DNV·GL

Certificate No:
TAF0000194

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Surface Material of Low Flame Spread

with type designation(s)
Gislaved Quality 1320, alias Gislaved Decor M

Issued to
Gislaved Folie AB
GISLAVED, Sweden

is found to comply with
DNV GL offshore standards
DNV GL rules for classification – Ships
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

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

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2019-09-06**
This Certificate is valid until **2024-09-05**.
DNV GL local station: **Gothenburg FIS**

Approval Engineer: **Grzegorz Wolski**

for **DNV GL**

Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

"Gislaved Quality 1320, alias *Gislaved Decor M*"
PVC-foil for wall panel, hot laminated on steel sheet with adhesive "Beckrybond FX220" (by Beckers Industrial Coatings) or by adhesive "Köratac FL 104" (by Kömmerling Chemiche Fabrik GmbH). Alternative with cold lamination on metal with "Gislaved Integrated Pressure-Sensitive-Adhesive" (by Gislaved Folie AB).

Variants of the product Gislaved Quality 1320:

- Standard formulation (G1320) with nominal thickness of 0.15 mm
  - Tested colour is *F12H* (from the manufacturer), organic content is 96.0 g/m^2 and density 1.390 g/m^3.
- Alternate formulation (G1321) with nominal thickness of 0.13 mm.

Application/Limitation

Approved for use on metallic surface with thickness of at least 0.5 mm.

Gross calorific value:

Gislaved Quality 1320 (with Beckrybond FX220):	4.26 MJ/m^2
Gislaved Quality 1320 (with Köratac FL 104):	4.13 MJ/m^2
Gislaved Quality 1320 with alternate formulation (G1321) (with Köratac FL 104):	3.58 MJ/m^2

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.

The product satisfies the requirement for maximum calorific value (ref. Solas Chapter II-2, Reg 5.3.2.2) without further testing.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, Type Approval, September 2018.

Test for surface flammability according to IMO Res. A.653(16) (IMO FTPC Part 5):

- Report No. P501234, dated 4th of April 2005.
- Report No. PX05920, dated 16th of November 2010.
- Report No. PX05920B, dated 16th of November 2010.
- Report No. PX15221 Rev. 1, dated 11th of November 2011.
  Test report according to IMO 2010 FTP Code Part 5:
- Report No. 3P04811, dated 19th of August 2013.

Smoke and toxicity test according to ISO 5659-2:2004 (IMO FTPC Part 2):

- Report No. P501234A, dated 4th of April 2005.
- Report No. PX05920A, dated 17th of November 2010.
- Report No. PX05920C, dated 17th of November 2010.
- Report No. PX18074, dated 9th of January 2012.
  Test report according to IMO 2010 FTP Code Part 2:
- Report No. 3P04811-1, dated 29th of August 2013.

Gross calorific value according to ISO 1716:2010

- Report No. P501234-01, dated 08th of April 2005.
- Report No. 3P04811-01, dated 27th of August 2013.
- Report No. PX18074-01, dated 31st of January 2012.

All test reports from SP Technical Research Institute of Sweden, Borås, Sweden.

Tests carried out

Tested according to IMO FTPC Part 5 and 2 and in compliance with IMO 2010 FTP Code Ch. 8.

Tested according to IMO 2010 FTP Code Part 5 and 2.

Gross calorific value tested according to ISO 1716:2010.

Marking of product

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

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.