

New Flamingo

Orca3D Weight and Cost Report

Razmik Baharyan

Report Time: 30 януари 2014 г., 04:39:16 ч.

Model Name: D:\MyWorks\Orca3D v1.3 and 1.4-WIP\New Flamingo\Flamingo and New Flamingo-Rhino\Mini-Motorboat New Flamingo-mod 2_6_11.3dm



Weight Items						
Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Bulwark						
Bulwark	Biaxial.foam. Topside schedule	0,184	1,230	0,566	0,580	0,049 m^2
Bulwark	Biaxial.foam. Topside schedule	1,531	1,201	0,599	0,509	0,412 m^2
Bulwark	Biaxial.foam. Topside schedule	0,021	0,073	0,594	0,429	0,006 m^2
Bulwark	Biaxial.foam. Topside schedule	1,529	1,186	0,566	0,508	0,411 m^2
Bulwark	Biaxial.foam. Topside schedule	0,184	1,230	-0,566	0,580	0,049 m^2
Bulwark	Biaxial.foam. Topside schedule	1,531	1,201	-0,599	0,509	0,412 m^2
Bulwark	Biaxial.foam. Topside schedule	0,021	0,073	-0,594	0,429	0,006 m^2
Bulwark	Biaxial.foam. Topside schedule	1,529	1,186	-0,566	0,508	0,411 m^2
SubTotal		6,530	1,188	0,000	0,512	

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Cross stiffener						
Cross stiffener	CSM 450.Topside schedule	0,200	1,535	0,295	0,522	0,036 m^2
Cross stiffener	CSM 450.Topside schedule	0,200	1,535	-0,295	0,522	0,036 m^2
SubTotal		0,400	1,535	0,000	0,522	
Layer: Windglass frame						
Windglass frame	Aluminum Pipe	0,116	1,629	-0,303	0,800	0,013 m^2
Windglass frame	Aluminum Pipe	0,116	1,629	0,303	0,800	0,013 m^2
SubTotal		0,232	1,629	0,000	0,800	
Layer: Steering-wheel						
Steering-wheel	Steering Wheel	6,804	1,487	-0,300	0,669	0,000 N/A
SubTotal		6,804	1,487	-0,300	0,669	
Layer: Windglass						
Windglass	Tempered Glass	0,838	1,767	0,304	0,752	0,132 m^2
Windglass	Tempered Glass	0,838	1,767	-0,304	0,752	0,132 m^2
SubTotal		1,676	1,767	0,000	0,752	

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Rubber collar						
Rubber collar	1/4" Rubber	1,745	1,488	0,548	0,418	0,252 m^2
Rubber collar	1/4" Rubber	0,055	0,013	0,546	0,386	0,008 m^2
Rubber collar	1/4" Rubber	0,205	-0,001	0,285	0,387	0,030 m^2
Rubber collar	1/4" Rubber	0,055	0,013	-0,546	0,386	0,008 m^2
Rubber collar	1/4" Rubber	1,745	1,488	-0,548	0,418	0,252 m^2
Rubber collar	1/4" Rubber	0,205	-0,001	-0,285	0,387	0,030 m^2
SubTotal		4,010	1,295	0,000	0,414	
Layer: Default						
Passengers	None	* 163,300	1,200	0,000	0,490	N/A
25 hp Outboard Engine	None	* 44,000	-0,010	0,000	0,320	N/A
Unleaded Gazoline	None	* 36,385	0,170	0,000	0,200	N/A
12V Marine Battery	12V Marine Battery	31,298	0,170	0,000	0,200	0,000 N/A
SubTotal		274,983	0,753	0,000	0,391	

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Spray rail						
Spray rail	Quad&Biaxial.foam .Bottom schedule	0,025	2,274	0,533	0,344	0,003 m^2
Spray rail	Quad&Biaxial.foam .Bottom schedule	0,372	1,186	0,574	0,174	0,044 m^2
Spray rail	Quad&Biaxial.foam .Bottom schedule	0,372	1,186	-0,574	0,174	0,044 m^2
Spray rail	Quad&Biaxial.foam .Bottom schedule	0,025	2,274	-0,533	0,344	0,003 m^2
SubTotal		0,794	1,255	0,000	0,185	
Layer: Transom fore						
Transom fore	Quad&Biaxial.foam .Bottom schedule	0,250	2,556	0,280	0,411	0,030 m^2
Transom fore	Quad&Biaxial.foam .Bottom schedule	0,250	2,556	-0,280	0,411	0,030 m^2
SubTotal		0,500	2,556	0,000	0,411	

