



# Type Approval Certificate

[ Sandwich Core Materials ]

**Initial Approval** 9 January 2024

**Applicant** Diab International AB  
Drottninggatan 7, 5th floor 252 21, Helsingborg, Sweden

**Product Description** 1) Kind : PVC foam  
2) Type : Divinycell H200  
3) Manufacturing Site : Divinycell H200  
(Diab AB : Norra Sofieroleden 8, 312 32 Laholm, Sweden)

See "Appendix 1"

**Approval Condition** See "Appendix 1"

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt 2. Ch 2. Annex 2-8 of the Guidance relating to the Rules for Classification of Steel Ships  
Ch 3. Sec 2 of the Rules for Classification of Fibreglass Reinforced Plastics Ships  
Ch 3. Sec 28 of Guidance for Approval of Manufacturing Process and Type Approval, etc.

This Certificate is valid until 8 January 2029

Issued at Busan, Korea on 9 January 2024



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME24001149594) and certificate No.(CPH37821-GF002).



**KOREAN REGISTER**

*General Manager of  
Marine & Ocean Equipment Team*

**Note :** 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.  
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.  
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.  
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

## Product Description and/or Approval Condition

Date of Issue : 9 January 2024

### A. Product Description

#### 1. Product Specification

- 1) A resilient, closed cell foam sheet consisting of a polymeric alloy of a cross-linked aromatic polyurea and a linear vinyl polymer.  
- Divinycell H200
- 2) The following manufacturer's specified values have been verified by type testing.

Property	Test Method	Unit	H200	
Compressive strength	ASTM D 1621	MPa	Nominal	5.4
			Minimum	4.5
Compressive modulus	ASTM D 1621-B-73	MPa	Nominal	310
			Minimum	265
Tensile strength	ASTM D 1623	MPa	Nominal	7.1
			Minimum	6.3
Tensile modulus	ASTM D 1623	MPa	Nominal	250
			Minimum	210
Shear strength	ASTM C 273	MPa	Nominal	3.5
			Minimum	3.2
Shear modulus	ASTM C 273	MPa	Nominal	73
			Minimum	65
Shear strain	ASTM C 273	%	Nominal	45
			Density	ISO 845
			Minimum	180

\* Values measured at 23° C

#### 2. Approved Drawings and Documents

- Technical data - Divinycell H (March 2023)

#### 3. Test Reports, etc.

- 1) Test report No. KR - Witness test for Divinycell H200 (total 21 pages) witness by the surveyor dated 12 Dec. 2023 issued by Diab AB, Laholm Sweden.
- 2) Test report No. Type approval testing of Divinycell H60-H200 (Total 28 pages) date 14 Feb. 2018 issued by Diab AB, Laholm Sweden.

### B. Approval Condition

#### 1. Application & Limitation

- Core material for sandwich construction.

#### 2. Individual Product Cert. and Drawing Approval Requirement

- Individual Product Certification is not required.

#### 3. Marking

- The product or packing is to be marked with manufacturer name and type designation on a suitable position.

#### 4. Others

- N/A

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