

TWF4095-100-04JS



		船名 SHIP		29客位客渡船		技术设计	
		图名 TITLE		静水力计算书			
版本 REV.	说明 DESCRIPTION		日期 DATE				
船级社 CLASS	船号 HULL NO.		控制号 CONTROL NO.				
船东 OWNER							
图号 DRAWING NO.	TWF4095-100-04JS		比例 SCALE	页数 PAGES	面积 AREA		
				1/7	0.42 m ²		
档案号(SERIES NO.)	船厂 BUILDER		台州翼远船舶工程设计有限公司				
	设绘 DRAWN	左维成	会签 COUNTERSIGN	TAIZHOU WINGF MARINE ENGINEERING DESIGN CO., LTD.			
	校对 CHECKED	肖子	会签 COUNTERSIGN	浙江省, 台州市, 椒江区, 市府大道东段201号, 12楼			
入库日期(STORE DATE)	审定 APPROVED	徐成斌	日期 DATE	2024.06			
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主要参数

垂线间长.....	16.200	m
型 宽.....	4.200	m
型 深.....	1.900	m
设计吃水.....	1.100	m
设计纵倾.....	0.000	m

单位定义

长度单位:米 [m]
重量单位:吨 [t]
角度单位:度 [deg]

坐标轴定义

X 轴:向右为正
Y 轴:向首为正
Z 轴:向上为正
纵倾:尾倾为正
横倾:右倾为正

SRH11[Ver.2023]1.001

20343871 — 台州翼远船舶

参考列表

总坐标系原点定义:

纵向..... 尾垂线

横向..... 中心线

垂向..... 基线

参考点 (距总坐标系原点):

纵向..... 8.100 m

横向..... 0.000 m

垂向..... 0.000 m

最大吃水

垂向..... 0.007 m

缩写

1 DRAUGHT EXTREME.....	船舶最大吃水
2 DRAUGHT RFP.....	船舶输出参考点以上吃水
3 DISPL TOTAL SW.....	海水排水量
4 DISPL TOTAL FW.....	淡水排水量
5 DISPL MLD.....	型排水体积
6 LCF FWD OF RFP.....	参考点前的漂心纵坐标
7 TCF STB OF RFP.....	参考点右舷的漂心横坐标
8 LCB FWD OF RFP.....	参考点前的形心纵坐标
9 TCB STB OF RFP.....	参考点右舷的形心横坐标
10 VCB ABOVE RFP.....	参考点上的形心垂坐标
11 KMT.....	参考点上的横稳心垂向位置
12 KML.....	参考点上的纵稳心垂向位置
13 IT.....	中和轴的横性惯性矩
14 IL/1000.....	中和轴的纵性惯性矩的平分数
15 MCT SW.....	海水中每厘米纵倾力矩
16 TPC SW.....	海水中每厘米吃水吨数
17 WPA.....	水线面积
18 WETSURF.....	设计浸水表面
19 CB.....	方型系数=型排水体积/(垂线间长*吃水*型宽)
20 CP.....	棱型系数
21 CM.....	最大横剖面系数=最大横剖面面积/(吃水*型宽)
22 CW.....	水线面积系数=水线面积/(垂线间长*型宽)
23 CWF.....	前体水线面系数
24 CBF.....	前体方型系数
25 DISPL TOTAL SW.....	相对各种纵倾的海水排水量
26 KMT.....	相对各种纵倾的初稳心横向位置
27 LCB FWD OF RFP.....	相对各种纵倾的形心纵坐标

