Statement of Approval



ANNEX

Approval No.:

WP 1410006 HHH

Date:

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Reference Documents

Technical specifications deposited at Germanischer Lloyd Head Office

Assessed Documentation - Technical Data Sheets

- Test Report for static tests No. B681/12.2 issued by IMA Dresden and

dated on 2014-02-24.

- Test Report for fatigue testing No. C 2012-XX issued by KTH Stockholm and

dated on 2012-12-03.

Fields of Application

Construction of FRP sandwich laminates of components, at the condition that the resins comply with the applicable requirements of the Germanischer Lloyd

and are compatible to the core material.

Approved Variants

SAERfoam® O PU (35/yy) 25/35

±45° glass fibre reinforcement bridges in 2 directions 0:

PU (35/yy): Polyurethane foam core with a density of 35 kg/m³ and a

thickness between 15 and 30 mm.

2.5 glass bridges/cm² and Saertex ID-code related to the mass of 25/35:

dry bridges

Confirmed Values

For the material the following average values (minimum values within brackets) have been verified by testing:

Variant	Compr. Strength	Compr. Modulus	Tensile Strength	Shear Strength	Shear Modulus	Shear Strength (4)	Shear Modulus (4)
SAERfoam O	4,77	185,2	2,2	2,3	168,1	2,2	171,3
PU (35/20) 25/35	(4,39)	(156,6)	(2,0)	(2,1)	(154,9)	(2,0)	(166,5)
SAERfoam O	2,85	139,46	1,4	1,4	126,4	1,2	118,5
PU (35/30) 25/35	(2,55)	(133,4)	(1,3)	(1,2)	(120,3)	(0,9)	(109,3)

(1) Compressive properties according to ISO 844 in MPa, tested perpendicular to the plane at 23°C.

(2) Tensile strength according to ASTM C 297 in MPa.

(3) Shear properties according to ISO 1922 in MPa, tested parallel to the plane in 0° direction.

(4) Shear properties according to ISO 1922 in MPa, tested parallel to the plane in 90° direction.

Limitations

Any significant changes in design and/or quality of the material may render the approval invalid.

Remarks

None

End of Annex

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The material described below complies with the applicable requirements as given in the Rules and Regulations of Germanischer Lloyd. On this basis the material is

approved as

Sandwich Core Material

for the construction of components provided that the recommendations for use as specified by the producer are observed.

Type

SAERfoam® O

Description

Lightweight Structural Core Material

Producer

SAERTEX France SAS 2 parc lot ZA Arandon, 38510 Arandon

France

Normative Reference

Rules for Classification and Construction, II - Material and Welding Technology Part 2 Non-Metallic Materials

This document consists of this page and a one-page annex which is integral part of the approval.

This Statement of Approval is valid until 2018-03-05.

Hamburg, 2014-03-06

Germanischer Lloyd

Guido Michalek

Joachim Renbein