

# HARMODECK

## WPC - WOOD PLASTIC COMPOSITE

Test Item		Unit	Test Method	Standard	Test Condition	Test Result
3 point bending properties	Max	N	BS EN 15534-1 : 2014+A1 : 2017	-	Span : 400mm	1894
	static bending intensity	MPa		≥22.5		30.8
	Flexural modulus	MPa		≥1800		3102.22
4 point bending properties	Max	N	BS EN 15534-1 : 2014+A1 : 2017	-	Span : 400mm	2799
	static bending intensity	MPa		-		45.53
	Flexural modulus	MPa		-		4618.21
Density		g/cm <sup>3</sup>	BS EN 15534-1 : 2014+A1 : 2017	1.220-1.280	water	1.284
Moisture resistance - boiling water test	water absorption	%	BS EN 15534-1 : 2014+A1 : 2017	≤7.0	boiling 100°C -5h	0.82
	lengthwise direction	%		≤0.6		0.21
	Width direction	%		≤1.5		0.27
	Thickness	%		≤4.0		1.09
	apparent mass	-		Surface mass :5 hours continuous boiling without		no abnormalities
Thermal contraction		%	BS EN 15534-1-2014+A1 : 2017	≤3.0	100°C - 1 h, 23°C-24h	0.01
Delamination rate		-	-	No delamination	23±2°C 70±2°C soak 30days	No delamination



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Freeze-thaw resistance	retention rate	%	ASTM D7032-2017	Bending failure load retention rate≥90	23°C water 24h - 30°C freeze 24h indoor temperature 24h 3 circulation	106.02
	apparent mass	-		There is no peeling, bulging and cracking on the surface of the plate		there is no peeling, bulging and cracking on the surface of the plate
Wet swelling and water absorption	water absorption	%	BS EN 317	≤15	23°C±2-28days	0.61
Often drop hammer impact	depth of the concave	mm	BS EN 15534-1 : 2014+A1 : 2017	≤0.5	1000g ball 700mm Height drop	0.07



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