥ 3300 N Min. ≥ 3000 N -Deflection under a load of 500 N Mean ≤ 2,0 mm Max. ≤ 2,5 mm	Bending Strength: 45.0 Mpa Modulus of elasticity: 3.6 Gpa Maximum load: Mean: 5342 N Min.: 5216 N Deflection at 500N: Mean: 1.72 mm Max.: 1.91 mm
Tensile Strength perpendicular to the panel	EN 319:1993	/	Tensile Strength: > 4.04 N/mm ²
Density	EN 15534-1:2014 Section 6.2 ISO 1183-1 Method A	/	1.292 g/cm ³
Slipperiness (Pendulum test)	EN 15534-1:2014 Section 6.4.2 CEN/TS 15676	Pendulum value ≥ 36	Mean: Longitudinal: 62 Horizontal: 85 Min.: Longitudinal: 60 Horizontal: 84

MarineCap™ Spezifikationen

Test Items	Test Methods	Requirements	Results
Impact resistance	EN 15534-1:2014 Section 7.1.1 EN ISO 179-1:2010	/	5.8 kJ/m ²
Creep behaviour	EN 15537-1:2014 Section 7.4.1 EN 15534-4:2014 Section 4.5.3	Known span in use Mean $\Delta S \leq 10$ mm Max. $\Delta S \leq 13$ mm Mean $\Delta S_r \leq 5$ mm	Span: 300 mm Mean ΔS : 2.13 Max. ΔS : 2.25 mm Mean ΔS_r : 1.24 mm
Resistance to indentation	EN 15534-1:2014 Section 7.5 EN 1534:2010	/	Apply 2000N load Brinell hardness: 58.1 N/mm ² Rate of elastic recovery: 52%
Nail and Screw withdrawal	EN 15537-1:2014 Section 7.6 EN 13446:2002	/	Surface withdrawal: 48.5 N/mm ² Edge withdrawal: 44.1 N/mm ²
Resistance to artificial weathering	EN 15534-1:2014 Section 8.1 EN ISO 4892-2:2013 Cycle 1	/	After 2000 hours exposure $\Delta E^* = 0.72$, Grey Scale 4-5 There was slight color change
Tensile Strength perpendicular to the panel	EN ISO 4892-2:2013 Cycle 1 EN 319:1993	/	After 2000 hours exposure Tensile Strength: > 3.44 N/mm ²
Moisture resistance under cyclic test conditions	EN 15534-1:2014 Section 8.3.2 and 7.3.2 EN 15534-4:2014 Section 4.5.5.2	Decrease of bending strength, Mean $\leq 20\%$ Max. $\leq 30\%$	Original MOR: 45.0 MPa After exposure, Mean MOR: 45.1 MPa Increase: 0.2% Min MOR: 43.6 MPa Decrease: 3%
Moisture resistance under cyclic test conditions	Refer to EN 15534-1:2014 Section 8.3.2 and 8.3.1	/	Mean Swelling: 0.05% in thickness 0.01% in width 0.02% in length Max. Swelling: 0.05% in thickness 0.03% in width 0.03% in length Water absorption: Mean: 0.19% Max.: 0.23%
	Refer to EN 15534-1:2014 Section 8.3.2 and EN 319:1993	/	Tensile Strength: > 4.30 N/mm ²
Boiling Test Swelling and water absorption	EN 15534-1:2014 Section 8.3.3 and 8.3.1 EN 15534-4:2014 Section 4.5.5.4	Water absorption in weight: Mean $\leq 7\%$ Max. $\leq 9\%$	Water absorption in weight: Mean: 0.15% Max.: 0.16%

MarineCap™ Spezifikationen

Test Items	Test Methods	Requirements	Results
Boiling Test Tensile Strength perpendicular to the panel	EN 15534-1:2014 Section 8.3.3 and 8.3.1	/	Mean Swelling: 1.12% in thickness 0.18% in width 0.13% in length Max. Swelling: 1.27% in thickness 0.21% in width 0.17% in length
	EN 15534-1:2014 Section 8.3.3 EN 319:1993	/	Tensile Strength: > 3.26 N/mm ²
Swelling and water absorption (24 hours immersion)	EN 15534-1:2014 Section 8.3.1 EN 15534-4:2014 Section 4.5.5.3	Means swelling: ≤ 4% in thickness ≤ 0,8% in width ≤ 0,4% in length Max. swelling: ≤ 5% in thickness ≤ 1,2% in width ≤ 0,6% in length Water absorption: Mean ≤ 7% Max. ≤ 9%	Means swelling: 0.02% in thickness 0.001% in width 0.002% in length Max. swelling: 0.10% in thickness 0.01% in width 0.01% in length Water absorption: Mean 0.09% Max. 0.11%
Resistance against discolouring micro-fungi	EN 15534-1:2014 Section 8.5.5 ISO 16869:2008	/	Rating 0, no growth
Pb, Cu content	EN 71-3:2013	Limit (mg/kg)	Result (mg/kg)
		Copper (Cu): 7700	< 10
		Lead (Pb): 160	< 10
Linear thermal expansion	ASTM D696:2008e1	/	39.3*10 ⁻⁶ /°C
Formaldehyde	ASTM D6007:2014	/	Not detected

