



NIPPON KAIJI KYOKAI

COPY

Certificate

Certificate No.
TA21160E(N)

OF

APPROVAL

Item	:	A-0 / 30 / 60 class pipe penetration (bulkhead and deck)
Product name	:	Penetration type 868
Specifications	:	See the drawings in Annex.
Applicant	:	BLÜCHER Metal A/S Pugdølvej 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. 21FPA12DA, 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 KYOKAI



Y. Takao

General Manager

Material and Equipment Department

NOTE: The design, construction and way of installation subject to attachments. Any significant changes to the product without our approval will result in this certificate becoming null and void.



1. Test reports

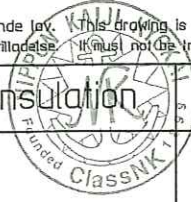
Test laboratory (Test place)	Report number	Date of issue
Danish Institute of Fire and Security Technology (Jernholmen 12, DK-2650 Hvidovre, Copenhagen, Denmark)	PGA11214A	14 September 2018
	PGA11215A	8 July 2020
	PHA11296B	20 January 2020
	PGA11264A	28 August 2018
	PGA11265A	29 August 2018
	PGA11316A	8 July 2020
	PGA11317A	12 March 2019
	PGA11554A	15 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. TA21160E(N)

Denne tegning tilhører BLÜCHER Metal A/S, Danmark og er beskyttet af gældende lov. This drawing is the property of BLÜCHER Metal A/S, Denmark and is protected by pending law. Den må ikke afhændes, udlånes eller kopieres uden firmaets udtrykkelige skriftlige tilladelse. It must not be transferred, lent or reproduced without an explicit written permission from the company.



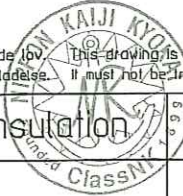
Dimension	Penetration	A-0 Insulation	A-30 Insulation	A-60 Insulation
Ø50				
Ø75				
Ø110				

SI

Small dim. changes/Update		A		B		C		D		E		F		G		H		I	
160308 JO 191106 JO		Ikke angivne Tolerances ifølge : Not stated tolerances according to :		DS/ISO 2768-c		Målestok/Scale		Tegnet/Drawn		Kontrolleret/Checked		Erstattet af/ Replaced by		Area/Area		1234		Rev. A	
Werkst. Nr. 14301		Blücher		051108 JO		Overflade/Surface		1234		Erstating for/ Replacement for		1234		0.00000 m ²		Rev. A		Rev. A	
Titel/Designation		Insulation dimensions on Blücher penetrations type 868		Tegning Nr./Drawing No.		S-0377-301		Rev.		B									

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Dimension	Penetration	A-0 Insulation	A-30 Insulation	A-60 Insulation
Ø40				
Ø125				
Ø160				
Ø200				

SI

More dim	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
191118 JO									
Ikke angivne tolerancer ifølge : Not stated tolerances according to : DS/ISO 2768-c							Overflade/Surface		Areal/Area 0.00000 m ²
Materiale/Material Werkst. Nr. 1.4301			Målestok/Scale Tegnet/Drawn 110308 JO		Kontrolleret/Checked		Erstattet af/ Replaced by 1234		Rev. A
Titel/Designation Insulation dimensions on Blücher penetrations type 868							Tegning Nr./Drawing No. S-0377-330		Rev. A