



**Comparative Product Data
15.5 mm**

		Strength, Stiffness and Rigidity Capacities			
Engineering Property	Orientation	DFP	CSP	OSB Single-floor	OSB Sheathing
Bending (N•mm/mm)	0°	750	520	310	460
	90°	230	230	100	160
Axial Tension (N/mm)	0°	130	110	60	67
	90°	71	71	43	48
Axial Compression (N/mm)	0°	170	120	87	92
	90°	79	79	78	87
Shear-through-thickness (N/mm)	0°	36	38	47	55
	90°	36	38	47	55
Planar Shear-Bending (N/mm)	0°	6.6	6.6	5.2	6.1
	90°	3.6	3.6	3.3	3.8
Planar Shear-Shear in Plane (MPa)	0°	0.55	0.55	0.52	0.61
	90°	0.72	0.72	0.33	0.38
Bending Stiffness (N•mm ² /mm)	0°	3,000,000	2,000,000	1,400,000	2,100,000
	90°	430,000	430,000	300,000	500,000
Axial Stiffness - in tension or compression (N/mm)	0°	94,000	71,000	53,000	53,000
	90°	47,000	47,000	31,000	31,000
Shear Through Thickness Rigidity (N/mm)	0°	8400	7100	11,000	12,000
	90°	8400	7100	11,000	12,000
Bearing Strength (MPa)	normal to plane of panel	4.5	4.5	4.2	4.2
Panel Weight (kg)	-	23	21	29	29

Notes:

1) These values are from CSA O86 Engineering Design with Wood and apply to products certified to the following standards: DFP - CSA O121, CSP - CSA O151, OSB - CSA O325. Values have been provided for information purposes only. Complete design information may be found in CSA O86 or in CANPLY publication [Plywood Design Fundamentals](#)

2) DFP and CSP values are conservatively derived using the weakest species, worst-case construction and thinnest panel allowed within the respective manufacturing standard.

3) Values for OSB Single Floor are based on a span-rating of 1F16 and a thickness of 15.0 mm.

4) Values for OSB Sheathing are based on a span-rating of 2R40/2F20 and a thickness of 15.0 mm.

