

QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No: MEDD000027V

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Quality System for the products

with type designation(s) as specified in the Appendix to this Certificate

Issued to **RACCORDERIE METALLICHE S.P.A.** Campitello di Marcaria MN, Italy

is found to comply with the applicable requirements. The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2020/1170.

This Certificate is valid until 2026-06-16.

Issued at Hamburg on 2021-07-19

DNV local station: Italy/Malta CMC

Approval Engineer: **Hagen Markus**



Notified Body No.: 0098

for DNV SE Digitally Signed By: Mydlak-Röder, Christine

Location: DNV GL SE, Hamburg

Christine Mydlak-Roeder Head of Notified Body

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the appendix attached hereto and as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.



0098: yyyy:

Notified Body number undertaking quality surveillance The year in which the mark is affixed

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.

This certificate loses its validity if the manufacturer makes any changes to the approved quality system, which have not been notified to, and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Form code: MED 211.DEU

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APPENDIX

Item no. MED/3.26b Penetrations through "A" class divisions: pipe, duct, trunk, etc penetrations

Type designation	EC Type- Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
INOXPRES ¹	MEDB00007F0	2026-06-16	0098	164.138/EC0098 /MEDB00007F0
MARINEPRES ¹	MEDB00007F1	2026-06-16	0098	164.138/EC0098 /MEDB00007F1
RM DRAIN F1, M1, M2, M3 and RM DRAIN M4 and Scuppers ¹	MEDB00007F2	2026-06-16	0098	164.138/EC0098 /MEDB00007F2

Places of production

1.RACCORDERIE METALLICHE S.P.A., Strada Sabbionetana, 59, Campitello di Marcaria MN, Italy



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No: MEDB00007F2 Revision No: 1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Penetrations through "A" class divisions: pipe, duct, trunk, etc penetrations

with type designation(s) RM DRAIN F1, M1, M2, M3 and RM DRAIN M4 and Scuppers

RACCORDERIE METALLICHE S.P.A. Campitello di Marcaria MN, Italy

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

Regulation (EU) 2020/1170, item No. MED/3.26b. SOLAS 74 as amended, Regulation II-2/9, IMO MSC.1/Circ.1276, IMO 2010 FTP Code and IMO MSC.1/1488

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

This Certificate is valid until 2026-06-16.

Issued at Hamburg on 2021-08-18

DNV local station: Italy/Malta CMC

Approval Engineer: Hagen Markus



DNV

Notified Body No.: 0098

for DNV SE Digitally Signed By: Mydlak-Röder, Christine Location: DNV GL SE, Hamburg

Christine Mydlak-Roeder

Head of Notified Body

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the productionsurveillance 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 SE of any changes to the approved equipment. This

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE 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.



 Job Id:
 344.1-011512-1

 Certificate No:
 MEDB00007F2

 Revision No:
 1

Product description

RM DRAIN - Pipes

The pipe penetration of type series "RM DRAIN" consists of a stainless-steel pipe fitting with carbon steel flange/sleeve/coaming, continuously welded to the bulkhead or deck.

Pipe fitting will be connected to stainless steel pipe of same diameter with push-fit socket couplings.

Each coupling set fitted with a rubber ring gasket made of EPDM.

Further details refer to "RM DRAIN Product Range", pipe penetration and scuppers

A-60 / A-0 Bulkhead and Deck Steel

Types	Design details	A-60 Bulkhead	A-60 Deck	A-0 Bulkhead	A-0 Deck
823/F1	Mid-positioned carbon steel flange, outer diameter 200mm, 5mm thick, welded to stainless steel pipe with socket connection/plain end.	DN40 up to DN150	DN40 up to DN125, DN150	DN40 up to DN150 ³	DN40 up to DN150⁴
823/M1	Carbon steel sleeve/coaming, 45mm long, welded to middle of stainless-steel pipe with socket coupling side/plain pipe end.	DN40 up to DN150	DN40 up to DN125, DN150 ¹	DN40 up to DN150⁴	DN40 up to DN150⁵
823/M2	Carbon steel sleeve/coaming, 45mm long, welded to socket coupling side.	DN 40 up to DN150	DN40 up to DN125, DN150	DN40 up to DN150 ³	DN40 up to DN150⁴
823/M3	Carbon steel sleeve/coaming, 45mm long, fitted on socket coupling side. Pipe fitting is a 90° elbow type.	DN40 up to DN100	DN40 up to DN100	DN40 up to DN100 ³	DN40 up to DN100⁵
823/M4	Outer carbon steel sleeve/coaming, 100mm long, welded to middle of stainless-steel pipe with socket coupling side/plain pipe end.	DN40 up to DN100	DN40 up to DN150 ²	DN40 up to DN150 ³	DN40 up to DN150⁵

Notes

¹ DN125 and DN150 limited to A-30

² DN150 limited to A-30

³ without insulation acc. to "RM DRAIN_Insulation dimensions_Bulkhead"

⁴ only DN40 without insulation, for bigger sizes insulation same as for A-60

⁵ all sizes to be insulated acc. to A-60

RM DRAIN - Scuppers

The scupper of type series "RM DRAIN" are made of stainless steel AISI 316L – 1.4404. Joining to the deck by flange connection or welding.

