

InvisiWave and FRP Concealment Panel Los Angeles Certification (LARR 25400)

Raycap has constructed thousands of concealment sites and recognizes the importance of having materials that not only perform well, but that also meet or exceed strict city and building codes. The city of Los Angeles issued extremely stringent flammability requirements that require a special FRP resin formulation to pass. We are the first concealment vendor to satisfy the requirements and to offer an RF transparent panel and 5G mmWave concealment material, InvisiWave™, that complies with the latest Los Angeles Building Code. Raycap enclosure materials are acceptable for rooftop, tower, pod and pole concealment structures up to 18 feet tall.

For assistance with your next LA concealment project, you may contact your local Sales Representative, **Paul Vranesh** at **310.701.6432** or by email at **pvrnesh@verizon.net**.

DESIGN VALUES FOR FRP		
PROPERTY	DIRECTION	SPECIFICATION
Tensile	Lengthwise	3750 psi
	Crosswise	815 psi
Tensile Modulus	Lengthwise	3.3 x 10 psi
	Crosswise	1.5 x 10 psi
Flexural	Lengthwise	3750 psi
	Crosswise	1250 psi
Flexural Modulus	Lengthwise	1.5 x 10 psi
	Crosswise	0.7 x 10 psi
Compressive Modulus	Lengthwise	5.4 x 10 psi
	Crosswise	2.5 x 10 psi
Shear	Lengthwise - (1)	350
	Lengthwise - (2)	540
	Crosswise - (1)	165
	Crosswise - (2)	215
½" Bolt Bearing on FRP Lengthwise	Lengthwise	3800 psi
	Crosswise	2450 psi
½" Bolt Tension	-	300 pounds (3)
½" Bolt Shear	-	780 pounds (3)
Minimum Edge Distance	-	1 - inch
Flame Spread & Smoke Density per ASTM E2768-11	-	(FS) 10; (SDI) 800; Max Flame Front 8.7 ft From Burner Centerline

(1) - LOAD APPLIED PERPENDICULAR TO LAMINATION.

(2) - LOAD APPLIED PARALLEL TO LAMINATION.

(3) - LOAD APPLIED TO IT WITH FIVE THREADS, FAILED BY THREAD STRIPPING.

RR 25400 NOTE: DESIGN VALUE IS BASED ON A FACTOR OF SAFETY OF 8.

