



**Comparative Product Data
28.5 mm**

		Strength, Stiffness and Rigidity Capacities			
Engineering Property	Orientation	DFP	CSP	OSB Single-floor	OSB Sheathing
Bending (N•mm/mm)	0°	2300	1600	1200	-
	90°	1000	1000	720	-
Axial Tension (N/mm)	0°	200	170	130	-
	90°	140	140	110	-
Axial Compression (N/mm)	0°	260	200	280	-
	90°	160	160	270	-
Shear-through-thickness (N/mm)	0°	65	71	85	-
	90°	65	71	85	-
Planar Shear-Bending (N/mm)	0°	12	12	14	-
	90°	9.2	9.2	10	-
Planar Shear-Shear in Plane (MPa)	0°	0.55	0.55	0.73	-
	90°	0.55	0.55	0.55	-
Bending Stiffness (N•mm ² /mm)	0°	16,000,000	12,000,000	11,000,000	-
	90°	5,700,000	5,700,000	4,400,000	-
Axial Stiffness in tension or compression (N/mm)	0°	140,000	120,000	98,000	-
	90°	95,000	95,000	51,000	-
Shear Through Thickness Rigidity (N/mm)	0°	15,000	13,000	20,000	-
	90°	15,000	13,000	20,000	-
Bearing Strength (MPa)	normal to plane of panel	4.5	4.5	4.2	-
Panel Weight (kg)	-	42	38	54	-

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 1F48 and a thickness of 28.5 mm.

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

