

**Leistungserklärung /
Declaration of Performance /
Déclaration des performances**

Lamella_Mats-002

[DE0002-Lamella_Mats(de-en-fr) 002]

1. Eindeutiger Kenncode / Unique identification code / Code d'identification unique

ML 3
Climcover Lamella Mat
ML-DT
TECH Lamella Mat 2.0
2. Vorgesehener Verwendungszweck / Intended use / Usage prévu:
Wärmedämmstoffe für die technische Gebäudeausrüstung und für betriebstechnische Anlagen in der Industrie / Thermal insulation products for building equipment and industrial installations / Produits isolants thermiques pour l'équipement du bâtiment et les installations industrielles
(ThIBELL)
3. Hersteller / Manufacturer / Fabricant:
Saint-Gobain ISOVER G+H AG
Bürgermeister-Grünzweig-Straße 1
D-67059 Ludwigshafen
dialog@isover.de
+49 (0)621 501 2098
4. Bevollmächtigter / Authorised representative / Contact du mandataire:
Nicht anwendbar / Not applicable / Non applicable
5. System(e) gemäß AVCP* / System(s) of AVCP* / Système(s) d'AVCP*:
System 1 für Brandverhalten / System 1 for Reaction to fire / Système 1 pour la réaction au feu
System 3 für die anderen Eigenschaften / System 3 for other characteristics / Système 3 pour les autres caractéristiques
- 6a. Europäische Norm / European standard / Norme européenne
EN 14303 : 2013
Notifizierte Stelle / Notified body / Organisme notifié
0751
FIW München, Lochhamer Schlag 4, D-82166 Gräfelfing
- 6b. Europäische Technische Bewertung / European Technical Assessment / Évaluation Technique Européenne:
Nicht anwendbar / Not applicable / Non applicable

* Siehe auch EN 14303 : 2013 und EN 13172 : 2012

7. Erklärte Leistung gemäß / Declared performance according to / Performances déclarées selon:
EN 14303:2013, Tabelle / Table / Tableau ZA.1

Wesentliche Merkmale / Essential characteristics / Caractéristiques essentielles		Leistung / Performance / Performances	
Produkt / Product / Produit		ML 3 CLIMCOVER Lamella Mat	ML-DT TECH Lamella Mat 2.0
System der Typprüfung / System of type testing / Système d'essais de type		1	
Dicke / Thickness / Epaisseur (a)	(mm) Grenzabmaß / Tolerance / Tolérance	20 - 120 T4	50 - 100 T4
Brandverhalten / Reaction to fire / Réaction au feu (b)		A1	A2-s1,d0
Schallabsorptionsgrad / Acoustic absorption index / Coefficient d'absorption acoustique	Schallabsorption / Sound absorption / Absorption acoustique	NPD	
Wärmedurchlasswiderstand / Thermal resistance / Résistance thermique	0°C	0,036	-
	50°C	0,044	0,045
	100°C	0,056	0,054
	150°C	0,072	0,065
	200°C	0,091	0,079
	300°C	-	0,120
	400°C	-	0,180
	500°C	-	-
Wasserdurchlässigkeit / Water permeability / Perméabilité à l'eau	Wasseraufnahme / Water absorption / Absorption d'eau (d)	NPD	
Wasserdampfdurchlässigkeit / Water vapour permeability / Perméabilité à la vapeur d'eau	Wasserdampfdiffusionswiderstand / Water vapour diffusion resistance / Résistance à la diffusion de vapeur d'eau	MV2	
Druckfestigkeit / Compressive strength / Résistance à la compression	Druckspannung oder Druckfestigkeit für ebene Produkte / Compressive stress or compressive strength for flat products/ Contrainte en compression ou résistance à la compression pour les produits plats	NPD	CS(10)10
Abgabe korrosiver Stoffe / Rate of release of corrosive substances / Taux d'émission de substances corrosives	Geringe Mengen von wasserlöslichen Ionen und pH-Wert / Trace quantities of watersoluble ions and the pH-value / Quantités traces d'ions solubles dans l'eau et valeur du pH	NPD	CL10

