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NOMENCLATURES – Clarification on technical definitions:

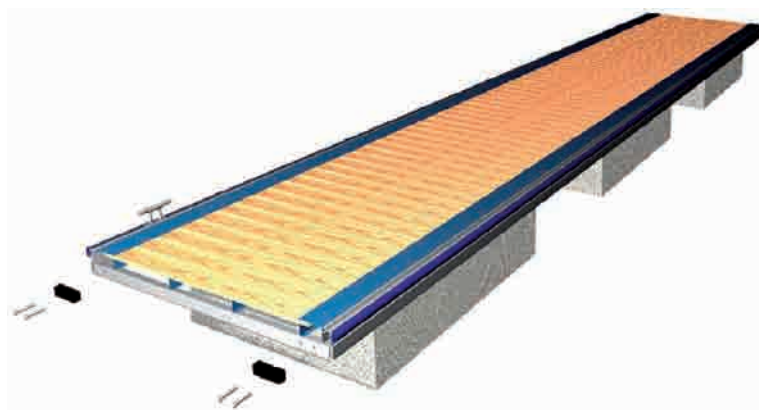
- Pontoons' dimensions are only nominal.
- Pontoons' Live load (kg/sqm) is the vertical load applied on the decking (footable surface) or on the structure/frame (meaning the decking surface positioned between the two lateral main beams, fenders excluded) which can be balanced only by "submerging" sinking the floats volume (frame + decking stay out of the water) in accordance with "Italiana PIANC Recommendations) Residual free board under loading is 20 cm. Reserve of buoyancy medium (i.e. by submerging also the frame + decking volume) is 30 kg/swm
- Floating Pontoon's free board: is the distance between water and decking without vertical live load applied (Tolerance ± 3 cm).
- Dead load (kg/m) of pontoon is the overall weight of frame, decking and floats referred to length unit (m). Duplex treatment consists in coating the galvanized steel frame with epoxy paint Bituminous

DIMENSIONAL TOLERANCE - Wood products:

- Staves: thickness: ± 2 mm;
Width: ± 5 mm;
Length: ± 10 mm;
- Squared section piles: Length: $\pm 3\%$;
squared side: ± 10 mm;
Curvatura pali: 10 mm / 2 m.
- Rounded section piles: Length: $\pm 3\%$;
Eccentricity axis poles: 40 mm/1 m

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PONTOON ANTARES 7 VERSION WITH CONCRETE FLOATS

- Frame made of extruded profile in marine aluminum alloy patented Sistema Walcon (weight 7Kg/m e 11Kg/m), electrowelded with TIG-MIG process
- Decking made of exotic wood or Novowood (Wood Plastic Composite) fixed to the frame with stainless steel screws
- Concrete floats reinforced by polypropylene fibres, internal hot-dip galvanized steel reinforcement, polystyrene core and stainless steel fixing-pins to main frame.
- Aluminium lateral removable duct covers.
- Lateral fender made of anti-aging plastic material, color blu standard (other colors on request)
- "Silent Block" joint system, with neoprene rubber bushes and stainless steel bolts

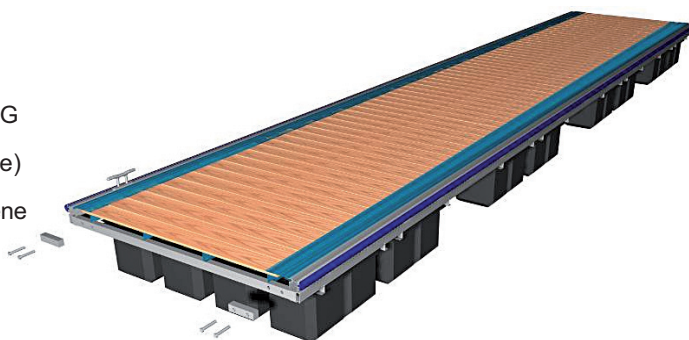
TECHNICAL DATA								
CODE	MAIN PROFILE UPN	FLOATS	LENGHT (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
					DECKING SURFACE	STRUCTURE WIDTH		
DB066031	7	CF239	12	2,55	270	220	0,6	305
DB066032	7	CF239	8	2,55	270	220	0,6	305
DB066033	7	CF239	12	2,10	320	250	0,6	290
DB066034	7	CF239	8	2,10	320	250	0,6	290

PONTOON ANTARES 11 VERSION WITH CONCRETE FLOATS

TECHNICAL DATA								
CODE	MAIN PROFILE UPN	FLOATS	LENGHT (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
					DECKING SURFACE	STRUCTURE WIDTH		
DB066401	11	CF271	12	3	325	250	0,6	385
DB066402	11	CF271	8	3	325	250	0,6	385
DB066411	11	CF353	12	2,5	250	200	0,6	330
DB066412	11	CF353	8	2,5	250	335	0,6	335

PONTOON ANTARES PF VERSION WITH POLYETHYLENE FLOATS

- Frame made of extruded profile in marine aluminum alloy patented Sistema Walcon (weight 7Kg/m e 11Kg/m), electrowelded with TIG-MIG process
- Decking made of exotic wood or Novowood (Wood Plastic Composite) fixed to the frame with stainless steel screws
- Roto-moulded polyethylene floats with high density closed cell polystyrene foam core.
- Aluminium lateral removable duct covers.
- Lateral fender made of anti-aging plastic material, color blu standard (other colors on request)
- Flexible joint system consisting of stainless steel bolts incorporating neoprene rubber bushes.



TECHNICAL DATA

CODE	MAIN PROFILE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
				DECKING	STRUCTURE		
DB066050	PF	12	2,55	100	95	0,6	100
DB066051	PF	8	2,55	100	85	0,6	100
DB066052	PF	12	2,10	100	80	0,6	94
DB066053	PF	8	2,10	100	85	0,6	94
DB066060	PF	12	2,55	150	125	0,62	108
DB066061	PF	8	2,55	150	120	0,62	108
DB066062	PF	12	2,10	150	120	0,62	100
DB066063	PF	8	2,10	150	120	0,62	100
DB066070	PF	12	2,55	200	160	0,64	115
DB066071	PF	8	2,55	200	155	0,64	115
DB066072	PF	12	2,10	200	150	0,64	104
DB066073	PF	8	2,10	200	155	0,64	104
DB066201	PF- 11KG/m	12	3	210	165	0,6	150
DB066202	PF- 11KG/m	8	3	205	160	0,6	155
DB 066205	PF- 11KG/m	12	2,35	205	155	0,6	120
DB066206	PF- 11KG/m	8	2,35	200	150	0,6	125

PONTOON NETTUNO 180/220 VERSION WITH CONCRETE FLOATS

- Frame made of electrowelded hot-dip galvanized steel, main profiles UNP 180/220 mm
- Decking in exotic wood or Novowood (Wood Plastic Composite) fixed with stainless steel bolts and screws.
- Concrete floats reinforced with polypropylene fibres, internal hot-dip galvanized steel reinforcement, polystyrene core and stainless steel fixing-pins to main frame.
- Aluminium lateral removable duct covers, on request also in exotic timber of Novowood (Wood Plastic composite).
- Lateral fender made of Novowood.
- Flexible joint system consisting of stainless steel bolts and neoprene rubber bushes.
- Duplex treatment on request.



TECHNICAL DATA

CODE	MAIN PROFILE UNP	FLOATS	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
					DECKING SURFACE	STRUCTURE WIDTH		
DB036002	180	CF234	12	2,55	270	210	0,6	376
DB036003	180	CF234	8	2,55	270	210	0,6	378
DB036081	180	CF351	12	2,35	265	210	0,6	426
DB036082	180	CF351	8	2,35	265	210	0,6	432
DB036201	220	CF234	12	2,55	260	203	0,6	400
DB036202	220	CF234	8	2,55	260	202	0,6	404

PONTOON NETTUNO 180/220 PEC VERSION WITH POLYETHYLENE FLOATS

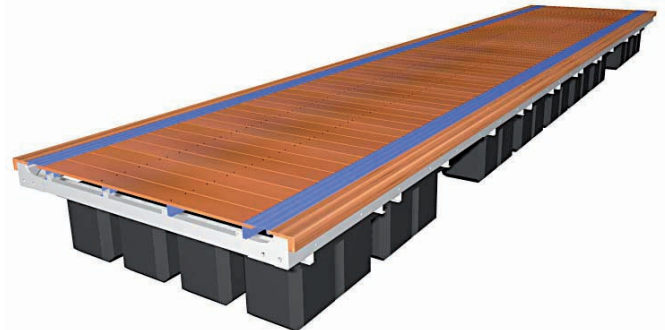
- Frame made of electrowelded hot-dip galvanized steel, main profiles UNP 180/220 mm
- Decking in exotic wood or Novowood (Wood Plastic Composite) fixed with stainless steel bolts and screws.
- Floating units with roto-moulded polyethylene external body filled with special light concrete by closed cell polystyrene foam (PEC FLOAT is a Sistema Walcon patent)
- Aluminium lateral removable duct covers, on request also in exotic timber or Novowood.
- Lateral fender made of Novowood.
- Flexible joint system consisting of stainless steel bolts and neoprene rubber bushes.
- Duplex treatment on request.



TECHNICAL DATA								
CODE	MAIN PROFILE UNP	FLOATS	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
					DECKING	STRUCTURE		
DB036401	180	PEC	12	2,55	200	170	0,6	315
DB036402	180	PEC	8	2,55	200	170	0,6	320
DB036405	180	PEC	12	2,35	200	170	0,6	300
DB036406	180	PEC	8	2,35	200	170	0,6	310
DB036221	220	PEC	12	2,55	200	170	0,65	320
DB036222	220	PEC	8	2,55	200	170	0,65	330
DB036350	220	PEC	12	3	240	200	0,65	415
DB036351	220	PEC	8	3	240	200	0,65	420

PONTOON NETTUNO 180/220 PF VERSION WITH POLYETHYLENE FLOATS

- Frame made of electrowelded hot-dip galvanized steel, main profiles UNP 180/220 mm
- Decking in exotic wood or Novowood (Wood Plastic Composite) fixed with stainless steel bolts and screws.
- Floating units with roto-moulded polyethylene external body filled with special light concrete by closed cell polystyrene foam core.
- Aluminium lateral removable duct covers, on request also in exotic timber or Novowood.
- Lateral fender made of Novowood.
- Flexible joint system consisting of stainless steel bolts and neoprene rubber bushes.
- Duplex treatment on request.



TECHNICAL DATA								
CODE	MAIN PROFILE UNP	FLOATS	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
					DECKING	STRUCTURE		
DB036021	180	PF	12	2,55	110	90	0,5	170
DB036031	180	PF	12	2,55	160	130	0,55	175
DB036041	180	PF	12	2,55	210	160	0,6	180
DB036022	180	PF	8	2,55	110	90	0,5	175
DB036032	180	PF	8	2,55	160	130	0,55	180
DB036042	180	PF	8	2,55	210	160	0,6	190
DB036075	180	PF	12	2,35	110	90	0,5	150
DB036070	180	PF	12	2,35	160	130	0,55	160
DB036060	180	PF	12	2,35	230	180	0,6	170
DB036077	180	PF	8	2,35	110	90	0,5	165
DB036072	180	PF	8	2,35	160	130	0,55	170
DB036062	180	PF	8	2,35	230	180	0,6	180
DB036141	220	PF	12	2,55	215	165	0,65	185
DB036142	220	PF	8	2,55	215	165	0,65	195

PONTOON NETTUNO CATAMARANO

- Frame made of electrowelded hot-dip galvanized steel, main profiles UNP 220 mm.
- N°8 reinforced concrete floating units with high density polystyrene foam core, catamaran layout.
- Decking made of exotic timber staves/Novowood (wood plastic composite), fixed with stainless steel bolts and screws.
- Aluminium lateral removable duct covers, on request also in exotic timber or Novowood.
- Lateral fender made of Novowood.
- Flexible joint system consisting of stainless steel bolts and neoprene rubber bushes.
- Duplex treatment on request.

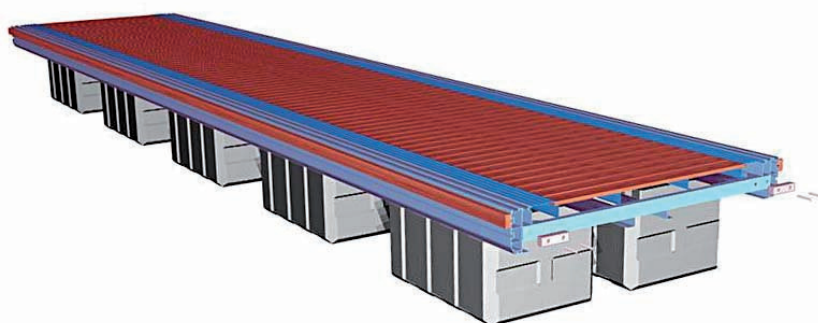


TECHNICAL DATA

CODE	FLOATS	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
				DECKING	STRUCTURE		
DB036300	CF01	12	3	350	290	0,65	590
DB036301	CF01	8	3	400	330	0,65	650

PONTOON DYNAMIC

- Frame made of extruded profile in marine aluminum alloy patented Sistema Walcon (weight 18Kg/m), electrowelded with TIG-MIG process.
- Decking made of exotic wood or Novowood (Wood Plastic Composite) fixed to the frame with stainless steel screws.
- Floating units with roto-moulded polyethylene external body filled with special light concrete by closed cell polystyrene foam (Sistema Walcon Patent).
- Aluminium lateral removable duct covers.
- Lateral fender made of exotic timber/Novowood.
- Flexible joint system, consisting of stainless steel bolts incorporating neoprene rubber bushes.



