

**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 MED0485TE

Applicant: Sanglier Ltd

Manufacturer:- Sanglier Ltd

Address:- Shelley Close, Lowmoor Business,
Kirkby in Ashfield, Nottinghamshire,
NG17 7JZ

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Kirkby in Ashfield, Nottinghamshire,
NG17 7JZ

This is to certify that the applicant has submitted details of an adhesive with Low flame-spread characteristics and low smoke and toxic fume emissions (Item Number A.1/3.18e: Adhesive), known and designated as:-

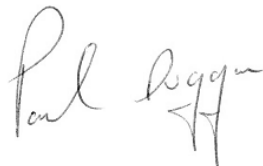
"Tuskbond Gold"

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.
- IMO Resolution MSC 307(88) Annex 1 Part 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.

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 2014/90/EU as amended, the certificate is issued.

The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.112/1121/WCL MED0485 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.

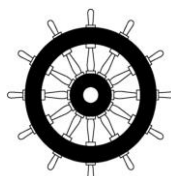


P Duggan
Manager
Warrington Certification
Holmesfield Road
Warrington WA1 2DS

Date of Issue: 20th September 2016

This certificate is valid until: 19th September 2021

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.

General description		Chlorinated thermoplastic adhesive applied to a 25mm thick calcium silicate based board substrate
Overall thickness		25.12mm (determined by Exova Warringtonfire)
Overall weight per unit area		21.48kg/m ² (determined by Exova Warringtonfire)
Adhesive	Generic type	Chlorinated thermoplastic adhesive
	Product reference	"Tuskbond Gold"
	Name of manufacturer	Sanglier limited
	Application rate	25g/m ²
	Application method	Spray
	Flame retardant details	The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product
	Curing process	Evaporation
Substrate	Trade name	"MONALITE M1A"
	Generic type	Calcium Silicate based board
	Manufacturer	Promat
	Thickness	25mm
	Density	970kg/m ³
	Flame retardant details	The substrate is inherently flame retardant
Brief description of manufacturing process		The sponsor was unwilling 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 366807 (dated September 2016). Surface Flammability test to IMO Resolution MSC 307(88) Annex 1 Part 5.
- (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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