



Lloyd's  
Register

## 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.

<b>Manufacturer</b>	Artech Rubber B.V.
<b>Address</b>	Ijslandsestraat 8 - 12 NL-7202 CL Zutphen The Netherlands
<b>Type</b>	<b>PIPE PENETRATION (STANDARD FIRE TEST)</b>
<b>Description</b>	Pipe Penetration - Type: "PSI FS Sealing Plugs", for applications in steel divisions
<b>Specified Standard</b>	IMO Res.MSC.61(67)-(FTP Code), Annex 1 Part 3 IMO MSC/Circ.1120

**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	12 October 2016	Expiry date	11 October 2021
Certificate No.	SAS F160208	Signed	
Sheet No	1 of 2	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 Group Limited, 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'. Lloyd's Register 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 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.



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## Lloyd's Register EMEA

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Document number

SAS F160208

Issue number

1

### DESIGN APPRAISAL DOCUMENT

Date

21 July 2016

Quote this reference on all future communications

SOUTSO/SFS/TA/MF/WP25441770

#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F160208

This Design Appraisal Document forms part of the Certificate.

#### APPROVAL DOCUMENTATION

Netherlands Organisation for Applied Scientific Research (TNO), Delft, Netherlands, Fire Test Report Nos. 2004-CVB-R0273 and 2004-CVB-R0274 both dated October 2004.

#### CONDITIONS OF CERTIFICATION

1. When used in conjunction with A-60 divisions with approved installation arrangements
2. For applications in A-0, A-15 and A-30 steel bulkheads and decks, an additional A-60 insulation collar should be fitted on both sides of bulkheads and on the underside of the deck, for a minimum distance of 200mm around the penetrations and insulation should be extended to fully cover the side(s) and face(s) of the penetrations, with a minimum overlap of 50mm from the steel frame edges
3. Consisting of: a 300mm long steel coaming welded symmetrically in a division with a PSI FS seal installed at each end around the penetrating steel pipe. The pipe and coaming are A-60 insulated for nominally 650mm on each side of the division
4. Steel pipe size range: 10mm to 168mm outside diameter
5. Steel coaming size range: 42mm to 273mm outside diameter
6. 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

Artech Rubber B.V.  
Ijslandsestraat 8 - 12  
NL-7202 CL Zutphen  
The Netherlands



Martin Farrier  
Lead Specialist  
Statutory Fire & Safety  
Southampton Technical Support Office, Marine & Offshore  
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).*