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Side						
Side	CSM 450.Topside schedule	2,911	1,055	0,602	0,282	0,517 m^2
Side	CSM 450.Topside schedule	0,097	2,294	0,542	0,390	0,017 m^2
Side	CSM 450.Topside schedule	2,911	1,055	-0,602	0,282	0,517 m^2
Side	CSM 450.Topside schedule	0,097	2,294	-0,542	0,390	0,017 m^2
SubTotal		6,016	1,095	0,000	0,286	

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Planing step						
Planing step	Quad&Biaxial.foam .Bottom schedule	0,022	0,073	0,181	0,033	0,003 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,018	2,256	0,054	0,135	0,002 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	1,103	1,098	0,161	0,043	0,131 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,290	1,317	0,181	0,057	0,034 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,290	1,317	-0,181	0,057	0,034 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	1,103	1,098	-0,161	0,043	0,131 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,018	2,256	-0,054	0,135	0,002 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,022	0,073	-0,181	0,033	0,003 m^2
SubTotal		2,866	1,141	0,000	0,047	
Layer: Bottom CL						
Bottom CL	Quad&Biaxial.foam .Bottom schedule	2,489	1,059	0,066	0,023	0,295 m^2
Bottom CL	Quad&Biaxial.foam .Bottom schedule	2,489	1,059	-0,066	0,023	0,295 m^2
SubTotal		4,978	1,059	0,000	0,023	

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Bottom						
Bottom	Quad&Biaxial.foam .Bottom schedule	9,737	1,429	0,360	0,149	1,154 m^2
Bottom	Quad&Biaxial.foam .Bottom schedule	9,737	1,429	-0,360	0,149	1,154 m^2
SubTotal		19,474	1,429	0,000	0,149	
Layer: Aft recess						
Aft recess	CSM 450.Topside schedule	1,072	0,172	-0,303	0,323	0,190 m^2
Aft recess	CSM 450.Topside schedule	1,072	0,172	0,303	0,323	0,190 m^2
Aft recess	Biaxial.foam. Topside schedule	0,481	0,160	-0,404	0,505	0,129 m^2
Aft recess	Biaxial.foam. Topside schedule	0,234	0,197	-0,234	0,428	0,063 m^2
Aft recess	Biaxial.foam. Topside schedule	0,481	0,160	0,404	0,505	0,129 m^2
Aft recess	Biaxial.foam. Topside schedule	0,234	0,197	0,234	0,428	0,063 m^2
SubTotal		3,575	0,172	0,000	0,386	

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Layer: Cushion						
Cushion	Aluminum Pipe	0,763	0,987	0,000	0,449	0,089 m^2
Cushion	Cushion	2,474	1,031	0,000	0,369	0,018 m^3
Cushion	Cushion	5,718	1,129	0,000	0,115	0,042 m^3
SubTotal		8,955	1,090	0,000	0,214	
Layer: Transom aft						
Transom aft	CSM 450.Bottom schedule	0,332	0,035	0,536	0,236	0,027 m^2
Transom aft	CSM 450.Bottom schedule	0,332	0,035	-0,536	0,236	0,027 m^2
SubTotal		0,664	0,035	0,000	0,236	
Layer: Liferail						
Liferail	Biaxial.foam. Topside schedule	0,027	2,449	0,318	0,436	0,007 m^2
Liferail	Biaxial.foam. Topside schedule	0,079	1,136	0,556	0,408	0,021 m^2
Liferail	Biaxial.foam. Topside schedule	0,201	2,474	0,339	0,443	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	0,523	1,051	0,593	0,413	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	0,002	0,072	0,523	0,386	0,000 m^2
Liferail	Biaxial.foam. Topside schedule	0,010	0,067	0,359	0,385	0,003 m^2

