

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Equivalent Class A Divisions**

with type designation(s)
A-Class partition Clip wall W-B100 L, non perforated

Issued to

IKM DSC Engineering AS
HVALSTAD, Norway

is found to comply with
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations
DNV GL rules for classification – Ships
DNV GL offshore standards

Application :

Approved for use as a non-load bearing fire retarding bulkhead of class A-60.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2018-11-06**

This Certificate is valid until **2023-11-05**.

DNV GL local station: **Oslo Maritime and CAP**

Approval Engineer: **Nanna Martine Jacobsen**

for **DNV GL**

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Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

"A-Class partition Clip wall W-B100 L, non perforated"

is composed of sandwich panels, consisting of Byucksan mineral boards of thickness 100 mm (140 kg/m³). The utmost 50 mm of both ends of the panel is insulated with 100 mm thick mineral boards by KCC Corporation (240 kg/m³). The mineral boards are covered with a 0.7 mm thick galvanized steel plate on both sides. The mineral boards and steel panels are glued together with adhesive by "DAI HAN POLYMER CO. LTD". The panels are connected to each other by means of galvanized steel clip profiles of type "IW Joint Clip profile (C-101)" on both sides.

Total thickness of the panels is 100 mm.

Product is Manufactured at STACO Co., Ltd. Pusan, Korea

For further details, see the drawings mentioned under Type Approval documentation below.

Application/Limitation

Approved for use as a non-load bearing fire retarding bulkhead of class A-60.

Maximum panel size: 550 mm x 4898 mm (width x height).

The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

Any surface materials used have to be approved for smoke and toxicity and low flame-spread characteristics (IMO 2010 FTP Code Annex 1 Parts 2 and 5) when required according to relevant rules.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test report No. 17/13781-736 dated 05 October 2017 from LGAI Technological Center, S.A., Barcelona, Spain.

Drawing No. 17-13781-736-001 dated 18 april 2018 from the manufacturer.

Drawing No. DRW-037487 Rev.B dated 15 march 2017 from the manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.