

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. 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 Upholstered furniture**

with type designation(s)

**Wool/PA, Wool/PA/Lycra, Wool/PA/Lycra/PES, Wool/Ramie, Wool/Viscose,
Wool/Viscose/PA, Wool/Lycra/Viscose, Trevira CS**

Issued to

**AB Ludvig Svensson
KINNA, Sweden**

is found to comply with the requirements in the following Regulations/Standards:

**Annex A.1, item No. A.1/3.20 and Annex B, Module B in the Directive SOLAS 74 as
amended, Regulation II-2/3, II-2/5, II-2/9 & X/3, 2000 HSC Code 7 and IMO 2010 FTP
Code**

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

**Høvik, 2015-09-09
for DNV GL AS**This Certificate is valid until
2019-05-06Notified Body No.: **0575**

**Vidar Dolonen
Head of Department**DNV GL local office:
Gothenburg

**Synnøve Bolstad Eri
Surveyor**

Product description

Wool/PA, Wool/PA/Lycra, Wool/PA/Lycra/PES, Wool/Ramie, Wool/Viscose, Wool/Viscose/PA, Wool/Lycra/Viscose, Trevira CS.

Products as given in the appendix to this certificate.

Application/Limitation

Approved for use throughout the accommodation as upholstered fabrics. Other trade names than above is accepted provided the product is within the limitations given above for composition and density.

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

Type Examination documentation

Test reports: See appendix.

Tests carried out

Tested according to IMO FTPC Part 8 (IMO Res. A. 652(16)) and in compliance with IMO 2010 FTP Code Ch. 8, and according to IMO 2010 FTP Code part 8.

Marking of product

The product or packing is to be marked with name of manufacturer and type designation.

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

An 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.

APPENDIX to EC Type – Examination Certificate MEDB0000056

Product description

Product name	Weight (g/m ²)	Composition	Foam used during test
Anemon	345	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Anime	478	92 % Wool 8 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Arabescue	450	80 % Wool 20 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Astrakan	315	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Barock	580	100% Trevira CS	CMHR foam, 35 kg/m ³ (Carpenters RX36-125)
Bas	483	100% Trevira CS	CMHR foam, 35 kg/m ³ (Carpenters RX36-125)
Bike	380	100% Trevira CS	CMHR foam, 35 kg/m ³ (Carpenters RX36-125)
Bit	440	100% Trevira CS	CMHR foam, 35 kg/m ³ (Carpenters RX36-125)
Box	513	100% Trevira CS	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Brink	325	85 % Wool 15 % Polyamide	Polyurethane foam with density 70 kg/m ³
Bubbles	345	85 % Wool 15 % Polyamide	high resilient polyurethane foam, density 35 kg/m ³
Chromatic	330	85 % Wool 15 % Polyamide	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Corall	470	100% Trevira CS	Standard non-FR polyurethane foam, density 22 kg/m ³
Cross	443	92 % Wool 8 % Polyamide	FR Polyurethane HR-foam with density 32 kg/m ³
Defense	327	85% Wool 15% PA	Tested without upholstery
Dog Tooth	493	92 % Wool 8 % Polyamide	high resilient polyurethane foam, density 35 kg/m ³
Dotcom	497	100% Trevira CS	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Fashion	260	85 % Wool 15 % Polyamide	high resilient polyurethane foam, density 35 kg/m ³
Felt	534	100 % Wool	Non FR Polyether foam type RP21140 with density 30 kg/m ³
Flex	400	98 % Wool, 1 % Lycra, 1 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Front	327	85% Wool, 8%PA, 4% PES, 3% Lycra	T3040F 30 kg/m ³
Grand Pix	350	85 % Wool 15 % Polyamide	high resilient polyurethane foam, density 35 kg/m ³
Happy	430	100% Trevira CS	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Hill	503	85% Wool, 12PA, 1% PES, 2% Lycra	Standard PU Foam 22 kg/m ³
Ink	330	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 20-22 kg/m ³
Ink Smutsavvisande	330	85 % Wool, 15 % Polyamide	CMHR foam, density 35 kg/m ³