Scupper fitting will be connected to stainless steel pipe of same diameter with push-fit socket couplings. Each coupling set fitted with a rubber ring gasket made of EPDM.

Further details refer to "RM DRAIN Product Range", pipe penetration and scuppers

A-60 / A-0 Steel

Article	Joining method to deck	Outlet	A-60 Sizes DN	A–0 Size DN
825/01	Flange	Horizontal	40, 50, 65	40, 50, 65
825/02	Welding	Horizoniai	40, 50, 65, 100 ¹	40, 50, 65, 100
825/03	Flange	Vertical	40, 50, 65	40, 50, 65
825/04		Vertical	40, 50, 65, 100	40, 50, 65, 100
825/05			40, 50, 65, 100 ¹	40, 50, 65, 100
825/06 C	Maldia e	Horizontal	40, 50, 65	40, 50, 65
825/06 Q	Welding		40, 50, 65	40, 50, 65
825/07 Q		Vertical	40, 50, 65	40, 50, 65
825/07 C		Vertical	40, 50, 65	40, 50, 65

Notes

¹ A-30 only



Application/Limitation

Class A-60 an A-0 Steel Bulkheads and Decks, general application. Scuppers flush deck, welded or flanged. For application on A-15 and A-30 divisions, the penetration system shall be insulated as approved for class A-60. The penetrated division is to be insulated as for A-60 at least 200 mm around the penetration.

Insulation dimensions instructions

RM DRAIN Scuppers	RM DRAIN_Insulation dimensions_DECK	
	RM DRAIN_Insulation dimensions_BULKHEAD Pag. 1	
RM DRAIN pipes	RM DRAIN_Insulation dimensions_DECK Pag. 1	

Other applications are subject to case-by-case approval.

The insulation material used has to be approved according to the Marine Equipment Directive, bearing the Mark of Conformity.

Each pipe penetration system is to be supplied with its actual manual for installation and use.

Installation

System pipes to be connected to the pipe penetration and scuppers by using RM Drain tubes with socket connection and a ring gasket made of EPDM according to manufacturer instruction specified in RACCORDERIE METALLICHE S.P.A "DRAIN Technical Handbook".

The welding of the RM DRAIN penetration for pipes and scuppers is to be carried out according to "Technical Handbook, Annex I"- Welding instructions".

Type Examination documentation

Product documentation

- RACCORDERIE METALLICHE S.P.A "DRAIN Technical Handbook", Code 088R2 0217 PLU
- IAQ 029-05 Marking of DRAIN products, 2013-05-17
- RM DRAIN pipe penetration product range, 04/2021

Insulation instructions

- Scuppers, RM DRAIN _ Insulation dimensions _DECK Rev : 1 Dated : May 2020

- Pipes, RM DRAIN _ Insulation dimensions _BULKHEAD Pag. 1 Rev : 2 Dated : July 2020
- Pipes , RM DRAIN _ Insulation dimensions _DECK Pag. 1 Rev : 1 Dated : May 2021

Fire Test reports

Test laboratory C.S.N.I Sc.a.r.I Divisione LAB, Genova

DRAIN Pipes A-60 Bulkhead Steel

Test report	Issue date	Test specimens	Note
512140A16/1 Issue 1	2016-03-02	823/M2, #3 DN 40	Insulation 140kg/m ³ , both sides
		823/M3, #1 DN40	
		823/M4, #6 DN40	
512112A16/1 Issue 1	2016-03-02	823/F1, #4 DN40	Insulation 140kg/m ³ , both sides
		823/M1, #8 DN40	
022011A16/1 Issue 1	2020-02-25	823/M1, #D DN100, #B DN150	Insulation 140kg/m ³ , not fire rated side. 1600, 1800mm long
026051A16/1 Issue 1,	2020-06-29	823/M3, #B DN100	Insulation 100/140kg/m ³ , not fire
Issue 2	2020-07-23		rated side.
022082A16/1 Issue 1	2020-04-17	823/F1, #B DN150	
		823/M2, #D DN 100, #C DN150	



