

### **Ships Service**



# Mooring line base design certificate TS CERT 7803 E rev. 1

#### 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:

Acera Amundsen,

Material type and grade:

HMPE Acera

Line construction:

Daufoumanas Indiantous

Acera Amundsen SBA 12x1 - braided/plaited

Jacketed:

No

Design range:

16 mm - 64 mm

DNV GL Type Approval:

TAK0000097 rev.1

## Base design performance indicators

Performance Indicators	Smallest Diameter					Largest Diameter			
Diameter	Design:	16mm	Measured:	17n	nm Desi	gn: 64mm	Measured:	64,5mm	
Line Design Break Force (LDBF)	23 t				2701	t			
Line Linear Density (LLD) with SBA	0,166 kg/m				1,95	l kg/m			
Load Bearing Linear Density (LBLD)	0,144 kg/m				1,862	2 kg/m			
Line Tenacity (LT) without SBA	162,9 t/kg/m				145,4	4 t/kg/m			
	D/d Ratio: 5			D/d Ra	atio:10				
Angled Break Force* (ABF) % Avg NSBF	184,68% / 92,34%			199,18%/99,59%					
Angled Endurance* (AE) % Avg NSBF	60,04%			86,00%	6				
	-20 °C	0 °C	20 °C	40 °C	60 °C	80 °C			
Temperature (T)** % BF at 20°C	111%	110%	100%	94%	86%	57%			
Axial Compression Resistance* (ACR)	93,16%								
	%LDBF:10	%LDBI	F:20 %LDB	F:30	%LDBF:40	%LDBF:50			
Average Immediate Strain* (e)	0,20%	0,42%	0,62%		0,82%	1,01%			

Carallant Diameter

Splice type:

Inside splice

Maximum Line Tenacity:

162,9 t/kg/m

#### Name and address of manufacturing facility:

Completion date:

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

24.07.2020

Independent inspector:

Address of independent inspector:

Henrich Illáš

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

### Base design testing information

Name and address of test facility:

Completion date:

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

24.07.2020

Independent inspector:

Address of independent inspector:

Henrich Illáš

Slovakia

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

### Base design sample and product documentation reviewed

Independent inspector:

Henrich Illáš

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Date of review:

24.07.2020

Base design sample manufacturing report Base design sample manufacturing ITP

Material test report

Manufacturer's discard and

Splicing instructions

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Base design sample test report

Design specification

inspection criteria

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Jacketed line internal inspection report – N/A

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Procedures for testing and inspection of

retired mooring lines

Date:

Independent inspecto



<sup>\*</sup>Performance indicators are tested on samples: 16mm for Acera Amundsen mooring line

<sup>\*\*</sup>Temperature indicator performed at yarn level