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Liferail	Biaxial.foam. Topside schedule	0,038	2,126	0,554	0,436	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,016	-0,005	0,285	0,385	0,004 m^2
Liferail	Biaxial.foam. Topside schedule	0,005	0,013	0,558	0,387	0,001 m^2
Liferail	Biaxial.foam. Topside schedule	0,523	1,051	0,594	0,403	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	0,201	2,474	0,340	0,433	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	0,080	1,122	0,626	0,411	0,022 m^2
Liferail	Biaxial.foam. Topside schedule	0,031	2,498	0,361	0,441	0,008 m^2
Liferail	Biaxial.foam. Topside schedule	0,037	2,126	0,555	0,426	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,027	2,449	-0,318	0,436	0,007 m^2
Liferail	Biaxial.foam. Topside schedule	0,079	1,136	-0,556	0,408	0,021 m^2
Liferail	Biaxial.foam. Topside schedule	0,201	2,474	-0,339	0,443	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	0,523	1,051	-0,593	0,413	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	0,002	0,072	-0,523	0,386	0,000 m^2

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Liferail	Biaxial.foam. Topside schedule	0,038	2,126	-0,554	0,436	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,005	0,013	-0,558	0,387	0,001 m^2
Liferail	Biaxial.foam. Topside schedule	0,523	1,051	-0,594	0,403	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	0,201	2,474	-0,340	0,433	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	0,080	1,122	-0,626	0,411	0,022 m^2
Liferail	Biaxial.foam. Topside schedule	0,031	2,498	-0,361	0,441	0,008 m^2
Liferail	Biaxial.foam. Topside schedule	0,037	2,126	-0,555	0,426	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,016	-0,005	-0,285	0,385	0,004 m^2
Liferail	Biaxial.foam. Topside schedule	0,010	0,067	-0,359	0,385	0,003 m^2
Liferail	Biaxial.foam. Topside schedule	0,116	0,029	0,348	0,390	0,031 m^2
Liferail	Biaxial.foam. Topside schedule	0,116	0,029	0,348	0,380	0,031 m^2
Liferail	Biaxial.foam. Topside schedule	0,116	0,029	0,348	0,380	0,031 m^2
Liferail	Biaxial.foam. Topside schedule	0,116	0,029	-0,348	0,390	0,031 m^2

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Liferaill	Biaxial.foam. Topside schedule	0,116	0,029	-0,348	0,380	0,031 m^2
SubTotal		4,126	1,253	0,010	0,412	
Layer: Deck						
Deck	CSM 450.Topside schedule	1,795	2,123	0,292	0,592	0,319 m^2
Deck	CSM 450.Topside schedule	0,300	1,950	0,508	0,584	0,053 m^2
Deck	CSM 450.Topside schedule	0,485	1,594	0,336	0,600	0,086 m^2
Deck	CSM 450.Topside schedule	0,176	1,972	0,469	0,603	0,031 m^2
Deck	CSM 450.Topside schedule	0,574	1,958	0,115	0,571	0,102 m^2
Deck	CSM 450.Topside schedule	0,604	2,083	0,051	0,500	0,107 m^2
Deck	CSM 450.Topside schedule	1,795	2,123	-0,292	0,592	0,319 m^2
Deck	CSM 450.Topside schedule	0,300	1,950	-0,508	0,584	0,053 m^2
Deck	CSM 450.Topside schedule	0,485	1,594	-0,336	0,600	0,086 m^2
Deck	CSM 450.Topside schedule	0,176	1,972	-0,469	0,603	0,031 m^2
Deck	CSM 450.Topside schedule	0,574	1,958	-0,115	0,571	0,102 m^2

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Object Name	Material	Weight (kgf)	LCG (m)	TCG (m)	VCG (m)	Weight Basis
Deck	CSM 450.Topside schedule	0,604	2,083	-0,051	0,500	0,107 m^2
SubTotal		7,867	2,008	0,000	0,576	
Totals		354,451	0,876	-0,006	0,377	

* Values with an asterisk are assigned directly and not computed from the corresponding material and geometry.

** These items are associated with Rhino block instances. See "Block Item Details" section for breakdown of these weight items.

