



Confirmation of Product Type Approval

Company Name: AYRES COMPOSITE PANELS USA LLC

Address: 5460 BUSINESS PARKWAY THEODORE AL 36582 United States

Product: Panel, Aluminum Honeycomb with decorative laminates

Model(s): AYRLITE 2054 Decorative Faced Aluminum Honeycomb Panel

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2472027-PDA	22-NOV-2023	21-NOV-2028
Manufacturing Assessment (MA)	19-M4022114	02-DEC-2019	21-DEC-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine Applications - C Class Panels for Interior Finishing.

Description

AYRLITE 2054 is an aluminum honeycomb panel with decorative laminate faces reinforced with aluminum sheets.

The decorative laminate is a maximum 0.4mm (0.016") thick on one or both sides of panel. Decorative faces are reinforced with a minimum of 0.3mm (0.012") of aluminum sheet. Thicker reinforcements are available as required. 0.5mm (0.020") is the standard reinforcement thickness. Aluminum reinforcement sheets can be selected with different thicknesses on different face. Aluminum reinforcement sheets are of 5000 series alloy. The honeycomb of the panel is a maximum 50.8mm (2.00") thick.

Ratings

- Aluminum Honeycomb Core meets Part 1 (Noncombustible) of the IMO FTP Code.

- Panel with decorative laminate faces meets Part 2 (Smoke and Toxicity) and Part 5 (Low Flame Spread) of the IMO FTP Code.

Service Restrictions

Unit Certification is not required for this product. This approval is only valid for panels manufactured by a plant under ABS Manufacturing Assessment.

Comments

1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this

product.

2) Continuous compliance with statutory requirements is a condition of type approval. The scope of type approval is required to comply with MSC/Circ.1221 dated 11th December 2006

3) Unless specially directed by Administration, this approval is not to be construed as a substitute for Flag Administration's approval for the purpose of SOLAS (Consolidated Edition 2020), as amended. This assessment has not been performed on behalf of any flag Administration.

4) Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as per tested/approved prototype.

5) This certificate may not be used for EU and US flagged vessels (MED and/or USCG have their own specific requirements).

Notes, Drawings and Documentation

Drawing No. 11-07-2023, Reference, Declaration of Conformity, Revision: -, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 21/Nov/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

ABS Rules for Conditions of Classification, Marine Vessel Rules (2023): 1-1-4/7.7, 1-1-A3, 1-1-A4.

ABS Rules for Building and Classing, ABS Marine Vessel Rules (2023): 3-4-1.

ABS Rules for Conditions of Classification, Light and High-Speed Craft (2023): 1-1-4.11.9, 1-1-A2, 1-1-A3.

ABS Rules for Building and Classing, High Speed Craft Rules (2023): 3-4-1/1.

ABS Rules for Building and Classing, Light Warships, Patrol and High-Speed Naval Vessels (2023): 3-4-1/1.1.

ABS Rules for Conditions of Classification, Offshore Units and Structures (2023): 1-1-4/9.7, 1-1-A2, 1-1-A3.

ABS Rules for Building and Classing, Mobile Offshore Units (2023): 5-1-1/3.5, 5-1-1/5.15, and 5-1-1/5.17.

International Standards

2010 IMO FTP Code adopted on 3 December 2010 - Annex 1: Part 1 (Non-combustibility); Part 2 (Smoke and Toxicity); and Part 5 (Surface Flammability)

SOLAS (Consolidated Edition 2020), as amended, II-2 Reg. 3.10 and MSC/Circ.1120 Construction of C-Class Bulkheads

EU-MED Standards

NA

National Standards

NA

Government Standards

USCG Certificate of Approval 164.112/102/0 for AYRLITE 2054 Decorative Laminate faced Aluminum Honeycomb Panel Issued 5 May 2023; Expires 5 May 2028.

Transport Canada:

TP 14612E Procedures for Approval of Life-Saving Appliances and Fire Safety Systems, Equipment and Products Vessel Fire Safety Regulations SOR/2017-14

Other Standards

NA



A handwritten signature in black ink, appearing to read 'James W. ...', is positioned above the printed text.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 27-Nov-2023 11:38

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.