



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: 164.112/1121/WCL MED0301TE

Applicant:- **P-D Interglas Technologies Limited** Manufacturer:- P-D Interglas
Technologies Limited
Address:- **Westbury, Sherborne, Dorset, UK,
DT9 3RB** Westbury, Sherborne, Dorset, UK,
DT9 3RB

This is to certify that the applicant has submitted details of aluminium foil faced glass cloth products with Low flame-spread characteristics known and designated as:-

"440 AL" and "7628AL"

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
IMO Resolution MSC 61(67) Annex 1 Part 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 1999 and also the Marine Equipment Directive 96/98 amended by Directive 98/95 and Directive 2001/53) the certificate is issued.

The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.112/1121/WCL MED0301TE 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 27th, 2004.

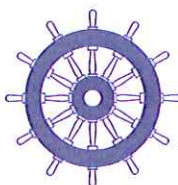
C Hughes
Manager
Warrington Certification Limited
Holmesfield Road
Warrington WA1 2DS

Date of Issue 1st December 2010
This certificate is valid until 30th November 2015

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



Maritime and Coastguard Agency



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		Aluminium foil faced glass cloth		
Trade name / product reference		"440 - AL"	"7628 AL"	
Name of manufacturer		P-D Interglas Technologies Limited		
Overall thickness		"440 AL"	"7628 AL"	
		0.4mm (Stated by sponsor)	0.2mm (Stated by sponsor)	
Overall weight per unit area		"440 AL"	"7628 AL"	
		485g/m ² (Stated by sponsor)	270g/m ² (Stated by sponsor)	
Colour reference		White fabric with one aluminium face		
Product configuration		<ul style="list-style-type: none"> • Base fabric • Adhesive • Foil 		
Base fabric	Trade name / product reference	"US Style 440"	"US Style 7628"	
	Generic description	100% woven glass fabric		
	Type of weave	"440 AL"	"7628 AL"	
		4 Shaft Satin Yarns – Warp 18.6/cm Yarns - weft 11.0/cm	Plain Weave Yarns - Warp 17.2 /cm Yarns - weft 12.0/cm	
	Thickness	"440 AL"	"7628 AL"	
		0.38mm	0.17mm	
	Weight per unit area	"440 AL"	"7628 AL"	
415 g/m ²		206g/m ²		
Flame retardant details		The sponsor stated that no flame retardant additives were utilised in the construction of this component		
Adhesive	Trade name	"Herberts EPS 876"		
	Generic type	Epoxy resin base adhesive		
	Name of manufacturer	Du Pont		
	Application rate per coat	56 g/m ² (wet)		
	Application method	See 'Note 1' below		
	Curing process (duration and temperature)	See 'Note 1' below		
	Flame retardant details	See 'Note 1' below		
Aluminium foil	Trade name	18 micron Aluminium Foil		
	Generic type	Aluminium Foil		
	Name of manufacturer	Eurofoil Belgium SA		
	Colour	Aluminium		
	Weight per unit area	49 g/m ²		
	Application method	See 'Note 1' below		
	Curing process (duration and temperature)	See 'Note 1' below		
Flame retardant details	See 'Note 1' below			
Brief description of manufacturing process		The fabric component is woven and the aluminium foil is bonded to one face.		

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 test report and are held on our confidential file relating to this investigation.

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) WARRES No. 199001 dated December 2010. Surface Flammability test to IMO A653 (16), Part 5, Annex 1 and Annex 2 of the Fire Test Procedures Code, Resolution MSC61 (67).
- (2) Smoke and Toxicity is satisfied by meeting the total heat release (Q_t) and peak heat release (Q_p) as stated in IMO Fire Test Procedures Code, Annex 2 Section 2.2.

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