Classic™ Spezifikationen

Datasheet / Specification Classic™ Decking by Green Plank

Product Item	
Surface	Reversible decking planks – twice different ripped
Dimensions	25*135 mm
Standart length	4800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	7.1 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	50 cm
Weight	2.82 kg per meter (hollow plank)
Installation	Clips and screws
Special Properties (matching accessories aviable)	<ul style="list-style-type: none">→ High Slip Resistance→ Eco-Friendly (90% recycled material)→ Classic skandinavian design→ Low Maintenance→ Weather and Rot resistant→ Earthy and multi-toned colors (reversible)

Test Results for Composite Composition – Classic™ Decking by Green Plank

Properties	Declaration	Results
Density determination according to EN ISO 1183-1	Density (g/cm³)	1.379
Linear mass determination according to EN 15534-1	Linear mass (g/m)	3371
Tensile strength determination according to EN ISO 527-2	Tensile strength (MPa)	35.05
	Strain at break (%)	3
Tensile strength determination according to EN ISO 527-2	Compressive strength (MPa)	56.32
Determination of bending properties for grooved side facing up according to EN 15534-1	Deflection under a load of 500 N (mm)	1.776
	Maximum force (N)	4444
	Bending strength (MPa)	49.37
	Bending modulus of elasticity (MPa)	5124
Determination of cupping according to EN 15534-1	(mm)	0.2
Determination of formaldehyde according to EN ISO 12460-3	Formaldehyde release (mg.m⁻².h⁻¹)	0.56

Classic™ Spezifikationen

Properties	Declaration	Results
Determination of falling mass impact resistance according to EN 15534-1	-	All of the test specimens without failure or crack or residual indentation
Determination of impact strength CHARPY according to EN ISO 179-1	Charpy impact strength ²⁾ (kJ/m ²)	8.75
Determination of resistance to sliding according to EN 15534-1	Slip resistance value – dry conditions	62
	Slip resistance value – wet conditions	42
Determination of swelling and water absorption according to EN 317	Swelling – change of length (%)	0.1
	Swelling – change of width (%)	0.1
	Swelling – change of thickness (%)	1.2
	Swelling – change of weight (%)	1.0
Determination of linear thermal expansion coefficient according to ISO 11 359-2	Linear thermal expansion coeff. (-20°C/+23°C) – „transverse“ orientation (K ⁻¹)	5.33·10 ⁻⁵
	Linear thermal expansion coeff. (-20°C/+23°C) – „longitudinal“ orientation (K ⁻¹)	3.38·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „transverse“ orientation (K ⁻¹)	9.08·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „longitudinal“ orientation (K ⁻¹)	4.67·10 ⁻⁵
Determination of deviation of straightness according to EN 15534-1	Deviation from straightness – flatwise (mm)	0.45
	Deviation from straightness – edgewise (mm)	0.25

Everdeck™ Spezifikationen

Datasheet / Specification Everdeck™ Decking by Green Plank

Product Item	
Surface	Reversible decking plank – smooth and rippled
Dimensions	23*146 mm
Standart length	3600 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	6.7 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	30 cm
Weight	2.45 kg per meter (hollow plank)
Installation	Clips and screws
Special Properties (matching accessories available)	<ul style="list-style-type: none"> → High Slip Resistance → Eco-Friendly (90% recycled material) → Scandinavian design → Low Maintenance → Weather and Rot resistant → Earthy colors (reversible)

