



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-20085

This is to certify that the  
**Class C Division**

with type designation(s)  
**AYRLITE 2054**

Manufactured by  
**Ayres Composite Panels**  
**Bayswater WA, Australia**


is found to comply with  
Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended  
Det Norske Veritas' Offshore Standards  
Det Norske Veritas' Rules for Classification of Ships

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.**

Høvik, 2012-07-02  
for Det Norske Veritas AS

This Certificate is valid until  
**2016-12-31**

  
for **Petter Langes**  
**Head of Section**

DNV local office:  
**Fremantle**

  
**Piotr Orzechowski**  
**Surveyor**



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.  
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Certificate No.: F-20085  
File No.: 471.83  
Job Id.: 262.1-002119-5

### Product description

"Ayr-lite 2054"

panel comprising of a non-combustible aluminium honeycomb core (6.35 mm cell diameter) bonded on both sides with aluminium sheets (minimum thickness 0.3 mm), and the front or both sides finished with decorative HPL laminates (maximum thickness 0.4 mm).

Minimum overall panel thickness is 6 mm.

### Application/Limitation

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics and low emission of smoke and toxic gases according to IMO FTP Code Parts 2 and 5.

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

### Type Approval documentation

Certification in accordance with Standard for Certification No. 1.2, Type Approval, April 2009.

Test Report No. PX13977 dated 14 September 2011 from SP, Sweden.

Test Report No. PX18750 and PX18750-1 both dated 13 March 2012 from SP, Sweden.

Test Report No. PX18750-2 dated 14 March 2012 from SP, Sweden.

Retention Type Approval survey report dated 11 May 2012 from DNV Fremantle.

### Tests carried out

Tested according to IMO FTPC Part 2 and 5 and found in compliance with IMO 2010 FTP Code Ch. 8.

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

### Marking of product

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

### Certificate Retention Survey

Det Norske Veritas' surveyor is to be given permission to perform Certification Retention Surveys at any time during the validity period of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Standard for Certification No. 1.2 item 4.

