


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.

Manufacturer	Deansteel Manufacturing Company
Address	111 Merchant Street San Antonio Texas 78204-1496 United States of America (USA)
Type	A-30 WINDOW (STANDARD FIRE TEST)
Description	Fire Resisting Window - Type: "DS WD A-30"
Specified Standard	IMO Fire Resisting Test Procedures Code, Annex 1, Part 3

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	29 May 2003	Issued by	Lloyd's Register of Shipping, London
Expiry date	28 May 2008		
Certificate No.	SAS F030202	Signed	
Sheet No	1 of 2	Name	J.D. Burr Marine Support Group London

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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Issue number	1

DESIGN APPRAISAL DOCUMENT

Date	29 May 2003	Quote this reference on all future communications	MSG/STAT/DCG/FITA/WM
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F030202

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Southwest Research Institute (SWRI), San Antonio, Texas, USA, Test Report No. 01.06213.01.001a, dated March 2003.

CONDITIONS OF CERTIFICATION

1. Maximum clear opening width: 1016mm.
2. Maximum clear opening height: 1524mm.
3. Glass panel of: single glazed 25mm thick Swissflam SF 60.
4. The window was tested with the detachable beads on the fire side.

PLACE OF PRODUCTION

Deansteel Manufacturing Inc.
111 Merchant Street
San Antonio
Texas 78204-1496
United States of America (USA)



Capt. J. D. Burr
Principal Surveyor
Dry Cargo Ship Section
Statutory Department
Marine Support Group



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).