Certificate No: LR2187272SF
Issue Date: 27/11/2019
Expiry Date: 26/11/2024

# 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** | **Carboline Company** |
| **Address** | 350 Hanley Industrial Court, St. Louis, Missouri 63144, United States |
| **Type** | Structural Steel Hydrocarbon Fire Protection System |
| **Description** | Structural Steel Hollow Sections protected with “Pyroclad X1” epoxy intumescent coating reinforced with “High Temperature Fabric Mesh” or “12.5mm x 12.5mm 19 Gauge Galvanised Steel Mesh” for Hydrocarbon Fires up to 240 minutes |
| **Trade Name** | Pyroclad X1 |
| **Specified Standard** | British Standard BS 476-20:1987 “Fire tests on Building Materials and Structures, Part 20: Method for Determination of the Fire Resistance of Elements of Construction”, incorporating the Norwegian Petroleum Directorate (NPD) Hydrocarbon Time / Temperature Relationship |

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 EMEA 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.

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**Keith Taylor**
Team Lead Fire & Safety to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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# Certificate Of Fire Approval

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.

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