

#### **Ships Service**



# Mooring tail base design certificate

### **General information**

Issue date: 01.02.2023 Expiry date: 28.10.2026

Line manufacturer :India NetsIndependent inspection agency:DNVLine design designation:Timm Flex 8Material type and grade:Nylon 6HT

Line construction:8 strand plaitedJacketed:NDesign range:32mm to 112mmRotating:N

### Base design performance indicators

<b>Performance Indicators</b>		Smallest Diameter				Largest Diameter				
Diameter	Design:	32 mm	Measured:	32.67mm	Design:	112mm	Measured:	117.32mm		
Tail Design Break Force (TDBF)	21 t				226 t					
Tail Linear Density (TLD)	0.632 kg/m				7.795 kg	/m				
Load Bearing Linear Density (LBLD)	0.632 kg/m				7.795 kg	/m				
Tail Tenacity (TT)	33.23 t/kg/m	28.99 t/kg/m								
Splice type	As per India Nets splicing manual									
Maximum Line Tenacity (MLT)	33.23 t/kg/m				28.99 t/k	g/m				
Demonia CARR (IV-L. IV-L.)	Sheltered (Ksh): 3.00xTDBF									
Dynamic Stiffness (Ksh, Kex)	Exposed (Ke	x): 11.38xTDl	3F							
Tension-tension endurance (CTF)	CTF 50%: $1.16 \times 10^4$ cycles									
	CTF 20%: 3.46x10 <sup>6</sup> cycles									
	%TDBF:10	%TDBF:2	0 %TDBF	:30 %TD	)BF:40 %	%TDBF:50				
Average Immediate Strain* (e)	8.78%	11.56%	15.63%	17.57	% 1	8.85%	•	•		

<sup>\*</sup>Performance indicators are tested on samples: 32 mm for mooring tail

Name and address of manufacturing facility: INDIA NETS-Unit-Ist & IInd,

 $Plot \, No. \, -D-1 \, to \, 12, B-1, \, 2 \, \& \, F-3 \, to \, 5, \, Indore \, Special \, Economic \, Zone, \, Phase-I, Sector-III, \, Control \, Con$ 

 $Pithampur-454775,\,(Dist-Dhar)$ 

Plot No. - F-1 & F2, Indore Special Economic Zone, Phase – I, Sector – III, Pithampur –

454775, (Dist – Dhar)

Independent inspector: ANIL KUMAR Completion date: 07.12.2022

Address of independent inspector: DNV, MUMBAI, INDIA

Base design testing information

Name and address of test facility: INDIA NETS-Unit-I<sup>st</sup> & II<sup>nd</sup>,

 $Plot \, No. \, -D-1 \, to \, 12, B-1, \, 2 \, \& \, F-3 \, to \, 5, \, Indore \, Special \, Economic \, Zone, \, Phase-I, Sector-III, \, Control \, Con$ 

 $Pithampur-454775,\,(Dist-Dhar)$ 

Plot No. - F-1 & F2, Indore Special Economic Zone, Phase – I, Sector – III, Pithampur –

454775, (Dist – Dhar)

Independent inspector: ANIL KUMAR Completion date: 07.12.2022

Address of independent inspector: DNV, MUMBAI, INDIA

## Base design sample and product documentation reviewed

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Independent inspector: ANIL KUMAR		Date of	.2023		
Base design sample manufacturing repo	rt 🗸	Material test report	abla	Splicing instructions	
Base design sample manufacturing ITP	$\overline{\square}$	Design specification	$\overline{\square}$		
Base design sample test report	$\overline{\checkmark}$	Manufacturer's discard and inspection criteria		Procedures for testing and inspection of retired mooring lines	$\checkmark$
Equivalent documents from other type approval programme:  MEG4/MLBDC/TF8/22/002					

INDEPENDENT INSPECTOR