Test Results for Composite Composition –

Everdeck™ Decking by Green Plank

Properties	Declaration	Results
Density determination according to EN ISO 1183-1	Density (g/cm³)	1.379
Linear mass determination according to EN 15534-1	Linear mass (g/m)	3371
Tensile strength determination according to EN ISO 527-2	Tensile strength (MPa) Strain at break (%)	35.05 3
Tensile strength determination according to EN ISO 527-2	Compressive strength (MPa)	56.32
Determination of bending properties for grooved side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.776 4444 49.37 5124
Determination of bending properties for flat side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.772 4471 49.67 5092
Determination of cupping according to EN 15534-1	(mm)	0.2
Determination of formaldehyde according to EN ISO 12460-3	Formaldehyde release (mg.m⁻².h⁻¹)	0.56

Classic™ Spezifikationen

Properties	Declaration	Results
Determination of falling mass impact resistance according to EN 15534-1	-	All of the test specimens without failure or crack or residual indentation
Determination of impact strength CHARPY according to EN ISO 179-1	Charpy impact strength ²⁾ (kJ/m ²)	8.75
Determination of resistance to sliding according to EN 15534-1	Slip resistance value – dry conditions	62
	Slip resistance value – wet conditions	42
Determination of swelling and water absorption according to EN 317	Swelling – change of length (%)	0.1
	Swelling – change of width (%)	0.1
	Swelling – change of thickness (%)	1.2
	Swelling – change of weight (%)	1.0
Determination of linear thermal expansion coefficient according to ISO 11 359-2	Linear thermal expansion coeff. (-20°C/+23°C) – „transverse“ orientation (K ⁻¹)	5.33·10 ⁻⁵
	Linear thermal expansion coeff. (-20°C/+23°C) – „longitudinal“ orientation (K ⁻¹)	3.38·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „transverse“ orientation (K ⁻¹)	9.08·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „longitudinal“ orientation (K ⁻¹)	4.67·10 ⁻⁵
Determination of deviation of straightness according to EN 15534-1	Deviation from straightness – flatwise (mm)	0.45
	Deviation from straightness – edgewise (mm)	0.25

Classic Jumbo™ Spezifikationen

Datasheet / Specification Classic Jumbo™ Decking by Green Plank

Product Item	
Surface	Reversible decking planks – smooth and rippled
Dimensions	23*200 mm
Standart length	4800 mm
Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.	
Requirement	4.8 meter per sqm
C/C : Maximum joist span (on centers) in residential construction	50 cm
Weight	4 kg per meter
Installation	Clips and screws
Special Properties (matching accessories aviable)	<ul style="list-style-type: none"> → High Slip Resistance → Eco-Friendly (90% recycled material) → Scandinavian design – wide hollow → Low Maintenance → Weather and Rot resistant → Earthy colors (reversible)

Test Results for Composite Composition – Classic Jumbo™ Decking by Green Plank

Properties	Declaration	Results
Density determination according to EN ISO 1183-1	Density (g/cm³)	1.379
Linear mass determination according to EN 15534-1	Linear mass (g/m)	3371
Tensile strength determination according to EN ISO 527-2	Tensile strength (MPa) Strain at break (%)	35.05 3
Tensile strength determination according to EN ISO 527-2	Compressive strength (MPa)	56.32
Determination of bending properties for grooved side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.776 4444 49.37 5124
Determination of bending properties for flat side facing up according to EN 15534-1	Deflection under a load of 500 N (mm) Maximum force (N) Bending strength (MPa) Bending modulus of elasticity (MPa)	1.772 4471 49.67 5092
Determination of cupping according to EN 15534-1	(mm)	0.2
Determination of formaldehyde according to EN ISO 12460-3	Formaldehyde release (mg.m⁻².h⁻¹)	0.56

