

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Sandwich Core Materials

with type designation(s)
Divinycell PN-Series

Issued to

DIAB S.p.A.
Longarone BL, Italy

is found to comply with
DNV GL class programme DNVGL-CP-0084 – Type approval – Sandwich core materials

Application :

Manufacturing of sandwich-structured composite.

Issued at **Hamburg** on **2017-05-18**

This Certificate is valid until **2019-11-15**.

DNV GL local station: **Venice**

for **DNV GL**

Approval Engineer: **Guido Michalek**

Thorsten Lohmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

PET Foam

Approved variants

- PN 65
- PN 80
- PN 115

Material Properties

Variant	Density (1)	Compr. Strength (2)	Compr. Modulus (2)	Shear Strength (3)	Shear Modulus (3)
PN 65	65 (60)	0.70 (0.55)	65 (42)	0.45 (0.35)	12.0 (10,0)
PN 80	80 (75)	1.00 (0.80)	80 (65)	0.60 (0.50)	20 (15)
PN 115	115 (110)	1.70 (1.35)	115 (85)	0.95 (0.80)	31 (23)

(1) Nominal Density according to ISO 845 in kg/m³

(2) Compressive properties in accordance with ISO 844:2014, procedure B in MPa.

(3) Shear properties in accordance with ISO 1922 in MPa.

The values are average values (minimum values within brackets) and verified by testing.

Limitation

The foam complies with the applicable requirements of DNV GL and is compatible to the laminating resin and/or adhesive. Any significant changes in design and / or quality of the material will render the approval invalid.

Type Approval documentation

- Technical Data Sheet
- Test Report issued by DIAB Longarone, based on results witnessed by DNV GL, dated on 2015-09-23 and 2017-04-17.

Assessed production site

Via Alemagna 29
32013 Fae di Longarone BL
Italy

Periodical assessment

A production site with a valid Approval of Manufacturer (AoM) certificate for material in question is exempted from the obligation concerning retention and renewal assessments.

For manufacturer without a valid AoM a periodical assessment after 2.5 years and at renewal after 5 years is required.

Remarks

This certificate supersedes the Type Approval WP 1510014 HH.

END OF CERTIFICATE