

# CERTIFIED COPY

## CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer

Armacell UK Limited

Address

Mars Street

Oldham

Lancashire, OL9 6LY United Kingdom (UK)

Type

Material Having Low Flame Spread Characteristics

Description

Fire Resisting Material - Type: "ARMAFLEX CLASS 0" insulation

Specified Standard

IMO Resolution A.653(16)

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue

27 August 2009

Expiry date

26 August 2014

Certificate No.

SAS F090229

Signed

Lioyd Register FAEA Lloyd's Longer Office Register.

Sheet No

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Name

M. Farrier

Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

#### Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."



### Lloyd's Register EMEA

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#### **DESIGN APPRAISAL DOCUMENT**

Date	Quote this reference on all future communications
27 August 2009	LDSS/TA/FITA/MF

#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F090229

This Design Appraisal Document forms part of the Certificate.

#### APPROVAL DOCUMENTATION

Warrington Fire Research Centre Ltd., Warrington, United Kingdom, Test Reports WARRES No. 131095 and 130038, both dated 18 August 2003.

#### **CONDITIONS OF CERTIFICATION**

- 1. System consists of: 'Armaflex Class 0', a flexible closed cell elastomeric based insulation of overall thickness from 19mm to 25mm and density of 55 kg/m³ to 65 kg/m³.
- 2. Restricted to applications for insulation of pipework in refrigeration systems and chilled water piping for air conditioning systems. May also be used in cargo spaces, mail rooms, baggage rooms and refrigerated compartments of service spaces.
- 3. Smoke and toxicity requirements to be considered at the design stage.
- 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 the approved prototype.

#### PLACE OF PRODUCTION

Armacell UK Limited Mars Street Oldham Lancashire, OL9 6LY United Kingdom Armacell GmbH Robert-Bosch-Strasse 10 D – 48153 Muenster Germany



M. Farrier Lead Specialist Statutory Fire & Safety London Design Support Services Lloyd's Register EMEA

#### Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).