



**Comparative Product Data
20.5 mm**

		Strength, Stiffness and Rigidity Capacities			
Engineering Property	Orientation	DFP	CSP	OSB Single-floor	OSB Sheathing
Bending (N•mm/mm)	0°	1100	780	-	-
	90°	550	550	-	-
Axial Tension (N/mm)	0°	160	140	-	-
	90°	71	71	-	-
Axial Compression (N/mm)	0°	210	160	-	-
	90°	79	79	-	-
Shear-through-thickness (N/mm)	0°	47	51	-	-
	90°	47	51	-	-
Planar Shear-Bending (N/mm)	0°	10	10	-	-
	90°	5.7	5.7	-	-
Planar Shear-Shear in Plane (MPa)	0°	0.55	0.55	-	-
	90°	0.55	0.55	-	-
Bending Stiffness (N•mm ² /mm)	0°	5,900,000	4,000,000	-	-
	90°	1,900,000	1,900,000	-	-
Axial Stiffness - in tension or compression (N/mm)	0°	120,000	95,000	-	-
	90°	47,000	47,000	-	-
Shear Through Thickness Rigidity (N/mm)	0°	11,000	9500	-	-
	90°	11,000	9500	-	-
Bearing Strength (MPa)	normal to plane of panel	4.5	4.5	-	-
Panel Weight (kg)	-	31	27	-	-

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.

