

Mooring tail base design certificate TS CERT 7809 E

General information

Issue date:	10.10.2024	Expiry date:	09.10.2029
Line manufacturer	Wilhelmsen Ships Service	Independent inspection agency:	DNV
Line design designation:	Timm Master 8	Material type and grade:	B5 (PP+HDPE) and HT PES
Line construction:	4x2 – braided/plaited	Jacketed:	No
Design range:	32 mm – 108 mm	Rotating:	No
DNV Type Approval:	Yes		

Base design performance indicators

Performance Indicators	Smallest Diameter		Largest Diameter		
Diameter	Design: 32mm	Measured: 37mm	Design: 108mm	Measured: 124mm	
Tail Design Break Force (TDBF)	20,7 t		226,3 t		
Tail Linear Density (TLD)	0,540 kg		6,184 kg		
Load Bearing Linear Density (LBLD)	0,540 kg		6,184 kg		
Tail Tenacity (TT)	38,41 t/kg/m		36,59 t/kg/m		
Splice type	TM 8 (4x2x5)				
Maximum Line Tenacity (MLT)	38,41 t/kg/m				
Dynamic Stiffness (Ksh, Kex)	Sheltered (Ksh):	13,637xTDBF			
	Exposed (Kex):	18,896xTDBF			
Tension-tension endurance (CTF)	CTF 50%:	701 711 cycles			
	CTF 20%:	2 675 208 408 cycles			
	%TDBF:10	%TDBF:20	%TDBF:30	%TDBF:40	%TDBF:50
Average Immediate Strain* (e)	1,24%	2,50%	3,71%	4,82%	5,88%

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

This MTBD Certificate is issued based on DNV Verification Statement no.: N142Y0NB, N142Y77D, N142Y77T, N143087G

Name and address of manufacturing facility:

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

Independent inspector:

Henrich Illáš

Completion date:

10.10.2024

Address of independent inspector:

DNV, Rolnickej Školy 1519, 94525 Komárno, Slovak Republic

Base design testing information

Name and address of test facility:

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

Independent inspector:

Henrich Illáš

Completion date:

10.10.2024

Address of independent inspector:

DNV, Rolnickej Školy 1519, 94525 Komárno, Slovak Republic

Base design sample and product documentation reviewed

Independent inspector:	Henrich Illáš	Date of review:	10.10.2024
Base design sample manufacturing report	<input checked="" type="checkbox"/>	Material test report	<input checked="" type="checkbox"/>
Base design sample manufacturing ITP	<input checked="" type="checkbox"/>	Design specification	<input checked="" type="checkbox"/>
Base design sample test report	<input checked="" type="checkbox"/>	Manufacturer's discard and inspection criteria	<input checked="" type="checkbox"/>
		Splicing instructions	<input checked="" type="checkbox"/>
		Procedures for testing and inspection of retired mooring lines	<input checked="" type="checkbox"/>