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Cost Items					
Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Bulwark					
Bulwark	Biaxial.foam. Topside schedule	4,45	5,04	9,49	0,049 m^2
Bulwark	Biaxial.foam. Topside schedule	37,05	41,99	79,04	0,412 m^2
Bulwark	Biaxial.foam. Topside schedule	0,51	0,58	1,10	0,006 m^2
Bulwark	Biaxial.foam. Topside schedule	36,98	41,91	78,89	0,411 m^2
Bulwark	Biaxial.foam. Topside schedule	4,45	5,04	9,49	0,049 m^2
Bulwark	Biaxial.foam. Topside schedule	37,05	41,99	79,04	0,412 m^2
Bulwark	Biaxial.foam. Topside schedule	0,51	0,58	1,10	0,006 m^2
Bulwark	Biaxial.foam. Topside schedule	36,98	41,91	78,89	0,411 m^2
SubTotal		157,99	179,06	337,05	

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Cross stiffener					
Cross stiffener	CSM 450.Topside schedule	3,70	3,63	7,32	0,036 m^2
Cross stiffener	CSM 450.Topside schedule	3,70	3,63	7,32	0,036 m^2
SubTotal		7,40	7,25	14,65	
Layer: Windglass frame					
Windglass frame	Aluminum Pipe	0,72	1,45	2,17	0,013 m^2
Windglass frame	Aluminum Pipe	0,72	1,45	2,17	0,013 m^2
SubTotal		1,45	2,90	4,35	
Layer: Steering-wheel					
Steering-wheel	Steering Wheel	120,00	200,00	320,00	0,000 N/A
SubTotal		120,00	200,00	320,00	
Layer: Windglass					
Windglass	Tempered Glass	6,07	4,75	10,83	0,132 m^2
Windglass	Tempered Glass	6,07	4,75	10,83	0,132 m^2
SubTotal		12,15	9,51	21,65	

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Rubber collar					
Rubber collar	1/4" Rubber	94,80	27,09	121,89	0,252 m^2
Rubber collar	1/4" Rubber	3,01	0,86	3,87	0,008 m^2
Rubber collar	1/4" Rubber	11,14	3,18	14,32	0,030 m^2
Rubber collar	1/4" Rubber	3,01	0,86	3,87	0,008 m^2
Rubber collar	1/4" Rubber	94,80	27,09	121,89	0,252 m^2
Rubber collar	1/4" Rubber	11,14	3,18	14,32	0,030 m^2
SubTotal		217,90	62,26	280,15	
Layer: Default					
Passengers	None	* 0,00	* 0,00	0,00	N/A
25 hp Outboard Engine	None	* 3290,00	* 235,00	3525,00	N/A
Unleaded Gazoline	None	* 61,80	* 0,00	61,80	N/A
12V Marine Battery	12V Marine Battery	289,00	0,00	289,00	0,000 N/A
SubTotal		3640,80	235,00	3875,80	

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Spray reil					
Spray reil	Quad&Biaxial.foam .Bottom schedule	0,31	0,30	0,62	0,003 m^2
Spray reil	Quad&Biaxial.foam .Bottom schedule	4,58	4,49	9,07	0,044 m^2
Spray reil	Quad&Biaxial.foam .Bottom schedule	4,58	4,49	9,07	0,044 m^2
Spray reil	Quad&Biaxial.foam .Bottom schedule	0,31	0,30	0,62	0,003 m^2
SubTotal		9,78	9,59	19,37	
Layer: Transom fore					
Transom fore	Quad&Biaxial.foam .Bottom schedule	3,08	3,02	6,11	0,030 m^2
Transom fore	Quad&Biaxial.foam .Bottom schedule	3,08	3,02	6,11	0,030 m^2
SubTotal		6,17	6,05	12,21	

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Razmik Baharyan

Report Time: 30 януари 2014 г., 04:39:16 ч.

