

Mooring line base design certificate TS CERT 7801 E rev. 3
General information

Issue date:	11.07.2019	Expiry date:	10.07.2024
Line manufacturer	TIMM SLOVAKIA s.r.o	Independent inspection agency:	DNV GL
Line design designation:	Timm Master 12 SBA, Timm Master 12, Timm Master 8	Material type and grade:	B5 (PP+HDPE)/HT PES
Line construction:	12x1, 4x2 – braided/plaited	Jacketed:	No
Design range:	32mm – 96 mm	DNV GL Type Approval:	TAK0000094 rev.1

Base design performance indicators

Performance Indicators	Smallest Diameter		Largest Diameter			
Diameter	Design: 32mm	Measured: 37mm	Design: 96mm	Measured: 118mm		
Line Design Break Force (LDBF)	20 t		179,6 t			
Line Linear Density (LLD)	0,562 kg/m		4,900 kg/m			
Load Bearing Linear Density (LBLD)	0,540 kg/m		4,779 kg/m			
Line Tenacity (LT)	38,41 t/kg/m		37,58 t/kg/m			
	D/d Ratio: 5		D/d Ratio:10			
Angled Break Force* (ABF) % Avg NSBF	173% / 86,5%		181,41% / 90,71%			
Angled Endurance* (AE) % Avg NSBF	75,13%		78,21%			
	-20 °C	0 °C	20 °C	40 °C	60 °C	80 °C
Temperature (T)** % BF at 20°C	135%/101%	124%/103%	100%/100%	84%/93%	72%/89%	57%/89%
Axial Compression Resistance* (ACR)	94,53%					
	%LDBF:10	%LDBF:20	%LDBF:30	%LDBF:40	%LDBF:50	
Average Immediate Strain* (e)	1,33%	2,50%	3,50%	4,36%	5,24%	

Splice type: TM 12 (6x2x5), TM 8 (4x2x5)

Maximum Line Tenacity: 38,41 kN/kg/m

*Performance indicators are tested on samples: 32mm for Timm Master mooring line

**Temperature indicator performed at yam level

Name and address of manufacturing facility:

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

Independent inspector:

Henrich Illáš

Completion date:

17.09.2020

Address of independent inspector:

DNV GL, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design testing information
Name and address of test facility:

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

Independent inspector:

Henrich Illáš

Completion date:

17.09.2020

Address of independent inspector:

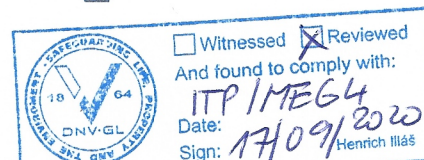
DNV GL, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design sample and product documentation reviewed

Independent inspector: Henrich Illáš

Date of review: 17.09.2020

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



Independent inspector, Date: 17.09.2020