



भारत सरकार Government of India  
राष्ट्रीय परीक्षण शाला (द.क्षे.)  
NATIONAL TEST HOUSE (SR)

तरमणी, चेन्नई - 600 113. Taramani, Chennai - 600 113.

Phone : 22432374, 22431157 Fax : 22433158 email : nthsr@tn.nic.in

परीक्षण प्रमाण पत्र  
TEST CERTIFICATE

INTERIM/FINAL REPORT

परीक्षण प्रमाण पत्र सं Test Certificate No NTH(SR)/CIV(G)/2019/00447C	जारी होने की तिथि Date of Issue 11/03/2019	कोड नं Code No 1550476225478	पृष्ठ Page 1	पृष्ठों की संख्या No of Pages 2
जिसे जारी करना है Issued To	SARVESH MULTI PLAST INDIA PVT LTD., ERODE			
पता Address	S.F.No.367/1, Kothampalayam, M.Pidariyur (P.O), Chennimalai-638051, Erode			
ग्राहक का संदर्भ सं एवं दिनांक Customer's Ref. No.	NIL		Date: 06/02/2019	
पंजिका सं एवं दिनांक Register No & Date	00447/NTH(SR)/CIV(G)/18/02/2019			
परीक्षण सामग्री का विवरण Description of Test Item	One sample described as "Sarvesh WPC Door & Frame-125mm" for both Interior & Exterior use			
परीक्षण सामग्री का पहचान Identification of Test Item	SARVESH-WPC door shutter Size (2025mmX805mmX32.5mm)and door frame thickness 125mm.			
नमूना का विशिष्टि (यदि हों) Product Specification (If any)	Nil			
नमूना प्राप्ति की तिथि Date of Receipt of the Test Item	18/02/2019			
कार्य सम्पादन की तिथि Date(s) of Performance of Tests	From: 18/02/2019		To: 08/03/2019	
व्यावहृत प्रणाली का पहचान Method(s) used for Test	On the lines of 4020(I)-1999.			
नमूना प्रक्रिया जहाँ प्रासंगिक हों Sampling Procedure where relevant	NA.			

Tested By

Bhooma Devi.S  
SO Mechanical

Checked By

S. Murali  
SO Civil

Approved By

G. N. Sudhakar  
Scientist- D (NDT)



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11/03/2019


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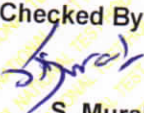
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Sl. No.	Test Name	Test Result	Limit
1	Tests	Please See Annexure.	NA
टिप्पणी Note	:	1.The requirements of Indian standard IS:2202(Part1)-1999 is provided and compared as per the request of customer. 2.No remarks could be offered,in the absence of standard specification for WPC Doors shutters and WPC door frames	
कैफियत Remarks	:	Nil	

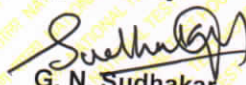
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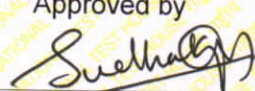
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As desired/requested by the customer, the sample "WPC door shutter with frame (125 mm thick)" was subjected to the following tests and compared the results with IS:2202(1)-1999 for Wooden Flush Door Shutters(Solid Core Type).

**Annexure****Results of tests****1. Construction**

The door was a Solid single leaf door shutter. The surface of the shutter was free from visible defects. The door shutter was flat, smooth. All the four edges of the door shutter are square. Suitable fittings were provided. The Shutter was provided with a door frame of having 124.7 mm thickness.

	Nature of Test	Results observed	Requirements as per IS:2202(part 1)-1999
1	<b>Dimension-Size and Type (mm)</b>		
1.1	Overall length of door shutter	2025	Vide cl.5.1 the sizes are as agreed between the manufacturer and purchaser
1.2	Overall width of door shutter	805	
1.3	Overall thickness of door shutter	32.5	
1.4	Variation in thickness	0.42	
2	<b>Test for Squareness (as per IS:4020(2)-1998)</b>		
2.1	Deviation from squareness, mm	0.65	Shall be not more than 4mm

