

Ships Service



Mooring line base design certificate TS CERT 7804 E rev. 1

General information

Issue date:

11.07.2019

TIMM SLOVAKIA s.r.o

Expiry date:

10.07.2024

Line manufacturer

Acera daGama,

Independent inspection agency:

DNV GL

Line design designation:

Material type and grade:

HMPE Acera/HT PES

Line construction:

Performance Indicators

Acera daGama SBA Core 12x1 - braided/plaited

Jacketed:

Yes

Design range:

Jacket 24x1 or 32x1 -overbraided 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:	20,5mm	Design	n: 64mm	Measured:	72mm	
Line Design Break Force (LDBF)	23 t				270 t				
Line Linear Density (LLD)	0,236 kg/m				2,76 k	g/m			
Line Linear Density (LLD) with SBA	0,258 kg/m				2,8491	kg/m			
Load Bearing Linear Density (LBLD)	0,144 kg/m				1,862 kg/m				
Line Tenacity (LT) without SBA	162,9 t/kg/m				145,4 t				
	D/d Ratio: 5			D/d Ratio:	10				
Angled Break Force* (ABF) % Avg NSBF	184,68% / 92,34%			199,18% / 99,59%					
Angled Endurance* (AE) % Avg NSBF	60,04%			86,00%					
	-20 °C	0 °C	20 °C	40 °C	60 °C	80 °C			
Temperature (T)** % BF at 20°C	111%/101%	110%/103%	100%/100%	94%/93%	86%/89%	57%/89%			
Axial Compression Resistance* (ACR)	93,16%								
	%LDBF:10	%LDBF:	20 %LDB	F:30 %I	LDBF:40	%LDBF:50			
Average Immediate Strain* (e)	0,20%	0,42%	0,62%	0,82	what is	1,01%	44		

Splice type:

Tension/Inside splice

Maximum Line Tenacity:

162,9 T/kg/m

Name and address of manufacturing facility:

Completion date:

Timm Slovakia, Nozdrkovce 3140/37, 911 04 Trenčín, Slovakia

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, Nozdrkovce 3140/37, 911 04 Trenčín, Slovakia

24.07.2020

Independent inspector:

Address of independent inspector:

Henrich Illáš

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

Base design sample and product documentation reviewed

Independent inspector:

Henrich Illáš

Date of review:

24.07.2020

Base design sample manufacturing report Base design sample manufacturing ITP

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Material test report Design specification

 \mathbf{V} Splicing instructions

Base design sample test report

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Manufacturer's disca Date: inspection criteria

Jacketed line internal inspection report Procedures for testing and inspection of

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And found to comply with:

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^{*}Performance indicators are tested on samples: 16mm for Acera Amundsen mooring line

^{**}Temperature indicator performed at yarn level