Model Name: D:\MyWorks\Orca3D v1.3 and 1.4-WIP\New Flamingo\Flamingo and New Flamingo-Rhino\Mini-Motorboat New Flamingo-mod 2_6_11.3dm



Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Side					
Side	CSM 450.Topside schedule	53,77	52,73	106,50	0,517 m^2
Side	CSM 450.Topside schedule	1,80	1,76	3,56	0,017 m^2
Side	CSM 450.Topside schedule	53,77	52,73	106,50	0,517 m^2
Side	CSM 450.Topside schedule	1,80	1,76	3,56	0,017 m^2
SubTotal		111,13	108,99	220,12	

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Planing step					
Planing step	Quad&Biaxial.foam .Bottom schedule	0,27	0,27	0,54	0,003 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,22	0,21	0,43	0,002 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	13,59	13,33	26,92	0,131 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	3,58	3,51	7,08	0,034 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	3,58	3,51	7,08	0,034 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	13,59	13,33	26,92	0,131 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,22	0,21	0,43	0,002 m^2
Planing step	Quad&Biaxial.foam .Bottom schedule	0,27	0,27	0,54	0,003 m^2
SubTotal		35,32	34,64	69,96	
Layer: Bottom CL					
Bottom CL	Quad&Biaxial.foam .Bottom schedule	30,67	30,08	60,75	0,295 m^2
Bottom CL	Quad&Biaxial.foam .Bottom schedule	30,67	30,08	60,75	0,295 m^2
SubTotal		61,34	60,16	121,50	

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Bottom					
Bottom	Quad&Biaxial.foam .Bottom schedule	119,98	117,67	237,66	1,154 m^2
Bottom	Quad&Biaxial.foam .Bottom schedule	119,98	117,67	237,66	1,154 m^2
SubTotal		239,96	235,35	475,31	
Layer: Aft recess					
Aft recess	CSM 450.Topside schedule	19,81	19,43	39,24	0,190 m^2
Aft recess	CSM 450.Topside schedule	19,81	19,43	39,24	0,190 m^2
Aft recess	Biaxial.foam. Topside schedule	11,64	13,19	24,83	0,129 m^2
Aft recess	Biaxial.foam. Topside schedule	5,66	6,42	12,08	0,063 m^2
Aft recess	Biaxial.foam. Topside schedule	11,64	13,19	24,83	0,129 m^2
Aft recess	Biaxial.foam. Topside schedule	5,66	6,42	12,08	0,063 m^2
SubTotal		74,22	78,08	152,30	

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Layer: Cushion					
Cushion	Aluminum Pipe	4,77	9,54	14,31	0,089 m^2
Cushion	Cushion	51,34	128,35	179,70	0,018 m^3
Cushion	Cushion	118,64	296,60	415,24	0,042 m^3
SubTotal		174,75	434,49	609,24	
Layer: Transom aft					
Transom aft	CSM 450.Bottom schedule	2,78	2,73	5,52	0,027 m^2
Transom aft	CSM 450.Bottom schedule	2,78	2,73	5,52	0,027 m^2
SubTotal		5,57	5,46	11,03	
Layer: Liferail					
Liferail	Biaxial.foam. Topside schedule	0,65	0,74	1,38	0,007 m^2
Liferail	Biaxial.foam. Topside schedule	1,91	2,16	4,07	0,021 m^2
Liferail	Biaxial.foam. Topside schedule	4,86	5,51	10,37	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	12,65	14,34	26,99	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	0,04	0,05	0,09	0,000 m^2
Liferail	Biaxial.foam. Topside schedule	0,25	0,29	0,54	0,003 m^2

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Liferail	Biaxial.foam. Topside schedule	0,91	1,03	1,94	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,39	0,44	0,83	0,004 m^2
Liferail	Biaxial.foam. Topside schedule	0,11	0,13	0,24	0,001 m^2
Liferail	Biaxial.foam. Topside schedule	12,65	14,34	26,99	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	4,87	5,52	10,39	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	1,95	2,21	4,15	0,022 m^2
Liferail	Biaxial.foam. Topside schedule	0,74	0,84	1,58	0,008 m^2
Liferail	Biaxial.foam. Topside schedule	0,91	1,03	1,93	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,65	0,74	1,38	0,007 m^2
Liferail	Biaxial.foam. Topside schedule	1,91	2,16	4,07	0,021 m^2
Liferail	Biaxial.foam. Topside schedule	4,86	5,51	10,37	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	12,65	14,34	26,99	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	0,04	0,05	0,09	0,000 m^2