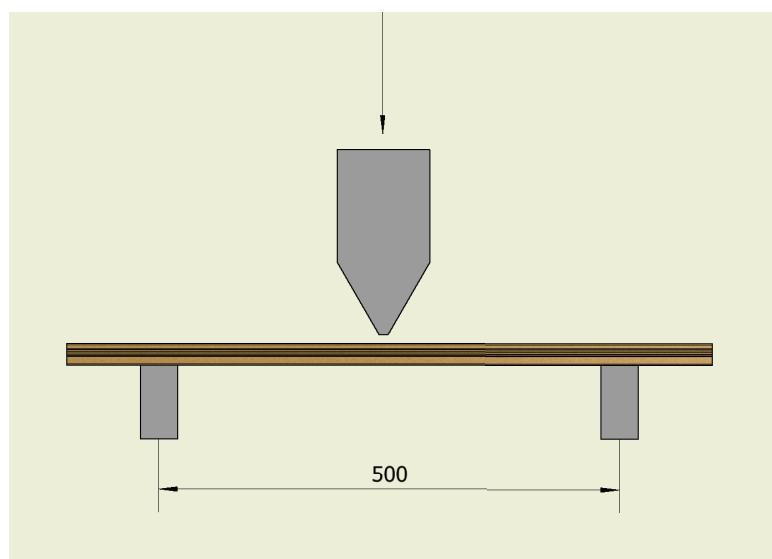
Classic Jumbo™ Spezifikationen

Properties	Declaration	Results
Determination of falling mass impact resistance according to EN 15534-1	-	All of the test specimens without failure or crack or residual indentation
Determination of impact strength CHARPY according to EN ISO 179-1	Charpy impact strength ²⁾ (kJ/m ²)	8.75
Determination of resistance to sliding according to EN 15534-1	Slip resistance value – dry conditions	62
	Slip resistance value – wet conditions	42
Determination of swelling and water absorption according to EN 317	Swelling – change of length (%)	0.1
	Swelling – change of width (%)	0.1
	Swelling – change of thickness (%)	1.2
	Swelling – change of weight (%)	1.0
Determination of linear thermal expansion coefficient according to ISO 11 359-2	Linear thermal expansion coeff. (-20°C/+23°C) – „transverse“ orientation (K ⁻¹)	5.33·10 ⁻⁵
	Linear thermal expansion coeff. (-20°C/+23°C) – „longitudinal“ orientation (K ⁻¹)	3.38·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „transverse“ orientation (K ⁻¹)	9.08·10 ⁻⁵
	Linear thermal expansion coeff. (+23°C/+80°C) – „longitudinal“ orientation (K ⁻¹)	4.67·10 ⁻⁵
Determination of deviation of straightness according to EN 15534-1	Deviation from straightness – flatwise (mm)	0.45
	Deviation from straightness – edgewise (mm)	0.25

Druckbelastungstests

Profil:	Smart Classic
Breite:	150
Dicke:	22
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	500
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	3647
Biegefestigkeit (MPa):	35.2

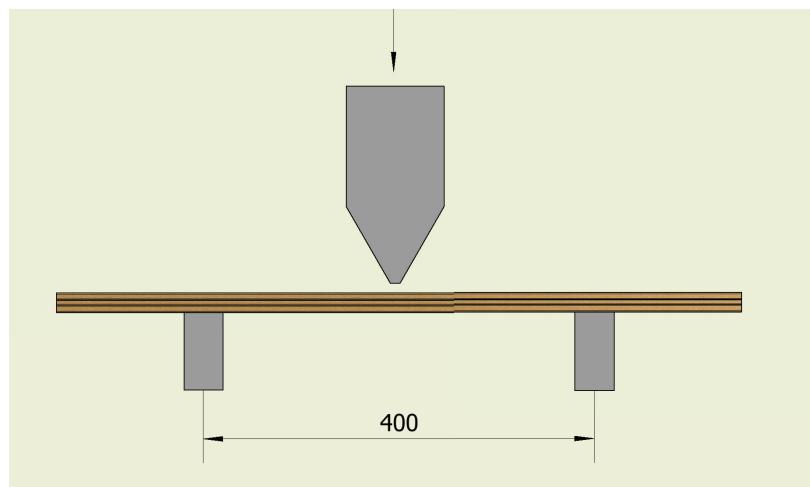
Profil:	Smart Regular
Breite:	142
Dicke:	22
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	500
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	2234
Biegefestigkeit (MPa):	23



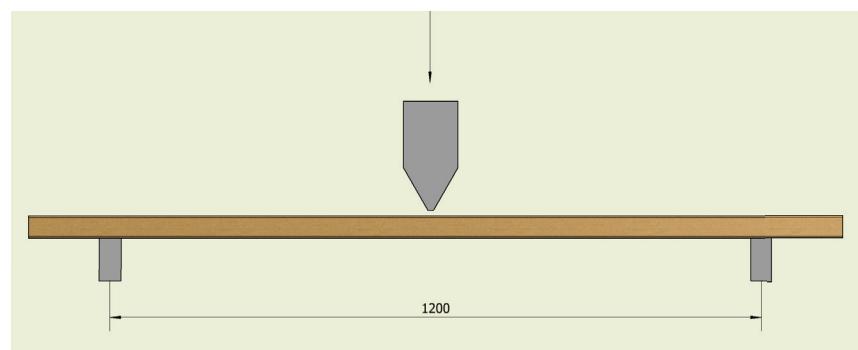
Profil:	Smart Marine
Breite:	136
Dicke:	22
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	500
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	3298
Biegefestigkeit (MPa):	35.72

