DNV·GL

Certificate No:
TAK000012Y

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Sandwich Core Materials

with type designation(s)
PVC Mycell H - Series

Issued to
MARICELL S.R.L.
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 **2017-12-19**
This Certificate is valid until **2020-12-31**.
DNV GL local station: **Venice**

Approval Engineer: **Guido Michalek**

for **DNV GL**

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.

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Job Id: **262.1-026077-1**
Certificate No: **TAK000012Y**

Product description

A cross-linked, closed-cell PVC (Polyvinyl Chloride)-foam core material for sandwich construction.

Approved variants

- Mycell H060
- Mycell H080

Material Properties

Variant	Nominal Density (1)	Density Range (1)	Compr. Strength (2)	Compr. Modulus (2)	Shear Strength (3)	Shear Modulus (3)	Tensile Strength (4)	Tensile Modulus (4)
H060	60	54 - 69	1.01 (0.84)	65 (50)	0.86 (0.73)	21 (17)	1.98 (1.15)	97 (22)
H080	80	72 - 92	1.63 (1.44)	96 (74)	1.26 (1.09)	29 (24)	2.84 (1.91)	138 (58)

(1) Density according to ISO 845 in kg/m³
(2) Compressive properties according to ISO 844:2014, procedure B in MPa.
(3) Shear properties according to ISO 1922 in MPa.
(4) Tensile properties according to ASTM D 1623 in MPa.

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

Heat resistance temperature: +47°C

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 No.11226, issued by DNV GL accepted testing laboratory (Approval No. GL-LZ 2312 HH) of Gurit Americas, dated 2017-11-24.
- Workshop Inspection Report issued by DNV GL Venice, dated 2017-10-24.
- Quality documentation

Assessed production site

Maricell S.r.l.
Via Villanova 15
32013 Longarone
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

ASTM D 1621-73 procedure B and ISO 844:2014 procedure B work on the same technical principle and provide comparable test results.

ASTM C 273 and ISO 1922 work on the same technical principle and provide comparable test results.

END OF CERTIFICATE