静水力 尾倾 0.000 m 横倾角 0.000 deg

1 DRAUGHT EXTREME(m)	0.107	0.207	0.307	0.407	0.507	0.557
2 DRAUGHT RFP(m)	0.100	0.200	0.300	0.400	0.500	0.550
3 DISPL TOTAL SW(t)	3.893	8.047	12.514	17.208	22.115	24.641
4 DISPL TOTAL FW(t)	3.798	7.850	12.209	16.788	21.575	24.040
5 DISPL MLD(m^3)	3.564	7.589	11.924	16.481	21.246	23.700
6 LCF FWD RFP(m)	-0.180	-0.089	0.022	0.080	0.119	0.014
7 TCF STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
8 LCB FWD OF RFP(m)	-0.197	-0.144	-0.106	-0.070	-0.040	-0.026
9 TCB STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
10 VCB ABOVE RFP(m)	0.052	0.104	0.157	0.211	0.264	0.291
11 KMT(m)	9.769	5.627	4.123	3.374	2.910	2.754
12 KML(m)	116.5	65.0	43.3	34.6	29.4	29.4
13 IT(m^4)	35	42	47	52	56	58
14 IL/1000(m^4)	0.4	0.5	0.5	0.6	0.6	0.7
15 MCT SW(t*m/cm)	0.26	0.31	0.33	0.36	0.39	0.44
16 TPC SW(t/cm)	0.396	0.434	0.454	0.477	0.497	0.514
17 WPA(m^2)	38.7	42.3	44.3	46.5	48.5	50.2
18 WETSURF(m^2)	39.0	43.5	47.5	51.2	54.9	56.7
19 CB	0.5239	0.5577	0.5842	0.6056	0.6245	0.6333
20 CP	0.5876	0.6042	0.6191	0.6328	0.6468	0.6538
21 CM	0.8915	0.9231	0.9435	0.9569	0.9656	0.9687
22 CW	0.5683	0.6224	0.6509	0.6837	0.7121	0.7371
23 CWF	0.5449	0.6109	0.6538	0.6941	0.7275	0.7389
24 CBF	0.4983	0.5390	0.5705	0.5964	0.6194	0.6299
25 DISPL TOTAL SW [t]						
TRIM AFT -0.500 m	4.316	8.278	12.776	17.532	22.505	25.061
TRIM AFT 0.000 m	3.893	8.047	12.514	17.208	22.115	24.641
TRIM AFT 0.500 m	4.562	8.426	12.771	17.395	22.263	24.779
TRIM AFT 1.000 m	6.329	9.669	13.660	18.167	22.987	25.533
26 KMT [m]						
TRIM AFT -0.500 m	8.581	5.550	4.126	3.357	2.889	2.719
TRIM AFT 0.000 m	9.769	5.627	4.123	3.374	2.910	2.754
TRIM AFT 0.500 m	7.670	5.219	3.997	3.343	2.932	2.788
TRIM AFT 1.000 m	5.346	4.408	3.767	3.294	2.975	2.913
27 LCB FWD RFP [m]						
TRIM AFT -0.500 m	2.617	1.739	1.262	1.024	0.884	0.836
TRIM AFT 0.000 m	-0.197	-0.144	-0.106	-0.070	-0.040	-0.026
TRIM AFT 0.500 m	-2.782	-1.898	-1.399	-1.117	-0.935	-0.868
TRIM AFT 1.000 m	-3.448	-2.898	-2.421	-2.042	-1.757	-1.656

静水力 尾倾 0.000 m 横倾角 0.000 deg

1 DRAUGHT EXTREME(m)	0.607	0.657	0.707	0.757	0.807	0.857
2 DRAUGHT RFP(m)	0.600	0.650	0.700	0.750	0.800	0.850
3 DISPL TOTAL SW(t)	27.216	29.840	32.514	35.239	38.015	40.842
4 DISPL TOTAL FW(t)	26.553	29.112	31.721	34.379	37.087	39.845
5 DISPL MLD(m^3)	26.201	28.750	31.347	33.994	36.690	39.436
6 LCF FWD RFP(m)	0.034	0.051	0.055	0.059	0.037	0.009
7 TCF STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
8 LCB FWD OF RFP(m)	-0.015	-0.004	0.005	0.013	0.019	0.023
9 TCB STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
10 VCB ABOVE RFP(m)	0.319	0.346	0.373	0.400	0.428	0.456
11 KMT(m)	2.622	2.520	2.439	2.376	2.320	2.283
12 KML(m)	27.7	26.3	25.2	24.3	23.7	23.3
13 IT(m^4)	60	63	65	67	69	72
14 IL/1000(m^4)	0.7	0.7	0.8	0.8	0.9	0.9
15 MCT SW(t*m/cm)	0.45	0.47	0.49	0.51	0.54	0.57
16 TPC SW(t/cm)	0.523	0.533	0.543	0.554	0.565	0.577
17 WPA(m^2)	51.0	52.0	53.0	54.0	55.1	56.3
18 WETSURF(m^2)	58.6	60.4	62.3	64.2	66.2	68.2
19 CB	0.6418	0.6501	0.6582	0.6662	0.6741	0.6819
20 CP	0.6608	0.6678	0.6748	0.6818	0.6889	0.6960
21 CM	0.9713	0.9735	0.9754	0.9770	0.9785	0.9797
22 CW	0.7503	0.7640	0.7789	0.7937	0.8097	0.8269
23 CWF	0.7547	0.7706	0.7860	0.8014	0.8145	0.8281
24 CBF	0.6399	0.6495	0.6588	0.6678	0.6765	0.6849
25 DISPL TOTAL SW [t]						
TRIM AFT -0.500 m	27.661	30.306	32.994	35.727	38.504	41.325
TRIM AFT 0.000 m	27.216	29.840	32.514	35.239	38.015	40.842
TRIM AFT 0.500 m	27.353	29.987	32.679	35.388	38.208	41.133
TRIM AFT 1.000 m	28.184	31.069	34.033	37.051	40.106	43.195
26 KMT [m]						
TRIM AFT -0.500 m	2.586	2.475	2.384	2.311	2.258	2.208
TRIM AFT 0.000 m	2.622	2.520	2.439	2.376	2.320	2.283
TRIM AFT 0.500 m	2.682	2.603	2.541	2.457	2.450	2.438
TRIM AFT 1.000 m	2.905	2.767	2.695	2.596	2.501	2.414
27 LCB FWD RFP [m]						
TRIM AFT -0.500 m	0.799	0.768	0.743	0.721	0.703	0.686
TRIM AFT 0.000 m	-0.015	-0.004	0.005	0.013	0.019	0.023
TRIM AFT 0.500 m	-0.812	-0.766	-0.728	-0.687	-0.665	-0.656
TRIM AFT 1.000 m	-1.582	-1.548	-1.526	-1.509	-1.494	-1.478