DRAIN Pipes A-0 Bulkhead Steel

Test report	Issue date	Test specimens	Note
912051A16/1, Issue 3	2019-02-26	823/M4, #1 DN40, #2 DN150	No insulation
		823/M1, #3 DN40	
		823/M2, #5 DN40, #6 DN150	
		823/F1, #7 DN40, #8 DN150	
		823/M3, #9 DN40, #10 DN100	

DRAIN Pipes A-60 Deck Steel

Test report	Issue date	Test specimens	Note
611092A16/1, Issue 1	2016-03-02	823/F1, #6 DN40, #5 DN100	Insulation both sides 140kg/m ³
		823/M1, #8 DN40, #7 DN100	
		823/M3, #10 DN40, #9 DN100	
		823/M4, #12 DN40, #11 DN100	
		823/M2, #14 DN40, #13 DN100	
915012A16/1, Issue 2	2019-06-17	823/M4, #A DN125,	Insulation both sides 140kg/m ³
		#K DN150 (A-30)	
		823/F1, #E DN125, #M DN150	
		823/M1, #B DN125 (A-30),	
		#F DN150 (A-30)	
		823/M2, #C DN125 ,#J DN150	

DRAIN Pipes A-0 Deck Steel -

Test report	Issue date	Test specimens	Note
912051A16/1, Issue 1	2019-07-02	823/M4, #G DN40	Insulation both sides
		823/M2, #C DN40	
		823/F1, #B DN40	
		823/M3, #J DN100	

RM Scupper A-60 – Deck - Steel

Test report	Issue date	Test specimens #, Art. Code, DN	Note
916070A16/1 Issue 2	2019-07-01	#L, 8250 400 22, 40 #O, 8250 400 11, 40 #P, 8250 650 11, 65	Horizontal outlet Insulation density 150/140kg/m3
		#M, 8250 400 44, 40, #N, 8250 400 33, 40 #H, 8250 650 33, 65	Vertical outlet Insulation density 150/140kg/m3
918020116/1 Issue 2	2019-08-30	#Y, 8250 400 55, 40	Horizontal outlet Insulation density 200/140kg/m3
		#J, 8251 000 44, 100	Vertical outlet Insulation density 200/140kg/m3
918020A16/1 Issue 2	2019-09-30	#K, 825100022, 100 (A-30) #Y, 825040055, 40 #Z, 825100055, 100 (A-30) #W, 825040066Q, 40 #V, 825065066Q, 65	Horizontal outlet
		#J, 825100044, 100 #S, 825040077Q, 40 #T, 825065077Q, 65	Vertical outlet
021042A16/1 Issue 1	2020-01-27	#E, 8250 400 66C, 40 #D, 8250 650 66C, 65 #C, 8250 650 55, 65 #F, 8250 650 22, 65	Horizontal outlet Insulation density 200/140kg/m3
		#A, 8250 650 77C, 65 #B, 8250 400 77C, 40	Vertical outlet Insulation density 200/140kg/m3



Scupper A-0 Deck - Steel

Test report	Issue date	Test specimens #, Art. Code, DN	Note
916012A16/1 Issue 1	2019-07-02	#L, 8250 400 22, 40 #K, 8250 400 22, 100 #O, 8250 400 11, 40 #P, 8250 650 11, 65	Horizontal outlet
		#M, 8250 400 44, 40, #J, 8251 400 44, 100 #N, 8250 400 33, 40 #H, 8250 650 33, 65	Vertical outlet
917051A16/1 Issue 1	2019-07-22	#Y, 8250 400 55, 40 #Z, 8250 400 100, 100	Horizontal outlet
		#U, 825040066C, 40	Vertical outlet
		#X, 825065066C, 65 #W, 825040066Q, 40	Horizontal outlet
		#V, 825065066Q, 65	
		#S, 825040077Q, 40	Vertical outlet
		#T, 825065077C, 65	
		#Q, 825040077C,40	
		#R, 825065077C, 65	

Tests carried out

- Fire tests according to IMO Res.MSC.307(88)-(2010 FTP Code).

- IMO MSC.1/Circ.1488

Marking of product Each penetration is to be marked at least as follows:

Scope	Example
Type designation	RM DRAIN
Size here DN40	42
Material designation	316L 1.4404
Manufacturing country, here Italy	IT
Traceability number to production (6 digits)	100035
Mark of Conformity ¹	0098/2021
US Coast Guard Number	Acc. to MED Module D certificate

Note

 1 may only be affixed to the type approved equipment, in case the associated production surveillance module (D, E or F) is valid.