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Liferail	Biaxial.foam. Topside schedule	0,91	1,03	1,94	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,11	0,13	0,24	0,001 m^2
Liferail	Biaxial.foam. Topside schedule	12,65	14,34	26,99	0,141 m^2
Liferail	Biaxial.foam. Topside schedule	4,87	5,52	10,39	0,054 m^2
Liferail	Biaxial.foam. Topside schedule	1,95	2,21	4,15	0,022 m^2
Liferail	Biaxial.foam. Topside schedule	0,74	0,84	1,58	0,008 m^2
Liferail	Biaxial.foam. Topside schedule	0,91	1,03	1,93	0,010 m^2
Liferail	Biaxial.foam. Topside schedule	0,39	0,44	0,83	0,004 m^2
Liferail	Biaxial.foam. Topside schedule	0,25	0,29	0,54	0,003 m^2
Liferail	Biaxial.foam. Topside schedule	2,81	3,19	6,00	0,031 m^2
Liferail	Biaxial.foam. Topside schedule	2,81	3,19	6,00	0,031 m^2
Liferail	Biaxial.foam. Topside schedule	2,81	3,19	6,00	0,031 m^2
Liferail	Biaxial.foam. Topside schedule	2,81	3,19	6,00	0,031 m^2

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Liferaill	Biaxial.foam. Topside schedule	2,81	3,19	6,00	0,031 m^2
SubTotal		99,83	113,14	212,97	
Layer: Deck					
Deck	CSM 450.Topside schedule	33,15	32,51	65,67	0,319 m^2
Deck	CSM 450.Topside schedule	5,54	5,44	10,98	0,053 m^2
Deck	CSM 450.Topside schedule	8,95	8,78	17,73	0,086 m^2
Deck	CSM 450.Topside schedule	3,25	3,19	6,44	0,031 m^2
Deck	CSM 450.Topside schedule	10,61	10,40	21,01	0,102 m^2
Deck	CSM 450.Topside schedule	11,15	10,94	22,09	0,107 m^2
Deck	CSM 450.Topside schedule	33,15	32,51	65,67	0,319 m^2
Deck	CSM 450.Topside schedule	5,54	5,44	10,98	0,053 m^2
Deck	CSM 450.Topside schedule	8,95	8,78	17,73	0,086 m^2
Deck	CSM 450.Topside schedule	3,25	3,19	6,44	0,031 m^2
Deck	CSM 450.Topside schedule	10,61	10,40	21,01	0,102 m^2

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Object Name	Material	Material Cost (EUR)	Labor Cost (EUR)	Total Cost (EUR)	Cost Basis
Deck	CSM 450.Topside schedule	11,15	10,94	22,09	0,107 m^2
SubTotal		145,31	142,52	287,83	
Totals		5121,07	1924,45	7045,52	

* Values with an asterisk are assigned directly and not computed from the corresponding material and geometry.

** These items are associated with Rhino block instances. See "Block Item Details" section for breakdown of these cost items.

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Material Library - Point Materials

Material Name	Mass (kg)	Material Cost (EUR)	Labor Cost (EUR)
Steering Wheel	6,804	120,00	200,00
12V Marine Battery	31,298	289,00	0,00

Material Library - Curve Materials

Material Library - Surface Materials

Material Name	Mass/Area (kg/m^2)	Material Cost/Area (EUR/m^2)	Labor Cost/Area (EUR/m^2)
Biaxial.foam.Topside schedule	3,720	90,00	102,00
CSM 450.Topside schedule	5,630	104,00	102,00
Aluminum Pipe	8,613	53,82	107,64
Tempered Glass	6,347	46,00	36,00
1/4" Rubber	6,933	376,74	107,64
Quad&Biaxial.foam.Bottom schedule	8,440	104,00	102,00
CSM 450.Bottom schedule	12,400	104,00	102,00

Material Library - Solid Materials

Material Name	Mass/Volume (kg/m^3)	Material Cost/Volume (EUR/m^3)	Labor Cost/Volume (EUR/m^3)
Cushion	136,157	2825,17	7062,93

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Block Item Details

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Weight/cost details are for the item representing the Rhino block definition. It does not include any translation, scaling, or rotation applied to individual block instances.