

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

## This is to certify:

**That the Primary deck coverings**

with type designation(s)  
**Swedac PVP/DG-U1**

Issued to

**Swedac, Swedish Acoustic Products Innovation AB  
ANGERED, Sweden**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2015/559,**

**Annex A.1, item No. A.1/3.1 and Annex B, Module B in the Directive; SOLAS 74 as amended,  
Regulation II-2/4, II-2/6 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code**

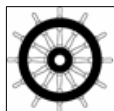
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-11-10.**

Issued at **Høvik** on **2016-11-14**

DNV GL local station:  
**Gothenburg**

Approval Engineer:  
**Helge Bjørnara**



Notified Body  
No.: **0575**

for **DNV GL AS**

**Vidar Dolonen**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



## Product description

Swedac PVP/DG-U1

is a system composed of:

- top steel plate: thickness  $\geq 3.0$  mm,
- Viscoelastic layer "DG-U1": thickness: 1.0 - 1.5 mm,
- bottom steel plate: thickness  $\geq 2.0$  mm,

Above product shall be laid on top of a mineral wool slab with a nominal thickness  $\geq 50$  mm and with a nominal density at least  $140 \text{ kg/m}^3$ .

"DG-U1" is a 2 component polyurethane with nominal density  $1350 \text{ kg/m}^3$  from Swedac AB, with mixing mass-ratio:

- Component A – 87%
- Component B – 13%

## Application/Limitation

Approved for use as primary deck covering, not generating excessive quantities of smoke nor toxic products in fire.

Approved for use throughout the accommodation.

Not to be used as an integrated part of horizontal class A division unless tested as such.

No gaps are allowed between top steel plates.

The mineral wool used has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Each product is to be supplied with its manual for application and maintenance.

## Type Examination documentation

### Tests carried out

Tested according to IMO FTPC Part 6 and Annex 2 item 2.2, and in compliance with IMO 2010 FTP Code Ch. 8.

### Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, MED Mark of Conformity and USCG approval number (see first page).