

Ref: CIVIL AID:STEEL/BL/929b/05/2015
 Test Order dated: 11.05.2015



Date: 21.05.2015



CIVIL - AID

M/s. PLYNEER INDUSTRIES
 Sy. No. 7/2, Corp sub no. 320/2/12-c,
 Ward No.41, Flower Garden, Mysore Road,
 Bangalore – 560026

TEST REPORT ON MARINE PLYWOOD SAMPLE

Source of sample : Sample supplied by the customer
 No. of sample tested : 1 (One)
 Customer's Reference : Letter dated 08.05.2015
 UIN No. : 150011493
 Project* : Not furnished
 Sample Description* : PLYNEER Waterproof Plywood 19 mm thick
 BWP 710 MARINE GRADE
 Period of test : 15.05.2015 to 20.05.2015
 Condition of the sample : Satisfactory.
 Test method : IS: 1734 – 1983, IS: 710 -2010

Sl. No.	Test Conducted	Test Result	Requirements as per IS: 710 - 2010
1	Dimension (mm) Thickness	19.63	Upto6 mm thk. - ±10% Above 6 mm thk. - ±5%
2	Moisture content (%)	9.2	5.0 – 15.0
3	Density (kg/m ³)	811	Not specified
4	Glue adhesion in dry state c. Adhesion of plies d. Glue Shear strength (N)	Resistance to separation 1507	Shall offer appreciable resistance to separation Min. 1350
5	Resistance to water (Samples shall be kept submerged in a pan of boiling water for 72 hr.) a. Adhesion of plies b. Glue Shear strength (N)	Resistance to separation 1233	Shall offer appreciable resistance to separation Min. 1000
6	Static Bending Strength(N/mm ²) a. Parallel to grain b. Perpendicular to grain	63.4 46.0	Min. 50 Min. 30
7	Wet Static Bending Strength(N/mm ²) a. Parallel to grain b. Perpendicular to grain	36.4 28.1	Min. 25 Min. 22
8	Tensile strength (N/mm ²) a. Parallel to grain b. Perpendicular to grain	55.7 34.5	Min. 42.0 Min. 25.0

*As furnished by the customer.

- Note:**
1. The results relate only to the samples tested.
 2. Report shall not be reproduced, except in full, without the written approval of the lab.
 3. Any correction invalidates this report.

for CIVIL AID TECHNOCLINIC PVT. LTD.

Handwritten signature and date: 22/5/15

**Radhakrishna
 Manager - Lab**



Civil-Aid Technoclinic Pvt. Ltd.
 (A Bureau Veritas Group Company)
 43, 45, 46 & 47, Pete Chennappa Inds. Estate
 Ground & 1st Floor, 1st Main, Magadi Road
 Kamakshipalya, Bangalore - 560 079. India
 Tel.: +91 80 23011800 Fax: +91 80 26716833

Regd. Off.: Marwah Centre, 6th Floor
 K. Marwah Marg, Andheri (E), Mumbai - 72
 Tel.: +91 22 66956300 Fax: +91 22 66956309
 bangalore.lab@in.bureauveritas.com
 www.civilaid.com
 CIN: U28120MH1997PTC260040

Bangalore (Corp. Off) Tel.: +91 80 39950500
 Chennai (Off/Lab) Tel.: +91 44 31924060
 Cochin (Off/Lab) Tel.: +91 484 2108800
 Hyderabad (Off) Tel.: +91 40 66824582
 Hyderabad (Lab) Tel.: +91 40 64584582
 Mangalore (Off/Lab) Tel.: +91 824 2213571



CIVIL - AID



Ref:CIVIL AID:STEEL/BL/929a/05/2015
Test Order dated: 11.05.2015

Date: 21.05.2015

M/s. PLYNEER INDUSTRIES
Sy. No. 7/2, Corp sub no. 320/2/12-c,
Ward No.41, Flower Garden, Mysore Road,
Bangalore – 560026

TEST REPORT ON PLYWOOD SAMPLE

Source of sample	:	Sample supplied by the customer
No. of sample tested	:	1 (One)
Customer's Reference	:	Letter dated 08.05.2015
UIN No.	:	150011493
Project*	:	Not furnished
Sample Description*	:	PLYNEER Commercial Plywood 18 mm thick –MR Grade
Period of test	:	15.05.2015 to 20.05.2015
Condition of sample	:	Satisfactory
Test method	:	IS: 1734 – 1983, IS: 303 - 1989

Sl. No.	Test Conducted	Test Result	Requirements as per IS: 303 - 1989
1	Dimension (mm) Thickness	18.65	Upto 6 mm thk. - ±10% Above 6 mm thk. - ±5%
2	Moisture content (%)	9.40	5.0 – 15.0
3	Density (kg/m ³)	677	Not specified
4	Glue adhesion in dry state a. Adhesion of plies b. Glue Shear strength (N)	Resistance to separation 1370	Shall offer appreciable resistance to separation Min. 1350
5	Static Bending Strength(N/mm ²) a. Parallel to grain b. Perpendicular to grain	61.6 49.2	Min. 40 Min. 20
6	Tensile strength (N/mm ²) a. Parallel to grain b. Perpendicular to grain	42.5 31.7	Not specified

*As furnished by the customer.

- Note:**
1. The results relate only to the samples tested.
 2. Report shall not be reproduced, except in full, without the written approval of the lab.
 3. Any correction invalidates this report.

for CIVIL AID TECHNOCLINIC PVT. LTD.

Radhakrishna
22/5/15
Radhakrishna
Manager - Lab



Civil-Aid Technoclinic Pvt. Ltd.
(A Bureau Veritas Group Company)
43, 45, 46 & 47, Pete Chennappa Inds. Estate
Ground & 1st Floor, 1st Main, Magadi Road
Kamakshipalya, Bangalore - 560 079. India
Tel.: +91 80 23011800 Fax: +91 80 26716833

Regd. Off.: Marwah Centre, 6th Floor
K. Marwah Marg, Andheri (E), Mumbai - 72
Tel.: +91 22 66956300 Fax: +91 22 66956309
bangalore.lab@in.bureauveritas.com
www.civilaid.com
CIN: U28120MH1997PTC260040

Bangalore (Corp. Off) Tel.: +91 80 39950500
Chennai (Off/Lab) Tel.: +91 44 31924060
Cochin (Off/Lab) Tel.: +91 484 2108800
Hyderabad (Off) Tel.: +91 40 66824582
Hyderabad (Lab) Tel.: +91 40 64584582
Mangalore (Off/Lab) Tel.: +91 824 2213571