

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 installations classed with Lloyd's Register, and for use on offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Hilti AG
Address	Feldkircherstr. 100 Postfach 333 Schaan, FL-9494 Liechtenstein
Type	CABLE PENETRATION (STANDARD FIRE TEST)
Description	Fire Resisting Multi-Cable Circular Transits - Type: " Hilti Modular Cable Transit System- RR 50 to 200 ", For restricted applications in H Class steel divisions
Specified Standard	(UK) Department of Energy hydrocarbon time/temperature relationship and IMO Resolution A.754 (18) Performance Criteria

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	6 February 2018	Expiry date	5 February 2023
Certificate No.	SAS F180033	Signed	 <small>Lloyd's Register EMEA</small>
Sheet No	1 of 3	Name	S. A. Abraham 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.

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Lloyd's Register EMEA

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email tass@lr.org

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DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
26 January 2018	SOUTSO/SFS/TA/SA/WP31590744

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180033

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Exova Warringtonfire, Warrington, United Kingdom; Fire Test Report Nos. 308455, Issue 2 and 309112, Issue 2, both dated 12 October 2011.

CONDITIONS OF CERTIFICATION

1. For use in H-120 Class steel bulkheads that are insulated on the fire exposed with at least one layer of (50mm thick, 128Kg/m³) 'FireMaster 607 blanket' and on the fire unexposed side with two layers of (50mm thick, 128Kg/m³) 'FireMaster 607 blanket' or equivalent insulation (restricted applications). An additional layer of (50mm thick, 128Kg/m³) 'FireMaster 607 blanket' should be fitted for a minimum distance of 350mm around the penetration on the fire unexposed side and insulation should be extended to fully cover the end faces and sides of the steel frame
2. For use in H-120 Class steel decks that are insulated on the fire exposed side (underside) with two layers of (50mm thick, 128Kg/m³) "FireMaster 607 blanket" or equivalent
3. For applications in H-0, H-60 Class steel bulkheads and decks, an additional H-120 Class insulation collar should be fitted for a minimum distance of 450mm around the penetration, on all fire risk sides of bulkheads and on the fire exposed side (underside) of the decks and insulation should be extended to cover the full side(s) and the face(s) of the steel coaming/frame, with an overlap of 50mm from the steel edges
4. Penetrations are to be fitted to the fire unexposed side of steel bulkheads and fire unexposed side (topside) of steel decks in all cases
5. Consisting of: Circular steel frames type: 'SL/SLF', filled with type: 'RR 50-200 GS' intumescent elastomeric modules around cables and welded or bolted to the steel division
6. Frame Sizes: 157mm diameter x 60mm deep x 8mm thick up to 319mm diameter x 70mm deep x 8mm thick
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

PLACE OF PRODUCTION

Hilti AG,
Feldkircherstr. 100,
Postfach 333,
Schaan, FL-9494,
Liechtenstein



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Saji Abraham
Surveyor
Statutory Fire & Safety
London Design Support Office
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).