

# COMMERCIAL DECKING

## DECKING SPAN DATA

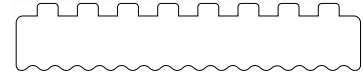
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It was requested the beams be tested using a 900, 600 and 450mm support span length. The beams were tested in accordance with ASTM D790. The maximum flexural strength and deflection was recorded.

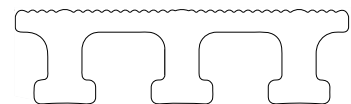
### FLEXURAL STRENGTH RIBBED SAMPLE

Support Span	Loading Speed (mm/min)	Test Sample	Maximum Flexural Strength		Deflection at Maximum Flexural Strength (mm)
			(kN)	(kgf)	
900mm	40	Ribbed - 1	4.05	412.9	22
		Ribbed - 2	2.10	214.1	29
		Average	3.08	313.5	25.5
600mm	18	Ribbed - 1	3.25	331.4	28
		Ribbed - 2	3.41	347.7	29
		Average	3.33	339.5	28.5
450mm	10	Ribbed - 1	4.62	471.1	24
		Ribbed - 2	4.59	468.1	22
		Average	4.61	469.6	23.0



### FLEXURAL STRENGTH ECOSPAN SAMPLE

Support Span	Loading Speed (mm/min)	Test Sample	Maximum Flexural Strength		Deflection at Maximum Flexural Strength (mm)
			(kN)	(kgf)	
900mm	40	EcoSpan - 1	4.10	418.1	19
		EcoSpan	3.90	397.7	22
		Average	4.00	407.9	20.5
600mm	18	EcoSpan - 1	9.40	958.5	23
		EcoSpan - 2	6.40	652.6	20
		Average	7.90	805.5	21.5
450mm	10	EcoSpan - 1	11.38	1160.4	21
		EcoSpan - 2	8.72	889.2	24
		Average	10.05	1024.8	22.5



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