

**TEST REPORT ON SHUTTERING PLYWOOD SAMPLE**

Ref: STPL/JO – 315B – MAR /2019

Date: 28.03.2019

Test Order dated: 28.03.2019

M/s. SARKAR INDUSTRIES PVT. LTD.

Building # X/506, Rayamangalam Panchyat

Keezhillam, Perumbavoor - 683541

|                      |   |                                                                      |
|----------------------|---|----------------------------------------------------------------------|
| Source of sample     | : | Sample supplied by the customer                                      |
| Customer's Reference | : | Letter No: Email dated 12.03.2019                                    |
| Project#             | : | -                                                                    |
| Period of test       | : | 13.03.2019 to 27.03.2019                                             |
| Test Specimen Detail | : | <b>WBP – SARKAR FILM FACED PLYWOOD 12 mm ( 34kg)</b>                 |
| Condition of sample  | : | Satisfactory                                                         |
| Test Method          | : | IS:1734-1983 (Reaffirmed 2008) &<br>IS 4990 – 2011 (Reaffirmed 2017) |

| Sl No | Test conducted                                                                                                   | Results                             | Specification as per                |
|-------|------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
|       |                                                                                                                  |                                     | IS:4990 -1993 (Reaffirmed 2012)     |
| 1     | Measured Thickness (mm)                                                                                          | 11.58                               | --                                  |
| 2     | Density (kg/cu .m)                                                                                               | 1030                                | Not specified                       |
| 3     | Moisture Content (%)                                                                                             | 5.31                                | 5 to 15                             |
| 4     | <b>Glue Adhesion</b><br>a) Adhesion of plies<br>b) Glue Shear Strength (N)                                       | Excellent<br>4165                   | Min. pass standard<br>Minimum 1350  |
| 5     | Water Resistance<br>Submerged in Boiling Water for a period of<br>72 hr.as per cl. 10.1.3                        | <b>No delamination<br/>observed</b> | Delamination should not<br>occur    |
| 6     | <b>Tensile Strength<br/>( N/mm<sup>2</sup>)</b><br>a) Parallel to grain<br>b) Perpendicular to grain<br>c) Total | 72.40<br>43.21<br>115.61            | Min. 32.5<br>Min. 22.5<br>Min. 60.0 |
| 7     | <b>Static Bending Strength<br/>( N/mm<sup>2</sup>)</b><br>a. Parallel to grain<br>b. Perpendicular to grain      | 81.12<br>40.08                      | Minimum 50<br>Minimum 30            |

# As furnished by the customer

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

 for **STEDRANT TECHNOCLINIC PVT. LTD.**

*Radhakrishna*  
 28/3/19  
**RADHAKRISHNA**  
**MANAGER - LAB**

End of report



### TEST REPORT ON SHUTTERING PLYWOOD SAMPLE

Ref: STPL/JO – 315A – MAR /2019

Date: 28.03.2019

Test Order dated: 28.03.2019

M/s. SARKAR INDUSTRIES PVT. LTD.  
Building # X/506, Rayamangalam Panchyat  
Keezhillam, Perumbavoor - 683541

|                      |   |                                                                      |
|----------------------|---|----------------------------------------------------------------------|
| Source of sample     | : | Sample supplied by the customer                                      |
| Customer's Reference | : | Letter No: Email dated 12.03.2019                                    |
| Project#             | : | -                                                                    |
| Period of test       | : | 13.03.2019 to 27.03.2019                                             |
| Test Specimen Detail | : | <b>WBP – SARKAR FILM FACED PLYWOOD 12 mm ( 30kg)<br/>GRADE GM IV</b> |
| Condition of sample  | : | Satisfactory                                                         |
| Test Method          | : | IS:1734-1983 (Reaffirmed 2008)<br>IS 4990 – 2011 (Reaffirmed 2017)   |

| Sl No | Test conducted                                                                                                   | Results                             | Specification as per                |
|-------|------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
|       |                                                                                                                  |                                     | IS:4990 -1993<br>(Reaffirmed 2012)  |
| 1     | Measured Thickness (mm)                                                                                          | 11.40                               | --                                  |
| 2     | Density (kg/cu .m)                                                                                               | 864                                 | 500 – 900                           |
| 3     | Moisture Content (%)                                                                                             | 5.26                                | 5 to 15                             |
| 4     | <b>Glue Adhesion</b><br>a) Adhesion of plies<br>b) Glue Shear Strength (N)                                       | Excellent<br>4015                   | Min. pass standard<br>Minimum 1350  |
| 5     | <b>Water Resistance</b><br>Submerged in Boiling Water for a period of<br>72 hr.as per cl. 10.1.3                 | <b>No delamination<br/>observed</b> | Delamination should not<br>occur    |
| 6     | <b>Tensile Strength<br/>( N/mm<sup>2</sup>)</b><br>a) Parallel to grain<br>b) Perpendicular to grain<br>c) Total | 60.80<br>31.51<br>92.31             | Min. 32.5<br>Min. 22.5<br>Min. 60.0 |
| 7     | <b>Static Bending Strength<br/>( N/mm<sup>2</sup>)</b><br>a. Parallel to grain<br>b. Perpendicular to grain      | 78.04<br>38.60                      | Minimum 50<br>Minimum 30            |

