

Ships Service



Mooring tail base design certificate TS CERT 7801 E rev. 3

General information

Issue date:

11.07.2019

Line manufacturer

Wilhelmsen Ships Service AS

Expiry date:

10.07.2024

Independent inspection agency:

DNV

Line design designation:

Timm Master 12 SBA

Timm Master 12, Timm Master 8

Material type and grade:

B5 (PP+HDPE) and HT PES

Line construction:

12x1, 4x2 – braided/plaited

Jacketed:

No

Design range:

32 mm - 105 mm

Rotating:

No

DNV Type Approval:

TAK0000094

Base design performance indicators

Performance Indicators	Smallest Diameter			Largest Diameter	
Diameter	Design: 32mm	Measured: 37mm	n	Design: 105mm	Measured: 132mm
Tail Design Break Force (TDBF)	20 t			214,1 t	
Tail Linear Density (TLD)	0,562 kg			5,867 kg	
Load Bearing Linear Density (LBLD)	0,540 kg			5,709 kg	
Tail Tenacity (TT)	38,41 t/kg/m			37,50 t/kg/m	
Splice type	TM 12 (6x2x5), TM 8 (4x2x5)				
Maximum Line Tenacity (MLT)	38,41 t/kg/m				
Dynamic Stiffness (Ksh, Kex)	Sheltered (Ksh):	Sheltered (Ksh): 16,14xTDBF			
	Exposed (Kex):	20,65xTDBF			
Tension-tension endurance (CTF)	CTF 50%:	205 233 732 cycles			
	CTF 20%:	19 934 162 223 361 cycles			
	%TDBF:10	%TDBF:20	%TDBF:30	%TDBF:40	%TDBF:50
Average Immediate Strain* (e)	1,33%	2,50%	3,50%	4,36%	5,24%

^{*}Performance indicators are tested on samples: 32 mm for mooring tail

Name and address of manufacturing facility:

Wilhelmsen Ships Service AS

TIMM SLOVAKIA s.r.o. Nozdrkovce 3140/37, 911 04 Trenčín, Slovakia

Completion date:

30.05.2024

Independent inspector:

Henrich Illáš

Henrich Illáš

Address of independent inspector:

DNV, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design testing information

Name and address of test facility:

Wilhelmsen Ships Service AS TIMM SLOVAKIA s.r.o.

Nozdrkovce 3140/37, 911 04 Trenčín, Slovakia

Completion date:

30.05.2024

Independent inspector:

Address of independent inspector:

DNV, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design sample and product documentation reviewed

Independent inspector: Base design sample manufacturing report

Henrich Illáš

Date of review:

11.07.2019

Base design sample manufacturing ITP

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Material test report Design specification

V Splicing instructions Procedures for testing and inspection of retired mooring lines

Base design sample test report

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Manufacturer's discard and inspection criteria





Independent inspector, Date: 30.05.2024