Profil:	Entra
Breite:	146
Dicke:	22
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	500
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	3060
Biegefestigkeit (MPa):	29.61

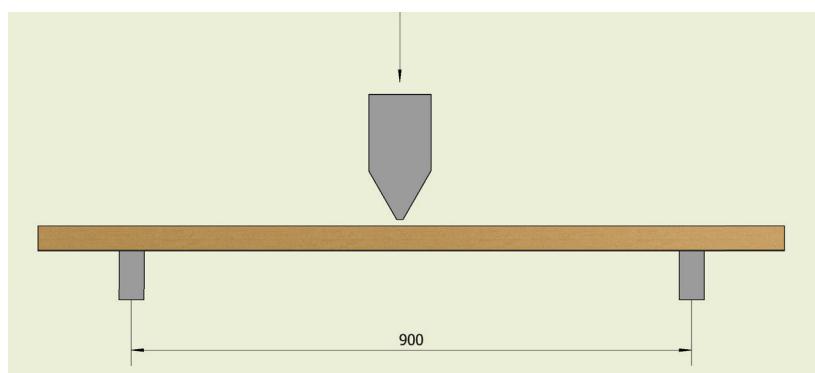
Profil:	Marine 40
Breite:	146
Dicke:	19.5
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	400
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	3320
Biegefestigkeit (MPa):	34.05



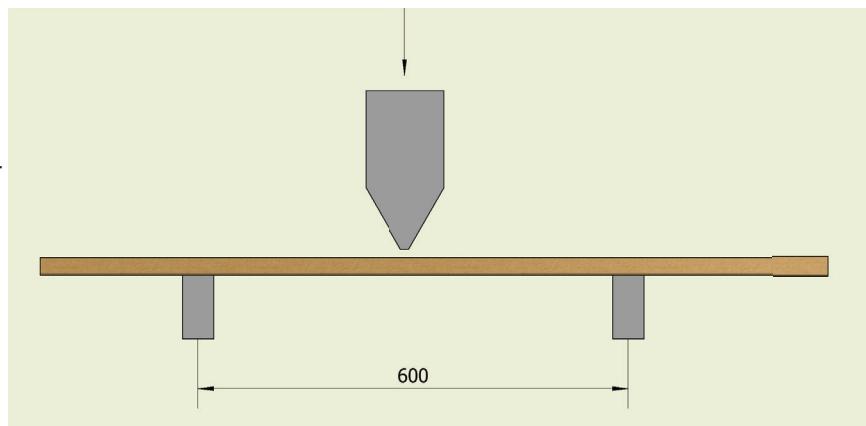
Profil:	GP 7129
Breite:	140
Dicke:	40
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	1200
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	3238
Biegefestigkeit (MPa):	26.01



Profil:	GP 7119
Breite:	90
Dicke:	40
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	900
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	4139
Biegefestigkeit (MPa):	37.86



Profil:	GP 7121
Breite:	140
Dicke:	24
UV-Beständigkeit:	Grey scale 3-4
Brandschutzklasse:	Dfl-s1
(Feuerhemmende Formel B -s1)	
Balkenspanne (mm):	600
Testgeschwindigkeit (mm / min):	10
Mindest. Bruchlast (N):	3482
Biegefestigkeit (MPa):	37.23



RhinoFeet™ Spezifikationen



The fastest way
to build a deck!

Decking support pads standard

With the standard top, the decking support pads offer a support surface for any substructure profile. Screwing on the substructure on the lateral stud ensures a firm hold, while the double thread allows the entire structure to be comfortably adjusted in height.

Material: Hard plastic, Polypropylene



Product	Part no.	Height adjustable	Qty.
Decking support pads standard	7206	25 - 40 mm	Pieces
	7242	35 - 70 mm	Pieces
	7243	65 - 155 mm	Pieces
	7244	145 - 225 mm	Pieces

Carrying capacity for flat surface loads*:

Product	Part no.	Newton / pad	kg / pad
Decking support pads standard	7206	7982	814
	7242	8149	831
	7243	8228	839
	7244	11718	1195

*The values given correspond to the maximum load capacity. In the case of higher loads, the left / right thread can be slipped into the adjacent threads.