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Product name	Weight (g/m ²)	Composition	Foam used during test
Juno	420	100% Trevira CS	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Kalahari	326	85 % Wool 15 % Polyamide	Tested without upholstery
Kalligrafi	310	92 % Wool 8 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Key	485	100% Trevira CS	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Khaki	360	100% Trevira CS	High resilient polyurethane foam, density 35 kg/m ³
Leaf	340	85 % Wool 15 % Polyamide	high resilient polyurethane foam, density 35 kg/m ³
Markelius	275	85 % Wool 15 % Polyamide	CMHR foam, density 40 kg/m ³
Marrakesh	300	85 % Wool, 8 % PA, 4 % Lycra, 3 % PES	Standard non-FR polyurethane foam, density 20-22 kg/m ³
Meander	490	92 % Wool 8 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Metropolis	340	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Miami	540	100% Trevira CS	Standard non-FR polyurethane foam, density 22 kg/m ³
Moss	465	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 20-22 kg/m ³
Myr	320	89 % Wool 11 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Myr Smutsavvisande	320	89 % Wool, 11 % Polyamide	CMHR foam, density 35 kg/m ³
Nest	350	Wool 85% Polyamid 15%	Standard non-FR polyurethane foam, density 20-22 kg/m ³
No:5	330	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Plain	440	100% Trevira CS	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Piccolo	520	94 % Wool 6 % Polyamide	High resilient polyurethane foam, density 35 kg/m ³
Pix	350	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Puntino	415	88 % Wool 12 % Polyamide	High resilient polyurethane foam, density 35 kg/m ³
Quadrato	345	85 % Wool 15 % Polyamide	High resilient polyurethane foam, density 35 kg/m ³
Rami	600	80% Wool 20% Ramie	Standard non-FR polyurethane foam, density 20-22 kg/m ³
Rami+	600	80% Wool 20% Ramie	Standard non-FR polyurethane foam, density 20-22 kg/m ³
Raw	720	86 % Wool 14 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Retro	455	80 % Wool, 12 % Viscose, 8 % Polyamide	High resilient polyurethane foam, density 35 kg/m ³
Rock	290	Wool 85% Polyamid 15%	CMHR foam, 35 kg/m ³
Shanghai	300	85 % Wool 15 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Singel	570	85% wool 15% PA	CMHR foam, 35 kg/m ³ (Carpenters RX36-125)
Skåne Pil	570	89 % Wool, 11 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³

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Product name	Weight (g/m ²)	Composition	Foam used during test
Skåne Bas	560	89 % Wool, 11 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Snowball	540	80 % Wool, 13 % Viscose, 7 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Soft/Mill	410	75 % Wool 25 % Viscose	Standard non-FR polyurethane foam, density 22 kg/m ³
Solo	330	85 % Wool 15 % Polyamide	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Stena Rand	460	92 % Wool 8 % Polyamide	High resilient polyurethane foam, density 35 kg/m ³
Step	410	75 % Wool 25 % Viscose	High resilient polyurethane foam, density 35 kg/m ³
Sushi Big	671	88 % Wool 12 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Sushi Small	671	88 % Wool 12 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Taxi	503	100% Trevira CS	CM foam, 35 kg/m ³ (Carpenters RX36-125)
Tight	605	95 % Wool, 1 % Lycra, 4 % Polyamide	Standard non-FR polyurethane foam, density 22 kg/m ³
Ting	470	100% Trevira CS	High resilient polyurethane foam, density 35 kg/m ³
Uno	421	85 % Wool, 12 % PA, 3% Lycra	Standard PU Foam 22 kg/m ³
Vejde	421	46% Wool, 43 % Cotton, 8 % PA, 3% Lycra	Tested without upholstery
Wallpaper	335	85 % Wool 15 % Polyamide	high resilient polyurethane foam, density 35 kg/m ³
Woton	350	85 % Wool, 15 % Polyamide	CMHR foam, density 40 kg/m ³
Yra	450	100% Trevira CS	CMHR foam, 35 kg/m ³
Zoom	400	100% Trevira CS	CMHR foam, 35 kg/m ³ (Carpenters RX36-125)