Produkt / Product / Produit		ML 3 CLIMCOVER Lamella Mat	ML-DT TECH Lamella Mat 2.0
Abgabe gefährlicher Stoffe an das Gebäudeinnere / Release of dangerous substances to the indoor environment / Taux d'émission de substances dangereuses pour l'environnement intérieur	Abgabe gefährlicher Stoffe / Release of dangerous substances / Émission de substances dangereuses	NPD (c)	
Glimmverhalten / Continuous glowing combustion / Combustion avec incandescence continue			
Dauerhaftigkeit des Wärmedurchlass- widerstandes unter Einfluss von Alterung/ Abbau/ hohen Temperaturen / Durability of thermal resistance against ageing/ degradation/ high temperature / Durabilité de la résistance thermique par rapport au vieillissement / à la dégradation/ aux hautes températures	Oberer Anwendungsgrenztemperatur / Maximum service temperature / Température maximale de service	ST(+)260	ST(+)400

NPD: Keine Leistung festgelegt / No Performance Determined / Performance non déterminée

(a)

Lieferbare Dicken siehe technisches Datenblatt / Thicknesses available see technical data sheet / Epaisseurs disponibles voir fiche technique

(b)

Dauerhaftigkeit / Durability / Durabilité {

Das Brandverhalten und die Wärmeleitfähigkeit von Produkten aus Mineralwolle verschlechtert sich nicht im Laufe der Zeit. Die Euroklassen-Einteilung des Produkts bezieht sich auf den Gehalt an organischen Bestandteilen, die sich nicht mit der Zeit erhöht. Zur Wärmeleitfähigkeit haben Erfahrungen gezeigt, daß die Faserstruktur stabil bleibt und das relative Porenvolumen keine anderen Gase als Luft enthält. Bei hohen Temperaturen erfolgt keine Verschlechterung des Brandverhaltens bei Produkten aus Mineralwolle. Die Einstufung des Produkts in eine bestimmte Euroklasse bezieht sich auf den Gehalt an organischen Bestandteilen, der bei hohen Temperaturen gleich bleibt oder sich verringert. /

The fire performance and thermal conductivity of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time. Experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air. The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature. The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature. /

Le comportement au feu et la conductivité thermique de la laine minérale ne se détériore pas avec le temps. La classification Euroclasse du produit est liée à la teneur en matières organiques, qui ne peut pas augmenter avec le temps. L'expérience a montré que la structure de fibre est stable et que la porosité ne contient pas d'autre gaz que l'air de l'atmosphère. Le comportement au feu de la laine minérale ne se détériore pas avec les hautes températures. La classification Euroclasse du produit est liée à la teneur en matières organiques qui reste constante ou diminue avec les hautes températures. La classification Euroclasse du produit est liée à la teneur en matières organiques qui reste constante ou diminue avec les hautes températures.

(c)

Ein europäisches Prüfverfahren wird zurzeit erarbeitet. Sobald das Prüfverfahren zur Verfügung steht, wird diese Norm entsprechend geändert werden. / A European test method is under development and the standard will be amended when this is available. / Une méthode d'essai est en cours d'élaboration et lorsqu'elle sera disponible, la norme sera modifiée

(d)

Bei Lieferung in der Qualität silikonfrei „si-frei“ entfällt der Bezeichnungsschlüssel „WS1“ / If delivered in quality silicon free „si-free“, the designation code „WS1“ is not used / Lors de livraison en qualité sans silicone „si-frei“, le code de designation „WS1“ n'est pas utilisé.

(e)

Bei Lieferung in der Qualität „(AS)“ ist der Gehalt an wasserlöslichen Chloridionen ≤ 10 ppm gemäß EN 13468 / If delivered in quality „(AS)“, the amount of water-soluble chloride ions is ≤ 10 ppm acc. to EN 13468 / Lors de livraison en qualité „(AS)“, la quantité d'ions chlorures solubles dans l'eau est ≤ 10 ppm conformément à la norme EN 13468.

(f)

Bei Lieferung in der Qualität „si“ enthält das Produkt Silikone / If delivered in quality „si“, the product contains silicones / Lors de livraison en qualité „si“, le produit comporte silicones.