Advantages:

- ✓ The head piece, which is moveable into all directions, can compensate for substrate slopes of up to 8%.
- ✓ The double thread allows for millimetre-accurate height adjustments by continuously turning to the right or left.
- ✓ On the levelling feet, all components are connected to each other and locked to prevent becoming unscrewed unintentionally.
- ✓ All decking support pads are produced in Germany.
- ✓ The Terracon® support pads have been tried and tested in practice for years. This is a high-quality product line for professional, safe and time-saving deck construction.



BUILDING PRODUCT DECLARATION BPD 3

in compliance with the guidelines of the Ecocycle Council, June 2007

1 Basic data

Product identification			Document ID	
Product name Wood Plastic Composite Decking, Façade, Fencing, etc.		Product no/ID designation		Product group 020 Trävaror
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration		In the case of a revised declaration		
		Has the product been changed?		The change relates to
		<input type="checkbox"/> No	<input type="checkbox"/> Yes	Changed product can be identified by
Drawn up/revised on (date)			Inspected without revision on (date)	
Other information:				

2 Supplier information

Company name Green Plank AB		Company reg. no/DUNS no 556671-1767		
Address Kantyxegatan 23 SE-213 76 Malmö		Contact person Nasir Gill Telephone +46 40 450 560		
Website: www.GreenPlank.se		E-mail info@GreenPlank.se		
Does the company have an environmental management system?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	
The company possesses certification in compliance with	<input type="checkbox"/> ISO 9000	<input type="checkbox"/> ISO 14000	<input type="checkbox"/> Other	If "other", please specify:
Other information: Green Plank				

3 Product information

Country of final manufacture China		If country cannot be stated, please state why		
Area of use Extruded Wood-Plastic Composite Products for Decking, Cladding & Fencing				
Is there a Safety Data Sheet for this product?		<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
In accordance with the regulations of the Swedish Chemicals Agency, please state:		Classification Labelling		<input type="checkbox"/> Not relevant
Is the product registered in BASTA?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has the product been eco-labelled?	<input checked="" type="checkbox"/> Criteria not found	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:
Is there a Type III environmental declaration for the product?				<input type="checkbox"/> Yes <input type="checkbox"/> No
Other information:				

4 Contents

(To add a new green row, select and copy an entire empty row and paste it in)

At the time of delivery, the product comprises the following parts/components, with the chemical composition stated:					
Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classification	Comments
Wood Fiber		62 - 65			
Polyethylene		27 - 30			
Non-toxic additives		5 - 8			

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.

Other information:					
If the chemical composition of the product after it is built in differs from that at the time of delivery, the content of the finished built in product should be given here. If the content is unchanged, no data need be given in the following table.					

Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classifi- cation	Comments

Other information:

5 Production phase

Resource utilisation and environmental impact during production of the item is reported in one of the following ways:

- 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the **manufacturing unit**, and the outflows (emissions and residual products) from it, i.e. from “gate-to-gate”.
- 2) All inflows and outflows from the extraction of raw materials to finished products i.e. “cradle-to-gate”.
- 3) Other limitation. State what:

The report relates to unit of product	<input type="checkbox"/> Reported product	<input type="checkbox"/> The product's product group	<input type="checkbox"/> The product's production unit
---------------------------------------	---	--	--

Indicate raw materials and intermediate goods used in the manufacture of the product	<input type="checkbox"/> Not relevant
Raw material/intermediate goods	Comments
Non-toxic additives such as Pigments, Fillers.	

Indicate recycled materials used in the manufacture of the product	<input type="checkbox"/> Not relevant
Type of material	Comments
Dried wood flour (scrap from secondary wood products like furniture or cabinet manufacturers)	
High Density Polyethylene (post-consumer recycled food containers)	

Enter the energy used in the manufacture of the product or its component parts	<input type="checkbox"/> Not relevant
Type of energy	Comments

Enter the transportation used in the manufacture of the product or its component parts	<input type="checkbox"/> Not relevant
Type of transportation	Comments

Enter the emissions to air, water or soil from the manufacture of the product or its component parts	<input type="checkbox"/> Not relevant
Type of emission	Comments

Enter the residual products from the manufacture of the product or its component parts				<input type="checkbox"/> Not relevant
Residual product	Waste code	Quantity	Proportion recycled Material recycled %	Comments
			Energy recycled %	

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.