Type Examination documentation

Test report No 2700604A/06/06 (**Anemon**) dated 20 June 2006 from BTTG Fire Technology Services.
Test report No. 2701115B/10/07 (**Arabescue**) dated 23 October 2007 from BTTG Fire Technology Services.
Test report No. 2700780/11/06 (**Bubbles**) dated 20 November 2006 from BTTG Fire Technology Services.
Test report No 2700604C/06/06 (**Flex**) dated 20 June 2006 from BTTG Fire Technology Services.
Test report No. 2701610A/03/09 (**Leaf**) dated 23 March 2009 from BTTG Fire Technology Services.
Test report No. UP0520.0181 (**Markelius**) dated 5 April 2005 from IFP Research.
Test report No. 2701369/07/08 (**Metropolis**) dated 25 July 2008 from BTTG Fire Technology Services.
Test report No. 2701394B/08/08 (**Piccolo**) dated 26 August 2008 from BTTG Fire Technology Services.
Test report No. 2701395/08/08 (**Puntino**) dated 21 August 2008 from BTTG Fire Technology Services.
Test report No. 2701393/08/08 (**Quadrato**) dated 20 August 2008 from BTTG Fire Technology Services.
Test report No. 2701115C/10/07 (**Snowball**) dated 23 October 2007 from BTTG Fire Technology Services.
Test report No. 2701115A/10/07 (**Soft/Mill**) dated 23 October 2007 from BTTG Fire Technology Services.
Test report No.2700604B/06/06 (**Tight**) dated 20 June 2006 from BTTG Fire Technology Services.
Test report No. UP0520.0181 (**Woton**) dated 5 April 2005 from IFP Research.
Test report No. 2701867B/12/09 (**Retro**) dated 13 January 2010 from BTTG Fire Technology Services.
Test report No. 27/01981A/5/10 (**Fashion**) dated 9 June 2010 from BTTG Fire Technology Services.
Test report No. 2702071B/08/10 (**Step**) dated 9 September 2010 from BTTG Fire Technology Services.
Test report No. 2702101A/10/10 (**Wallpaper**) dated 28 October 2010 from BTTG Fire Technology Services.
Test Report No. 2008-1967 (**Front**) dated 4 November 2008 from Warrington Brandhaus, Germany.
Test Report No. 2008-1941 (**Hill**) dated 28 October 2008 from Warrington Brandhaus, Germany.
Test Report No. 2008-1942 (**Uno**) dated 28 October 2008 from Warrington Brandhaus, Germany.
Test Report No. 2008-1074 (**Kalahari**) dated 29 January 2008 from West Yorkshire Materials Testing Service, Leeds, UK.
Test Report No. 2007-1972 (**Defense**) dated 9 January 2008 from West Yorkshire Materials Testing Service, Leeds, UK.

