



## EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. **MED277717CS/002**

***This is to certify*** that RINA Services S.p.A. did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of (EU) 2017/306.

*MED Item N°*

**MED/3.18a**

*Description*

**Surface materials and floor coverings with low flame-spread characteristics: (a) decorative veneers**

*Type*

**Saglan SO-R A**

*Applicant*

**SAGER AG**

DORNHUGELSTRASSE

CH-5724 Durrenasch

SWITZERLAND

*Testing standards*

**IMO Res. MSC.307(88)-(2010 FTP Code)**

*Reference standards*

**Chap. II-2 and X of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment**

*Issued in Genoa on*  
September 29, 2017

*This Certificate is valid until*  
September 28, 2022

*This Certificate consists of this sheet plus an attachment*

**Enrico Cabella**

RINA Services S.p.A.

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*Manufacturer*  
**SAGER AG**

*Place of Manufacturer*  
DORNHUGELSTRASSE  
CH-5724 Durrenasch  
SWITZERLAND

**Product description**

Aluminium foil reinforced with glass grid bonded by effect of polythene to non combustible support having density greater than  $14 \text{ kg/m}^3$ .

When bonded to glass wool Saglan SO-R or Saglan SO-R crimped as per Certificate Nr. MED047917CS/001 the possible variants are as described in the table below.

- Thickness range (mm) from 14 to 120
- Nominal density range ( $\text{kg/m}^3$ ) from 14 to  $40 \pm 10 \%$
- Maximum organic content 4.68 %

Product	Sea Offshore	Delivery form - roll	Coating Aluminium	Density glass wool*	Field of application
Saglan SO-R A SL 7	SO	-R	A	SL	7
Saglan SO-R A L 7	SO	-R	A	L	7
Saglan SO-R A ML 7	SO	-R	A	ML	7
Saglan SO-R A M7	SO	-R	A	M	7
Saglan SO-R A MP 3	SO	-R	A	MP	3
Saglan SO-R A MH 3	SO	-R	A	MH	3
Saglan SO-R A SL 9	SO	-R	A	SL	9
Saglan SO-R A L 9	SO	-R	A	L	9
Saglan SO-R A ML 9	SO	-R	A	ML	9
Saglan SO-R A M9	SO	-R	A	M	9
Saglan SO-R A MP 9	SO	-R	A	MP	9
Saglan SO-R A MH 9	SO	-R	A	MH	9

\* SL= super light ( $14 \text{ kg/m}^3$ ) comfort = 7

L= light ( $20 \text{ kg/m}^3$ ) acoustic = 3

ML= medium light ( $25 \text{ kg/m}^3$ ) crimped = 9

M= medium ( $30 \text{ kg/m}^3$ )

MP= medium plus ( $35 \text{ kg/m}^3$ )

MH= medium heavy ( $40 \text{ kg/m}^3$ )



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**Fields of application**

As finishing material for all exposed interior and concealed or inaccessible surfaces.

On the basis of the value of the total heat release ( $Q_t$ ) and on the basis of the value of the peak heat release ( $q_p$ ) the material is deemed not generating excessive quantities of smoke nor toxic products in fire according to Annex 2 IMO 2010 FTP Code.

**Tests carried out**

Tests as per LNE Test Laboratory report No. P118251 - DE/2 dated 29 November 2013 and tests as per RINA Test Laboratory report No. 2017CS012777/2 dated 27 September 2017 issued according to IMO 2010 FTP Code Part 5.

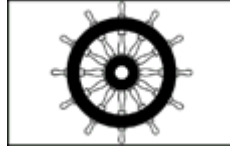
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*The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body*



**XXXX/YYYY**

**"WHEELMARK FORMAT"**

XXXX      *Notified Body number undertaking surveillance module*

YY         *Last two digits of year mark affixed*

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***General conditions for the approval***

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

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**Enrico Cabella**

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