

IMPACT LUMBER ENGINEERING SPECIFICATIONS

PROPERTY	IMPACTPOSTTM TESTED VALUE	SPRUCE/PINE PUBLISHED DATA	PLASTIC LUMBER PUBLISHED DATA
Specific Gravity (D792)	1.15 — 1.28	0.42 — 0.70	0.96 — 0.99
Compressive Strength (D143)	16.2 MPa (2350 psi) 2	13 MPa (1800 psi)	1900— 2000 psi
Compressive Strength (D6108)	14.1 MPa@23C (1840 psi)	580 psi cross grain	N/A
	30MPa@-30C (4400 psi) 2	N/A	N/A
Flexural Strength (D6109)	7.0— 8.0 MPa (1000— 1200 psi) i	1392 psi	1725 KPa (250 psi) (D4761)
Tensile Strength (D198)	7.1 MPa (1036 psi) 2	1.9 KPa (280 psi)	1302 psi
Shear Strength (D1068)	7.3 MPa (1053 psi)	4.8 — 7.3 MPa (690 — 1080 psi)	561 psi
Taber Abrasion @ 1000 cycles	1.02 mm (0.02") 3	Destroyed	0.01"
Hardness Shore D	54— 59 3	N/A	N/A
Thermal Expansion (E228)	78 uM/M/C 2	26 uM/M/C	N/A
Softening Temp.	237-255 F 2	N/A	N/A
Flame Spread (D3806) Red Oak= 100%	55% 3	23 — 100+%	80%
Fastener Retention	2.3KN (523 lbs) 2	377 lbs	N/A
• 4" Ardox	4.7 KN (1050 lbs) 2	275 lbs	87.8 lbs
• 5" Common		320 lbs	N/A
• 6" Common	4.6 KN (1026 lbs) 2	350 lbs	421 lbs
• 3/8" x 3" Lag	14.5KN (3100 lbs) 2		
Leachate TCLP EPA 1311	Pass 5	N/A	N/A
Fungus & Termites	Not Attacked	N/A	N/A
Water Absorption (D1037)	0.5 — 1.3% 2	>30%	1.7—4.3%
Paint Type — Recommended	Exterior "solvent" Paints	ANY	N/A
Acute Oral Toxicity Limit	Non Toxic	Treated lumber can be toxic	N/A
Insulating Value Asbestos = 52	7	41	N/A
UV Resistance UV A chamber@38C	10,000 hrs no effect	Degrades slowly Bleached/darkened @1000 Hours	N/A

NOTES ON ENGINEERING SPECIFICATIONS;

Subscript numbers denote the lab that performed the tests:

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| 1. University of Manitoba Engineering Labs. | 4. Product Safety Labs, E. Brunswick, NJ |
| 2. Saskatchewan Research Council | 5. Toronto Testing Laboratories |
| 3. Alberta Research Council | |