

# Select™ Lumber SPECIFICATION PLASTIC LUMBER

## DESCRIPTION:

Plastic lumber shall be manufactured with recycled HDPE. Lumber shall be molded in one piece per specified size. All materials will have UV additives to prevent deterioration of the plastic lumber from exposure to UV light. HDPE will be made up of no less than 95% recycled material; both post industrial and post consumer. Finished plastic lumber will not rot, split, crack or splinter for a minimum of 50 years. It shall be resistant to termites, marine borers, salt spray, oil, and fungus.

## MECHANICAL PROPERTIES:

Test	English Units		Metric Units		
	ASTM Test	Value	Units	Value	Units
Flexural Strength	D6109-97	1355	PSI	95	Kg/cm <sup>2</sup>
Flexural Modulus	D6109-97	95939	PSI	6744	Kg/cm <sup>2</sup>
Compression Strength	D6108-97	1420	PSI	100	Kg/cm <sup>2</sup>
Compression Modulus	D6108-97	51000	PSI	3585	Kg/cm <sup>2</sup>
Specific Gravity	D6111-97	0.861	g/cc	0.861	g/cc
Flash point		644	Deg F	340	Deg C
Moisture Absorption		0.06	% by Weight	0.06	% by Weight
Thermal Expansion	D6341-98	0.000055	Inch/Inch/Deg F		
Average Nail pull out	D6117-97	504	Lbs		

## DIMENSIONAL TOLERANCES:

**CUP/BULDGE TOLERANCES** – deviation in the face from a straight line from edge to edge of piece.

FACE WIDTH	4"	6"	8"	10"	12"
Tolerance (+/-)	3/32"	1/8"	3/16"	1/4"	1/4"

**LENGTH TOLERANCE** = + 3" / - 0" – Measured at 70 deg F.

The above listed are specifications for plastic lumber to be used as a reference for bid specifications. This is only a guide. Your specific application should be addressed by a professional engineer.