TECHNICAL DATA

CODE	FLOATS	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
				DECKING	STRUCTURE		
DB086001	PEC	12	2,55	220	200	0,7	370
DB086002	PEC	8	2,55	250	200	0,7	380

PONTOON TITANIUM

- Frame made of electrowelded stainless steel AISI 316 titanium alloy profiles.
- Decking made of precious exotic timber staves/Novowood (wood plastic composite), fixed with stainless steel bolts and screws.
- Concrete float reinforced with polypropylene fibres, internal hot-dip galvanized steel reinforcement, polystyrene core and stainless steel fixing-pins to maine frame.
- Aluminium lateral removable duct covers, on request also in exotic timber or Novowood.
- Lateral fender made of Novowood.
- Flexible joint system consisting of stainless steel bolts and neoprene rubber bushes.



TECHNICAL DATA

CODE	FLOATS	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
				DECKING	STRUCTURE		
DB088011	CF234	12	2,55	270	210	0,6	350
DB088012	CF234	8	2,55	270	210	0,6	355
DB088013	CF234	12	2	365	270	0,6	340
DB088014	CF234	8	2	365	270	0,6	342

HEAVY FLOAT PONTON

- Frame made of electrowelded hot-dip galvanized steel, main profiles UNP 180 or 220 mm.
- Decking made of precious exotic wood staves/Novowood, fixed with stainless steel bolts and screws.
- One-piece concrete float with high density polystyrene foam core. Galvanized and stainless steel reinforcement and stiffening baffles.
- Aluminium lateral removable duct covers, on request also in exotic timber or Novowood.
- Lateral fender made of Novowood.
- Flexible joint system consisting of stainless steel bolts and neoprene rubber bushes.
- Duplex treatment on request.

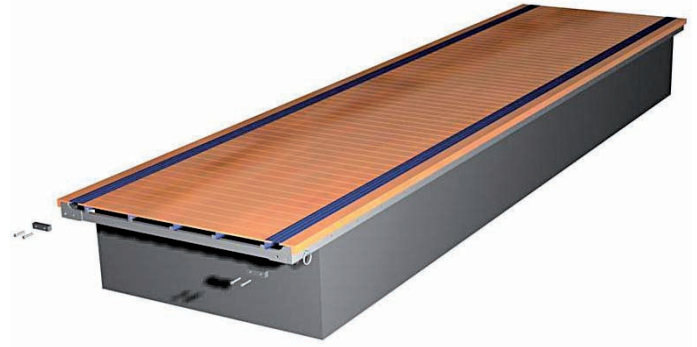


TECHNICAL DATA

CODE	MAIN PROFILE UNP	ANCHORING	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
					DECKING	STRUCTURE		
DB058030	180	PILE	12	2,55	560	440	0,65	1160
DB058040	180	PILE	8	2,55	530	410	0,65	1220
DB058010	220	PILE	12	2,55	550	430	0,7	1180
DB058020	220	PILE	8	2,55	510	400	0,7	1230
DB058110	220	CHAIN	12	2,55	550	430	0,7	1190
DB058120	220	CHAIN	8	2,55	510	400	0,7	1250

MEGAFLOAT PONTON

- Frame made of electrowelded hot-dip galvanized steel, main profile UPN 220 mm.
- Decking made of exotic timber staves/Novowood, fixed with stainless steel screws.
- One-piece concrete float with high density polystyrene foam core. Galvanized and stainless steel reinforcement and stiffening baffles.
- Aluminium lateral removable duct covers, on request also in exotic timber or Novowood.
- Lateral fender made of Novowood.
- Flexible joint system consisting of stainless steel bolts and neoprene rubber bushes.
- Duplex treatment on request.



TECHNICAL DATA								
CODE	MAIN PROFILE UNP	ANCHORING	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
					DECKING	STRUCTURE		
DB060000	220	PILE	12	3	570	470	0,7	1280
DB060010	220	PILE	8	3	580	480	0,7	1340
DB060100	220	CHAIN	12	3	570	470	0,7	1300
DB060110	220	CHAIN	8	3	540	440	0,7	1360

GIGAFLOAT PONTON

- One-piece structure made of reinforced concrete, with high density polystyrene foam core.
- Decking made of treated concrete with special finishing, or hard wood, Novowood on request.
- Removable duct covers made of hard wood, or Novowood.
- Neoprene blocks and stainless steel ducts.



ACCESSORIES

- lateral guidance TYPE halfen stainless steel or galvanized
- sidewalls STRUCTURE fixing cleats moorign for large yachts

TECHNICAL DATA							
CODE	FLOATS	LENGTH (m)	WIDTH (m)	DECKING	LIVE LOAD (Kg/sqm)	FREE BOARD (m)	DEAD LOAD (Kg/m)
DB061000	ONE-PIECE	11	2,9	CONCRETE	600	0,60	1500
DB061110	ONE-PIECE	16	3	CONCRETE	600	0,60	1800
DB061120	ONE-PIECE	20	3	CONCRETE	600	0,60	1800
DB061130	ONE-PIECE	16	3,5	CONCRETE	600	0,60	2000
DB061140	ONE-PIECE	20	3,5	CONCRETE	600	0,60	2000
DB061150	ONE-PIECE	16	4	CONCRETE	600	0,60	2200
DB061160	ONE-PIECE	20	4	CONCRETE	600	0,60	2200
DB061210	ONE-PIECE	16	3	WOOD / WPC	650	0,60	1920
DB061220	ONE-PIECE	20	3	WOOD / WPC	650	0,60	1920
DB061230	ONE-PIECE	16	3,5	WOOD / WPC	650	0,60	2140
DB061240	ONE-PIECE	20	3,5	WOOD / WPC	650	0,60	2140
DB061250	ONE-PIECE	16	4	WOOD / WPC	650	0,60	2360
DB061260	ONE-PIECE	20	4	WOOD / WPC	650	0,60	2360

CANOTTAGGIO PONTOON

TYPE A: CODE. (DB090001)

- Electrowelded hot-dip galvanized steel frame for decking support.
- Decking made of precious exotic timber staves/Novowood (wood plastic composite), fixed with stainless steel screws.
- Monoblock concrete float with a high density polystyrene foam core and galvanized and stainless steel reinforcement.
- Lateral fender made of exotic timber/Novowood.
- Neoprene blocks and stainless steel ducts.

TYPE B: CODE. (DB090002)

- Decking made of concrete treated with special anti-slip finishing.
- One-piece concrete float with a high density polystyrene foam core galvanized stainless steel reinforcement.
- Lateral fender made of exotic timber.
- Flexible neoprene joint system blocks and stainless steel bolts.



TECHNICAL DATA

CODE	FLOATS	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)		FREE BOARD (m)	DEAD LOAD (Kg/m)
				DECKING	STRUCTURE		
DB090001	MONOBLOCK	6	2,5	180	180	0,25	780
DB090002	MONOBLOCK	6	2,2	224	224	0,23	690

ACQUARIA PLATFORM

- Profiles made of special aluminium alloy patented extruded for marine environment use (profile 7 kg/m), electrowelded with TIG-MIG system.
- Polyethylene floats.
- Decking made of marine plywood covered by rubber film or moquette.
- Central anchoring clamp for chains connection (excluded).
- Expanded polyurethane lateral fender.



TECHNICAL DATA

CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg)	FREE BOARD (m)	DEAD LOAD (Kg/m)
DB506101	3	2,45	480	0,50	300

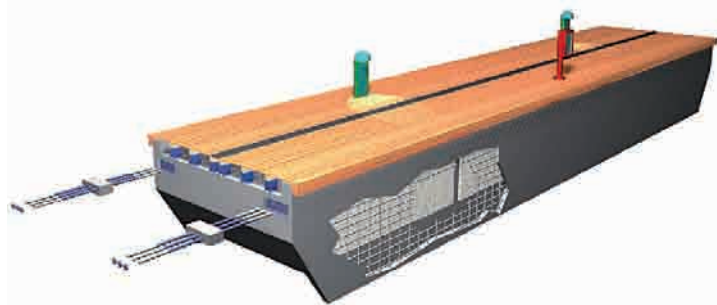
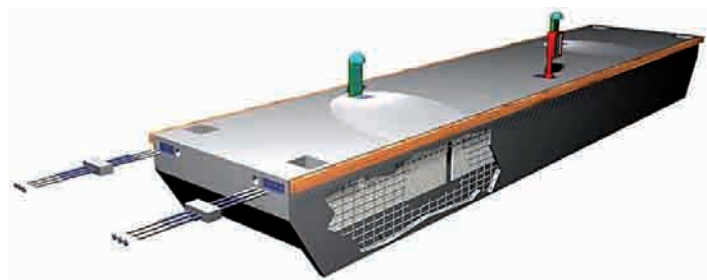
BW 500



- One-piece floating element, made of reinforced concrete lightened by a core of polystyrene foam.
- Stabilizing keels.
- Decking made of concrete treated with special anti-slip finishing/exotic wood/Novowood (wood plastic composite)
- Plant installation presetting.
- Connection system composed by neoprene rubbers, stainless steel cable and stainless steel bolts and nuts.
- Wood/Synthetic lateral fender.

TECHNICAL DATA						
CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	FREE BOARD (m)	DEAD LOAD (Ton/m)	HIGH DRY (m)
DB005001	20	5*	800	0,80	7,50	2,5
DB005002	20	5*	850	0,90	8,25	2,75

BW 400



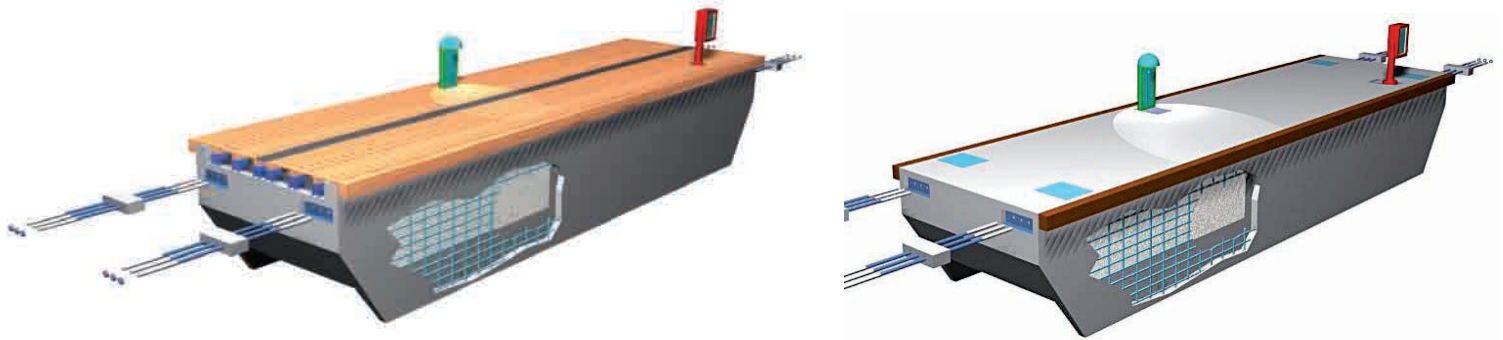
- One-piece floating element, made of reinforced concrete lightened by a core of polystyrene foam.
- Stabilizing keels
- Decking made of concrete treated with special anti-slip finishing/exotic wood/Novowood (wood plastic composite)
- Plant installation presetting.
- Connection system composed by neoprene rubbers, stainless steel cable and stainless steel bolts and nuts.
- Wood/Synthetic lateral fender.

TECHNICAL DATA						
CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	FREE BOARD (m)	DEAD LOAD (Ton/m)	HIGH DRY (m)
DB004000	20	4 *	600	0,60	4,20	2
DB004001	20	4 *	750	0,8	4,75	2,25

WAVE ATTENUATOR FLOATING PONTOONS

SISTEMA®
WALCON®

BW 300



- One-piece floating element, made of reinforced concrete lightened by a core of polystyrene foam.
- Decking made of concrete treated with special anti-slip finishing/exotic wood/Novowood (wood plastic composite)
- Stabilizing keels
- Plant installation presetting.
- Connection system composed by neoprene rubbers, stainless steel cable and stainless steel bolts and nuts.
- Wood/Synthetic lateral fender.

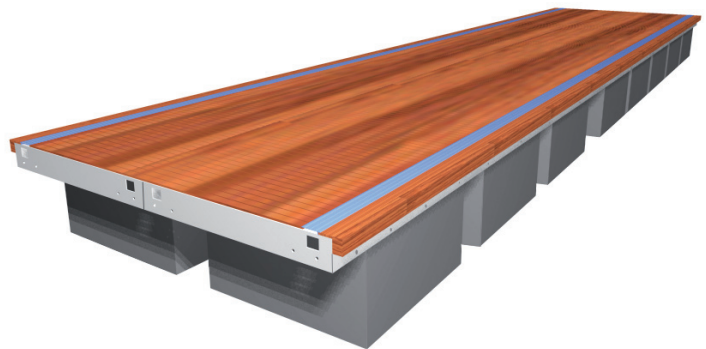
TECHNICAL DATA						
CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	FREE BOARD (m)	DEAD LOAD (Ton/m)	HIGH DRY (m)
DB002000	16	3 *	600	0,60	2,50	2
DB002001	169	3 *	600	0,65	3,75	2

WAVE ATTENUATOR FLOATING PONTOONS

SISTEMA®
WALCON®

MOLO BW 20/48

- Frame made of electrowelded hot-dip galvanized steel, main profiles UNP 300 mm.
- Decking made of exotic timber staves/Novowood, fixed with stainless steel screws.
- Keeled concrete floats reinforced with polypropylene fibre, internal hot-dip galvanized steel reinforcement, polystyrene core and stainless steel fixing-pins to main frame
- Aluminium lateral removable duct covers, central decking pannel made of exotic hard wood/Novowood.
- Lateral fender made of exotic wood and/or special rubber.
- Joint system consisting in neoprene blocks and steel cables.
- Duplex treatment on request.



