

**To the attention of Alexey Borisovich  
Stepanov**

**Ref : 22-0233 (rev.1)**

Saint-Rémy-les-Chevreuse, January 4<sup>th</sup> 2023

**APPROVAL of PLYWOOD**

Approval Report(s): MAT-RPT-003110 (rev.1); MAT-RPT-003111 (rev.1) & MAT-RPT-003112 (rev.1); MAT-RPT-003113 (rev.1); MAT-RPT-003114 (rev.1); MAT-RPT-003115 (rev.1); MAT-RPT-003116 (rev.1); MAT-RPT-003151 (rev.1) & MAT-RPT-003312 (rev.1).

Approval File : AF3010H15 (rev.2)

On the basis of the results of tests as compiled in the referenced Approval Report(s), it is confirmed that birch plywood of thicknesses 9, 12, 15, 18, 24, 27, 35 & 92 mm comply with the technical requirements of M3010 (rev. 3) and is approved by GTT for use in the construction of LG (Liquified Gas) cargo containment systems according to MARKIII design(s).

This plywood product, fabricated by VYATKA PLYWOOD MILL, is to be produced according to a dedicated quality control & production plan. It is to be used as a material component in the manufacture of insulation panels.

Assurance of the quality and conformity of the delivered product, is to be preserved by VYATKA PLYWOOD MILL in accordance with GTT's M 3000.

Any modification to the fabrication procedure or material characteristics shall be submitted to GAZTRANSPORT & TECHNIGAZ for validation prior to acceptance. Complementary tests shall be requested before revalidation of the approval.

*Remaud*

Nathalie REMAUD  
Supplier Development & Quality Manager



# Certificate of General Approval for LNG Containment System Component

This certificate is issued to the company below to certify that the undernoted LNG system components has been examined for conformity with Lloyd's Register's "Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk", together with the relevant Gaz Transport & Technigaz (GTT) specifications and have been found to be acceptable.

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|--------------------------------|---|
| <b>Manufacturer</b>            | <b>Vyatsky plywood mill LLC</b>   |
| <b>Address</b>                 | Kirov region, Kirov, Kommuni street, Kirov, 610013, Russian Federation  |
| <b>Product Name</b>            | <b>Birch Plywood - 12 &amp; 18 mm Type A; 9 &amp; 15 mm Type B; 24, 27, 35 &amp; 92 mm Type C; and 12 mm Type D</b>   |
| <b>Product Type</b>            | Plywood   |
| <b>Approval Documentation</b>  | <ul style="list-style-type: none"><li>• 9 mm Type B Plywood test report MAT-RPT-003312 R02, dated 26 Oct 2022</li><li>• 12 mm Type A Plywood test report MAT-RPT-003151 R01, dated 11 Feb 2022</li><li>• 12 mm Type D Plywood test report MAT-RPT-003110 R01, dated 11 Feb 2022</li><li>• 15 mm Type B Plywood test report MAT-RPT-003111 R01, dated 11 Feb 2022</li><li>• 18 mm Type A Plywood test report MAT-RPT-003112 R01, dated 11 Feb 2022</li><li>• 24 mm Type C Plywood test report MAT-RPT-003113 R01, dated 01 Mar 2022</li><li>• 27 mm Type C Plywood test report MAT-RPT-003114 R01, dated 01 Mar 2022</li><li>• 35 mm Type C Plywood test report MAT-RPT-003115 R01, dated 01 Mar 2022</li><li>• 92 mm Type C Plywood test report MAT-RPT-003116 R01, dated 01 Mar 2022</li><li>• LR's Visit report No. SPB2111060, dated 15 Aug 2021</li></ul> |
| <b>Reference Documentation</b> | Plywood<br>GTT Specification No. M3010, Rev. 3 (March 2015)   |
| <b>Application</b>             | The products listed above may be used as indicated on approved drawings for vessels classed with Lloyd's Register in GTT Mark III membrane LNG containment system. If either the GTT reference documentation mentioned above is altered to a later version, or if the product listed above changes in design or composition, this certificate becomes invalid.  |

**Dariusz Boryszewski**

Containment Systems Lead Specialist to  
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