8. Die Leistungen der Produkte gemäß den Nummern 1 und 2 entspricht den erklärten Leistungen nach Nummer 9. Verantwortlich für die Erstellung dieser Leistungserklärung ist allein der Hersteller gemäß Nummer 4. /

The performances of the products identified in points 1 and 2 are in conformity with the declared performances in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. /

Les performances des produits identifié aux points 1 et 2 sont conformes aux performances déclarées indiquées au point 9. Cette déclaration des performances est établie sous la seule responsabilité du fabricant identifié au point 4.

Ludwigshafen, 06.02.2015


.....
(J. Trappmann,
Leiter Arbeitssicherheit, Umwelt, Sicherheit /
Director environment, health, safety /
Directeur environnement, santé, sécurité)


.....
(Dr. J. Perner, Qualitätsmanagement /
Senior quality management /
Responsable qualité)

**EG-Konformitätserklärung / EC declaration of conformity /
déclaration «CE» de conformité**

In Übereinstimmung mit der Richtlinie 2014/90/EU über Schiffsausrüstung / issued in accordance with the directive 2014/90/EU on marine equipment / conformément à directive 2014/90/UE relative aux équipements marins

1. Einmalige Kenn-Nummer des Produkts / unique identification of the product / identification unique du produit:

DoC_114.527

2. Name und Anschrift des Herstellers / name and address of the manufacturer / nom et adresse du fabricant:

SAINT-GOBAIN ISOVER G+H AG
Bürgermeister-Grünzweig-Strasse 1
D-67059 Ludwigshafen

3. Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller / this declaration of conformity is issued under the sole responsibility of the manufacturer / la présente déclaration de conformité est établie sous la seule responsabilité du fabricant :

SAINT-GOBAIN ISOVER G+H AG

4. Gegenstand der Erklärung / Object of the declaration / Objet de la déclaration :

ML3; CLIMCOVER Lamella Mat;
ML-DT; TECH Lamella Mat 2.0

5. Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Gemeinschaft / the object of the declaration described above is in conformity with the relevant community armonisation legislation / L'objet de la déclaration décrit ci-dessus est conforme à la législation communautaire d'harmonisation applicable:

Directives 2014/90/EU + 2015/559/EU

6. Angabe der einschlägigen harmonisierten Normen, die zugrunde gelegt wurden, oder Angabe der Spezifikationen, für die die Konformität erklärt wird / references to the relevant harmonised standards used or references to the specifications in relation to which conformity is declared / références des normes harmonisées pertinentes appliquées ou des spécifications par rapport auxquelles la conformité est déclarée:

IMO Resolution MSC.307 (88)-(FTP-Code 2010) 8.3

IMO Resolution MSC.61(67)-(FTP-Code), Annex 1, Part 1

IMO Resolution MSC.61(67)-(FTP-Code), Annex 1, Part 5

7. Die notifizierten Stellen haben folgende Bescheinigungen ausgestellt / the notified bodies issued the certificates / les organismes notifiés ont établi les attestations:

BG Verkehr Dienststelle Schiffssicherheit; 0736

Module D: SEE 15039

BG Verkehr Dienststelle Schiffssicherheit; 0736

Module B: 118.147 + 114.527 + 1.Supplement

8. Zusatzangaben / additional information / informations complémentaires:

Für die bestimmungsgemäße Installation ist der Verarbeiter verantwortlich. / The intended installation is in the responsibility of the installer. / L'installateur doit veiller à une installation conformément aux dispositions en vigueur.