Is there a description of the data accuracy for the manufacturing data?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify: Other information:
---	------------------------------	--	---

6 Distribution of finished product

Does the supplier put into practice a system for returning load carriers for the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does the supplier put into practice any systems involving multi-use packaging for the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does the supplier take back packaging for the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the supplier affiliated to REPA?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Other information:			

7 Construction phase

Are there any special requirements for the product during storage?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: stacked at plane surface with supports
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Other information:				

8 Usage phase

Does the product involve any special requirements for intermediate goods regarding operation and maintenance?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:		
Does the product have any special energy supply requirements for operation?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:		
Estimated technical service life for the product is to be entered according to one of the following options, a) or b):					
a) Reference service life estimated as being approx.	<input type="checkbox"/> 5 years	<input type="checkbox"/> 10 years	<input checked="" type="checkbox"/> 15 years	<input type="checkbox"/> 25 years	<input type="checkbox"/> >50 years
b) Reference service life estimated to be in the interval of	years				Comments
Other information:					

9 Demolition

Is the product ready for disassembly (taking apart)?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:	
Does the product require any special measures to protect health and environment during demolition/disassembly?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:	
Other information:					

10 Waste management

Is it possible to re-use all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Can be recycled	
Is it possible to recycle materials for all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Can be recycled	
Is it possible to recycle energy for all or parts of the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:	
Does the supplier have any restrictions and recommendations for re-use, materials or energy recycling or waste disposal?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:	
Enter the waste code for the supplied product					

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.

Is the supplied product classed as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If the chemical composition of the product differs after having been built in from that which it had at the time of delivery, meaning that another waste code is given to the finished built in product, then this should be entered here. If it is unchanged, the following details can be omitted.		
Enter the waste code for the built in product		
Is the built in product classed as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information:		

11 Indoor environment (To add a new green row, select and copy an entire empty row and paste it in)

When used as intended, the product gives off the following emissions:		<input checked="" type="checkbox"/> The product does not have any emissions		
Type of emission	Quantity [$\mu\text{g}/\text{m}^2\text{h}$] or [$\text{mg}/\text{m}^3\text{h}$]		Method of measurement	Comments
	4 weeks	26 weeks		
Can the product itself give rise to any noise?		<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Value	Unit	Method of measurement		
Can the product give rise to electrical fields?		<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Value	Unit	Method of measurement		
Can the product give rise to magnetic fields?		<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Value	Unit	Method of measurement		
Other information:				

References

Appendices

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.



4th October, 2010

MATERIAL SAFETY DATA SHEET GREEN PLANK® DECKING

1.) PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Green Plank® Decking

USE: Wood Composite Products for Decking

INGREDIENTS:

Wood fiber: 62 – 65% by weight
Polyethylene: 27 – 30% by weight
Additives: 5 – 8% by weight

SUPPLIER: Green Plank AB
Kantyxegatan 23
SE-213 76 Malmö
Sweden

PRODUCT AND MSDS INFORMATION: +46 (0)40 – 450 560

2.) COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS:

- 1.) WOOD FIBER, WOOD DUST OR WOOD FLOUR
- 2.) POLYETHYLENE

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

<u>SUBSTANCE NAME</u>	<u>WEIGHT PERCENTAGE</u>
WOOD FIBER DUST	62 - 65 %

NOTE: WOOD FIBER IS CONTAINED IN A POLYETHYLENE MATRIX. POLYETHYLENE IS A THERMOPLASTIC MATERIAL. THIS MATRIX CONTAINS PREDOMINANTLY WOOD FIBER AND POLYETHYLENE. THE POLYETHYLENE CAN BE SOURCED AS VIRGIN OR REGRIND (RECYCLED) MATERIALS. THE STANDARD PRODUCT IS APPROXIMATELY 65% WOOD FIBER, 27% THERMOPLASTIC, AND 8% ADDITIVES SUCH AS PIGMENTS, UV STABILIZERS, ETC.

3.) HAZARDS IDENTIFICATION

EUROPEAN AGENCY FOR SAFETY AND HEALTH AT WORK OSHA HAZARD COMMUNICATION STANDARD: This product may be used in applications that produce wood



4th October, 2010

MATERIAL SAFETY DATA SHEET GREEN PLANK® DECKING

dust fibers. According to OSHA CFR 1910.1200, certain wood fibers are considered hazardous if the workplace airborne concentration exceeds the OHSA or ACGIH exposure limits (See section 8).