TECHNICAL DATA					
CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	FREE BOARD (m)	DEAD LOAD (Kg/m)
DB001000	20	4,8	350	0,75	1500

* The full width, with the fender assembled, is +20cm than indicated

IMPORTANT: For further information and for attenuator diagram please visit our web site: www.sistemawalcon.com.

FIXED PONTOON MAXISPAN

- Frame made of special aluminium alloy profiles for marine environment.
- Decking made of precious exotic timber staves, fixed with stainless steel bolts and screws.
- Aluminium lateral removable duct covers.
- Lateral fender made of exotic timber/Novowood.
- Support and piles excluded.



TECHNICAL DATA				
CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	WEIGHT (Kg/m)
DB092001	13,60	1,5	400	75
DB092002	13,60	2		85
DB092003	13,60	2,5		95
DB092004	13,60	3		140
DB092005	13,60	4		155
DB092006	13,60	5		170

ACCESS GANGWAYS

ALUMINIUM ALLOY FRAME

TECHNICAL DATA			
CODE	LENGTH (m) *	WIDTH (m)	CONNECTION Type
DB275041	4	1,3	HINGE
DB275042	4	1,3	ARTICULATED
DB275043	4	1,3	FOR PORTAL
DB275061	6	1,3	HINGE
DB275062	6	1,3	ARTICULATED
DB275063	6	1,3	FOR PORTAL
DB275081	8	1,3	HINGE
DB275082	8	1,3	ARTICULATED
DB275083	8	1,3	FOR PORTAL
DB275101	10	1,5	HINGE
DB275102	10	1,5	ARTICULATED
DB275103	10	1,5	FOR PORTAL
DB275121	12	1,5	HINGE
DB275122	12	1,5	ARTICULATED



- Main frame made of electrowelded aluminium alloy profiles for marine environment use.
- Decking made of exotic wooden staves/WPC, fixed with stainless steel bolts and screws.
- Hot-dip galvanized steel connection to quay.
- Plastic slip wheels and decking protection steel plates.
- Hot-dip galvanized steel connector flap.**
- Aluminium lateral handrails with foot protection made of exotic wood or WPC.

ACCESS GANGWAYS

HOT-DIP GALVANIZED STEEL FRAME

- Main frame made of electrowelded hot-dip galvanized steel profiles.
- Decking made of exotic wooden staves/WPC, fixed with stainless steel screws.
- Hot-dip galvanized steel connection to quay.
- Plastic slip wheels and decking protection steel plates.
- Hot-dip galvanized steel flap.**
- Hot-dip galvanized steel lateral handrails with foot protection made of exotic wood or WPC.

TECHNICAL DATA			
CODE	LENGTH (m)	WIDTH (m)	CONNECTION Type
DB270041	4	1,3	HINGE
DB270042	4	1,3	ARTICULATED
DB270043	4	1,3	FOR PORTAL
DB270061	6	1,3	HINGE
DB270062	6	1,3	ARTICULATED
DB270063	6	1,3	FOR PORTAL
DB270002	8	1,3	HINGE
DB270003	10	1,5	HINGE
DB270004	14	1,5	HINGE



** not included in case of ligning portal

ACCESS GANGWAYS

CURVED TYPE WITH ALUMINIUM ALLOY FRAME

- Frame made of electrowelded aluminium alloy profiles for marine environment use.
- Decking made of exotic timber staves/Novowood, fixed with stainless steel bolts and screws.
- Hot-dip galvanized steel connection to the quay.
- Plastic slip wheels and decking protection steel plates.
- Hot-dip galvanized steel connector flap.**
- Aluminium lateral handrails with foot protection made of exotic wood or Novowood.

TECHNICAL DATA			
CODE	LENGTH (m)	WIDTH (m)	CONNECTION Type
DB275801	8	1,3	HINGE
DB275802	8	1,3	ARTICULATED

** Not included in case of ligning portal



ACCESS GANGWAY NETTUNO

- Main frame made of electrowelded hot-dip galvanized steel bars, main profiles UNP 180 or 220 mm.
- Reinforced concrete floating units with high density polystyrene foam core. Model and number to be define.
- Decking made of exotic wood staves/Novowood, fixed with stainless steel screws.
- Aluminium lateral removable duct covers, on request also in exotic timber or Novowood.
- Duplex treatment on request.
- Connection to quay depends on pontoon mooring systems.
- Lateral fender made of Novowood.
- Antares version on request.

TECHNICAL DATA				
CODE	MAIN PROFILE UPN	PONTOON mooring system	LENGTH (m)	WIDTH (m)
DB316101	180	CHAINS	12	2,5
DB316102	180	CHAINS	8	2,5
DB316105	180	CHAINS	12	2,35
DB316106	180	CHAINS	8	2,35
DB316111	180	PILES	12	2,5
DB316112	180	PILES	8	2,5
DB316115	180	PILES	12	2,35
DB316116	180	PILES	8	2,35
DB316201	220	CHAINS	12	2,5
DB316202	220	CHAINS	8	2,5
DB316211	220	PILES	12	2,5
DB316212	220	PILES	8	2,5



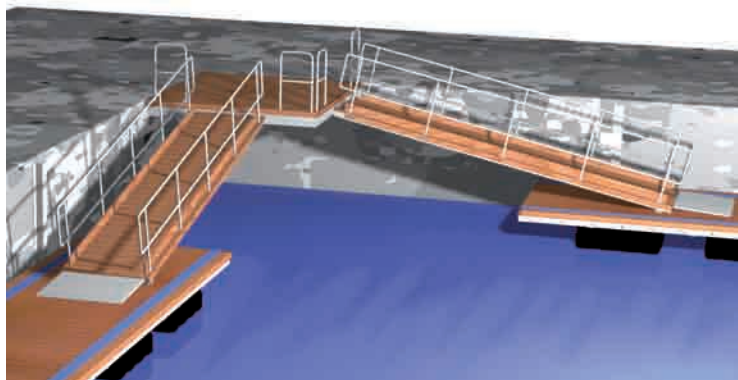
GANGWAYS' PLATFORM ACCESS HOT-DIP GALVANIZED FRAME

- Main frame made of electrowelded hot-dip galvanized steel bars, main profiles UNP.
- Decking made of exotic wood staves/Novowood (wood plastic composite), fixed with stainless steel screws.
- Novowood lateral finishing.

TECHNICAL DATA		
CODE (m)	LENGTH (m)	WIDTH
GM512000	2,25	2,25

Dimension depending on:

- type and height of quay;
- number and gangways typology.



ARTICULATED ACCESS GANGWAYS ALUMINIUM ALLOY OR HOT-DIP GALVANIZED STEEL FRAME

- Frame made of electrowelded aluminium alloy profiles for marine environment user (hot-dip galvanized steel).
- Decking made of exotic timber staves, fixed with stainless steel screws.
- Plastic slip wheels and decking protection steel plates.
- Hot-dip galvanized steel flap.
- Aluminium (hot-dip galvanized steel alternative) lateral handrails with foot protection.
- Articulated joint for water high level.

TECHNICAL DATA				
CODE	TYPE OF MATERIAL	LENGTH * (m)	WIDTH (m)	CONNECTION Type
DB276005	ALUMINIUM	(4+1)	1,3	HINGE
DB271005	STEEL	(4+1)	1,3	HINGE

* Other dimension on request



GANGWAYS LIFTING STRUCTURE

- Hot-dip galvanized steel structure.
- Stainless steel pulley for gangway lifting and polyester cable.
- Cleats for cable fixing lifting.
- Top panel pre-setting.
- Bolts and screws for fixing.

ACCESSORIES INCLUDED:

- Stainless steel pulley for gangway lifting and polyester cable.
- DB499002 – gangway lifting system to 4m
DB499003 – gangway lifting system to 6m
DB499004 – gangway lifting system to 8m
DB499005 – gangway lifting system to 8m



TECHNICAL DATA			
CODE	WIDTH (m)	HEIGHT (m)	NOTE
GM519013	2,3	4,6	FOR GANGWAYS WIDTH 1,3 m
GM519015	2,5	4,6	FOR GANGWAYS WIDTH 1,5 m

PONTOONS ACCESS GATE

ALUMINIUM ALLOY

- Structure made of anodized aluminium alloy

TECHNICAL DATA		
CODE	WIDTH (m)	HEIGHT (m)
GM518100	2,5	3

HOT-DIP GALVANIZED STEEL

- Structure made of hot-dip galvanized steel (painted on request).

TECHNICAL DATA		
CODE	WIDTH (m)	HEIGHT (m)
GM518200	2,5	3

STAINLESS STEEL

- Structure made of stainless steel.

TECHNICAL DATA		
CODE	LENGTH (m)	WIDTH (m)
GM518300	2,5	3



- Stainless steel fixing system.
- Possibility to custom design and dimensions

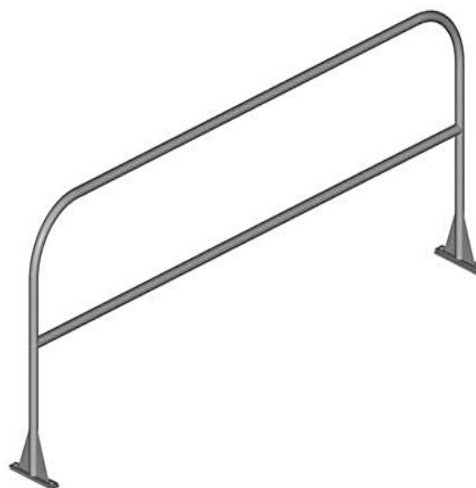
OPTIONAL ACCESSORIES

- Identificative pontoons' lights.
- Electronic, key or card opening system.

BALLONY OF PONTOON HEAD

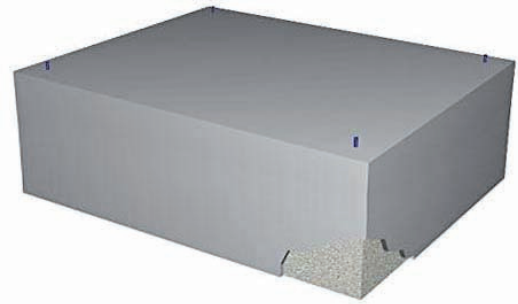
- Stainless steel structure.
- On request also aluminium alloy or galvanized steel structure are available.
- Stainless steel bolts for pontoon fixing included.
- On request possible personalization as light, indicator panel introduction, etc.

TECHNICAL DATA		
CODE	LENGTH (m)	MATERIAL
PF732202	2,0	stainless steel
PF732201	2,5	stainless steel



EXTRA OR ADDITIONAL FLOATS CONCRETE MODELS

TECHNICAL DATA					
CODE	TYPE	LENGTH (m)	WIDTH (m)	HEIGHT (m)	WEIGHT (Kg)
FOR PONTOONS ANTARES OR NETTUNO TYPE					
GA234504	CF 234	2,440	1,995	0,720	960
GA239501	CF 239	2,440	1,995	0,680	926
GA351500	CF 351	2,260	1,960	0,790	1200
FOR PONTOONS S2000 TYPE					
GA010501	CF 10	2,440	1,220	0,610	540
GA011501	CF 11	1,830	1,530	0,610	500
FOR PONTOONS NETTUNO AND CATAMARANO TYPE					
GA001501	CF 01	2,440	1,220	0,685	590
GA002501	CF 02	1,830	1,530	0,685	530



- Reinforced concrete external body.
- Fiber reinforced polypropylene, inner armor steel galvanized
- High quality polystyrene, closed cell, foam core.
- Stainless steel pin connection.
- Stainless steel bolts and screws for frame fixing.

EXTRA OR ADDITIONAL FLOATS PEC TYPE

- Roto-moulded polyethylene body, 15 mm thickness.
- Internal filled with special concrete lightened by closed cell polystyrene foam.
- Stainless steel fixing system.
- Patented Sistema Walcon.

TECHNICAL DATA				
CODE	LENGTH (m)	WIDTH (m)	HEIGHT (m)	WEIGHT (Kg)
GA430111	1,430	0,980	0,690	230 (*)

* Standard model

Different wight to be defined according to design specifications.



EXTRA OR ADDITIONAL FLOATS POLYETHYLENE (PF TYPE)

- Roto-moulded polyethylene external body.
- High density polystyrene, closed cell, foam core.
- Stainless steel fixing system.

