



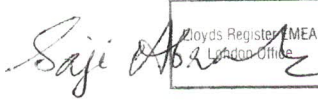

CERTIFICATE OF FIRE APPROVAL

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	Bestobell Oilfield Products
Address	Ashby Road Shepshed Loughborough Leicestershire, LE12 9EQ United Kingdom (UK)
Type	H-0 MODULE JOINT SEAL (HYDROCARBON FIRE TEST)
Equipment Description	Fire Resisting Module Joint Seal - Type: "Bestobell Single or Double Layer Fireflex Strip Seal"
Specified Standard	UK Department of Energy hydrocarbon time/temperature relationship and the IMO Resolution A.517 (13) 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	22 September 2009	Expiry date	21 September 2014
Certificate No.	SAS F090351	Signed	 
Sheet No	1 of 2	Name	S. 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.

"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."

DESIGN APPRAISAL DOCUMENT

Date 18 November 2009	Quote this reference on all future communications LDSS/TA/SFS/MF
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F090351

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

The Loss Prevention Council (LPC), Borehamwood, United Kingdom, Test Report No. TE83996, dated 12 November 1993.

CONDITIONS OF CERTIFICATION

1. When used in conjunction with an 'H-0' Class Steel Bulkhead. (With no temperature criteria).
2. Maximum seal width: 1000 mm (920mm clear opening) consisting of either a single or double layer "Fireflex" multilayer seal, comprised of layers of woven ceramic cloth reinforced with stainless steel wire, ceramic felt, nickel foil, aluminium foil and glass cloth.
3. Single Layer Seal consists of: single layer of "Fireflex" seal retained by steel flats 40mm x 6mm, fitted around its perimeter with M10 steel bolts at 150mm centres.
4. Double Layer Seal consists of: a sandwich construction, comprising a layer of "Fireflex" seal either side of a 40 mm thick layer of ceramic fibre "Durablanket" (density 128kg/m³) retained by steel flats 40mm x 6mm, fitted around its perimeter with M10 steel bolts at 150mm centres.
5. 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

Bestobell Oilfield Products
Ashby Road
Shepshed
Loughborough,
Leicestershire, LE12 9EQ

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).

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

