

FACTORY IN HOUSE TEST REPORT

FIRE RETARDANT PLY IS-5509:2021

Sample size : 2440x1220x19mm

Date: 12-03-2026

Type : 1/AA

Grade :FRP

Brand : REDWOOD FIRE RETANDENT MARINE

Sl. No.	TEST	PRESCRIBED VALUE	RESULTS
1	Dimension (mm)	Tolerance of	Tolerance of -
	a) Length	a) + 6 mm, - 0 mm	a) + 2mm
	b) Width	b) + 3 mm, - 0 mm	b) +2mm
	c) Thickness	c) \pm 5%	c) 18.90 to19.17mm
2	Squareness, %	0.2	0.11
3	Edge Straightness, %	0.2	0.12
4	Workmanship and finish	As per Clause 9	Conforms
5	Moisture content, %	5 to 15	8.81%
6	Water Resistance Test	6 cycles passed	Passed
7	Modules of elasticity(N/mm²)		
	Parallel to the face grain,	Avg. 5000	Avg. 5787
		Min. 4300	Min : 4775
	Perpendicular to the face grain,	Avg. 2500	Avg. 3154
Min. 2200		Min. 2588	
8	Modulus of Rupture, (N/mm²)		
	Parallel to the face grain,	Avg. 50	Avg. 59
		Min. 45	Min. 49
	Perpenicular to the face grain,	Avg. 30	Avg. 42
Min. 27		Min. 33	
9	Flame penetration	Time taken for flame penetration shall not be less than 15t/6 minutes, where 't' is the thickness of the plywood	51min
10	Flammability	Time taken for the second ignition shall not be less than 30 minutes.	33 min
11	Rate of Burning	Time taken to lose Weight from 30% to 70% shall not be less than 20 minutes.	21 min

Remarks : Samples Conform to as per IS : 5509 - 2021.

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