



OC™ LUMBER STRUCTURAL POST PERFORMANCE & CONFIGURATION

OC™ Lumber Structural Posts are a high-performance composite alternative to pressure-treated lumber (PTL) designed to enable safe, resilient, and durable structures.

- Resists mold, mildew, and pests
- Allows for contact with water (salt and fresh) and ground
- Compatible with standard wood post installation tools

Standards and Testing Methods

ASTM D7147

Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers

ASTM D6109

Flexural Properties of Unreinforced and Reinforced Plastic Lumber and Related Products

ASTM E84

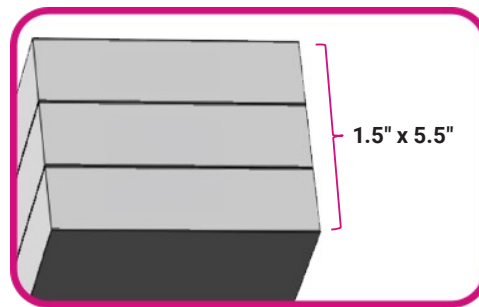
Surface Burning Characteristics of Building Materials



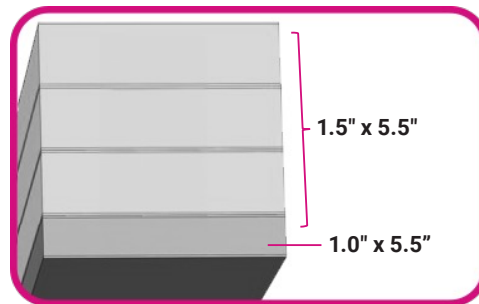
Performance data collected and published by DRJ Engineering, April 2023

The drawings below illustrate the post configurations found in tables 1, 2 and 3 (page 2):

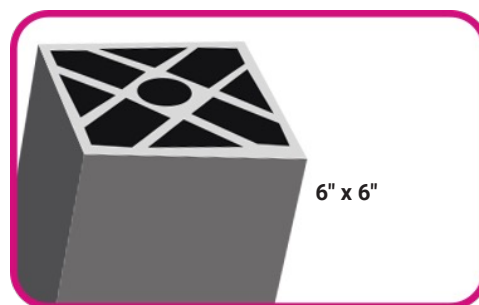
3-ply 2" x 6"



4-ply Assembly



OC Lumber 6" x 6" Structural Post



MAX POST HEIGHT 1 – MAX POST SPAN (FT) VS. TRIBUTARY AREA (SQFT) AT 40 PSF

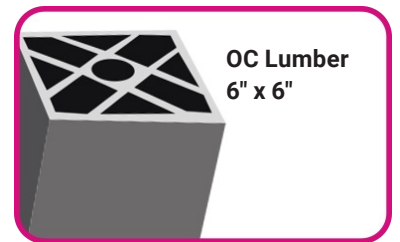
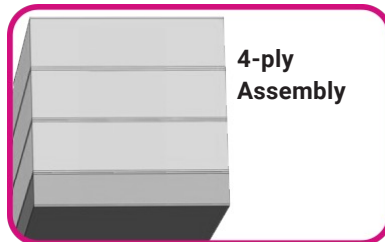
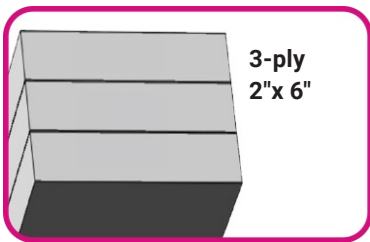
Load (PSF)	Post Configuration	Post Size (in)	Tributary Area (sq ft)							
			20	40	60	80	100	120	140	160
			Maximum Allowable Post Height							
40	3-ply of 2x6	4.5 x 5.5	16'	16'	14'	12'-2"	11'	10'	9'-4"	8'-8"
	4-ply assembly	5.5 x 5.5	20'	20'	20'	17'	15'-4"	14'	13'	12'-4"
	OC LUMBER 6" x 6"	6x6	20'	20'	19'-10"	17'	15'	13'-10"	12'-10"	12'

MAX POST HEIGHT 2 – MAX POST SPAN (FT) VS. TRIBUTARY AREA (SQFT) AT 70 PSF

Load (PSF)	Post Configuration	Post Size (in)	Tributary Area (sq ft)							
			20	40	60	80	100	120	140	160
			Maximum Allowable Post Height							
70	3-ply of 2x6	4.5 x 5.5	16'	14'	11'-6"	10'	9'	8'-2"	7'-7"	7'-2"
	4-ply assembly	5.5 x 5.5	20'	20'	16'-2"	14'	12'-8"	11'-7"	10'-8"	10'
	OC LUMBER 6" x 6"	6x6	20'	19'-10"	16'	13'-10"	12'-6"	11'-5"	10'-6"	9'-10"

MAX POST HEIGHT 3 – MAX POST SPAN (FT) VS. TRIBUTARY AREA (SQFT) AT 100 PSF

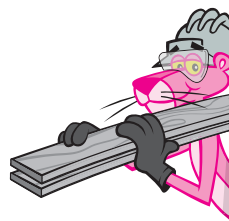
Load (PSF)	Post Configuration	Post Size (in)	Tributary Area (sq ft)							
			20	40	60	80	100	120	140	160
			Maximum Allowable Post Height							
100	3-ply of 2x6	4.5 x 5.5	16'	12'-4"	10'	8'-8"	7'-9"	7'-2"	6'-8"	6'-2"
	4-ply assembly	5.5 x 5.5	20'	17'	14'	12'-4"	11'	10'	9'-3"	8'-8"
	OC LUMBER 6" x 6"	6x6	20'	17'	13'-10"	12'	10'-9"	9'-10"	9'-2"	8'-6"



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