

NIPPON KAIJI KYOKAI COPY

Gertificate

OF

APPROVAL

Item	2	A-0 / 30 / 60 class pipe penetration (deck)
Product name	:	Penetration type 870
Specifications	:	See the drawings in Annex.
Applicant	:	BLÜCHER Metal A/S Pugdalvej 1, DK-7480 Vildbjerg, Denmark
Manufacturer	:	The same as the Applicant.
Testing standards	:	2010 FTP Code Annex1 / Part 3
Test reports	:	See Annex.
Limitations	:	See Annex.

THIS IS TO CERTIFY that the above type of products has been approved by Nippon Kaiji Kyokai with type approval No. 21FPA13DA, and that the products of the above type will be accepted for use onboard ships classed with the Society as complying with the relevant requirements of the Society's *Rules for the Survey and Construction of Steel Ships* and those of the *International Convention for the Safety of Life at Sea, 1974, as amended,* subject to conditional upon the manufacturers having a quality control system audited by a competent authority to ensure continuous compliance with the type approval conditions.

This certificate is valid until 15 February 2026.

Issued at Tokyo on 16 February 2021.

NIPPON KAIJI KYOKA Y. Takao

General Manager Material and Equipment Department



Certificate No. TA21161E(N)



1. Test reports

Test laboratory (Test place)	Report number	Date of issue
	PGA11316A	8 July 2020
Danish Institute of Fire and Security Technology (Jernholmen 12, DK-2650 Hvidovre, Copenhagen,	PGA11317A	12 March 2019
Denmark)	PGA11554A	15 November 2019
	PGA11555A	19 November 2019

2. Limitations

1. In case that A-60 class penetration is used as A-15/A-30 class penetration, such penetration is to be applied to the specification for A-60 class penetration described in the attached drawing.

2. In case that A-60 class penetration is used as A-0 class penetration, any insulation fitted (on the penetration itself and 200 mm around) to be fitted also for A-0 class penetration.

Annex to the Certificate No. TA21161E(N)

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KAIJ

1 A-0 Insulation Penetration A-60 Insulation A-30 Insulation Dimension Deck Deck Deck ø 88,9 450 500 Ø40 870.000.040 100 ñ ø40 30 50 ø40 ø40 ø40 Deck Deck Deck ø170 ø125 1000 1000 870.000.125 ø125 ø 125 150 150 ø125 ø 125 Deck Deck Deck ø 195 001 ø160 1000 1000 88 870.000.160 ø 160 ø160 150 150 ø 160 ø160 Deck Deck Deck ø235 120 500 1000 1000 ø20 228 870.000.200 50 ø200 150 150 ø200 ø200 ø200 B G (H)(1) Areal/Area 0.00000 m² tolerancer ke angivne tolerancer ilølge lat stated tolerances accordi DS/ISO 2768-C BLÜCHER S $\Box \oplus$ (B) g lo : egne!/Drown Erstallet al/ Replaced by Erstalning fo 1234 Rev. A blaalak/Scal Kontrollerel/Checked 110308 JO Werkst. Nr. 1.4301 Rev. 1234 • ^ egning Nr./Dra Titel/Designation Insulation dimensions on Blücher penetrations type 870 S-0377-331 A