

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND CERTIFICATE OF TYPE APPROVAL

(EC Certificate of Type Examination-2014/90/EU Directive Module B)

Certificate Number: 164.112/1121/WCL MED0274TE

| | | | |
|------------|----------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------|
| Applicant: | Encocam Limited | Manufacturer: | COREX, a division of Encocam Limited |
| Address: | 5 Stukeley Business Centre Blackstone Road, Huntingdon, Cambridgeshire, PE29 6EF United Kingdom | Address: | 5 Stukeley Business Centre Blackstone Road, Huntingdon, Cambridgeshire, PE29 6EF United Kingdom |

This is to certify that the applicant has submitted details of an aluminium honeycomb (MED/3.18), known and designated as: -

"COREX - Honeycomb" (3000 Series and 5000 Series)

having the technical specification given in the schedule of equipment on this certificate which has been tested and complies with the recommended criteria given in the following methods, published by the International Maritime Organisation, and which are contained in the relevant parts of the International Code for Application of Fire Test Procedures (FTP Code) namely:-

IMO Resolution A653(16)
IMO Resolution MSC 61(67) Annex 1 Part 5 and Annex 2.
IMO Resolution MSC 61(67) Annex 1 Part 2 and Annex 2.

This certificate is issued on behalf of the Maritime and Coastguard Agency (MCA). The system complies with the relevant international testing standards under which legislation ((The Merchant Shipping Marine Equipment) Regulations 2017 and also the Marine Equipment Directive 2014/90/EU as amended) and the implementing regulation 2019/1397/EU the certificate is issued.

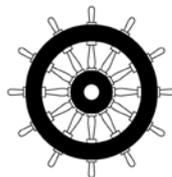
This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004 and amended by Decision No.1/2018 dated February 18th, 2019. The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.112/1121/WCL MED0274.



P Duggan -Manager
Warrington Testing and Certification Limited
Holmesfield Road
Warrington WA1 2DS

Date of Original Issue 3rd July 2015
Revised on: 22nd July 2015
Date of Re-issue 15th July 2020
This certificate is valid until 31st December 2020

This certificate is not valid for equipment, the design or manufacture of which, has been varied or modified from the specimens tested.



Certificate of Type Approval Schedule of Equipment

The applicant declared that the following comprises an accurate description of the system type to which this certificate applies:

| | | | |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------|
| Product reference | "COREX - Honeycomb" (3000 Series and 5000 Series) | | |
| General description | A range of un-faced expanded aluminium honeycomb panels having the following characteristics: | | |
| | Series | 3000 series | 5000 series |
| | Cell diameter range | 3.2mm to 25.4mm | 3.2mm to 25.4mm |
| | Aluminium gauge | 50 to 70 microns | 35 to 69 microns |
| | Panel thickness | 6mm to 50mm | 6mm to 50mm |
| | Overall density | 12.8kg/m ³ - 163.4kg/m ³ | 9.6kg/m ³ - 161.8kg/m ³ |
| Aluminium | Product reference | "Foil 3000 Series" / "Foil 5000 Series" | |
| | Generic type | Aluminium | |
| | Name of manufacturer | See Note 1 below | |
| | Colour | "Aluminium - Silver" | |
| | Flame retardant details | See Note 2 below | |
| Adhesive | Product reference | See Note 1 below | |
| | Generic type | Epoxy adhesive | |
| | Name of manufacturer | See Note 1 below | |
| | Application rate | 50 g/m ² | |
| | Application method | Printing | |
| | Flame retardant details | See Note 2 below | |
| Brief description of manufacturing process | Aluminium foil is printed with adhesive lines at required pitch. Printed foil is then cut into sheets and stacked with alternate adhesive lines. Stacks are then pressed and heated to cure the adhesive, bonding sheets together into a block. Blocks are then cut to customer requirements. | | |

Note 1. The sponsor of the test has provided this information, but at the specific request of the sponsor, these details have been omitted from the report and are held on the confidential file relating to this investigation.

Note 2. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Approved Documents

Test Reports

- (1) WF Report No.'s 185442, 193694, 193695, 193696 - Surface Flammability tests to IMO A653 (16), Part 5, Annex 1 of the Fire Test Procedures Code, Resolution MSC61 (67).

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