



DET NORSKE VERITAS TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-18277

This Certificate consists of 2 pages

This is to certify that the
Surface Material of Low Flame Spread

471.21

with type designation(s)

DOBEL F105

Manufactured by

SSAB Laminated Steel AB
RONNEBY, Sweden

is found to comply with

Det Norske Veritas' Offshore Standards

Det Norske Veritas' Rules for Classification of Ships

Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended

Application

Low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire. Approved for use throughout the accommodation.

Place and date

Høvik, 2007-02-12

for Det Norske Veritas AS

This Certificate is valid until

2011-06-30

Hilde Smedal Thunes
Head of Section

Local Office
DNV Malmö

Marte Eknæs Edvardsen
Surveyor

Product description

"Dobel F105"

steel plate of minimum thickness 0.4 mm laminated with PVC-foil using glue of type "COILON FX220-7004" or an adhesive powder polyester glue.

Application/limitation

Low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire. Approved for use throughout the accommodation.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics and low emission of smoke and toxic gases according to IMO FTP Code Parts 2 and 5. (See also IMO MCS/Circ. 916).

Maximum calorific value, ref. SOLAS Chapter II-2, Reg. 5.3.2.2: 1.29 MJ/kg, 4.93 MJ/m²

The product is to be supplied with a manual for installation, use and maintenance.

Type Approval documentation

Certification in accordance with Certification Note No. 1.2, Type Approval, December 1996.

Test Report No. 95R21951 dated 11 May 1996 from Statens Provningsanstalt, Borås, Sweden.

Test Report No. F7 00630 A and B dated 30 January 2007 from SP Technical Research Institute of Sweden, Borås, Sweden.

Certificate Retention Survey Report dated 10 November 2006 from DNV Malmö.

Tested according to IMO FTPC Part 5 and Annex 2 item 2.2

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

Certificate retention survey

Det Norske Veritas' surveyor is to be given permission to perform Certification Retention Surveys at any time during the validity period of this certificate. The arrangement is to be in accordance with procedure described in item 4.3, Certification Note No. 1.2.

END OF CERTIFICATE

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.