EG-Baumusterprüfbescheinigung + Zeichnungen / EC type-examination certificate + drawings / attestation d'examen CE de type + dessins:

www.isover.de/le/Lamella_Mats-002.pdf

Unterzeichnet für und im Namen von / signed for and on behalf of / signé par et au nom de: Saint-Gobain ISOVER G+H AG,

Ludwigshafen

31.08.2016

ppa. Jürgen Trappmann (Leiter Arbeitssicherheit, Umwelt, Sicherheit /
Director environment, health, safety /
Directeur environnement, santé, sécurité)

i.V. Dr. Jens Perner (Qualitätsmanagement /
Senior quality management /
Responsable qualité)



European notified body
Identification number 0736

EC-Type Examination (Module B) Certificate

Certificate No. **114.527**

U.S. Coast Guard Approval No. **164.109/EC0736/114.527**

Name and address of the manufacturer: SAINT-GOBAIN ISOVER G+H AG
Bürgermeister-Grünzweig-Strasse 1
67059 Ludwigshafen (Germany)

Date of issue: **03.02.2014**

Annex A.1 Item No & Item designation: **A.1/3.13 – Non-combustible materials**

Product designation: Non-combustible insulation material

Product Type: **ISOVER glass wool intermediates for lamella mats ML 3 and ML-DT**

Intended purpose: Non-combustible material for sea going vessels complying with SOLAS 74/88 Reg. II-2/3, II-2/5 and II-2/9, as amended, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7.

Testing based on (Specific standard): IMO Resolution MSC.307 (88)-(FTP-Code 2010)*
*) = not applicable accordance chapter 8.3 IMO Resolution MSC.307 (88)
IMO Resolution MSC.61(67)-(FTP-Code), Annex 1, Part 1

Remarks: see overleaf

The type tested was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2012/32/EU subject to any conditions in the schedule (part of this certificate).

This certificate may only be used in connection with module(s) **D, E or F** of this directive.

Expiry date: **02.02.2019**



Signature (Bork)

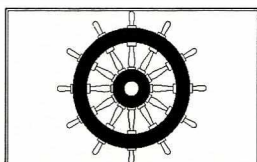


Installed equipment stays approved beyond the validity date until it is revoked!

Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Note 2: Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.

Note 3: The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.



xxxx/yy

Note 4: "Wheelmark" Format

YY Last two digits of year mark affixed.

XXXX Notified Body number undertaking surveillance module

Technical data / approved drawings and additional conditions and remarks:

1.

This EC-Type Examination Certificate is based on the following documents:

- Test Report No. NN06/4750.1 issued by "Brandversuchshaus Hamburg", 22767 Hamburg (DE), on 18.05.2006.
- Test Report No. NN06/4750.2 issued by "Brandversuchshaus Hamburg", 22767 Hamburg (DE), on 18.05.2006.
- Letter of confirmation of the "Brandversuchshaus Hamburg" (Dipl.- Ing. A. Pavlik) dated 10.11.2008.

2.

The nominal density of the insulation material is 25 - 55 kg/m³.

3.

Colour: Yellow

4.

The non-combustible material used on board of sea-going vessels shall comply in every respect with the non-combustible material which has been tested.

5.

The non-combustible material shall be marked in accordance with Article 11 of the Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended.

6.

This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 29.12.2008 with a running time up to 31.12.2013.

7.

This EC-Type Examination Certificate may only be published or transmitted unabridged.

Note:

This product has been assigned a U.S. Coast Guard approval no. (USCG number) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval 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.

The U.S. Coast Guard approval number is:

164.109/EC0736/114.527

The equipment manufacturer has to be mark the equipment with this U.S. Coast Guard approval number.



European notified body
Identification number 0736



DGUV Test

Prüf- und Zertifizierungsstelle

BG Verkehr

Dienststelle Schiffssicherheit

1. Supplement to EC-Type Examination Certificate

Certificate-No. 114.527

dated 03.02.2014

Product designation: Non-combustible insulation material
Item designation: A.1/3.13 - Non-combustible materials
Type: ISOVER glass wool intermediates for lamella mats ML 3 and ML-DT

Manufacturer: SAINT-GOBAIN ISOVER G+H AG
Bürgermeister-Grünzweig-Strasse 1
67059 Ludwigshafen (Germany)

Reference: Letter of the company SAINT-GOBAIN ISOVER G+H AG (Dr. Perner) dated 06.02.2015

Alteration/Addition: The above-mentioned non-combustible material may also be distributed with following type designation:

- CLIMCOVER Lamella Mat (alternatively for ML 3)
- TECH Lamella Mat 2.0 (alternatively for ML-DT)

The approved type with the above certificate number may be further manufactured and sold with the alterations/additions stated above.