EMERGENCY RESPONSE DATA: Light gray, cedar or redwood solid. Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion. DOT ERG No. – NA

4.) FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INHALATION: If respiratory irritation, cough shortness of breath, wheezing or chest tightness occurs after exposure to dust, remove from further exposure, seek immediate medical assistance and call for a physician.

INGESTION: Not expected to be a problem when ingested in small quantities. If uncomfortable, seek medical assistance.

5.) FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Water

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire-exposed product cool. For fires in enclosed area, fire fighters must use self-contained breathing apparatus.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion.

Flash Point:

Flame Spread Index:

Flammable Limits – LEL: NA

Flammable Limits – UEL: NA

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, Carbon Monoxide,



4th October, 2010

MATERIAL SAFETY DATA SHEET GREEN PLANK® DECKING

Acetaldehyde, Formaldehyde, Formic Acid and Acetic Acid.

6.) ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURE: None

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Where dusty conditions are created as a result of cutting or sawing, wet down material then sweep or vacuum for disposal. Personnel performing cleanup must use protective equipment.

ENVIRONMENTAL PRECAUTIONS: Not expected to be a problem.

PERSONAL PRECAUTIONS: See Section 8.

7.) HANDLING AND STORAGE

HANDLING: Green Plank® Decking is not intended for load-bearing or heavy structural applications. Please consult Fiber Composites' literature for proper usage. The density of Green Plank® Decking material is heavier as compared to most traditional lumber products. Therefore, the user must employ proper handling to prevent damage or injury.

STORAGE: Store Green Plank® Decking away from strong oxidizing agents or combustible material.

8.) EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use and work in a well-ventilated area.

RESPIRATORY PROTECTION: Approved dust respirators must be used for dusty conditions or if breathing of dusts is probable.

EYE PROTECTION: Safety glasses with side shields or goggles should be worn to protect against dust particles in the air.

SKIN PROTECTION: No special equipment required. Good personal hygiene should be followed.



4th October, 2010

MATERIAL SAFETY DATA SHEET GREEN PLANK® DECKING

9.) PHYSICAL AND CHEMICAL PROPERTIES

Physical properties are given which are considered representative. For specific physical properties refer to the Product Data Sheet.

APPEARANCE: Solid

COLOR: Cedar which fades to a light peach after several weeks.
Gray which fades to a light gray after several weeks.
Redwood which fades to a light red after several weeks.
Brown which fades to a light brown after several weeks

ODOR: None

PH VALUE: NA

BOILING POINT: NA

MELTING POINT: Approximately 130 C

FLASH POINT: 398 C

FLAMMABILITY: SwRI – Flame Spread Index = 115

SELF-IGNITION: 437 C

SMOKE DEVELOPED VALUE: 135

WATER ABSORPTION: .5% by weight

COEF. OF MOISTURE EXPANSION: .5% by thickness

WATER SOLUBILITY: Negligible

FUNGUS RESISTANCE: No Decay

TERMITE RESISTANCE: Light Attack Rating = 9.6 (10 Max)

COEF OF THERMAL EXPANSION: 2.8×10^{-5} (1/C)

VAPOR DENSITY: NE

EVAPORATION RATE: NE

POUR POINT: NA

FREEZING POINT: NE

VOLATILE ORGANIC COMPOUND: NE

NOTE: NA – Not Applicable NE – Not Established

For additional information, contact customer service.

10.) STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, WEATHER, ETC.): Stable (color does fade).

CONDITIONS TO AVOID: Heat and flame. Build up of dusts.

INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, carbon monoxide, acetaldehyde, formaldehyde, formic acid & acetic acid.



4th October, 2010

MATERIAL SAFETY DATA SHEET GREEN PLANK® DECKING

HAZARDOUS POLYMERIZATION:

Will not occur.

11.) TOXICOLOGICAL DATA

ACUTE TOXICOLOGY

ORAL TOXICITY (RATS):	NE
DERMAL TOXICITY (RABBITS):	NE
INHALATION TOXICITY (RATS):	NE
EYE IRRITATION (RABBITS):	NE
SKIN IRRITATION (RABBITS):	NE

NOTE: NE – Not Established

CHRONIC TOXICOLOGY

IARC has determined and summarized that there is sufficient evidence to classify wood fiber as a human carcinogen. Exposure to wood fiber is severely reduced when wood fiber is encased by a polymer matrix.

12.) ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not Established

13.) DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of waste as normal refuse.

14.) TRANSPORT INFORMATION

IMO: Not regulated by IMO.
IATA: Not regulated by IATA

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