

# Strength x Endurance = The XPotential Advantage



**XPotential Products Inc.**

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Life Expectancy: 75-100 Years

## ENGINEERING SPECIFICATIONS

PROPERTY	IMPACT-POST™ Tested value	SPRUCE / PINE Published Data
Specific Gravity (D792)	1.15 — 1.28	0.42 — 0.70
Taber Abrasion @ 1000 cycles	1.02 mm (0.04") <sub>5</sub>	Destroyed
Hardness Shore D	54 — 59 <sub>5</sub>	N/A
Thermal Expansion (E228)	78 uM/M/C <sub>1</sub>	26 uM/M/C
Softening Temp.	237-255 F <sub>1</sub>	N/A
Flame Spread (D3806) Red Oak = 100%	55% <sub>5</sub>	23 — 100+%
Leachate TCLP EPA 1311	Pass <sub>4</sub>	N/A
Fungus & Termites	Not Attacked	N/A
Water Absorption (D1037)	0.5 — 1.3% <sub>1</sub>	>30%
Paint Type — Recommended	Exterior "solvent / latex" paint (or) solid non-penetrating stain	Any
Acute Oral Toxicity Limit	Non Toxic <sub>3</sub>	Treated lumber can be toxic
Insulating Value Asbestos = 52	7 <sub>5</sub>	41
UV Resistance UV A chamber@38C	10,000 hrs slight fading, no loss to structural integrity <sub>2</sub>	Degrades slowly Bleached/darkened @1000 Hours

### Notes on Engineering Specifications:

Subscript numbers denote the lab that performed the tests:

- 1. Saskatchewan Research Council
- 2. XPotential Labs
- 3. Product Safety Labs, E. Brunswick, NJ
- 4. Toronto Testing Laboratories
- 5. Alberta Research Council

## COMPARISONS TO SPRUCE / PINE

Compressive Strength	Comparable to Spruce/Pine
Flexural Strength	Approximately 1/2 that of Spruce / Pine
Tensile Strength	Comparable to Spruce / Pine
Shear Strength	Comparable to Spruce / Pine
Fastener Retention	At Least Twice that of Spruce / Pine

NOTE: Due to our flexural strength, XPotential Products have limited structural applications



Cut it. Drill it. Fasten it. Paint it.