Test Report No. 45525-01(**Rami**) dated 31 January 2011 from West Yorkshire Materials Testing Service, Leeds, UK.
Test Report No. 44684 (**Ink**) dated 30 September 2010 from West Yorkshire Materials Testing Service, Leeds, UK.
Test Report No. 45506 (**Marrakesh**) dated 31 January 2011 from West Yorkshire Materials Testing Service, Leeds, UK.
Test report No. 48574-01(**Moss**) dated 22 November 2011 from West Yorkshire Materials Testing Service, Leeds, UK.
Test report No. 27/02459B/02/12 (**Cross**) dated 1 March 2012 from BTTG Fire Technology Services, Leeds, England.
Test report No. 2702363/09/11 (**Dog Tooth**) dated 10 October 2011 from BTTG Fire Technology Services, Leeds, England.
Test report No. 304253 issue 1 (**Europost=Felt**) dated 14 February 2011 from Exova Warringtonfire, Warrington, UK.
Test report No. 27/02459C/02/12 (**Anime**) dated 1 March 2012 from BTTG Fire Technology Services, Leeds, England.
Test report No. 27/02459D/02/12 (**Kalligrafi**) dated 1 March 2012 from BTTG Fire Technology Services, Leeds, England.
Test report No. 27/02459A/02/12 (**Meander**) dated 1 March 2012 from BTTG Fire Technology Services, Leeds, England.
Test report No. 2702187/02/11 (**Sushi**) dated 17 February 2011 from BTTG Fire Technology Services, Leeds, England.
Test report No. 2701771/08/09 (**Grand Pix/Pix=Grand Pix**) dated 26 August 2009 from BTTG Fire Technology Services, Leeds, England.
Test report No. 2702508A/04/12 (**Pix**) dated 18 April 2012 from BTTG Fire Technology Services, Leeds, England.
Test report No. IBR/Z-033-2012, signature no. TZ/FTP-8a/132/2012 (**Brink**) dated 20 April 2012 from Faculty of Maritime Technology and Transport, Department of Ship Safety Engineering, Szczecin, Poland.
Test Report No. 2702531A/05/12 (**Astrakan**) dated 2 July 2012 from BTTG Fire Technology Services, Leeds, England.
Test Report No. 2702538A/05/12 (**Raw**) dated 2 July 2012 from BTTG Fire Technology Services, Leeds, England.
Test Report No. 2702585B/07/12 (**Shanghai**) dated 23 July 2012 from BTTG Fire Technology Services, Leeds, England.
Test Report No. 27/03101M/04/14 (**Corall**) dated 1 May 2014 from BTTG Fire Technology Services, Leeds, UK.
Test Report No. 27/03101L/04/14 (**Miami**) dated 1 May 2014 from BTTG Fire Technology Services, Leeds, UK.
Test Report No. 27/02753/02/13 (**Myr**) dated 6 March 2013 from BTTG Fire Technology Services, Leeds, UK.
Test report No. 56347-02 (**Rami+**) dated 31 January 2013 from West Yorkshire Materials Testing Service, Leeds, UK.
Test report No. 62273-02 (**Solo**) dated 1 November 2013 from West Yorkshire Materials Testing Service, Leeds, UK.
Test Report No. 27/02361/09/11 (**Stena Rand**) dated 6 October 2011 from BTTG Fire Technology Services, Leeds, UK.
Test Report No. 2702677B/11/12 (**Ting**) dated 26 November 2012 from BTTG Fire Technology Services, Leeds, UK.
Test Report No. 2702680C/11/12 (**No:5**) dated 26 November 2012 from BTTG Fire Technology Services, Leeds, UK.
Test Report No. 67032 (Amended) (**Skåne Pil**) dated 27 October 2014 from West Yorkshire Material Testing Service, UK.
Test Report No. 67033 (Amended) (**Skåne Bas**) dated 27 October 2014 from West Yorkshire Material Testing Service, UK.
Test Report No. 27/03130/04/14 (**Khaki**) dated 22 May 2014 from BTTG Fire Technology Services, Leeds, UK.
Test Report No. 4P06503-1rev1 (**Ink Smutsavvisande**) dated 16 October 2014 from SP, Sweden.

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Test Report No. 4P06503rev1 (**Myr Smutsavvisande**) dated 16 October 2014 from SP, Sweden.

Type Examination documentation

Test Report No. 69846 (**Barock**) dated 2 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69847 (**Bas**) dated 2 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69848 (**Bike**) dated 2 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69849 (**Bit**) dated 2 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69850 (**Box**) dated 1 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 65916-01 (**Chromatic**) dated 16 July 2014 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69852 (**Dotcom**) dated 1 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69816 (**Happy**) dated 28 May 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69853 (**Juno**) dated 1 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69854 (**Key**) dated 1 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 67812 (**Nest**) dated 15 December 2014 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69857 (**Plain**) dated 29 May 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 27/03502A/04/15 (**Rock**) dated 30 April 2015 from British Textile Technology Group (BTTG), England.
Test Report No. 47906-02 (**Singel**) dated 1 September 2011 from West Yorkshire Materials Testing Service, UK.
Test Report No. 69859 (**Taxi**) dated 1 June 2015 from West Yorkshire Materials Testing Service, UK.
Test Report No. 27/03390/12/14 (**Yra**) dated 22 January 2015 from British Textile Technology Group (BTTG), England.
Test Report No. 69861 (**Zoom**) dated 2 June 2015 from West Yorkshire Materials Testing Service, UK.

Place and date
Høvik, 2015-08-27

Synnøve Bolstad Eri
Surveyor