



# NIPPON KAIJI KYOKAI

## Certificate

OF

## APPROVAL

Certificate No.  
TA20144E(R)

Item : Insulation material for refrigerating chamber  
Product name : GRASRON · WOOL  
Specifications : See Annex.  
Applicant : Asahi Fiber Glass Co., Ltd.  
3-6-3 Kandakaji-cho, Chiyoda-ku, Tokyo, Japan  
Manufacturer : See Annex.

THIS IS TO CERTIFY that the above product type has been approved by Nippon Kaiji Kyokai with type approval No. 90RMC-G3 and that products of the type will be accepted for use on ships classed with the Society as complying with the relevant requirements of the Society's *Rules for the Construction and Survey of Cargo Refrigerating Installations of Ships*.

This certificate is valid until 31 March 2025.

Issued at Tokyo on 4 February 2020.

NIPPON KAIJI KYOKAI

H. Kobayashi

General Manager

Material and Equipment Department



NOTE: The design, construction and way of installation subject to attachments. Any significant changes to the product without our approval will result in this certificate becoming null and void.



1. Manufacturer

Asahi Fiber Glass Co., Ltd. Shonan Plant

6-11-1, Ichinomiya, Samukawa-cho, Koza-gun, Kanagawa, Japan

2. Specifications

PRODUCT TYPE	DENSITY (kg/m <sup>3</sup> )	MAX. THERMAL CONDUCTIVITY (W/mK at 20±5°C)
GLASRON WOOL		
GW10	10	0.0478
GW12	12	0.0449
GW16	16	0.0408
GW20	20	0.0383
GW24	24	0.0365
GW32	32	0.0348
GW40	40	0.0338
GW48	48	0.0334
GW64	64	0.0329
GWP	48	0.0334