



**Comparative Product Data
12.5 mm**

| | | Strength, Stiffness and Rigidity Capacities | | | |
|--|--------------------------|---|-----------|------------------|---------------|
| Engineering Property | Orientation | DFP | CSP | OSB Single-floor | OSB Sheathing |
| Bending (N•mm/mm) | 0° | 420 | 380 | - | 270 |
| | 90° | 130 | 130 | - | 100 |
| Axial Tension (N/mm) | 0° | 97 | 89 | - | 65 |
| | 90° | 55 | 55 | - | 38 |
| Axial Compression (N/mm) | 0° | 130 | 99 | - | 77 |
| | 90° | 79 | 79 | - | 67 |
| Shear-through-thickness (N/mm) | 0° | 30 | 30 | - | 50 |
| | 90° | 30 | 30 | - | 50 |
| Planar Shear-Bending (N/mm) | 0° | 5.5 | 5.5 | - | 4.8 |
| | 90° | 2.8 | 2.8 | - | 3.0 |
| Planar Shear-Shear in Plane (MPa) | 0° | 0.55 | 0.55 | - | 0.60 |
| | 90° | 0.72 | 0.72 | - | 0.38 |
| Bending Stiffness (N•mm ² /mm) | 0° | 1,700,000 | 1,200,000 | - | 1,100,000 |
| | 90° | 190,000 | 190,000 | - | 220,000 |
| Axial Stiffness - in tension or compression (N/mm) | 0° | 70,000 | 59,000 | - | 43,000 |
| | 90° | 47,000 | 47,000 | - | 25,000 |
| Shear Through Thickness Rigidity (N/mm) | 0° | 6,900 | 5,700 | - | 11,000 |
| | 90° | 6,900 | 5,700 | - | 11,000 |
| Bearing Strength (MPa) | normal to plane of panel | 4.5 | 4.5 | - | 4.2 |
| Panel Weight (kg) | - | 19 | 17 | - | 23 |

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 2R32/2F16 and a thickness of 12.0 mm.

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