

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Class C Division**with type designation(s)
AYRLITE 2071

Issued to

**Ayres Composite Panels
Bayswater WA, Australia**

is found to comply with

DNV GL offshore standards**DNV GL rules for classification – Ships****DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations****Application :****Approved for use as a class C division and a non-combustible bulkhead. The panel surface is approved as a low flame spread material, not generating excessive quantities of smoke nor toxic products in fire.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2022-02-20**.Issued at **Høvik** on **2017-02-21**DNV GL local station: **Fremantle**Approval Engineer: **Tessa Bieber**for **DNV GL**

Digitally Signed By: Hoff, Øyvind

Location: DNV GL Høvik, Norway

Signing Date: 23.02.2017, on behalf of

**Petter Langnes
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

"AYRLITE 2071"

panel comprising of a non-combustible aluminium honeycomb core with cell diameter from 6.35mm to 12.7mm faced with aluminium sheets of minimum 0.3mm thickness. One or both sides microperforated with a maximum hole diameter of 0.8mm. Optional powder coating (0,55µm) to one or both sides.

Min. overall panel thickness: 6 mm

Application/Limitation

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

Any adhesive used other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5.

Any surface materials used have to be approved for smoke and toxicity and low flame characteristic (IMO 2010 FTP Code parts 2 and 5) when required according to relevant rules.

The panels may be regarded as C-class division (Ref. SOLAS II-2 Reg. 3.10 and IMO MSC/Circ. 1120).

Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2015.

Test report nos. :

- 5P07468-1 rev.3 dated 31st of October 2016
- PX13977-1 dated 14 September 2011
- PX18750-2 dated 14 March 2012
- PX18750-4 dated 14 March 2012

All from SP, Sweden.

Technical assessment report No. 5P07468-3 dated 31st of October 2016 from SP, Sweden.

Tests carried out

The aluminium honeycomb core is tested according to IMO FTPC Part 1 and found in compliance with IMO 2010 FTP Code Ch. 8.

2011/2012 tests: Tested according to IMO FTPC Part 5 and Annex 2.2 and found in compliance with IMO 2010 FTP Code Ch. 8.

2016 test: Tested according to IMO 2010 FTP Code Part 5 and Annex 2 item 2.2 and 2.3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

Periodical assessment



Job Id: **262.1-013328-2**
Certificate No: **TAF00000J1**

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.

SPECIMEN