

Ships Service



V

Mooring line base design certificate TS CERT 7808 E

General information

Issue date:

09.07.2024

Expiry date:

08.07.2029

Line manufacturer

Wilhelmsen Ships Service

DNV

Line design designation:

Acera daGama SBA™,

Independent inspection agency:

HMPE Acera/HT PES

Acera daGama

Line construction:

Core 12x1 - braided/plaited

Jacketed:

Yes

Design range:

Jacket 24x1 or 32x1 -overbraided 16 mm - 64 mm

DNV Type Approval:

Material type and grade:

Yes

Base design performance indicators

Performance Indicators	Smallest Diameter					Largest Diameter			
Diameter	Design:	16mm	Measured:	22,5mm	Design:	64mm	Measured:	70mm	
Line Design Break Force (LDBF)	23,4 t				270,7 t				
Line Linear Density (LLD)	0,236 kg/m				2,76 kg/	m			
Line Linear Density (LLD) with SBA	0,258 kg/m				2,849 kg	y/m			
Load Bearing Linear Density (LBLD)	0,144 kg/m				1,862 kg	g/m			
Line Tenacity (LT) without SBA	162,9 t/kg/m		145,4 t/kg/m						
	D/d Ratio: 5			D/d Ratio:10					
Angled Break Force* (ABF) % Avg NSBF	196,77% / 98,39%			193,77%/96,89%					
Angled Endurance* (AE) % Avg NSBF	101,3%			97,75%					
	-20 °C	0 °C	20 °C	40 °C	60 °C	80 °C			
Temperature (T)** % BF at 20°C (HMPE/PES/PA) Axial Compression Resistance*	115,3/109% 115%	108,4%/109% 105%	100%/100% 100%	97,5%/98% 95%	87,2%/92% 90%	61,5%/88% 82%			
(ACR)	118,27%								
	%LDBF:10	%LDBF:	20 %LDB	F:30 %I	DBF:40	%LDBF:50			
Average Immediate Strain* (e)	0,40%	0,67%	0,90%	1,1	1%	1,32%			

Splice type:

Tension/Inside splice 2G

Maximum Line Tenacity:

162,9 T/kg/m

This MLBD Certificate is issued based on DNV Verification Statement no.: N142Y9YK, N142URZ9, N142URZD, N142VYWZ, N142WD77, N142WZX9, N142VRRH, N142WXFM

Name and address of manufacturing facility:

Completion date:

Wilhelmsen Ships Service

02.07.2024

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

Independent inspector:

Address of independent inspector:

Henrich Illáš

DNV, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design testing information

Name and address of test facility:

Completion date:

Wilhelmsen Ships Service

02.07.2024

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

Independent inspector:

Address of independent inspector:

Henrich Illáš

DNV, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design sample and product documentation reviewed

inspection criteria

Independent inspector: Henrich Illáš Date of review: 09.07.2024 Base design sample manufacturing report Splicing instructions Material test report V Base design sample manufacturing ITP Design specification Jacketed line internal inspection report V Base design sample test report Manufacturer's discard and Procedures for testing and inspection of V



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

^{**}Temperature indicator performed at yarn level