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SP_01.2 – Technical specification of Debris Boom Okean-Net(3,0m–5,0m)

The debris booms type Okean-Net are the most durable floating booms which have the broadest range of applications to the pollution problems that the marine environment has to face. Their hydrodynamic and aerodynamic design gives them exceptional floating stability and maximum endurance in all meteorological conditions.

Each part of the construction is enriched with UV-protection stabilizers and is made of light and durable materials, suitable for long-term use in the marine environment.

1. Technical Field

Technical field of Okean-Net			
Type	Okean-Net 18/125/250	Okean-Net 18/130/450	
Total high	2,50 m	4,50 m	
Freeboard	0,50 m	0,50 m	
Draught	2,00 m	4,00 m	
Above part (fence)	1,20 m	1,30 m	
Down part (curtain)	1,30 m	2,20 m	
Weight	8,3 Kg/m	9 Kg/m	
Ropes Strength (only)	16 Tn	16 Tn	
Construction Part	Characteristics		
Net	Mesh	18 mm	
	Thread breaking strength	130-150 Kp	
	Thread Composition	Polyamide PA or UHMWPE (Dyneema)	
Supporting & floating bars	The support and endurance base of Okeanis products	Installed every 1m UV-stabilizers, antibacterial, double HDPE floats	
Connectors and mooring stabilizers	Double coated plastic bars with stainless steel mooring connectors	Placed in distances according to mooring and connecting	
Ballasts	Upper Part	Synthetic mixed - flex rope 20mm UV-protection, breaking strength 8 Tn. Color: orange	

	Central Part	Synthetic mixed - flex rope 20mm UV-protection, breaking strength 8 Tn. Color: orange
	Lower Part	Lower stability ballast, hot dip galvanized chain or leadline rope weight 2,0Kgr/m
	Sewing thread	<u>Upper and central part.</u> Hand made Type: Extremely high durability yarn Dyneema, nominal thread breaking strength ≥ 900 Kp.
<u>Lower Part (chain connection)</u> Hot dip galvanized chain weight 2Kg/m, into double coated PVC with inner polyester thread. High frequency welding and two double stitches with high durability yarn Coat tensile strength: Warp: $4000 \times 2 = 8000\text{N}/50\text{mm}$ Weft: $3500 \times 2 = 7000\text{N}/50\text{mm}$ Tear strength: Warp: $600\text{N} \times 2 = 1200\text{N}$ Weft: $500\text{N} \times 2 = 1000\text{N}$ Add.: UV-protection, Antibacterial stabilizers.		

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