

TYPE EXAMINATION CERTIFICATE

This is to certify:**That the Acoustic insulation**with type designation(s)
CMWS-B15 - Fire door

Issued to

**China Marine Windows Shipyard Co., Ltd.
Kaohsiung, Taiwan**

is found to comply with

**IMO Resolution MSC.337(91) Code on noise levels on board ships, Chapter 6.2.2
ISO 10140-2:2010 Measurement of airborne sound insulation****Application :****Weighted Sound Reduction Index, R_w = 41dB**Issued at **Hamburg** on **2018-08-22**This Certificate is valid until **2023-08-21**.DNV GL local station: **Kaohsiung**for **DNV GL**Approval Engineer: **Stefan Semrau**

**Olaf Doerk
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 Examination Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-029170-1**
Certificate No: **TAS00001MD**

Product description

Fireproof Door B15 (incl. window and Ventilation)
-Ventilation grill open-
CMWS-B15
China Marine Windows Shipyard CO., LTD.

The test element is constructed by
0.8mm Steel Plate + 6mm calcium silicate board + 21.4mm air space full of 25mm 128K ceramic fiber +
6mm calcium silicate board + 0.8mm Steel Plate
Thickness: 35mm
Size: 2097mm(H) x 1097mm(W) x 65mm(TH) / 35mm door TH

Application/Limitation

For the acoustic insulation between accommodation spaces, the airborne sound insulation properties shall be determined by laboratory tests in accordance with ISO 10140-2:2010.

Table 1 - Test Results

Frequency [Hz] (one-third octave)	Sound Reduction Index R [dB] (one-third octave)
50	-/-
63	-/-
80	-/-
100	19
125	24
160	24
200	26
250	33
315	36
400	39
500	42
630	42
800	42
1000	41
1250	42
1600	43
2000	45
2500	47
3150	51
4000	52
5000	-/-
Weighted Sound Reduction Index – R _w	41 dB

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

Type Examination documentation

Test Report No. FTL0366-A /S1070186
Test Report Issue Date 2018-03-01
Drawing No. included in the report
Test date 2018-02-12

Laboratory:
NCKU RESEARCH AND DEVELOPMENT FOUNDATION,
TAF Testing Laboratory (Registration No. TAF 2406)



Job Id: **262.1-029170-1**
Certificate No: **TAS00001MD**

Test Address:
1, Shuefu Road, Neipu, Pingtung 91201, Taiwan

Tests carried out

IMO Resolution MSC.337(91) Code on noise levels on board ships, Chapter 6.2.2
ISO 10140-2:2010 Measurement of airborne sound insulation

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. The periodical assessment shall be performed after 2 and 3,5 years as described in DNVGL-CP-0338 Section 4.