TECHNICAL DATA					
CODE	APPLICATION	LENGTH (m)	WIDTH (m)	HEIGHT (m)	WEIGHT (Kg)
GA440001	Pontoon/Finger	1,005	0,545	0,520	15
GA440002	Pontoon/Finger	1,005	0,545	0,600	16
GA440003	Pontoon/Finger	1,005	0,545	0,700	17
GA440501	MINIFINGERS	0,700	0,300	0,850	13
GA440999	support for connection to minifinger				



JOINT SYSTEM

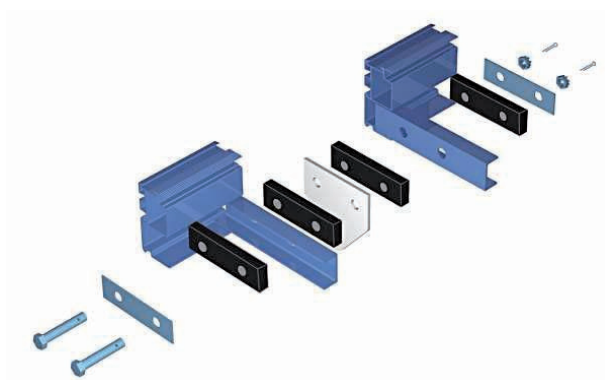
FOR PONTOONS ANTARES E DYNAMIC

Chains anchorage

Composed by:

- n° 4 screws M20x170mm UNI 5737 – A2
- n° 4 rectangular washers 220x50x5 mm 2 holes – galvanized steel
- n° 4 castellated nuts M24 UNI 5593 – A2
- n° 4 split pins Ø 4x40 UNI 1336 – A2
- n° 8 neoprene rubbers 220x60x25 mm
- n° 2 stainless steel brackets for chain connection.

CODE
GM 475005



JOINT SYSTEM

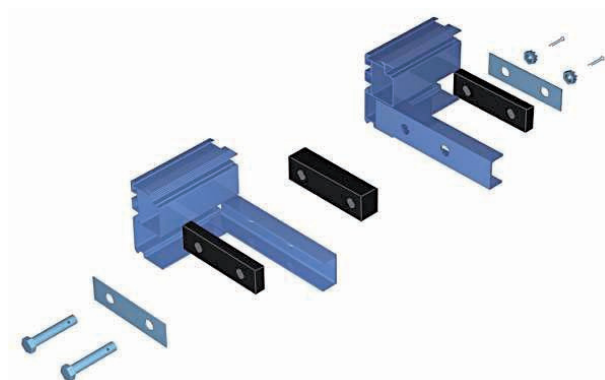
FOR PONTOONS ANTARES AND DYNAMIC

Pile anchorage

Composed by:

- n° 4 screws M20x150 mm UNI 5737 – A2
- n° 4 rectangular washers 220x50x5 mm 2 holes – galvanized steel
- n° 4 castellated nuts M24 UNI 5593 – A2
- n° 4 split pins Ø 4x40 mm UNI 1336 – A2
- n° 4 neoprene rubbers 220x60x25 mm
- n° 2 neoprene rubbers 220x60x50 mm

CODE
GM 475006



JOINT SYSTEM

FOR PONTOONS NETTUNO, HEAVY FLOAT, TITANIUM AND CATAMARANO

Any type of anchorage.

Composed by:

- n° 4 screws M20x170 mm UNI 5737 – A2
- n° 4 rectangular washers 220x50x5 mm 2 holes – galvanized steel
- n° 4 castellated nuts M24 UNI 5593 – A2
- n° 4 split pins Ø 4x40 mm UNI 1336 – A2
- n° 4 neoprene rubbers 220x60x25 mm
- n° 2 neoprene rubbers 220x60x50 mm

CODE
GM 475002



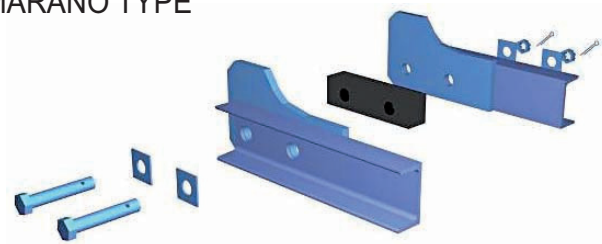
JOINT SYSTEM LIGHT VERSION

PONTOON NETTUNO, HEAVY FLOAT, TITANIUM AND CATAMARANO TYPE

Any type of anchorage

Composed by:

- n° 4 screws M20x130 UNI 5737 – A2
- n° 8 square washers 50x50x3 mm– galvanized steel
- n° 4 castellated nuts M20 UNI 5593 – A2
- n° 4 pins Ø 4x40 mm UNI 1336 – A2
- n° 2 neoprene rubbers 220x60x50 mm



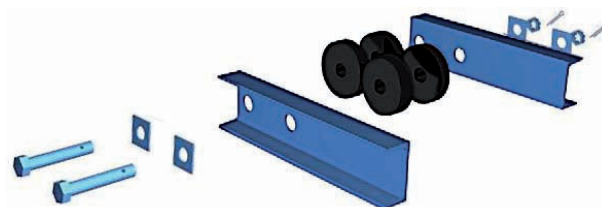
CODE
GM 475008

JOINT SYSTEM

PONTOON S21 e S2000 - With rounded neoprene rubbers.

Composed by:

- n° 4 screws M20x110 UNI 5737 – A2
- n° 8 square washers 50x50x3 mm Ø 21 – A4
- n° 4 castellated nuts M20 UNI 5593 – A2
- n° 4 pins Ø 4x40 mm UNI 1336 – A2
- n° 8 round neoprene rubbers Øe 100 Øi 28 sp. 25 mm



CODE	APPLICATION
GM 475000	PONTOON S21 TYPE
GM 475003	PONTOON S2000 TYPE

OTHER JOINT SYSTEMS

CODIGO ARTICULO	TIPOLOGIA
GM 475021	PONTOON CANOTTAGGIO
GM 475052	PONTOON BW 2048
GM474501	PONTOON BW 500
GM474502	PONTOON BW 500 - HINGE
GM 474101	PONTOON BW 400 TIPO
GM 474102	PONTOON BW 400 TIPO - HINGE
GM 474301	PONTOON BW 300
GM 474302	PONTOON BW 300 TIPO - HINGE
GM 475070	PONTOON GIGAFLOT

FINGER NETTUNO JOINT SYSTEM

CODE	APPLICATION
GM481001	FOR NETTUNO FINGER LENGTH \geq 8m (2 screws)
GM 481002	FOR NETTUNO FINGER LENGTH \geq 9m (4 screws)

FINGER ANTARES JOINT SYSTEM



CODE	TYPE	APPLICATION
GM476201	BRACKET ANTARES L = 300 mm complete	FOR ANTARES FINGER LENGTH = 6m
GM476202	BRACKET ANTARES L = 500 mm complete	FOR ANTARES FINGER LENGTH = 8m
GM476203	BRACKET ANTARES L = 700 mm complete	FOR ANTARES FINGER LENGTH \geq 10m

POLYDIRECTIONAL JOINT

- Polydirectional joint made of galvanized steel.
- Stainless steel bolts fixing included.
- Steel cover flap included.

TECHNICAL DATA	
CODE	FOR PONTOON LARGE(m)
GM486101	2,55
GM486102	2,35
GM486103	2,10



FENDERS DOBLE FOR FIXED NOVOWOOD (wood plastic composite)

CODE	HEIGHT (mm)	WIDTH (mm)	LENGTH (m)	COLOUR
MP860300	197	60	3	WOOD
MP861300	197	60	3	WOOD

- fixing system not included



FENDERS

WPC RECTANGULARE SECTION

CODE	HEIGHT (mm)	WIDTH (mm)	LENGTH (mm)	COLOUR
MP858405	90	45	4050	WOOD

- fixing system not included.



FENDERS

WPC "L" SECTION

CODE	HEIGHT (mm)	WIDTH (mm)	LENGTH (mm)	COLOUR
SL300001	90	155	4050	WOOD
MP857405	90	45	4050	WOOD

- fixing system not included.



FENDERS

RUBBER DELTA SECTION

CODE	HEIGHT (mm)	WIDTH (mm)	LENGTH (mm)	COLOUR
GM411052	80	65	2000	BLACK
GM411053	80	65	3000	BLACK

- Pre-hallowed, aluminium plate and bolts and screws for fender fixing included.



FENDERS

PVC FOR ANTARES PONTOON

CODE	HEIGHT (mm)	WIDTH (mm)	COLOUR
AC255005	70	37	BLU
AC255006 *	70	37	GRIGIO-BEIGE

* Available only for lots > of 30 modules



FENDERS

EXPANDED POLYURETHANE

CODE	HEIGHT (mm)	WIDTH (mm)	LENGTH (mm)	COLOUR
AC255100	90	40	900	WHITE

- fixing system not included.



EXOTIC WOOD STAVES/WPC

CODE	HEIGHT (mm)	WIDTH (mm)	LENGTH (mm)	MATERIAL
MP61401460	23	145	1460	EXOTIC WOOD
MP61401750	23	145	1750	EXOTIC WOOD
MP61401920	23	145	1920	EXOTIC WOOD
MP61431460	21	90	1460	EXOTIC WOOD
MP61431920	21	90	1920	EXOTIC WOOD
MP61432100	21	90	2100	EXOTIC WOOD
MP859146	22	145	1460	WPC
MP859175	22	145	1750	WPC
MP859192	22	145	1920	WPC

- Bolts and screw for fixing and holes not included.
- Others length available on request.



ALUMINIUM ALLOY/WPC/EXOTIC WOOD DUCT COVERS

CODE	PONTOON	WIDTH (mm)	LENGTH (mm)	MATERIAL
DB594310	NETTUNO	-	2990	ALLUMINIUM
DB594320	ANTARES	-	2990	ALLUMINIUM
DB594330	S2000	-	3000	ALLUMINIUM
GM369011	NETTUNO	320	910	EXOTIC WOOD
GM369025	NETTUNO	320	910	WPC

- Steel fixing kit included



FOR NETTUNO



FOR ANTARES



FOR NETTUNO

ACCESS GANGWAY WHEELS (COUPLE)

CODE
DB594002

- N° 2 wheels made of plastic material
- Nuts necessary for fixing (included)



PADS FOR PILEGUIDE

CODE
DB66400X3

- Kit includes 4 pads pileguide and bolts and screws for fixing



FIBRE GLASS RESIN CAP

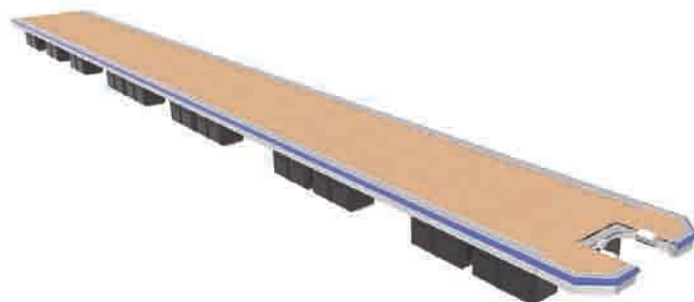
CODE	Ø DIAMETER (mm)
AC672000	220
AC672203	250
AC672205	265
AC672200	330
AC672201	370
AC672202	395
AC672204	406
AC272005	508
AC272006	530



- Pigmented by high resistance special gelcoat. Standard colour: white.
- Fixing non included.
- Varied colours on request.
- Also available in PE.

FINGER ANTARES LARGE YACHT rectangular shape

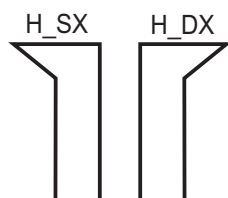
- Frame made of special electrowelded aluminium extruded (patent Sistema Walcon) profiles for marine use. (principal profile 6 Kg/m)
- Decking made of exotic timber staves/Novowood fixed with stainless steel bolts and screws.
- Roto-moulded polyethylene floats with high density closed cell polystyrene foam core, fixing system included.
- Connection to pontoon constituted by aluminium alloy brackets with neoprene absorbers and stainless steel nuts.
- Lateral fender made of anti-angling plastic materials and polyethylene round-head.
- Aluminium mooring cleats (n.04 for finger 6 m and 8 m;n.06 for finger 10 m and 12 m).



OPTIONALS

(see: mooring accessories)

- Extra cleats.
- Extra floats.



TYPE:

STD: Standard.

H_DX: Hammer head right.

H_SX: Hammer head left.

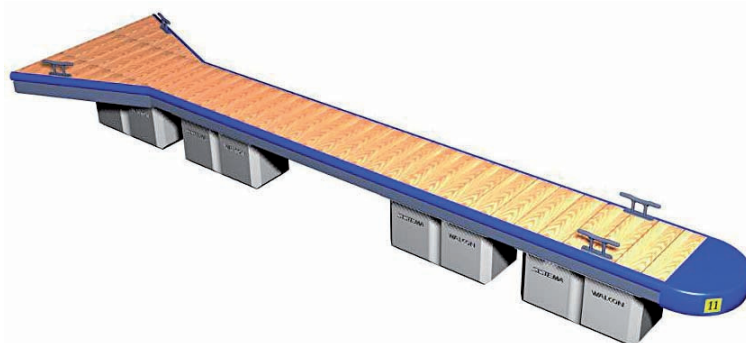
TECHNICAL DATA

CODE	TYPE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/mq)	FREE BOARD (m)
DB144710	STD	18	2	≥ 100	0,6
DB144711	STD	20	2	≥ 100	0,6
DB144730	STD	18	2	≥ 100	0,6
DB144740	STD	20	2	≥ 100	0,6

(*) Finger with head pileguide (pile not included).

FINGER ANTARES triangular shape

- Frame made of special electrowelded aluminium extruded (patent Sistema Walcon) profiles for marine use. (principal profile 3 Kg/m)
- Decking made of exotic timber staves/Novowood (wood plastic composite fixed with stainless steel bolts and screws.
- Roto-moulded polyethylene floats with high density closed cell polystyrene foam core, fixing system included.
- Connection to pontoon constituted by aluminium alloy brackets with neoprene absorbers and stainless steel nuts.
- Lateral fender made of anti-angling plastic materials and polyethylene round-head.
- Aluminium mooring cleats (n.04 for finger 6 m and 8 m;n.06 for finger 10 m and 12 m).



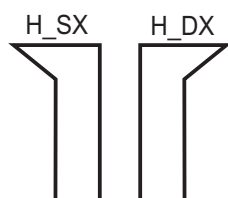
TECHNICAL DATA

CODE	TYPE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/mq)	FREE BOARD (m)
DB160060	STD	6	0,7	≥ 100	0,6
DB160080	STD	8	0,7	≥ 100	0,6
DB160100	STD	10	1	≥ 100	0,6
DB160120 (*)	STD	12	1,5	≥ 100	0,6
DB160061	H_SX	6	0,7	≥ 100	0,6
DB160062	H_DX	6	0,7	≥ 100	0,6
DB160081	H_SX	8	0,7	≥ 100	0,6
DB160082	H_DX	8	0,7	≥ 100	0,6
DB160101	H_SX	10	1	≥ 100	0,6
DB160102	H_DX	10	1	≥ 100	0,6

OPTIONALS

(see: mooring accessories)

- Extra cleats.
- Extra floats.



TYPE:

STD: Standard.

H_DX: Hammer head right.

H_SX: Hammer head left.

(*) Finger with head pileguide (pile not included).

FINGER NETTUNO

- Main frame made of electrowelded hot-dip galvanized steel.
- Decking made of exotic timber staves/Novowood (wood plastic composite) fixed with stainless steel bolts and screws.
- Roto-moulded polyethylene floats (alternative reinforced concrete polypropylene fibres) with high density closed cell polystyrene foam core, stainless steel fixing system included.
- Connection to pontoon constituted by aluminium alloy brackets with neoprene absorbers and stainless steel bolts.
- Aluminium mooring cleats (n.04 for finger 6 m and 8m;n.06 for finger 10 m and 12 m).
- Lateral fender made of exotic timber/Novowood and polyethylene rounded-head.
- On request, available inclined version

OPTIONALS

(see: mooring accessories)

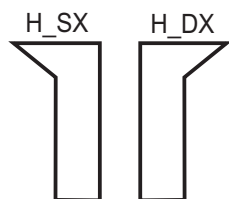
- C.P.S. (Continuous Positioning System): Hot-dip galvanized steel guide for continuous positioning finger-pontoon.
- Extra floats.
- Duplex treatment.
- Round head

TYPE:

STD: Standard.

H_DX: Hammer head destro.

H_SX: Hammer head sinistro.



TECHNICAL DATA

CODE	TYPE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	FREE BOARD (m)
DB114006	STD	6	0,7	≥ 100	0,6
DB114008	STD	8	0,7	≥ 100	0,6
DB114009	STD	9	0,7	≥ 100	0,6
DB114010	STD	10	1	≥ 100	0,6
DB114012 (*)	STD	12	1,5	≥ 100	0,6
DB114140	H_SX	6	0,7	≥ 100	0,6
DB114150	H_DX	6	0,7	≥ 100	0,6
DB114170	H_SX	8	0,7	≥ 100	0,6
DB114180	H_DX	8	0,7	≥ 100	0,6
DB114190	H_SX	9	0,7	≥ 100	0,6
DB114200	H_DX	9	0,7	≥ 100	0,6
DB114210	H_SX	10	1	≥ 100	0,6
DB114220	H_DX	10	1	≥ 100	0,6

(*) Finger with head pileguide (pile not included).

STAINLESS STEEL MINIFINGER

- Squared stainless steel tubulars AISI 304 main structure.
- Decking made of exotic timber staves/Novowood for the triangular part at the root, fixed to frame with stainless steel screws.
- Roto-moulded polyethylene floats with high density closed cell polystyrene foam core, stainless steel fixing system included.
- Connection to pontoons constituted by steel brackets with neoprene absorbers and stainless steel bolts and nut.
- Lateral fender made of exotic wood/Novowood and polyethylene head fender.
- Aluminium mooring cleats.
- On request, available inclined version

OPTIONALS

(see: mooring accessories)

- C.P.S. (Continuous Positioning System): Hot-dipgalvanized steel guide for continuous positioning finger-pontoon.
- Extra floats.
- Bracket joint system for pontoons Antares.



TECHNICAL DATA

CODE	TYPE ATTACK	LENGTH (m)	WIDTH (m)	FREE BOARD (m)
DB247001	HINGE	4,5	0,15	0,6
DB247002	HINGE	6	0,15	0,6
DB247011	CPS	4,5	0,15	0,6
DB247012	CPS	6	0,15	0,6

GALVANIZED STEEL MINIFINGER FOR PONTOONS NETTUNO

- Hot-dip galvanized steel electrowelded main frame.
- Decking made of exotic wooden staves for the triangular, fixed to frame with stainless steel screws.
- Roto-moulded polyethylene floats with high density closed cell polystyrene foam core, stainless steel fixing system included.
- Steel brackets connection to pontoon with neoprene absorbers and stainless steel nuts and bolts.
- Lateral fender made of exotic wood and polyethylene head fender.
- Aluminium mooring cleats.
- On request, available inclined version

OPTIONALS

(see: mooring accessories)

- C.P.S. (Continuous Positioning System): Hot-dip galvanized steel guide for continuous positioning fixing finger-pontoon.
- Extra floats.

TECHNICAL DATA				
CODE	TYPE ATTACK	LENGTH (m)	WIDTH (m)	FREE BOARD (m)
DB195001	HINGE	4,5	0,15	0,6
DB195002	HINGE	6	0,15	0,6
DB195011	CPS	4,5	0,15	0,6
DB195012	CPS	6	0,15	0,6

ARTICULATED FINGER FOR FIXED QUAY HOT-DIP GALVANIZED STEEL

- Hot-dip galvanized steel electrowelded frame.
- Decking made of precious exotic wood staves/Novowood (wood plastic composite), fixed with stainless steel bolts and screws.
- Roto-moulded polyethylene floats (alternative reinforced concrete) with high density closed cell polystyrene foam core, stainless steel fixing system.
- Galvanized steel plates for fixing to quay, semi-elastic joint system included.
- Lateral fender made of exotic wood/Novowood (wood plastic composite).
- Aluminium mooring cleats.



TECHNICAL DATA				
CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	FREE BOARD (m)
DB133901	6,00	0,80	120	0,60
DB133902	8,00	0,80	120	0,60

ARTICULATED FINGER FOR FIXED QUAY WITH HEAD PILEGUIDE HOT-DIP GALVANIZED STEEL FRAME

- Hot-dip galvanized steel electrowelded frame.
- Decking made of precious exotic wood staves/Novowood (wood plastic composite), fixed with stainless steel bolts and screws.
- Roto-moulded polyethylene floats (alternative reinforced concrete) with high density closed cell polystyrene foam core, stainless steel fixing system.
- Galvanized steel plates for fixing to quay, semi-elastic joint system completed.
- Lateral fender made of valuable exotic wood /WPC.
- Aluminium mooring cleats.
- Head pileguide completed by Teflon self-lubricating internal slide pads and stainless steel bolts.
- Pile not included



TECHNICAL DATA				
CODE	LENGTH (m)	WIDTH (m)	LIVE LOAD (Kg/sqm)	FREE BOARD (m)
DB133950	10,00	1,30	120	0,60
DB133951	12,00	1,5	120	0,60

HARD-WOOD MOORING PILE (Wood certificated against teredo attack) **Rounded section**

TECHNICAL DATA		
CODE	Ø (mm)	NOMINAL LENGTH (m)
MP769000	250 ≤ Ø ≤ 350	11,8

- Nchamfer piles excluded.
- Pile-cup not included.
- Point on request.
- Accessories and additional finishing on request.



HARD WOOD MOORING PILE (Wood certificated against teredo) **Squared section**

TECHNICAL DATA		
CODE	SECTION (mm)	LENGTH (m)
MP779000	200	8
MP779001	250	8

- Chamfer on request.
- Pile-cup not included.
- Point (2 or 4 sides) on request.
- Accessories and additional finishing on request.



MOORING VERTICAL ROPE ATTACK

TECHNICAL DATA			
CODE	Ø (mm)	HEIGHT (m)	MATERIAL
GM551010	20	0,50	steel galvanized
GM551020	20	1,00	steel galvanized
GM551510	20	0,50	steel
GM551520	20	1,00	steel

- Mooring system device to be fixed. mooring piles, composed by a vertical bar with two mooring rings movement. At the top a special hook is designed for mooring rope hang-up.
- System is completed by bolts and nuts for
- Ø 24 mm / Ø 30 mm version on request.
- the size of vertical rope attack depend to the size of the pile (Ø 24 mm / Ø 30 mm).



MOORING STEEL PILE rounded section

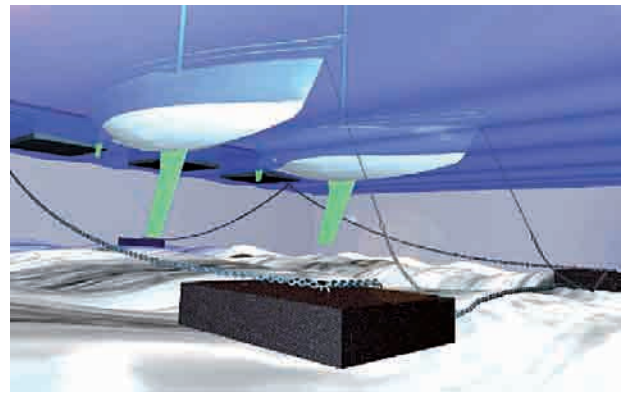
TECHNICAL DATA			
CODE	Ø (mm)	THICKNESS (mm)	LENGTH (m)
MP042220	220	12	12
MP042320	324	12	12
MP042022	406	12	12
MP042024	406	16	12
MP042025	406	20	12

- Protection treatment against corrosion (on request galvanization and/or painting).
- Point and cap not included.



MEDITERRANEAN MOORING (calculated for 3,5 m depth)

TECHNICAL DATA		
CODE	BOAT LENGTH (m)	TYPE
AC261006	6	STD
AC261008	8	STD
AC261010	10	STD
AC261012	12	STD
AC261015	15	STD
AC261018	18	STD
AC261021	21	STD
AC261025	25	STD
AC261106	6	SIMPLIFIED
AC261108	8	SIMPLIFIED
AC261110	10	SIMPLIFIED
AC261112	12	SIMPLIFIED
AC261115	15	SIMPLIFIED
AC261118	18	SIMPLIFIED
AC261121	21	SIMPLIFIED
AC261125	25	SIMPLIFIED



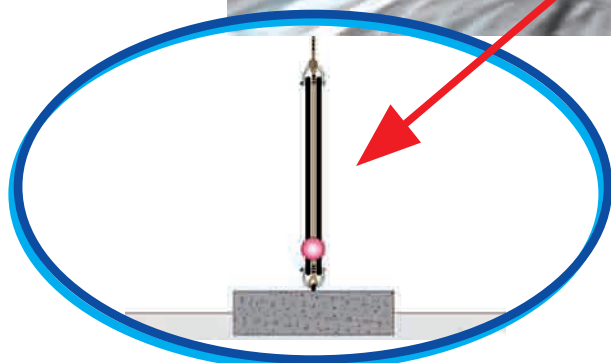
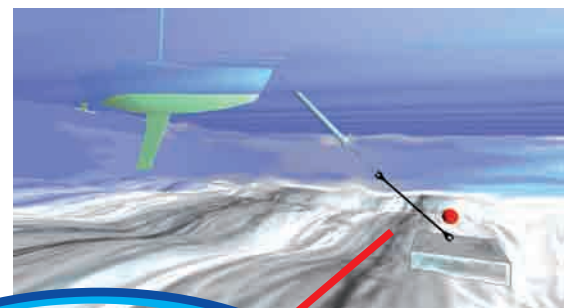
- Costituted by (standard version):
- Bottom chain, hot-dip galvanized steel, diameter Ø= (16÷30) mm with joint shackle;
 - Mooring chain, hot-dip galvanized steel, diameter Ø= (8÷20) mm.
 - Polyester mooring rope Ø= (8÷24) mm double thrown self-sinking with thimble and joint shackle.
 - tip connection to the dock.

Simplified version doesn't include bottom chain.

ELASTIC MOORING DEVICE - MOFLEX

- Floating buoy with mooring.
- Reinforced elastic elements joined together with stainless steel rings AISI316 (to be calculated according to design specifications).
- High tenacity and low elongation polyestere rope Square Plated (color white).
- Floating supporting buoy to avoid bottom damage.
- Addition accessories excluded, to be evaluated separately.
- Concrete anchor excluded.

TECHNICAL DATA		
CODE	N° STRANDS	LENGTH (m)
AC196115	1	1,5
AC196125	1	2,5
AC196130	1	3,0
AC196215	2	1,5
AC196225	2	2,5
AC196230	2	3,0
AC196330	3	3,0
AC196430	4	3,0



ALUMINIUM ALLOY / INOX CLEAT

TECHNICAL DATA				
CODE	APPLICATION	HEIGHT (mm)	WIDTH (mm)	TYPE
DB671002	ANTARES	110	320	AL ALLOY
DB671000	NETTUNO	110	320	AL ALLOY
DB671001	ANTARES	110	320	AL ALLOY
DB671004	NETTUNO	110	320	AL ALLOY
DB671050	NETTUNO	110	320	INOX
DB671060	NETTUNO	110	320	INOX

- Aluminium alloy cleat chill fused and chill hardening.
- Stainless steel bolts and screws for fixing included.



GALVANIZED STEEL MOORING RING

TECHNICAL DATA			
CODE	Ø ROUND (mm)	Ø INTERNAL (mm)	Ø SHANK (mm)
GM546001	20	100	M24 x L = 65

- Stainless steel mooring ring, with thread shank, nuts and washer for pontoon fixing.



STAINLESS STEEL MOORING RING

TECHNICAL DATA			
CODE	Ø ROUND (mm)	Ø INTERNAL (mm)	Ø SHANK (mm)
PF762008	20	100	M24 x L = 65

- Stainless steel mooring ring, with thread shank, nuts and washer for pontoon fixing.



GALVANIZED STEEL/STAINLESS STEEL AISI 304 MOORING RING FOR CONCRETE QUAY

TECHNICAL DATA				
CODE	Ø ROUND	Ø INTERNAL (mm)	HOLES (mm)	MATERIAL
PF762101	20	100	Ø14 Nr.4	steel galvanized
PF762110	20	100	Ø14 Nr.4	steel

- Hot-dip galvanized steel mooring ring, or steel AISI 304 with plate for fixing quay (bolts and screws for fixing on request, on agreement to specification design).



MINI RING TRAP HOLDER

TECHNICAL DATA				
CODE	Ø ROUND (mm)	Ø INTERNAL (mm)	HOLES (mm)	MATERIAL
AC2677001	8	46	Ø 4 Nr. 4	STAINLESS STEEL

- Stainless steel mooring ring, with plate for quay (bolts and screws for fixing on request, on agreement to specification design).



STAINLESS STEEL MOORING BOLLARD

TECHNICAL DATA			
CODE	Ø (Cm)	HEIGHT (Cm)	TYPE
PF763001	6	15	S
PF763002	9	20	M
PF763003	14	30	L
PF763004	17	35	XL
PF763005	20	40	XXL

- Stainless steel AISI 316, all arcoting welded.
- Base plate for pontoon or quay fixing.
- Top calotte customized on request
- Buffed surface.
- except fixing systems
- Available in galvanized steel



HOT-DIP CAST IRON

TECHNICAL DATA					
CODE	TYPE	BASE (mm)	HEIGHT (mm)	WEIGHT (Kg)	RUPTURE LOAD (t) *
GM548001	M1	160	160	7,5	4 ÷ 5
GM548002	M2	210	210	16,1	8 ÷ 10
GM548003	M3	300	320	42,0	15 ÷ 20
GM548004	M4	310	460	110,0	25 ÷ 30

- Hot-dip galvanized cast iron for immersion with fixing base.
- Neutral VTR cover included; customized on request.
- Fixing system not included.



(*) Maximal mooring stress took back in the TAB is to consider valid in case of the others structures (quay and anchorages) maybe to assure resistance > bollard resistance.

ROUND HEAD FOR FINGER

CODE	for FINGERS WIDTH of
GM565003	0,7 m
GM565004	1,0 m

- Polyethylene round head to fix on head to finger (same width to finger).
- Colour: blue
- Optional colour: fluorescent



CONTINUOUS POSITIONING SYSTEM

CODE	for FINGERS LENGTH of
GM482001	6 m
GM482001	8 m
GM482002	10 m
GM482003	12 m

- System C.P.S. (Continuous Positioning System): Hot-dip galvanized steel guide for continuous positioning finger-pontoon.



QUAY MOORING with chains and springs

- galvanized UNI 4419 chain lines, 16mm diameter, not less than 6m length
- Stainless steel plates on the front for chain connections;
- Shock-absorbing springs for the mooring of wharfs to the quay. 40sm length, 10cm diameter, with 18mm diameter galvanized steel rings and connecting shackles;
- Stainless steel rings on the quay;
- Connecting shackles.



QUAY HE BEAMS

Quay Mooring system for wharfs through HEA 240 mm beams, to be vertically fixed to the concrete quay.

The system comes with sliders, to be connected to the floating wharf to adjust the level variations of the water.



TECHNICAL DATA		
CODE	PROFILE	LENGTH (m)
GM536101	HEA 140	3
GM536102	HEA 140	2
GM536101	HEA 140	5

PILEGUIDE

CODE	POONTOON TYPE	TYPE
GM532151	FOR NETTUNO	STEEL
GM532020	FOR ANTARES	ALUMINUM

Aluminium electrowelded main frame, plastic self-lubricating internal slide pads, connection pontoon type slide bracket, stainless steel bolts and screws included.

HARD WOOD PILE (Certificated wood against teredo attack) **Squared section**

TECHNICAL DATA		
CODE	LATERAL SECTION (mm)	NOMINAL LENGTH (m)
MP779000	200	8
MP779001	250	8
MP769004	225	11,8
MP769005	250	11,8

- Chamfer on request.
- Pile-cup not included.
- Point (2 or 4 sides) on request.



HARD WOOD PILE (Certificated wood against teredo attack) **rounded section**

TECHNICAL DATA		
CODE	NOMINAL LENGTH(m)	Ø NOMINAL (mm)
MP769000	11,8	250 ≤ Ø ≤ 350

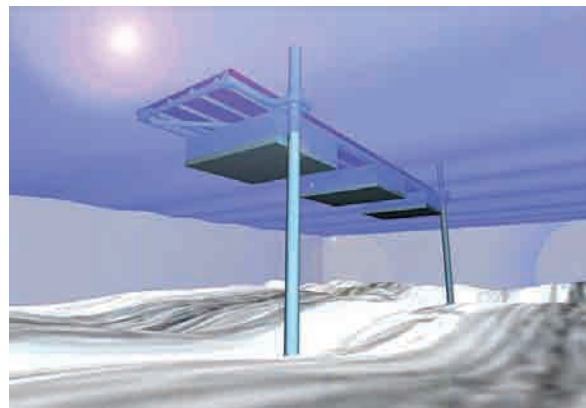
- Chamfer on request.
- Pile-cup not included.
- Point (2 or 4 sides) on request.



BLACK STEEL PILE - Rounded section

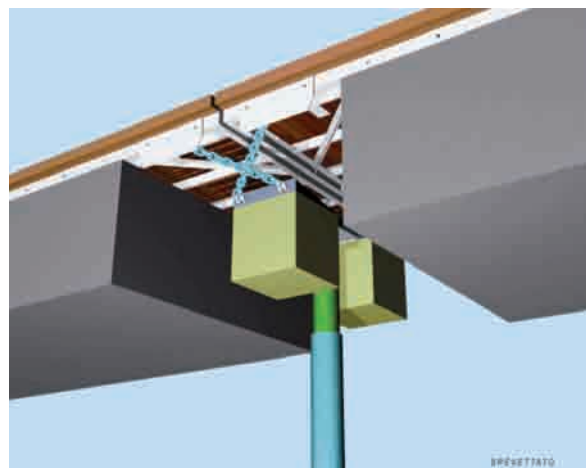
TECHNICAL DATA			
CODE	Ø (mm)	DEPTH (mm)	LENGTH (m)
MP042220	220	12	12
MP042320	324	12	12
MP042022	406	12	12
MP042024	406	16	12
MP042025	406	20	12

- Corrosion protection treatment on request (galvanized and painted).
- Point and pile-cup are not included.



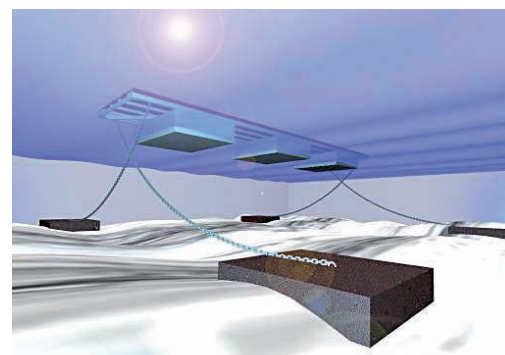
TELESCOPING PILING SYSTEM

- Hidden anchorage piles' system, no visible from the pontoon decking.
- Does not interfere with boats moored.
- Composed by 2 hot dip galvanized piles inserted one in the other one.
- Hold by an auxiliary galvanized structure connected to the floating pontoon with steel chains and supported by a plastic floating unit.
- Sistema Walcon patented.
- To be calculated in accordance to the design specifications.



CHAIN

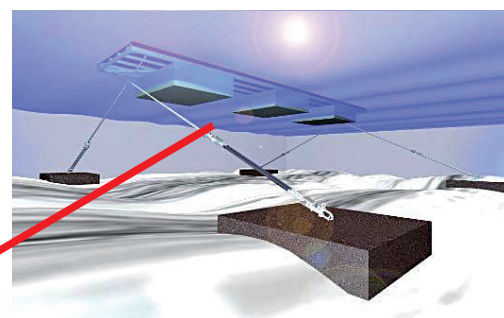
TECHNICAL DATA			
CODE		Ø (mm)	WEIGHT (Kg/m)
BLACK	galvanized		
AC199500	AC199007	8	1,33
AC199501	AC199008	10	2,08
AC199503	AC199005	12	2,90
AC199506	AC199006	14	4,10
AC199502	AC199002	16	5,32
AC199504	AC199009	18	6,70
AC199505	AC199010	20	8,10
AC199507	AC199011	22	10,00
AC199508	AC199012	24	12,00
AC199509	AC199001	26	14,00
AC199510	AC199003	30	16,00



- Steel chain for naval use, large link size UNI 4419.

SEAFLEX

TECHNICAL DATA		
CODE	N° STRAND	LENGTH (m)
AC194215	2	1,5
AC194220	2	2,0
AC194225	2	2,5
AC194230	2	3,0
AC194415	4	1,5
AC194420	4	2,0
AC194425	4	2,5
AC194430	4	3,0
AC194440	4	4,0
AC194450	4	5,0
AC194615	6	1,5
AC194620	6	2,0
AC194630	6	3,0
AC194640	6	4,0
AC194650	6	5,0
AC194820	8	2,0
AC194830	8	3,0
AC194840	8	4,0
AC194850	8	5,0
AC194103	10	3,0
AC194104	10	4,0
AC194105	10	5,0
AC194106	10	6,0



- Top polyester high tenacity and low elongation type Plated Square (white)
- Elastomer spring elements reinforced with woven fabric. Spliced to extremes in bushes steel AISI 316 (By size according to design specifications).
- Dead body except
- Accessories to be assessed separately

ANCHORAGE ARMS

- Tubular or reticular electrowelded, hot dip galvanized structure.
- Hinge connection with stainless steel screws
- Steel cables
- To be calculated in accordance with design specifications.

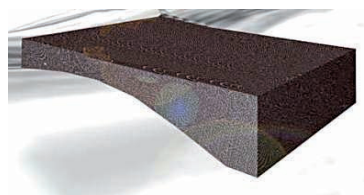
TECHNICAL DATA		
CODE	APPLICATION	TYPE
GM536500	FOR ANTARES PONTOONS	RETICULAR
GM536600	FOR NETTUNO PONTOONS	RETICULAR
GM536550	FOR ANTARES PONTOONS	TUBULAR
GM536650	FOR NETTUNO PONTOONS	TUBULAR



CONCRETE BLOCK

TECHNICAL DATA		
CODE	PESO (Kg)	DIMENSIONI (m) (LENGTH x WIDTH x Altezza)
PF163010	1000	1,20 x 1,20 x 0,26
PF163012	1200	1,30 x 1,30 x 0,28
PF163020	2000	1,50 x 1,50 x 0,35
PF163035	3500	2,00 x 1,50 x 0,45
PF163050	5000	2,50 x 2,50 x 0,35
PF163075	7500	2,50 x 2,50 x 0,55
PF163100	10000	2,50 x 2,50 x 0,70

- Ligth reinforced concrete, lifting and joint chains handle included.
- Dimensions weight up by specifications design.

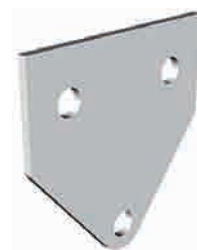


INTERMEDIATE PLATE FOR JOINT CHAINS

Pontoons Antares

CODE
PF679100

- Stainless steel plate with 3 holes.
- Bolts and screws not included (see joint system).

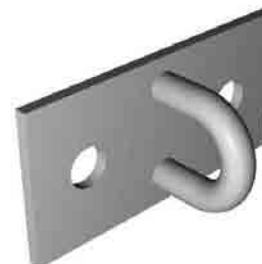


HEAD PLATE FOR JOINT CHAINS

Pontoons Antares and Nettuno

CODE	MATERIAL	APPLICATION
GM531101	STAINLESS STEEL	ANTARES/NETTUNO
GM531201	GALVANIZED	NETTUNO

- Steel plate (stainlees or galvanized) perforated.
- Bolts and screw included.



MOORING CLAMPS

Pontoon Nettuno

CODE	HOLE PITCH (mm)
GM531000	500 mm
GM531010	250 mm

- Hot-dip galvanized steel "omega" plate.
- Bolts and screws included.



PILEGUIDE FOR PONTOON ANTARES

CODE	DIAMETER PILE Ø (mm)
GM532000	220
GM532001	320
GM532002	406

- Aluminium electrowelded main frame.
- Lateral fender made of exotic wood.
- Plastic self-lubricating internal slide pads.
- Connection pontoon type slide bracket.
- Stainless steel bolts and screws included.



PILEGUIDE FOR PONTOONS NETTUNO, CATAMARANO, HEAVYFLOAT AND MEDITERRANEO

CODE	DIAMETER PILE Ø (mm)
GM532100	220
GM532101	320
GM532102	406

- Hot-dip galvanized steel electrowelded main frame.
- Lateral fender made of exotic wood.
- Plastic self-lubricating internal slide pads.
- Galvanized steel pontoon connection system.
- Stainless steel bolts and screws included.



OPTIONAL

- System C.P.S. (Continuous Positioning System):
Hot-dip galvanized steel for continuous positioning
pileguide-pontoon.
- pileguide slotted
- pileguide signal pile
- pileguide intermediate

DECKING BOARDS

- Pre-assembled decking boards.

TECHNICAL DATA			
CODE	MATERIAL	LENGTH (mm)	WIDTH (m)
GM371100	WPC	1,98	1,92
GM371200	HARD WOOD	1,98	1,92
GM371300	MORUBA	1,98	1,92



- Different dimensions on request

HEAD - PONTOON LIGHT

- lamp light and compact
- steady or flashing light emitted by LED (programmable)
- supply by battery to solar charging with photovoltaic cells incorporated in polyurethane resin UV
- fixing holes
- stainless steel support pile



TECHNICAL DATA			
CODE	COLOUR	Light range (mile n.)	PILE LENGTH (m)
DB674101	WHITE	1	1
DB674102	AMBER	1	1
DB674103	RED	1	1
DB674104	GREEN	1	1

PONTOON SIGNAL PILE AND EMERGENCY BOX

- Sistema Walcon – style, aluminium bodied pile.
- Stainless steel base board
- Stainless steel tip-point with light-reflective figures and high-energy, power-saving LED brightening system.
- Figures on three sides, LED lights on three sides
- Optional Led light on fourth side

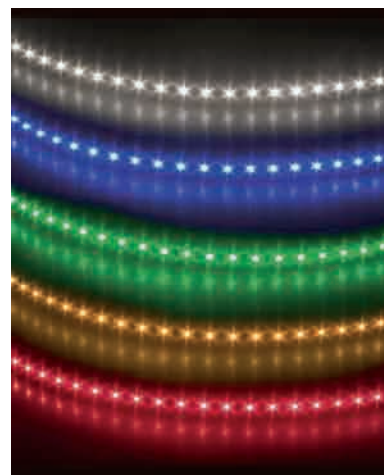
TECHNICAL DATA	
PILE HEIGHT (m)	NOTE
2,35	SIGNAL PILE



LED LIGHTS

- Strip LED lights.
- Easy fixing.
- Electrical connection.
- IP 66.
- Legth under request.

TECHNICAL DATA		
CODE	COLOR	LENGTH (m)
AC374001	WHITE	1
AC374002	YELLOW	1
AC374003	BLUE	1



SLIP WAY

- Main frame made of electrowelded hot-dip galvanized steel bars, main profiles UNP 180 or 220 mm.
- Reinforced concrete floating units with high density polystyrene foam core.
- Decking made of exotic wood staves/Novowood, fixed with stainless steel bolts and screws.
- Lateral fender made of exotic wood or wpc.
- Free board and capacity on request, on agreement to specification design.



TECHNICAL DATA			
CODE	MAIN PROFILE UPN	LENGTH (m)	WIDTH (m)
DB093001	180	12	2,5
DB093002	180	8	2,5
DB093011	220	12	2,5
DB093012	220	8	2,5
DB093101	180	12	5
DB093102	180	8	5
DB093111	220	12	5
DB093112	220	8	5

SERVICE BOLLARDS

SERVICE MODULE XS30

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour white.
- utilities n. 4 sockets, n. 4 taps
- sockets 16A - 32A - 63 A - 230 V interblocked ³32A IP66 anticorrosive treatment.
- N. 4 magnetothermic switches to sockets protection.
N. 1 magnetothermic switch to light protection
n. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
- On request with differential circuit breaker for each socket and isolator
- n. 4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
- Dimesion: 25x25x80 cm
- II insulation class C€



TECHNICAL DATA	
CODE	DESCRIPTION
ES205010	4X16A MONOPHASE
ES205030	4X32A MONOPHASE
ES205040	2X63A MONOPHASE

SERVICE MODULE DANNY 80

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour white.
- Access to the inside by means of a triangular lock;
- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
- utilities n. 2/4 sockets, n. 2/4 taps
- sockets 16A/32A/63A - 230 V interblocked IP66 anticorrosive treatment.
- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection
- N. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
- On request with differential circuit breaker for each socket and isolator
- N. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
- Dimension: 25x25x80 cm
- II insulation class **CE**

OPTIONAL:

- pre-paid system



TECHNICAL DATA

CODE	DESCRIPTION
ES201000	2X16A MONOPHASE
ES201010	4X16A MONOPHASE
ES201020	2X32A MONOPHASE
ES201021	2X32A THREE-PHASE
ES201030	4X32A MONOPHASE

SERVICE MODULES DANNY 110

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour white.
- Access to the inside by means of a triangular lock;
- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
- utilities n. 2/4 sockets, n. 2/4 taps
- sockets 16A/32A/63A - 230 V interblocked IP66 anticorrosive treatment.
- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection
- N. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
- On request with differential circuit breaker for each socket and isolator
- N. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
- Dimension: 25x25x110 cm
- II insulation class **CE**

OPTIONAL:

- pre-paid system



TECHNICAL DATA

CODE	DESCRIPTION
ES202000P	2X16A MONOPHASE+PRE-PAID
ES202010P	4X16A MONOPHASE+PRE-PAID
ES202020P	2X32A MONOPHASE+PRE-PAID
ES202021P	2X32A THREE-PHASE+PRE-PAID
ES202030P	4X32A MONOPHASE+PRE-PAID

SERVICE MODULES ETRUSCA

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour white-blue
- Access to the inside by means of a triangular lock;
- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
- utilities n. 2/4 sockets, n. 2/4 taps
- sockets 16A/32A/63A - 230 V
- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection
- N. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
- on request with differential circuit breaker for each socket and isolator
- N. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
- Dimension: 50x34x105 cm
- II insulation class **CE**

OPTIONAL:

- pre-paid system



TECHNICAL DATA	
CODE	DESCRIPTION
ES501000	2X16A MONOPHASE
ES501010	4X16A MONOPHASE
ES501020	2X32A MONOPHASE
ES501021	2X32A THREE-PHASE
ES501030	4X32A MONOPHASE
ES501040	2X63A MONOPHASE
ES501041	2X63A THREE-PHASE

SERVICE MODULES LUCCIOLA

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour yellow-blue
- Access to the inside by means of a triangular lock;
- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
- utilities n. 2/4 sockets, n. 2/4 taps
- sockets 16A/32A - 230 V interblocked IP66 anticorrosive treatment.
- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection
- N. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
- On request with differential circuit breaker for each socket and isolator
- N. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
- Dimension: 40x40x100 cm
- II insulation class **CE**

OPTIONAL:

- pre-paid system



TECHNICAL DATA	
CODE	DESCRIPTION
ES101000	2X16A MONOPHASE
ES101010	4X16A MONOPHASE
ES101020	2X32A MONOPHASE
ES101021	2X32A THREE-PHASE
ES101030	4X32A MONOPHASE

SERVICE MODULES FIVE

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour blu and yellow;
 - Access to the inside by means of a triangular lock;
 - Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
 - utilities n. 2/4 sockets, n. 2/4 taps
 - sockets 16A/32A/63A - 230 V interblocked IP66 anticorrosive treatment;
 - N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection
 - n. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
 - On request with differential circuit breaker for each socket and isolator
 - n. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
 - Dimesion: 46x26x109 cm
 - II insulation class **CE**
- OPTIONAL:
- pre-paid system



TECHNICAL DATA	
CODE	DESCRIPTION
ES401000	2X16A MONOPHASE
ES401010	4X16A MONOPHASE
ES401020	2X32A MONOPHASE
ES401021	2X32A THREE-PHASE
ES401030	4X32A MONOPHASE
ES401040	2X63A MONOPHASE
ES401041	2X63A THREE-PHASE

SERVICE MODULES MAYA

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour gray-black;
 - Access to the inside by means of a triangular lock;
 - Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
 - utilities n. 2/4 sockets, n. 2/4 taps
 - sockets 16A/32A - 230 V interblocked IP66 anticorrosive treatment.
 - N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection
 - n. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
 - On request with differential circuit breaker for each socket and isolator
 - n. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
 - Dimesion: 40x17x103 cm
 - II insulation class **CE**
- OPTIONAL:
- pre-paid system



TECHNICAL DATA	
CODE	DESCRIPTION
ES301000	2X16A MONOPHASE
ES301010	4X16A MONOPHASE
ES301020	2X32A MONOPHASE
ES301021	2X32A THREE-PHASE
ES301030	4X32A MONOPHASE

SERVICE MODULES ALUTEK-S

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour gray;

- Access to the inside by means of a triangular lock;

- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;

- utilities n. 2/4 sockets, n. 2/4 taps;

- sockets 16A/32A/63A - 230 V interblocked IP66 anticorrosive treatment;

- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection;

- n. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A;

- On request with differential circuit breaker for each socket and isolator;

- n. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;

- Dimension: 47x36x105 cm

- II insulation class **CE**

OPTIONAL:

- pre-paid system



TECHNICAL DATA	
CODE	DESCRIPTION
ES602000	2X16A MONOPHASE
ES602010	4X16A MONOPHASE
ES602020	2X32A MONOPHASE
ES602021	2X32A THREE-PHASE
ES602030	4X32A MONOPHASE
ES602040	2X63A MONOPHASE
ES602041	2X63A THREE-PHASE

SERVICE MODULES ALUTEK-80S

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour gray;

- Access to the inside by means of a triangular lock;

- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;

- utilities n. 2/4 sockets, n. 2/4 taps

- sockets 16A/32A - 230 V interblocked IP66 anticorrosive treatment.

- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection

- n. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A;

- On request with differential circuit breaker for each socket and isolator;

- n. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;

- Dimension: 37x25x85 cm

- II insulation class **CE**



TECHNICAL DATA	
CODE	DESCRIPTION
ES603000	2X16A MONOPHASE
ES603010	4X16A MONOPHASE
ES603020	2X32A MONOPHASE
ES603021	2X32A THREE-PHASE
ES603030	4X32A MONOPHASE

SERVICE MODULES ALUTEK

- Fibre glass reinforced polyester, coloured with high resistance gelcoats. Standard colour gray;
- Access to the inside by means of a triangular lock;
- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
- utilities n. 2/4 sockets, n. 2/4 taps
- sockets 16A/32A/63A - 230 V interblocked IP66 anticorrosive treatment.
- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection;
- n. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A;
- On request with differential circuit breaker for each socket and isolator
- n. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
- Dimesion: 47x36x120 cm
- II insulation class **CE**

OPTIONAL:

- pre-paid system



TECHNICAL DATA	
CODE	DESCRIPTION
ES601000	2X16A MONOPHASE
ES601010	4X16A MONOPHASE
ES601020	2X32A MONOPHASE
ES601021	2X32A THREE-PHASE
ES601030	4X32A MONOPHASE
ES601040	2X63A MONOPHASE
ES601041	2X63A THREE-PHASE

SERVICE MODULES BAIA

- External cover made of sulphate resistant concrete and coloured with oxides. The internal reinforcement is realised in stainless steel with a minimum abutment stone thickness of 40 mm. In the inside, there's a fibre glass reinforced polyester box, where there are all electrical and water equipments.
The base plate of each module is reinforced to allow a strong fixing on the pontoon structure or on the quay;

- Access to the inside by means of a triangular lock;
- Internal equipment consisting of low consumption internal fluorescent light for illumination of the surrounding area;
- utilities n. 2/4 sockets, n. 2/4 taps;
- sockets 16A/32A/63A - 230 V interblocked IP66 anticorrosive treatment:
- N. 2/4 magnetothermic switches to sockets protection. N. 1 magnetothermic switch to light protection
- n. 1 safety differential switch to engine power protection, with a threshold of intervention to 0.03 A
- On request with differential circuit breaker for each socket and isolator;
- n. 2/4 taps Ø 1/2", stainless steel bolts and nuts, butterfly tumbler ¼ turn;
- Dimesion: 73x54x69 cm
- II insulation class **CE**

OPTIONAL:

- pre-paid system



TECHNICAL DATA	
CODE	DESCRIPTION
ES701000	2X16A MONOPHASE
ES701010	4X16A MONOPHASE
ES701020	2X32A MONOPHASE
ES701021	2X32A THREE-PHASE
ES701030	4X32A MONOPHASE
ES701040	4X63A MONOPHASE
ES701041	2x63A THREE-PHASE

QUICK PLUG AND PLAY

- System that allows rapid connection and complete removal of the pedestal for maintenance or winter storage without the use of equipment and personnel.

TECHNICAL DATA	
CODE	SERVICE MODULE
ES906510	LUCCIOLA
ES906520	DANNY
ES906530	MAYA
ES906540	FIVE
ES906561	ALUTEK
ES906562	ALUTEK S
ES906563	ALUTEK 80S



TELEMETRA WIRELESS SYSTEM

The Telemetra system works with a unit that, in addition to managing the activation of utility metering, drives directly electrical outlets. This system would remove control switches and temperature (up to 32A) for reading consumption. The innovation of the Telemetra System is sending consumption data by wireless signal directly on the Internet, for remote management of marine services. The activation of users and the allocation of costs to users is by means of a transponder key or card reader. The handling logic can be either charged following or with charge to climb. In the first case the user has a special key which is stored your personal code. That code is read by this unit and associated with the user selected. Data transmitted to the controller are send in real time to the central computer which stores it in a separate database for later billing of the user consumption. In the second case, the user loads the key with a variable amount, and allows users to transfer credit in this unit. The interface unit is achieved by means of a large graphic display and 8 buttons for selection.



TRANSMISSION UNIT



READER PANEL



KEYS AND CARD

SINGLE SOCKET
SYSTEM TELEMETRA

AUTOMATIC LOADER

SERVICE MODULES ALUTEK	
CODE	DESCRIPTION
ES101000T	ALUTEK 4X16A MONOPHASE F.E.M.+WATER
ES101010T	ALUTEK 2X32A TWOPHASE F.E.M.+WATER
ES101020T	ALUTEK 4X32A MONOPHASE F.E.M.+WATER
ES101021T	ALUTEK 2X63A THREE-PHASE F.E.M.+WATER

SERVICE MODULES DANNY 110

TECHNICAL DATA	
CODE	DESCRIPTION
ES202000P	DANNY 110 2X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES202010P	DANNY 110 4X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES202020P	DANNY 110 2X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES202021P	DANNY 110 2X32A THREE-PHASE PRE-PAID F.E.M.+WATER
ES202030P	DANNY 110 4X32A MONOPHASE PRE-PAID F.E.M.+WATER

SERVICE MODULES MAYA

TECHNICAL DATA	
CODE	DESCRIPTION
ES301000P	MAYA 2X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES301010P	MAYA 4X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES301020P	MAYA 2X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES301021P	MAYA 2X32A THREE-PHASE PRE-PAID F.E.M.+WATER
ES301030P	MAYA 4X32A MONOPHASE PRE-PAID F.E.M.+WATER

SERVICE MODULES FIVE

TECHNICAL DATA	
CODE	DESCRIPTION
ES401000P	FIVE 2X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES401010P	FIVE 4X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES401020P	FIVE 2X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES401021P	FIVE 2X32A THREE-PHASE PRE-PAID F.E.M.+WATER
ES401030P	FIVE 4X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES401040P	FIVE 2X63A MONOPHASE PRE-PAID F.E.M.+WATER
ES401041P	FIVE 2X63A THREE-PHASE PRE-PAID F.E.M.+WATER

SERVICE MODULES ETRUSCA

TECHNICAL DATA	
CODE	DESCRIPTION
ES501000P	ETRUSCA 2X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES501010P	ETRUSCA 4X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES501020P	ETRUSCA 2X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES501021P	ETRUSCA 2X32A THREE-PHASE PRE-PAID F.E.M.+WATER
ES501030P	ETRUSCA 4X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES501040P	ETRUSCA 2X63A MONOPHASE PRE-PAID F.E.M.+WATER
ES501041P	ETRUSCA 2X63A THREE-PHASE PRE-PAID F.E.M.+WATER

SERVICE MODULES BAIA

TECHNICAL DATA	
CODE	DESCRIPTION
ES701000P	BAIA 2X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES701010P	BAIA 4X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES701020P	BAIA 2X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES701021P	BAIA 2X32A THREE-PHASE PRE-PAID F.E.M.+WATER
ES701030P	BAIA 4X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES701040P	BAIA 2X63A MONOPHASE PRE-PAID F.E.M.+WATER
ES701041P	BAIA 2X63A THREE-PHASE PRE-PAID F.E.M.+WATER

SERVICE MODULES ALUTEK

TECHNICAL DATA	
CODE	DESCRIPTION
ES601000P	ALUTEK 2X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES601010P	ALUTEK 4X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES601020P	ALUTEK 2X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES601021P	ALUTEK 2X32A THREE-PHASE PRE-PAID F.E.M.+WATER
ES601030P	ALUTEK 4X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES601040P	ALUTEK 2X63A MONOPHASE PRE-PAID F.E.M.+WATER
ES601041P	ALUTEK 2X63A THREE-PHASE PRE-PAID F.E.M.+WATER

SERVICE MODULES ALUTEK S

TECHNICAL DATA	
CODE	DESCRIPTION
ES602000P	ALUTEK S 2X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES602010P	ALUTEK S 4X16A MONOPHASE PRE-PAID F.E.M.+WATER
ES602020P	ALUTEK S 2X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES602021P	ALUTEK S 2X32A THREE-PHASE PRE-PAID F.E.M.+WATER
ES602030P	ALUTEK S 4X32A MONOPHASE PRE-PAID F.E.M.+WATER
ES602040P	ALUTEK S 2X63A MONOPHASE PRE-PAID F.E.M.+WATER
ES602041P	ALUTEK S 2X63A THREE-PHASE PRE-PAID F.E.M.+WATER

ACCESSORIES

TECHNICAL DATA	
CODE	DESCRIPTION
ES906010	AUTOMATIC RELOAD KEY BOX
ES906020	CONSOLLE + SOFTWARE
ES906000	KEY

WATER SOCKET

- Body in anodized marine aluminium alloy, composed of an extruded 76x76 cm square section.
- Water outlets with 2 or 4 taps (diam 1/4), stainless steel fixings and non -'96 corrosive anodized turning handles 1/4'.

TECHNICAL DATA	
CODE	DESCRIPTION
ES904500	WATER SOCKET FOR 2 USERS



PLATE

- Plate for berth identification.

ON REQUEST:

- Personalization
- Retrolighting

TECHNICAL DATA		
CODE	COLOUR	DIMENSION (cm)
GM585100	PVC	13X7
GM585100	PVC	24X10
GM585200	ALLUMINIUM	13X7
GM585250	ALLUMINIUM	24X10
GM585300	AISI 316	13X7
GM585200	AISI 316	24X10
PF779111	AISI 316	13X7
PF779121	AISI 316	24X7,5
PF779122	AISI 316	30X17,5



TROLLEY

- Fibre glass reinforced polyester structure, coloured with high resistance gelcoats. Standard colour white-green.
- Handle in aluminium alloy
- Tyres
- Floating and noiseless structure

TECHNICAL DATA		
CODE	COLOUR	DIMENSION (cm)
AS907010	STANDARD	45X85X780



LITTERBINS

- Fibre glass reinforced polyester structure, coloured with high resistance gelcoats. Standard colour yellow-blue.

TECHNICAL DATA		
CODE	COLORE	DIMENSIONI (cm)
ES907020	STANDARD	46X46X95



RUBBISH BIN ALUTEK

In anodized aluminium and available in different colors for a more original marina. A blue LED light is the special detail in the back of the pillar.

TECHNICAL DATA	
CODE	COLOUR
ES907060	STANDARD



CLIMBING RAMP

- Stainless Steel Supports and bolted-in nonskid plastic steps.

ON REQUEST:

- Wharf version to be designed according to wharf models and positions (Front-side).

TECHNICAL DATA		
CODE	STEPS	DIMENSIONI (cm)
GM514100	8 (with handrail)	53X239X50
GM514150	8 (no handrail)	53X195X50
GM514300	4 (with handrail)	53X136X50
GM514350	4 (no handrail)	53X92X50



TERMINAL FIRE

EXTINGUISHER CASE

- Body in polyester resin reinforced by glass hand-layed fibers, colored with highly resistant gel-coats. White standard color.

- Easy "rotate -to-open" access system
- Easy bolt fixings system
- Extinguisher not included

UPON REQUEST

Different body colors

TECHNICAL DATA	
CODE	DESCRIPTION
S904000	EXTINGUISHER CASE



LIFERING

with rope, on a pillar of anodized or painted aluminium. A blue LED light is the detail in the back of the item.

TECHNICAL DATA		
CODE	COLOUR	DIMENSION (cm)
ES908020	STANDARD	110 X 75



TERMINAL FIRE

SINGLE FOOT FIRE-FIGHTING CABINET ALUTEK

- body in painted marine aluminium, especially treated for a long lasting resistance to climate and UV rays.
- quick access system from both sides through rotating fixing clip.
- water hose (DE45/DE70)/water/pipe
- fixing system through treated bars and nuts.
- Size 52/23/105 cm.

ACCESSORIES:

- walkway brightening lamp.
- Lamp IP66.
- push-button panel.

TECHNICAL DATA	
CODE	DESCRIPTION
ES901160	DE 45 VERSION
ES901161	DE 70 VERSION



FIRE-FIGHTING CABINET ALUTEK

- body in painted marine aluminium, especially treated for a long lasting resistance to climate and UV rays.
- quick access system from both sides.
- water hose (DE45/DE70)/water/pipe.
- fixing system through treated bars and nuts.
- Size 56/43/105 cm.

ACCESSORIES:

- inner Lamp.
- firefighting kit including extinguisher, firefighting tracksuit, first aid box, hatchet.

TECHNICAL DATA	
CODE	DESCRIPTION
ES 902500	VERSION DE 45
ES 902501	VERSION DE 70



FIRE-FIGHTING CABINET

- Fire-fighting cabinets with two supports, realized in Fibre glass reinforced polyester, coloured with high resistance gelcoats, access to the inside by means of openable plexiglas panels on both sides;
- internal equipment consisting of:
 - hydrant tap UNI 45;
 - nylon water hose 20 m long;
 - nozzle;
- Dimension 95x25x100 cm, weight 31 kg with kit.



ACCESSORIES:

- Internal red light.
- Push-button panel.
- Life Ring.

TECHNICAL DATA	
CODE	DESCRIPTION
ES902100	VERSION DE45
ES902200	VERSION DE 70

SINGLE FOOT FIRE-FIGHTING CABINET

- Fire-fighting cabinets with one support, realized in Fibre glass reinforced polyester, coloured with high resistance gelcoats, access to the inside by means of openable plexiglas panels on both sides;
- internal equipment consisting of:
 - hydrant tap UNI 45;
 - nylon water hose 20 m long;
 - nozzle;
- Dimension 45x25x100 cm, weight 15 kg with kit.



ACCESSORIES:

- Red fluorescent, 9w Energy-saving, internal lamp.
- Push-button panel.

TECHNICAL DATA	
CODE	DESCRIPTION
ES901100	DE 45 VERSION
ES901200	DE 70 VERSION

WALL FIRE-FIGHTING CABINET

- Fire-fighting cabinets with two supports, realised in Fibre glass reinforced polyester, coloured with high resistance gelcoats, access to the inside by means of openable plexiglas panels on both sides; internal equipment consisting of:
- hydrant tap UNI 45
 - nylon water hose 20 m long
 - nozzle;
 - Dimension 45x25x100 cm, weight 12kg circa.



ACCESSORIES:

- Internal red light
- Push-button panel

TECHNICAL DATA	
CODE	DESCRIPTION
ES903100	DE45 VERSION
ES903200	DE 70 VERSION

ECOSTAR UNIT

A metallic central unit, composed of: - electro pump to generate centrifugal vacuum; - electro pump to discharge with pressure the stocked sewage;- slide valves, both for suction and delivery, of the type protected against acids;- electric switch board complete of the protections for the engines and all the circuits of the automatic functioning of the central, functioning tell-tale light and acoustic and optic alarm;- level sensor inside the structure;

A sewage unit, composed by a unit-type body in Fibre glass reinforced polyester realised with the handmade stratification method, coloured with high resistance gelcoats, which enables through a flexible tube, the removal of sewage directly from the boat in the bilge.

The liquid removed is conveyed to the special sealed collector and then taken to the central container.

Another unit, with similar characteristics to previous one, removes used oils directly from the sump of the boat engine and conveyed to a special collection container made of Fibre glass and complete of: inspection window, float valve to sign the full, taps and fittings made in anticorrosion material - stainless steel fixing systems- polyethylene PN 10 pipes in conformity with UNI 321 rules.

(Journal Gazette n° 168 del 22/7/2003).



ECOSTAR UNIT

- VERSIONS:
- A - Ecostar Economy
 - B - Ecostar Basic
 - C - Ecostar S
 - D - Ecostar Careenage
 - E - Ecostar Movable

STANDARD SERVICES	SEWAGE	USED OILS	BILGE	CAREENAGE WATER
	VERSION	VERSION	VERSION	VERSION
SUCTION	A B C D E	A B C D E	A B C E	D
STORAGE	B C D E	A B C E	B C E	D
TREATMENT	/	/	A B C	D
RELAUNCHING	A B C E	/	A B C E	D
RECYCLING	/	/	/	D



AUXILIARY TECHNICAL GROUP



SUCTION TERMINALS