



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

19-HS1930291-PDA  
16-Dec-2019  
15-Dec-2024  
Houston SED Structures -  
Commercial

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**GURIT AMERICAS INC.**

located at

**555 BOUL POIRIER, MAGOG, Canada, J1X 7L1**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product Structural Core (Foam)**

**Model Corecell M-Foam: M60, M80, M100, M130, M200**

This Product Design Assessment (PDA) Certificate remains valid until 15/Dec/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

*Daniel Hyun SON*

Hyun Young Son, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**GURIT AMERICAS INC.**

555 BOUL POIRIER

MAGOG QUEBEC

Canada J1X 7L1

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Structural Core (Foam)**Model:** Corecell M-Foam: M60, M80, M100, M130, M200**Intended Service:**

A Sandwich Core Material for Reinforced Plastic Vessels and Structures.

**Description:**

CoreCell is a linear polymer structural foam from the styrene-acrylonitrile (SAN) polymer.

CoreCell is a closed cell, rigid foam suitable for a wide range of demanding structural applications and different composite manufacturing processes.

CoreCell is also fully compatible with polyester, vinylester, and epoxy resins, as well as all commonly used epoxy prepreg systems.

**Rating:**

Corecell is produced in the following density ranges:

M60: 61-69 kg/m<sup>3</sup> (3.8-4.3 lb/ft<sup>3</sup>)M80: 81-89 kg/m<sup>3</sup> (5.1-5.6 lb/ft<sup>3</sup>)M100: 100-115 kg/m<sup>3</sup> (6.2-7.2 lb/ft<sup>3</sup>)M130: 130-150 kg/m<sup>3</sup> (8.1-9.4 lb/ft<sup>3</sup>)M200: 185-215 kg/m<sup>3</sup> (11.5-13.4 lb/ft<sup>3</sup>)**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Corecell SDS (English North America) June 2012, MSDS, Revision: -, Pages: 1

TDS Gurit Corecell M-Foam, Corecell M-Foam Brochure, Revision: -, Pages: 1

Drawing No. HS1318706, Declaration of Conformity Letter, Revision: -, Pages: 1

**Terms of Validity:**

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**STANDARDS****ABS Rules:**

2019 Rules for Materials and Welding – Aluminum and Fiber Reinforced Plastics (FRP) 2-6-1/5.1

2019 Rules for Conditions of Classification 1-1-4/7.7, 1-1-A3, 1-1-A4

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**National:**

2016 ASTM D-1621-16

2019 ASTM C-273/C273M-19

2017 ASTM D1623-17

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA