

PSGSG-77	<b>Product Specifications For Water Proof Plywood</b>	Drg. No.	
		Date	01.04.16
		Product	<b>GSM 420</b>
<b>1.0</b>	<b>Application</b>	: For sea worthy packing	
<b>2.0</b>	<b>Configuration</b>	: Standard size of manufacture	
<b>3.0</b>	<b>Thickness</b>	: 18 – 19 mm	
<b>4.0</b>	<b>Size</b>	: 2.44 x 1.22 M (8' x 4') : 1.84 x 0.92 M (6' x 3')	
<b>5.0</b>	<b>Specifications:</b>		
<b>5.1</b>	Manufactured from high quality veneers peeled from carefully selected durable hardwood of uniform thickness.		
<b>5.2</b>	Every sheet, layer by layer given preservative treatment (with copper chrome boric preservative and chloropyriphos 1% in glue line), to prevent wood rot or decay and to withstand all types of wood destroying organisms, viz., termites, white ants, fungus and other micro-organisms – by soaking, diffusion or impregnation of the individual veneers before gluing, with water borne chemicals – not just chemical dipped finally.		
<b>5.3</b>	Each piece of veneer be of inherent rigid construction with phenol formaldehyde resorcinol resin and pressed at about 16 kg/cm <sup>2</sup> at 150 oC, surfaced with phenol resign impregnated cotton fabric with or without special pattern to give non-slip surface and rendered highly resistant to Weather, Micro organism, cold and boiling water, steam and dry heat.		
<b>5.4</b>	The products to be weather and boil proof bonded and vacuum impregnated. They should confirm to Indian Standard specification No. IS 710-1976.		
<b>5.5</b>	The plywood to be boiling water proof (BWP) for at least 72 hours.		
<b>5.6</b>	Stress relieving treatment like tenderisation and tropicalization, to be given at every stage of manufacturing process to make the product warp-free and dimensionally stable.		
<b>5.7</b>	To use matured and selected 100% GURJAN single species wood that ensures uniformity; their high density, to ensure tensile strength and toughness to take huge loads.		
1/2	<b>MMR_17.doc</b>		<b>Signature</b>

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<p><b>5.8</b></p> <p><b>5.9</b></p> <p><b>5.10</b></p> <p><b>6.0</b></p>	<p><b>Characteristics of Plywood:</b></p> <ul style="list-style-type: none"> <li>• Moisture content (%) 8-12</li> <li>• Glue shear strength (kg) &gt;140</li> <li>• Water Resistant Test (kg) &gt;120 (tested after 72 hours boiling)</li> <li>• Mycological Test (kg) &gt;130</li> <li>• Adhesion of piles Excellent</li> <li>• Preservative Treatment (kg/m<sup>2</sup>) &gt;12</li> <li>• Tensile strength (kg/m<sup>2</sup>) <ul style="list-style-type: none"> <li>Parallel to face &gt; 600</li> <li>Perpendicular to face &gt; 300</li> </ul> </li> <li>• Bending strength &gt; 400 kg/sq. cm</li> <li>• Specific gravity around 0.75</li> <li>• Water absorption &lt;1% (Swelling in cold water at room temp.: appr. 1%)</li> <li>• Screw holding strength normal to face &gt; 250 kg.</li> <li>• Nail holding strength normal to face &gt; 60 kg.</li> </ul> <p><b>Salient Features:</b></p> <ul style="list-style-type: none"> <li>• Microbial decay-resistant</li> <li>• Un-extended glue</li> <li>• Thicker face</li> <li>• Withstands heavy impacts of tossing and turning in sea / air</li> <li>• Withstands alternate wetting and drying</li> <li>• General: The finished laminate should not have any bend and the outer surface should be free from dents/visible surface defects. Perpendicularity of the flat surface (base) shall be maintained at +/-0.1.</li> </ul> <p>Distinct proof of originality such as stripes which are an integrated part of the ply wood and not just pasted on top and not using a sticker or stamped seal of originality.</p> <p><b>Tests:</b></p> <p>Test certificate should be furnished along with the supply.</p>		
2/2	MMR_17.doc		<b>Signature</b>