The other regulations of the EC-Type Examination Certificate are not affected by this supplement.

This Supplement to EC-Type Examination Certificate will be expired on: **02.02.2019**

Hamburg, 04.05.2015




Signature (Bork)





European notified body
Identification number 0736



DGUV Test

Prüf- und Zertifizierungsstelle
BG Verkehr
Dienststelle Schiffssicherheit

EC-Type Examination (Module B) Certificate

Certificate No. **118.147**

U.S. Coast Guard Approval No. **164.112/EC0736/118.147**

Name and address of the manufacturer: Saint-Gobain Isover G+H AG
Bürgermeister-Grünzweig-Straße 1
67059 Ludwigshafen (Germany)

Date of issue: **20.11.2012**

Annex A.1 Item No & Item designation **A.1/3.18 a – Surface materials and floor coverings with low flame-spread characteristics (decorative veneers)**

Product designation: Surface material with low flame-spread characteristics

Product Type: **ISOVER aluminium fibreglass composite**

Intended purpose: Surface material for sea going vessels complying with SOLAS 74/88 Reg. II-2/3, II-2/5, II-2/6 and II-2/9, as amended, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Circ. 1120.

Testing based on (Specific standard): IMO Resolution MSC.61(67)-(FTP-Code), Annex 1, Part 2* and Part 5, Annex 2
IMO MSC/Circ. 1120, ISO 1716 (2002)*
*) = not applicable

Remarks: see overleaf

The type tested was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2011/75/EU subject to any conditions in the schedule (part of this certificate).

This certificate may only be used in connection with module(s) **D, E or F** of this directive.

Expiry date: **30.11.2017**



Signature (Niehus)

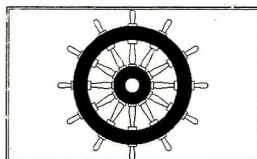


Installed equipment stays approved beyond the validity date until it is revoked!

Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Note 2: Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.

Note 3: The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.



xxxx/yy

Note 4: "Wheelmark" Format

YY Last two digits of year mark affixed.

XXXX Notified Body number undertaking surveillance module

Technical data/approved drawings and additional conditions and remarks:

1.
This EC-Type Examination Certificate is based on the following documents:
 - Test report 2006-1129-1 of the "Brandhaus Höchst", 65926 Frankfurt am Main (D), dated 28.02.2006
 - Letter of the "Bodycote Warrington Brandhaus" (Mr. H. Bräuer) with the reference BWB-IMO-2008, dated 14.08.2008
 - Test Report no. 2011-1893-2 of "Exova Warringtonfire", 65926 Frankfurt (D), dated 12.09.2011
2.
The material is considered to comply with the requirements of the FTP-Code, Annex 1, Part 2 (smoke and toxicity test) without further testing.
3.
The structure of the material is as follows:

Type 1: The weight of the aluminium fibreglass composite is approx. 69 g/m^2 ,
the thickness of the aluminium fibreglass composite is approx. 0.14 mm.
The wet coverage of the glue is approx. 40 g/m^2 .

or

Type 2: The weight of the aluminium fibreglass composite is approx. 85 g/m^2 (incl. PE)
the total thickness of the aluminium fibreglass composite is approx. 50 μm .
Type of adhesive = PE as hot melt adhesive (approx. 20 g/m^2).
4.
The material installed on board ships shall comply in every respect with the material which has been tested.
5.
The equipment shall be marked in accordance with Article 11 of the Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended.
6.
This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 08.02.2012 with a running time up to 28.02.2017.
7.
This EC-Type Examination Certificate may only be published or transmitted unabridged.

Note:

This product has been assigned a U.S. Coast Guard approval no. (USCG number) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval 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.

Remark:

The surface material with low flame-spread characteristics does not apply to pipes, pipe coverings or cables.

The U.S. Coast Guard approval number is:

164.112/EC0736/118.147

The equipment manufacturer has to mark the equipment with this U.S. Coast Guard approval number.