




TEST REPORT

1. Test Report No.	: AML/2011-07/1976 / 218	24/8/2011
2. OC No.	: 1976	
3. Customer's Name	: Egwood Boards & Panels (P) Ltd	
4. Customer's Address	: 6-3-679, 1st Floor, 'Elite Plaza' Punjagutta, Hyderabad-500 082	
5. Letter reference and date	: EBPL/ADM/11-12/01/20 dt. 07.07.2011	
6. Kind Attention	: Mr. Vijay Rao Regional Manager West, Sales	
7. Service requirements	: Testing of Marine Plywood (12 mm thk) as Per IS 710	
8. No. of Samples	: 1 No.	
9. No. of pages	: 3 Nos.	
10. Test Report Compiled By	:	 P.S. PHALE PROJECT ENGINEER
11. Test Report Verified & Approved by	:  THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA	 B.SATISH ASSIST. DIRECTOR
Place of Issue: PUNE		Date of Issue: 24/8/2011
DISCLAIMER:		
<p>This test report pertains only to the components / parts / assemblies / vehicles etc. actually tested at ARAI in the presented condition based on the documents / information produced / submitted by the customer. The issuance of this test report alone does not indicate any measure of approval, certification, supervision, control of quality surveillance by ARAI of the product. No extract, abridgement or abstraction from this test report shall be published or used to advertise the product without the written consent of the Director, ARAI, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought. ARAI is in no way responsible for any misuse of copying of any design / type / system in connection with entire vehicle / components / parts and assemblies. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the customer and ARAI shall not be liable for any claims or damages, made by the party, whatsoever, the customer shall alone be liable for the same, and undertakes to indemnify ARAI in this regard. Further, the ARAI has the right to initiate cancellation / withdrawal of the certificate issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ARAI. The appropriate local courts at Pune shall have the jurisdiction in respect of any dispute, claim or liability arising out of this report.</p> <p>ARAI will preserve the tested samples for a period of THREE months from the date of issue of the test report. Queries, if any, regarding the sample or the test report, will be entertained / attended to in this stipulated period of three months only</p>		



TEST REPORT

Customer's Name : Egwood Boards & Panels (P) Ltd
 Kind Attention : Mr. Vijay Rao,
 Regional Manager West, Sales
 Reference : EBPL/ADM/11-12/01/20 dt. 07.07.2011
 Service requirements : Testing of Marine Plywood (12 mm thk) as Per IS 710:06

1. Test results:

Sl. No	Test	Specification	Observation	Remark
1	Moisture content	5 - 15 %	5.2 %	Pass
2	Glue shear strength in dry state	Min: 1100 N Avg: 1350 N	1 st pair of glue lines: Min: 1693 N; Avg: 2194 N 2 nd pair of glue lines: Min: 2557 N; Avg: 2607 N 3 rd pair of glue lines: Min: 1486 N; Avg: 1672 N	Pass
3	Adhesion of Plies in dry state	The veneers shall offer appreciable resistance to separation and the fractured samples shall show some adherent fibres distributed more or less uniformly, when tested as per IS 1734: Part IV	Conforms	Pass
4	Water resistance test			
4.1	Glue shear strength	Min: 800 N Avg: 1000 N	1 st pair of glue lines: Min: 1983 N; Avg: 2009 N 2 nd pair of glue lines: Min: 1699 N; Avg: 1724 N 3 rd pair of glue lines: Min: 1322 N; Avg: 1372 N	Pass
4.2	Adhesion of Plies			
5	Tensile strength	In grain direction: Min. 42.0 N/mm ²	52 N/mm ²	Pass
		In right angle to grain direction: Min. 25.0 N/mm ²	43 N/mm ²	Pass
		Sum in both direction: Min. 84.5 N/mm ²	95 N/mm ²	Pass

TEST REPORT

Customer's Name : Egwood Boards & Panels (P) Ltd
Kind Attention : D. Aditya Kiran,
Branch Manager
Reference : EBPL/ADM/11-12 dt. 27.09.2011
Service requirements : Static Bending Test of Marine Plywood (12 mm thk) as Per
IS 710


I. Test results:

Sl. No	Test	Specification	Observation	Remark
1	Static Bending strength			
	Parallel to Grain direction	Modulus of Elasticity: Min: 6700; Avg: 7500 N/mm ²	Minimum: 15337 N/mm ² Average: 15617 N/mm ²	Pass
		Modulus of rupture: Min: 45; Avg: 50 N/mm ²	Minimum: 123.2 N/mm ² Average: 125.9 N/mm ²	Pass
	Perpendicular to grain direction	Modulus of Elasticity: Min: 3600; Avg: 4000 N/mm ²	Minimum: 10660 N/mm ² Average: 10993 N/mm ²	Pass
		Modulus of rupture: Min: 27; Avg: 30 N/mm ²	Minimum: 97.4 N/mm ² Average: 105.5 N/mm ²	Pass

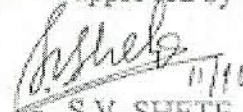
Note:

All tests were conducted on the samples prepared as per the standard by the customer (M/s. Egwood Boards & Panels (P) Ltd).

Test report compiled by


P.S. PHALE
PROJECT ENGINEER

Test report verified & approved by


S.V. SHETE
ASST. DIRECTOR