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*(Signature)*  
28/3/19  
**RADHAKRISHNA**  
MANAGER - LAB

End of report



### TEST REPORT ON SHUTTERING PLYWOOD SAMPLE

Ref: STPL/JO – 315C – MAR /2019

Date: 28.03.2019

Test Order dated: 28.03.2019

M/s. SARKAR INDUSTRIES PVT. LTD.  
Building # X/506, Rayamangalam Panchyat  
Keezhillam, Perumbavoor - 683541

|                      |   |                                                                      |
|----------------------|---|----------------------------------------------------------------------|
| Source of sample     | : | Sample supplied by the customer                                      |
| Customer's Reference | : | Letter No: Email dated 12.03.2019                                    |
| Project#             | : | -                                                                    |
| Period of test       | : | 13.03.2019 to 27.03.2019                                             |
| Test Specimen Detail | : | <b>WBP – SARKAR FILM FACED PLYWOOD 18 mm ( 40kg)</b>                 |
| Condition of sample  | : | Satisfactory                                                         |
| Test Method          | : | IS:1734-1983 (Reaffirmed 2008) &<br>IS 4990 – 2011 (Reaffirmed 2017) |

| Sl No | Test conducted                                                                                                   | Results                             | Specification as per                |
|-------|------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
|       |                                                                                                                  |                                     | IS:4990 -1993<br>(Reaffirmed 2012)  |
| 1     | Measured Thickness (mm)                                                                                          | 17.10                               | --                                  |
| 2     | Density (kg/cu .m)                                                                                               | 872                                 | Not specified                       |
| 3     | Moisture Content (%)                                                                                             | 6.24                                | 5 to 15                             |
| 4     | <b>Glue Adhesion</b><br>a) Adhesion of plies<br>b) Glue Shear Strength (N)                                       | Excellent<br>3980                   | Min. pass standard<br>Minimum 1350  |
| 5     | Water Resistance<br>Submerged in Boiling Water for a period of<br>72 hr.as per cl. 10.1.3                        | <b>No delamination<br/>observed</b> | Delamination should not occur       |
| 6     | <b>Tensile Strength<br/>( N/mm<sup>2</sup>)</b><br>a) Parallel to grain<br>b) Perpendicular to grain<br>c) Total | 61.18<br>34.76<br>95.94             | Min. 32.5<br>Min. 22.5<br>Min. 60.0 |
| 7     | <b>Static Bending Strength<br/>( N/mm<sup>2</sup>)</b><br>a. Parallel to grain<br>b. Perpendicular to grain      | 64.23<br>37.45                      | Minimum 50<br>Minimum 30            |

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for **STEDRANT TECHNOCLINIC PVT. LTD.**

*Radhakrishna*  
28/3/19  
**RADHAKRISHNA**  
**MANAGER - LAB**

End of report

(Soil and Material Testing, Designs, Restoration and Non Destructive Testing Services)

**Corporate Office :** "Suvak Pride" # 95, Model House Street, Basavanagudi, Bangalore - 560 004. Ph : 080 26629992

**Hyderabad Office/Lab :** H.No.12-13-420, Street No.1, Tarnaka, Hyderabad-500017. Phone : 040 48537304 / 305



**TEST REPORT ON SHUTTERING PLYWOOD SAMPLE**

Ref: STPL/JO – 315D – MAR /2019  
Test Order dated: 28.03.2019

Date: 28.03.2019

M/s. SARKAR INDUSTRIES PVT. LTD.  
Building # X/506, Rayamangalam Panchyat  
Keezhillam, Perumbavoor - 683541

