

EUROPEAN COMMUNITY CERTIFICATE OF CONFORMITY

Issued in accordance with the

MARINE EQUIPMENT DIRECTIVE

Certificate No. 164.112/1121/WCL MED0310QA

This is to certify that in compliance with the Council Directive 96/95/EC of 20 December 1996 on marine equipment as modified by Directive 98/95/EC and Directive 2001/5, the product detailed below has been tested in accordance with the appropriate international instruments contained therein.

This certificate is issued to:

**P-D Interglas Technologies Limited
Westbury, Sherborne, Dorset, UK, DT9 3RB**

To certify that a Surveyor representing Warrington Certification Limited did, at their request, attend at the works of P-D Interglas Technologies Limited on the 26th October 2010 for the purpose of examining the production, and factory production control systems for this product.

Product Description	Surface Materials (A.1/3.18 d – Pipe Insulation)
Product Type	Coated / finished faced glass fabric
References	"05099 FI016", "03882 FI804", "3732 FI785", "7628 FI776", "7628 FI803", "440 FI752", "3732 FI870", "440 FI776", "440 FI870", "3732 FI776", "7628 FI870", "7628 FI804", "7628 FI785"
Modules used	(D)

The particulars of which are given on this certificate, to verify compliance with the requirements of the International Convention for the Safety of Life at Sea (SOLAS) 1974 Regulation II-2/3.40.5, II-2/5.3.2.4 and II-2/6.2

The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.112/1121/WCL MED0310QA 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 7th February 2011
This certificate is valid until 6th February 2016

WCL EC Distinguishing No. 1121

Certificate No. 164.112/1121/WCL MED0310QA

Description of Product as Prototype Tested:

The product is constructed as described in the test reports referenced in the following certificate.

EC Type-Examination Certificate No.	Notified Body	Date of Issue
164.112/1121/WCL MED0310TE	Warrington Certification Limited	7 th February 2011

Regulation No	Testing Standard	Result	Date
II-2/3.40.5 II-2/5.3.2.4 II-2/6.2	IMO Resolution A 653 (16)		
	IMO Resolution MSC 61(67) Annex 1 Part 5	Pass	Test report Number 303572 dated 7 th February 2011
	IMO Resolution MSC 61(67) Annex 1 Part 2 and Annex 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.	

Marking & Identification affixed to the product:

Manufacturer Name P-D Interglas Technologies Limited

Manufacturer Address Westbury, Sherborne, Dorset, UK, DT9 3RB

Product References "05099 FI016", "03882 FI804", "3732 FI785", "7628 FI776", "7628 FI803", "440 FI752", "3732 FI870", "440 FI776", "440 FI870", "3732 FI776", "7628 FI870", "7628 FI804", "7628 FI785"

Approved Authority Warrington Certification Limited

Warrington Certification Limited
Holmesfield Road
Warrington WA1 2DS

WFR EC Distinguishing No. 1121



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 MED0310TE

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 coated / finished glass fabric products with Low flame-spread characteristics known and designated as:-

"05099 FI016", "03882 FI804", "3732 FI785", "7628 FI776", "7628 FI803", "440 FI752", "3732 FI870", "440 FI776", "440 FI870", "3732 FI776", "7628 FI870", "7628 FI804", "7628 FI785"

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

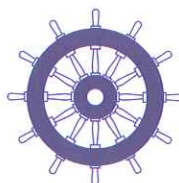
This certificate is issued on behalf of the Maritime and Coastguard Agency (MCA). The system complies with the relevant international testing standards under which legislation (The Merchant Shipping Marine Equipment) Regulations 1999 and also the Marine Equipment Directive 96/98 amended by Directive 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 MED0310TE 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.

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This certificate is valid until 6th February 2016

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 range of glass fibre fabrics with various surface treatments.										
Product references		"05099 FI016", "03882 FI804", "3732 FI785", "7628 FI776", "7628 FI803", "440 FI752", "3732 FI870", "440 FI776", "440 FI870", "3732 FI776", "7628 FI870", "7628 FI804", "7628 FI785"										
Name of manufacturer		P-D Interglas Technologies Limited										
General information												
Reference	03882 FI804	3732 FI785	7628 FI776	7628 FI803	440 FI752	3732 FI870	440 FI776	440 FI870	3732 FI776	7628 FI870	7628 FI804	7628 FI785
Overall thickness (mm)	0.12	0.32	0.18	0.18	0.34	0.32	0.34	0.34	0.32	0.18	0.18	0.18
Overall weight per unit area (g/m ²)	125	450	210	210	428	450	425	428	450	210	210	210
Colour reference	Black	White	White	Black	White	White	White	White	White	White	Black	White
Product configuration	Base fabric with impregnated finish for all products											
Base fabrics												
Reference	03882 FI804	3732 FI785	7628 FI776	7628 FI803	440 FI752	3732 FI870	440 FI776	440 FI870	3732 FI776	7628 FI870	7628 FI804	7628 FI785
Trade name	US Style 03882	Style 3732	US Style 7628	US Style 7628	Style 440	Style 3732	Style 440	Style 440	Style 3732	US Style 7628	US Style 7628	US Style 7628
Generic description	100% woven glass fabric for all products											
Type of weave	Plain	Satin	Plain	Plain	Satin	Satin	Satin	Satin	Satin	Plain	Plain	Plain
Thickness (mm)	0.08	0.42	0.18	0.18	0.3	0.42	0.3	0.3	0.42	0.18	0.18	0.18
Weight per unit area (g/m ²)	122	435	206	206	415	435	415	415	435	206	206	206
Flame retardant details	For all products, the sponsor stated that no flame retardant additives were used in the manufacture of the component.											
Finish details												
Reference	03882 FI804	3732 FI785	7628 FI776	7628 FI803	440 FI752	3732 FI870	440 FI776	440 FI870	3732 FI776	7628 FI870	7628 FI804	7628 FI785
Product reference	FI804	FI785	FI776	FI803	FI752	FI870	FI776	FI870	FI776	FI870	FI804	FI785
Generic type	See 1	See 2	See 2	See 3	See 4	See 5	See 2	See 5	See 2	See 5	See 1	See 2
	1 Organic pigments with organic binder 2 Organic and ceramic binders 3 Organic binders pigmented black 4 Organic binders and ceramic finish with low LOI 5 Organic binders with water repellency											
Name of manufacturer	P-D Interglas for all products											
Colour	Black	White	White	Black	White	White	White	White	White	White	Black	White
Number of coats	1	1	1	1	1	1	1	1	1	1	1	1
Application rate per coat (% by weight of product)	2.5	5.0	3.0	3.0	5.0	4.0	3.0	4.0	3.0	4.0	2.5	5.0
Application method	Dip bath and padder for all products											
Curing process	60 seconds at 140 degrees C for all products											
Flame retardant details	For all products, the sponsor stated that no flame retardant additives were used in the manufacture of the component.											
Details of manufacturing process	The fabric component is woven and then impregnated with the organic finish for all products											

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. 303572 dated 7th February 2011. 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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