Tested by  S. Bhooma devi Scientific Officer(Mechanical)	Checked by  S. Murali Scientific Officer(Civil)	Approved by  G. N. Sudhakar Scientist D(NDT)
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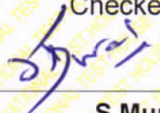
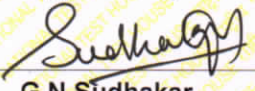
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<b>3</b>	<b>Test for General Flatness (as per IS:4020(3)-1998</b>		
3.1	Twist, mm	3.02	Shall be not more than 6mm
3.2	Warping, mm	1.20	Shall be not more than 6mm
3.3	Cupping, mm	0.20	Shall be not more than 6mm
<b>4</b>	<b>Test for Local Planeness (as per IS:4020(4)-1998</b>		
4.1	Average local planeness,of door shutter, mm	0.05	Shall be not more than 0.5mm
4.2	Average local planeness,of door frame, mm	0.08	Limit not applicable.
<b>5</b>	<b>Specific Gravity(as per IS:1708-1986)</b>		
	Average specific gravity,-door shutter	0.77	Limit not available.
<b>6</b>	<b>Test for Impact indentation (as per IS:4020(5)-1998</b>		
6.1	Average impact depth of indentation, door shutter mm	Observed free from defects. 0.09	Shall be free-from defects such as cracking, tearing or delamination & depth of indentation shall be not more than 0.2mm.
6.2	Average impact depth of indentation, door frame mm	0.13	Limit not applicable.

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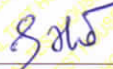
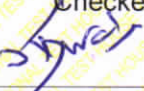
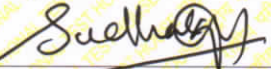
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## 7. Test for Slamming (as per IS:4020(10)-1998)

7.1	The door shutter was inspected for visible damage after 50 slammings.	No visible damage observed on the surface of the door. Satisfactory.	Shall be no visible damage on the surface of the shutter
8	Test for Edge Loading (as per IS:4020-(Part 7):1998)		
8.1	Deflection after 15min with load, mm	1.3	Shall not more than 5 mm
8.2	Residual deflection at 3min. after removal of load, mm	0.41	Shall not more than 0.5 mm
9	Test for Buckling (as per IS:4020-(Part 9):1998)		
9.1	Deformation after 5 min. with load, mm	16.38	Shall not be more than 50 mm
9.2	Residual deformation at 15 min. after removal of load, mm	2.25	Shall not be more than 5 mm
10	Test for Shock Resistance-on face direction only (as per IS:4020-(Part 8):1998)		
10.1	Soft & light body impact of 25 times	No deformation observed on the door surface	There shall be no visible damage in any part of the door after the test.
10.2	Soft & heavy body impact of 5	No deformation	There shall be no visible damage

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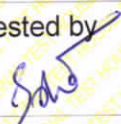
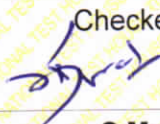
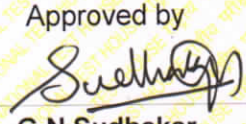
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	times	observed on the door surface	in any part of the door after the test.
<b>11</b>	<b>Test for Misuse(as per IS:4020-(Part 11):1998</b>		
	Subjected the door with conventional hinges provided to a force of 20kgf on the handle/ equivalent position in the direction of closing and at right angles to plane of the frame of shutter	No Deformation observed on the frame and the door set hindering, its normal working after the test. Satisfactory.	Shall not be any permanent deformation of fixing or any other part of the doorset hindering, its normal working after the test.
<b>12</b>	<b>Screw Withdrawal Resistance Test (as per IS:4020-(Part 16):1998)</b>		
12.1	Average Load required to withdraw the screw from the door shutter -N		
12.1.1	Direction-Across	1587	Shall not be less than 1000N
12.1.2	Direction-Edge	1242	
12.2	Average Load required to withdraw the screw from the door frame -N		
12.2.1	Direction-Across	1161	Limit not applicable.
12.2.2	Direction-Edge	495	

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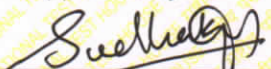
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13	Charpy Impact(as per 13360(5):1996)		
13.1	Charpy Impact strength, tested on Unnotched Normal Flatwise specimen with span 95mm, kJ/m <sup>2</sup>	19.6	Limit not available.

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