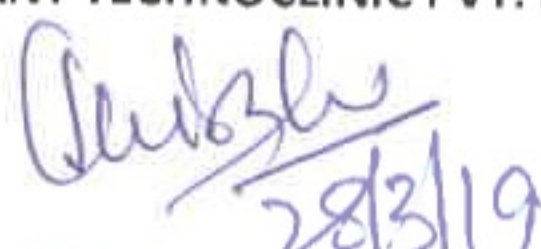
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|----------------------|---|--------------------------------------------------------------------|
| Source of sample     | : | Sample supplied by the customer                                    |
| Customer's Reference | : | Letter No: Email dated 12.03.2019                                  |
| Project#             | : | -                                                                  |
| Period of test       | : | 13.03.2019 to 27.03.2019                                           |
| Test Specimen Detail | : | <b>WBP – SARKAR FILM FACED PLYWOOD 18 mm ( 46kg)</b>               |
| Condition of sample  | : | Satisfactory                                                       |
| Test Method          | : | IS:1734-1983 (Reaffirmed 2008)<br>IS 4990 – 2011 (Reaffirmed 2017) |

| Sl No | Test conducted                                                                                               | Results                         | Specification as per                |
|-------|--------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------|
|       |                                                                                                              |                                 | IS:4990 -1993 (Reaffirmed 2012)     |
| 1     | Measured Thickness (mm)                                                                                      | 17.86                           | --                                  |
| 2     | Density (kg/cu .m)                                                                                           | 860                             | Not specified                       |
| 3     | Moisture Content (%)                                                                                         | 6.29                            | 5 to 15                             |
| 4     | <b>Glue Adhesion</b><br>a) Adhesion of plies<br>b) Glue Shear Strength (N)                                   | Excellent<br>3760               | Min. pass standard<br>Minimum 1350  |
| 5     | Water Resistance<br>Submerged in Boiling Water for a period of 72 hr.as per cl. 10.1.3                       | <b>No delamination observed</b> | Delamination should not occur       |
| 6     | <b>Tensile Strength ( N/mm<sup>2</sup>)</b><br>a) Parallel to grain<br>b) Perpendicular to grain<br>c) Total | 64.25<br>37.19<br>101.46        | Min. 32.5<br>Min. 22.5<br>Min. 60.0 |
| 7     | <b>Static Bending Strength ( N/mm<sup>2</sup>)</b><br>a. Parallel to grain<br>b. Perpendicular to grain      | 71.03<br>41.20                  | Minimum 50<br>Minimum 30            |

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for **STEDRANT TECHNOCLINIC PVT. LTD.**

  
28/3/19  
**RADHAKRISHNA**  
MANAGER - LAB

End of report



### TEST REPORT ON SHUTTERING PLYWOOD SAMPLE

Ref: STPL/JO – 315E – MAR /2019

Date: 28.03.2019

Test Order dated: 28.03.2019

M/s. SARKAR INDUSTRIES PVT. LTD.  
Building # X/506, Rayamangalam Panchyat  
Keezhillam, Perumbavoor - 683541

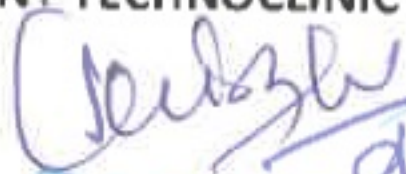
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|----------------------|---|----------------------------------------------------------------------|
| Source of sample     | : | Sample supplied by the customer                                      |
| Customer's Reference | : | Letter No: Email dated 12.03.2019                                    |
| Project#             | : | -                                                                    |
| Period of test       | : | 13.03.2019 to 27.03.2019                                             |
| Test Specimen Detail | : | <b>WBP – SARKAR FILM FACED PLYWOOD 18 mm ( 50kg)</b>                 |
| Condition of sample  | : | Satisfactory                                                         |
| Test Method          | : | IS:1734-1983 (Reaffirmed 2008) &<br>IS 4990 – 2011 (Reaffirmed 2017) |

| Sl No | Test conducted                                                                                                   | Results                             | Specification as per                |
|-------|------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
|       |                                                                                                                  |                                     | IS:4990 -1993<br>(Reaffirmed 2012)  |
| 1     | Measured Thickness (mm)                                                                                          | 18.14                               | --                                  |
| 2     | Density (kg/cu .m)                                                                                               | 920                                 | Not specified                       |
| 3     | Moisture Content (%)                                                                                             | 6.33                                | 5 to 15                             |
| 4     | <b>Glue Adhesion</b><br>a) Adhesion of plies<br>b) Glue Shear Strength (N)                                       | Excellent<br>4140                   | Min. pass standard<br>Minimum 1350  |
| 5     | Water Resistance<br>Submerged in Boiling Water for a period of<br>72 hr.as per cl. 10.1.3                        | <b>No delamination<br/>observed</b> | Delamination should not<br>occur    |
| 6     | <b>Tensile Strength<br/>( N/mm<sup>2</sup>)</b><br>a) Parallel to grain<br>b) Perpendicular to grain<br>c) Total | 58.92<br>36.28<br>95.20             | Min. 32.5<br>Min. 22.5<br>Min. 60.0 |
| 7     | <b>Static Bending Strength<br/>( N/mm<sup>2</sup>)</b><br>a. Parallel to grain<br>b. Perpendicular to grain      | 69.88<br>46.24                      | Minimum 50<br>Minimum 30            |

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28/3/19  
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End of report

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