



Notified Body No. 1121

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

(EC Certificate of Type Examination-96/98/EC Directive Module B)

**Certificate Number: 164.117/1121/WCL MED0255TE**

Applicant: - **Carpenter Limited**

Manufacturer:- Carpenter Limited

Address: - **Dinting Lodge Industrial Estate,  
Glossop, Derbyshire, SK13 6LE**

Dinting Lodge Industrial Estate,  
Glossop, Derbyshire, SK13 6LE

This is to certify that the applicant has submitted details of a floor covering (item reference A.1/3.18c) with low flame-spread and low smoke and toxic fume characteristics, known and designated as: -

**"EXTRASTEP"**

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 MSC 307(88): Annex 1: Part 5 and Annex 2.
- IMO Resolution MSC 307(88): Annex 1: Part 2 and Annex 2.
- IMO MSC/Circ.1120, 2 June 2004.

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 1999 and also the Marine Equipment Directive 96/98 as amended, the certificate is issued.

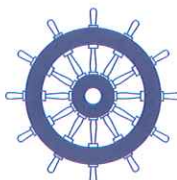
The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.117/1121/WCL MED0255TE as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27<sup>th</sup>, 2004.

P Duggan  
Manager  
Warrington Certification Limited  
Holmesfield Road  
Warrington WA1 2DS

Date of Issue 20<sup>th</sup> June 2014

This certificate is valid until 19<sup>th</sup> June 2019

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



*This certificate does not entitle the use of the Mark of Conformity, which requires an additional module, either D, E or F.*

*Under the terms of the Merchant Shipping (Marine Equipment Regulations 1991) Warrington Certification Ltd. has been notified to the European Commission by the Maritime and Coastguard Agency as a body authorised to conduct Type Examinations under the provisions of the European Council Directive 96/98/EC on Marine Equipment and issue Certificates of Type Approval.*

## 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.

|  |                                     |   |   |  |
|--|-------------------------------------|---|---|--|
| General description  |                                     | A flame retardant grade carpet underlay bonded to 3mm thick steel utilising 'Balls F3' adhesive   |   |  |
| Overall thickness of composite                             |                                     | 9.06mm (determined by Bodycote warringtonfire)  |   |  |
| Overall weight per unit area of composite                  |                                     | 22.71kg/m <sup>2</sup> (determined by Bodycote warringtonfire)  |   |  |
| Carpet Underlay  | Product reference                   |   | "Extrastep"   |  |
|  | Overall thickness of underlay       |   | 6mm (stated by the sponsor of the test)   |  |
|  | Overall density of underlay         |   | 180kg/m <sup>3</sup> (stated by the sponsor of the test)  |  |
|  | Name of manufacturer                |   | Carpenter Ltd   |  |
|  | Film Face<br>(Upward, printed face) | Product reference   |   | "35micron AACOP Top Laminate"  |
|  |                                     | Generic type  |   | Polyethylene   |
|  |                                     | Name of manufacturer  |   | See Note 1 below   |
|  |                                     | Thickness   |   | 35µm   |
|  |                                     | Colour reference  |   | See Note 2 below   |
|  |                                     | Weight per unit area  |   | See Note 3 below   |
|  |                                     | Flame retardant details   |   | See Note 2 below   |
|  | Foam Core                           | Product reference   |   | "Recon Foam"   |
|  |                                     | Generic type  |   | Polyurethane   |
|  |                                     | Name of manufacturer  |   | Carpenter Ltd  |
|  |                                     | Thickness   |   | 6mm  |
|  |                                     | Density   |   | 180kg/m <sup>3</sup>   |
|  |                                     | Flame retardant details   |   | The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product |
|  | Binder                              | Product reference   |   | "PP15"   |
|  |                                     | Generic type  |   | Polyurethane pre-polymer   |
|  |                                     | Name of manufacturer  |   | Carpenter Ltd  |
|  |                                     | Application rate  |   | See Note 1 below   |
| Application method   |                                     | Spray nozzle  |   |  |
| Composition  |                                     | NCH rich system, steam cured  |   |  |
| Flame retardant details                                    |                                     | See Note 2 below  |   |  |
| Adhesive   | "Product reference"                 |   | "Styccobond F3"   |  |
|  | Generic type                        |   | A high temperature rubber / resin based adhesive  |  |
|  | Name of manufacturer                |   | F Ball & Co. Ltd  |  |
|  | Application rate                    |   | 2-3m <sup>2</sup> per litre   |  |
|  | Application method                  |   | 2mm by 6mm 'V' notched trowel   |  |
|  | Flame retardant details             |   | The manufacturer stated that no flame retardant additives were utilised in the construction of the adhesive |  |
| Substrate  | Generic type                        |   | Steel   |  |
|  | Name of supplier                    |   | Terra Projects  |  |
|  | Thickness                           |   | 3mm   |  |
|  | Weight per unit area                |   | 23.56kg/m <sup>2</sup>  |  |
|  | Flame retardant details             |   | The substrate is inherently flame retardant   |  |
| Brief description of manufacturing process of the underlay |                                     | Foam trim is made into a log that is then peeled at the desired thickness and is then laminated top and bottom then cut to the required length. |   |  |

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 was unwilling to provide this information.

Note 3 - The sponsor of the test was unable to provide this information.

The under noted documents have been approved for compliance with the relevant requirements of International Conventions and European Union Legislation for the EC Type examination of Marine Equipment for use on Ships Registered in the European Economic Area.

### **Approved Documents**

#### **Test Reports**

- (1) WF 182323 Surface Flammability test to IMO A653 (16), Part 5, Annex 1 and Annex of the Fire Test Procedures Code, Resolution MSC61 (67).
- (2) WF 341220 (dated June 2014). Surface Flammability test to IMO Resolution MSC 307(88): Annex 1: Part 5 and Annex 2.
- (3) WF 182313 Smoke and Toxicity test to Part 2, Annex 1 and Annex 2 of the Fire Test Procedures Code, Resolution MSC61 (67).
- (4) WF 341221 (dated June 2014). Smoke and Toxicity test to IMO Resolution MSC 307(88): Annex 1: Part 2 and Annex 2

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