

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 Norway.

This is to certify:

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

with type designation(s)
Chemetal decorative veneers

Issued to

Chemetal a Division of The October Company Inc
Easthampton, MA, USA

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

Regulation **(EU) 2019/1397,**

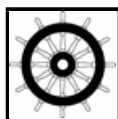
item No. MED/3.18a. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

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

This Certificate is valid until **2025-04-21**.

Issued at **Høvik** on **2020-04-22**

DNV GL local station:
**Certification & Inspection
Services**



for **DNV GL AS**

Approval Engineer:
Tessa Biever

Notified Body
No.: **0575**

Roald Vårheim
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, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

Chemetal decorative veneers are available in the following three(3) variants:

1. Homapal High Pressure Metallic Laminates: #200 series, 315, 317, 318, 340, #700 series.
Composed of copper or aluminium foil with a thickness of 0.05 mm attached to a high pressure laminate (HPL) with a thickness of 1.04 mm. The surface is sealed with an 0.005 mm thick transparent layer of UV lacquer type 'RD1383' (manufactured by R&D coatings Inc.).

Total product thickness: 1.09 mm.

Density: 0.002 g/mm³.

2. Pure metal (aluminium, brass, copper) with UV lacquer: #100~103, 303, 304, 306, 310, 314, 325, 335, 337, 338 346, 349, 350, 352, 354, #400 series, #500 series.

Composed of pure aluminium, bright aluminium or bright brass aluminium metal sheet. The surface is sealed with an 0.005 mm thick transparent layer of UV lacquer type 'RD1383' (manufactured by R&D coatings Inc.).

Total product thickness: 0.51 mm - 0.81 mm.

Density: 0.0014 - 0.0027 g/mm³.

3. Pure metal: #800 series, #900 series

Composed of pure aluminium, brass or copper metal sheets.

Application/Limitation

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

The products may be applied to any metallic and non-combustible base if the product would not need any adhesive or combustible material layer.

If an adhesive is used to bond this product to its base, testing of the total combination of this product applied to its base in accordance with IMO FTP Code part 5 and 2 is required.

If a combustible layer is applied to the product, the total combination of this product with this layer in accordance with IMO FTP Code part 5 and 2 is required.

Approved colours for the variants under 'Product description':

1. Homapal High Pressure Metallic Laminates: #200 series, 315, 317, 318, 340

Approved colour (tested colour #317 – Aurora): Brown

Max. organic content: 98%

2. Pure metal (aluminium, brass, copper) with UV lacquer: #100~103, 303, 304, 306, 310, 314, 325, 335, 337, 338 346, 349, 350, 352, 354, #400 series, #500 series, #700 series.

Approved colour (tested colour #414 – Nomadic and #702 – Brushed Aluminium): Silver/Brown

Max. organic content: 98%

3. Pure metal: #800 series, #900 series :

Approved colour: The metal colours of aluminium, brass or copper.

Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2.

Each product or series are to be supplied with its manual for installation/application and maintenance.

Job Id: **344.1-003029-10**
Certificate No: **MEDB00004A0**

Type Examination documentation

Test report nos.:

- 100-5907-4 rev.1 (IMO 2010 FTP Code part 2) dated 2019-01-09 (#702 Brushed Aluminium)
- 100-5907-5 rev.1 (IMO 2010 FTP Code part 2) dated 2019-01-09 (#317 Aurora)
- 100-5907-6 rev.1 (IMO 2010 FTP Code part 2) dated 2019-01-09 (#414 Nomadic)
- 100-5907-1 rev.1 (IMO 2010 FTP Code part 5) dated 2019-01-09 (#702 Brushed Aluminium)
- 100-5907-2 rev.1 (IMO 2010 FTP Code part 5) dated 2019-01-09 (#317 Aurora)
- 100-5907-3 rev.1 (IMO 2010 FTP Code part 5) dated 2019-01-09 (#414 Nomadic)

All from VTEC laboratories Inc., New York, USA.

Tests carried out

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

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, Mark of Conformity and USCG approval number if applicable (see page 1).