



**Comparative Product Data  
7.5 mm**

		Strength, Stiffness and Rigidity Capacities			
Engineering Property	Orientation	DFP	CSP	OSB Single-floor	OSB Sheathing
Bending (N•mm/mm)	0°	180	160	-	-
	90°	38	38	-	-
Axial Tension (N/mm)	0°	97	71	-	-
	90°	23	23	-	-
Axial Compression (N/mm)	0°	130	79	-	-
	90°	40	40	-	-
Shear-through -thickness (N/mm)	0°	20	18	-	-
	90°	20	18	-	-
Planar Shear-Bending (N/mm)	0°	3.7	3.7	-	-
	90°	1.2	1.2	-	-
Planar Shear-Shear in Plane (MPa)	0°	0.72	0.72	-	-
	90°	0.72	0.72	-	-
Bending Stiffness (N•mm <sup>2</sup> /mm)	0°	440,000	300,000	-	-
	90°	17,000	17,000	-	-
Axial Stiffness - in tension or compression (N/mm)	0°	70,000	47,000	-	-
	90°	24,000	24,000	-	-
Shear Through Thickness Rigidity (N/mm)	0°	4,600	3,400	-	-
	90°	4,600	3,400	-	-
Bearing Strength (MPa)	normal to plane of panel	4.5	4.5	-	-
Panel Weight (kg)	-	11	10	-	-

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

