



**Comparative Product Data  
22.5 mm**

		Strength, Stiffness and Rigidity Capacities			
Engineering Property	Orientation	DFP	CSP	OSB Single-floor	OSB Sheathing
Bending (N•mm/mm)	0°	1600	1100	640	-
	90°	630	630	400	-
Axial Tension (N/mm)	0°	190	160	92	-
	90°	110	110	75	-
Axial Compression (N/mm)	0°	240	180	140	-
	90°	130	130	130	-
Shear-through -thickness (N/mm)	0°	52	56	64	-
	90°	52	56	64	-
Planar Shear-Bending (N/mm)	0°	9.3	9.3	9.2	-
	90°	9.8	9.8	6.4	-
Planar Shear-Shear in Plane (MPa)	0°	0.55	0.55	0.63	-
	90°	0.72	0.72	0.44	-
Bending Stiffness (N•mm <sup>2</sup> /mm)	0°	8,800,000	6,100,000	6,100,000	-
	90°	2,500,000	2,500,000	2,100,000	-
Axial Stiffness - in tension or compression (N/mm)	0°	130,000	110,000	76,000	-
	90°	75,000	75,000	44,000	-
Shear Through Thickness Rigidity (N/mm)	0°	12,000	10,000	15,000	-
	90°	12,000	10,000	15,000	-
Bearing Strength (MPa)	normal to plane of panel	4.5	4.5	4.2	-
Panel Weight (kg)	-	33	30	42	-

**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 1F32 and a thickness of 22.0 mm.

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