

# Statement of Approval



Approval No. **WP 1010001 HH**

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 **AC Series**

Description **PET Foam**

Producer **Armacell Benelux S.A.  
Rue des Trois Entités 9  
B-4890 Thimister-Clermont  
Belgium**

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

Remarks **Fulfills the GL requirements with respect to the fatigue behavior.**

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 2014-01-26.

Hamburg, 2010-01-27

## Germanischer Lloyd

Sven Koller

i.A. Guido Michalek

# Statement of Approval



## ANNEX

Date: 2010-01-27

Approval No. WP 1010001 HH

Page 1 of 1

Reference Documents Technical specifications deposited at Germanischer Lloyd Head Office.

Assessed Documents - Technical Data Sheet  
- Test Report No. C2009 13-15 issued by KTH Stockholm, dated 2009-10-16

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 none

Confirmed Values For the material the following minimum values have been specified by the manufacturer:

Variant	Nominal Density	Density (1)	Compr. Strength (2)	Compr. Modulus (2)	Compr. Modulus (3)	Shear Strength (4)	Shear Modulus (4)
AC 80	80,0	84,82	1,08	55,30		0,59	16,60
AC 100	100,0	100,42	1,56	63,50		0,77	23,40
AC 115	115,0	113,37	1,82	64,10		0,92	27,30

(1) Density according to ISO 845 in kg/m<sup>3</sup>.

(2) Compressive behaviour according to ISO 844 in MPa.

(3) Compressive modulus determined according to ASTM D 1621-73, B in MPa.

(4) Shear behaviour according to ISO 1922 in MPa.

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

End of Annex

Germanischer Lloyd *GL*