



## Confirmation of Product Type Approval

**Company Name:** AYRES COMPOSITE PANELS USA LLC

**Address:** 5460 BUSINESS PARKWAY, THEODORE, AL, United States, 36582

**Product:** Panel, Aluminum Honeycomb

**Model(s):** AYRLITE 2071 Acoustic Honeycomb Panel

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	17-HS1659301-1-PDA	10-MAY-2019	28-MAY-2023
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 Bulkheads, Linings, and Interior Surface Finishes.

**Description**

AYRLITE 2071 is an aluminum honeycomb panel with aluminum sheets. One or both sides of the panel are faced with a perforated aluminum sheet. The Aluminum sheets have mill finish.

**Ratings**

- The commercial grade aluminum honeycomb is approved as meeting Part 1 of Annex 1 of the IMO FTP Code (Non-Combustible) by the USCG (Approval Number 164.109/57/0).

- The adhesive film is approved as meeting Part 2 (Smoke and Toxicity) and Part 5 (Low Flame Spread) of Annex 1 of the 2010 IMO FTP Code.

**Service Restrictions**

- Unit Certification is not required for this product.

- If the aluminum sheets are coated or painted or if a surface finish is applied to the aluminum sheets, then the paints and surface finish should be type approved in accordance with the applicable statutory regulations.

**Comments**

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

- 2) If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- 3) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.
- 4) 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 2014), as amended. Approval not performed on behalf of any flag Administration.
- 5) 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.
- 6) 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**

USCG Certificate of Approval 164.109/57/0 for Commercial Grade Aluminum Honeycomb [Part 1 of the IMO FTP Code]

RISE SP Report 7P09320 dated 14 February 2018 for Adhesive Film [Parts 2 and 5 of the IMO FTO Code]

SwRI Test Report Project No. 01.20689.15.607 dated June 30, 2015 for Ayrlite 2071 Honeycomb Panels [Parts 2 and 5 of the IMO FTP Code]

AYRLITE-2071 Datasheet-US

### **Term of Validity**

This Product Design Assessment (PDA) Certificate 17-HS1659301-1-PDA, dated 10/May/2019 remains valid until 28/May/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

### **ABS Rules**

ABS Rules for Conditions of Classification 2019, Part 1, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2019 ABS Steel Vessel Rules 3-4-1

2019 ABS Marine Vessels Rules 3-4-1

ABS Rules for Conditions of Classification 2019, Part 1, High-Speed Craft, 1-1-4.11.9, 1-1-A2, 1-1-A3, which covers the following:

2019 ABS High Speed Craft Rules 3-4-1/1

2019 ABS High Speed Naval Craft Rules 3-4-1/1.1

ABS Rules for Conditions of Classification, Part 1 – 2019 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2019 ABS Mobile Offshore Drilling Units Rules 5-1-1/5.15 and 5.17

2019 ABS Mobile Offshore Units 5-1-1/5.15 and 5.17

**International Standards**

2010 IMO FTP Code, Annex 1, Parts 2 and 5 for smoke and toxicity and low flame spread (surface flammability) (adopted on 3 December 2010)

SOLAS (Consolidated Edition 2014), 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 164.109/54/1 for AYRLITE 2022 Aluminum faced Aluminum Honeycomb Panel and AYRLITE 2071 Acoustic Honeycomb Panel (expires 5 May 2023);

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 blue ink, appearing to read 'James J. White'.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 17-May-2021 12:14

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.