DNV·GL

Certificate No:
MEDB00002ZR

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Surface materials and floor coverings with low flame-spread characteristics: floor coverings

with type designation(s)
Highline 630 AB and Highline 630 WT

Issued to
Hammer Tæpper A/S
Herning, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.18c. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2018-10-08**.

Issued at **Høvik** on **2017-06-22**

DNV GL local station:
Aalborg

Approval Engineer:
Tomasz Werchowicz

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

NORWEGIAN ACCREDITATION PROD 019

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Job Id: **344.1-000443-15**
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Product description

"Highline 630 AB" and "Highline 630 WT"
carpets composed as described in the table below.

		Highline 630 AB		**Highline 630 WT**	
Components	Composition	Weight [g/m²]	Thickness [mm]	Weight [g/m²]	Thickness [mm]
Pile	100 % polyamide	630	4.4	630	4.0
Primary backing	100 % polyester	120	-	120	-
Precoat	86 % fillers 14 % latex	727	1.8	777	1.8
Adhesive	75 % fillers 25 % latex	568	-	588	-
Backing/acoustic felt	65 % polyester 35 % polyamide	300	3.0	110	0.5
		2345	9.2	2225	6.3

The carpets are to be glued to non-combustible material by means of adhesive.
Gross calorific values:

- Highline 630 AB: 19096.3 KJ/kg or 44.8 MJ/m^2,
- Highline 630 WT: 19426.0 KJ/kg or 43.2 MJ/m^2.

Application/Limitation

Approved for use as low flame spread material, not generating excessive quantities of smoke nor toxic products in fire.

Approved for use as floor covering on non-combustible substrate.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Tests carried out

Tested according to IMO FTPC Parts 2 & 5 and item 3.1 of Part 5 and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, Mark of Conformity and USCG approval if applicable (see first page).