



**Comparative Product Data  
9.5 mm**

		Strength, Stiffness and Rigidity Capacities			
Engineering Property	Orientation	DFP	CSP	OSB Single-floor	OSB Sheathing
Bending (N•mm/mm)	0°	270	250	-	180
	90°	59	59	-	57
Axial Tension (N/mm)	0°	97	71	-	53
	90°	28	28	-	18
Axial Compression (N/mm)	0°	130	79	-	62
	90°	50	50	-	54
Shear-through-thickness (N/mm)	0°	24	23	-	42
	90°	24	23	-	42
Planar Shear-Bending (N/mm)	0°	3.9	3.9	-	3.8
	90°	1.4	1.4	-	2.4
Planar Shear-Shear in Plane (MPa)	0°	0.55	0.55	-	0.60
	90°	0.72	0.72	-	0.38
Bending Stiffness (N•mm <sup>2</sup> /mm)	0°	840,000	570,000	-	560,000
	90°	33,000	33,000	-	100,000
Axial Stiffness - in tension or compression (N/mm)	0°	70,000	47,000	-	33,000
	90°	30,000	30,000	-	19,000
Shear Through Thickness Rigidity (N/mm)	0°	5,500	4,300	-	10,000
	90°	5,500	4,300	-	10,000
Bearing Strength (MPa)	normal to plane of panel	4.5	4.5	-	4.2
Panel Weight (kg)	-	14	13	-	18

**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 Sheathing are based on a span-rating of 2R24 and a thickness of 9.5 mm.

4) Orientation is relative to the face grain or the panel's long direction.