

Certificate Of Fire Approval

This is to certify that the product(s) detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations for use on offshore units classed with Lloyd's Register, and for use on offshore units and onshore facilities when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

| | |
|---------------------------|--|
| Manufacturer | Roxtec International AB |
| Address | Box 540, S-371 23, Karlskrona, Sweden |
| Type | Cable Penetration (Standard Fire Test) |
| Description | Multi Cable Penetration Types: SK-8+8x1 (single transit) and SBTB-8+8x1 (double transit) |
| Trade Name | SK-8+8x1 (single transit) and SBTB-8+8x1 (double transit) |
| Specified Standard | Health and Safety Executive, Offshore Technology Report – OTI 95 634 “Jet Fire Resistance Test of Passive Fire Protection Materials” |

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 North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

1330 Enclave Parkway, Houston, Texas, 77077,
United States

Bruce McDonald

Fire & Safety Lead Specialist to Lloyd's
Register North America, Inc.
A member of the Lloyd's Register group

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 '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.

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2082357SF

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.
This Design Appraisal Document forms part of the Certificate.

This certificate is a renewal of certificate number: SAS F160138

TEST REPORTS

SINTEF Energy, Norwegian Fire Research Laboratory, Trondheim, Norway Test Report No. 846031.02 dated 4 November 1997.

SP Fire Research AS, Trondheim, Norway; Assessment Report No: SPFR Report F15 20119-1 Issue 1 dated 29 January 2015

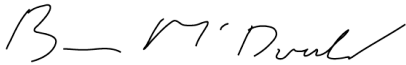
CONDITIONS OF CERTIFICATION

1. When used in conjunction with suitably insulated divisions:
Single barrier transit, the rear face (unexposed to a fire) of the elastomeric blocks is uninsulated
Double barrier transit, the face unexposed to a fire is completely insulated
2. Application in each case to be approved by Lloyd's Register at the design stage
3. Single barrier transit is located in 10 mm thick steel recess which is of the same width and height as penetration seal but the transit front face which is exposed to the fire is set back a minimum of 340 mm from the fire side
4. Double barrier transit is to include a minimum air gap of 180mm between the inner barrier faces
5. Frame types SOBTB, SFBTB, SFOBTB and SRBTB also accepted as well as frame types SK (single transit) and SBTB (double transit), in sizes 1-8 and combinations of up to a maximum equivalent size of 580mm high x 130mm wide x 300mm deep
6. May be used with cables similar to the sizes tested and steel pipes up to 20mm maximum outside diameter
7. 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
8. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties
9. The test laboratory is solely responsible for all tests performed within the scope of this certificate and to ensure that the testing is conducted in full compliance with the relevant test standard, approved operational procedures, statutory regulations and Lloyd's Register requirements as applicable and to meet client objectives as per contractual agreements

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2082357SF

PLACE OF PRODUCTION

Roxtec International AB
Box 540
S-371 23 Karlskrona
Sweden



Bruce McDonald
TSC Manager - Americas, Marine
Lloyd's Register Americas
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).