静水力 尾倾 0.000 m 横倾角 0.000 deg

1 DRAUGHT EXTREME(m)	0.907	0.957	1.007	1.107	1.207	1.307
2 DRAUGHT RFP(m)	0.900	0.950	1.000	1.100	1.200	1.300
3 DISPL TOTAL SW(t)	43.721	46.606	49.592	55.784	62.367	69.142
4 DISPL TOTAL FW(t)	42.655	45.469	48.383	54.423	60.846	67.455
5 DISPL MLD(m^3)	42.234	45.037	47.931	53.941	60.327	66.912
6 LCF FWD RFP(m)	-0.030	0.088	-0.063	-0.346	-0.542	-0.522
7 TCF STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
8 LCB FWD OF RFP(m)	0.026	0.035	0.034	0.015	-0.038	-0.088
9 TCB STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
10 VCB ABOVE RFP(m)	0.483	0.511	0.539	0.597	0.655	0.714
11 KMT(m)	2.259	2.203	2.191	2.185	2.125	2.082
12 KML(m)	23.0	21.4	22.3	23.9	22.9	22.0
13 IT(m^4)	75	76	79	86	89	92
14 IL/1000(m^4)	1.0	0.9	1.0	1.3	1.3	1.4
15 MCT SW(t*m/cm)	0.60	0.59	0.66	0.80	0.85	0.90
16 TPC SW(t/cm)	0.590	0.589	0.611	0.651	0.668	0.681
17 WPA(m^2)	57.5	57.5	59.6	63.5	65.2	66.5
18 WETSURF(m^2)	70.2	72.1	75.3	80.3	86.5	90.5
19 CB	0.6897	0.6968	0.7045	0.7207	0.7389	0.7565
20 CP	0.7031	0.7096	0.7168	0.7322	0.7496	0.7666
21 CM	0.9809	0.9819	0.9828	0.9843	0.9856	0.9868
22 CW	0.8455	0.8449	0.8758	0.9338	0.9581	0.9772
23 CWF	0.8415	0.8563	0.8676	0.8889	0.8878	0.9094
24 CBF	0.6931	0.7013	0.7088	0.7227	0.7339	0.7450
25 DISPL TOTAL SW [t]						
TRIM AFT -0.500 m	44.168	47.055	49.989	56.001	62.140	68.546
TRIM AFT 0.000 m	43.721	46.606	49.592	55.784	62.367	69.142
TRIM AFT 0.500 m	44.235	47.402	50.617	57.142	63.767	70.475
TRIM AFT 1.000 m	46.313	49.460	52.632	59.043	65.532	72.096
26 KMT [m]						
TRIM AFT -0.500 m	2.158	2.123	2.100	2.077	2.035	2.047
TRIM AFT 0.000 m	2.259	2.203	2.191	2.185	2.125	2.082
TRIM AFT 0.500 m	2.365	2.327	2.278	2.183	2.108	2.049
TRIM AFT 1.000 m	2.339	2.272	2.212	2.114	2.041	1.990
27 LCB FWD RFP [m]						
TRIM AFT -0.500 m	0.667	0.651	0.636	0.608	0.589	0.556
TRIM AFT 0.000 m	0.026	0.035	0.034	0.015	-0.038	-0.088
TRIM AFT 0.500 m	-0.664	-0.678	-0.692	-0.712	-0.723	-0.724
TRIM AFT 1.000 m	-1.461	-1.444	-1.426	-1.389	-1.351	-1.311

静水力 尾倾 0.000 m 横倾角 0.000 deg

1 DRAUGHT EXTREME(m)	1.407	1.507	1.607	1.707	1.807	1.907
2 DRAUGHT RFP(m)	1.400	1.500	1.600	1.700	1.800	1.900
3 DISPL TOTAL SW(t)	76.016	82.975	90.003	97.095	104.252	111.477
4 DISPL TOTAL FW(t)	74.162	80.951	87.807	94.726	101.709	108.758
5 DISPL MLD(m^3)	73.597	80.363	87.198	94.095	101.055	108.082
6 LCF FWD RFP(m)	-0.468	-0.396	-0.323	-0.244	-0.160	-0.073
7 TCF STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
8 LCB FWD OF RFP(m)	-0.126	-0.153	-0.171	-0.181	-0.185	-0.183
9 TCB STB OF RFP(m)	0.000	0.000	0.000	0.000	0.000	0.000
10 VCB ABOVE RFP(m)	0.772	0.829	0.886	0.942	0.997	1.053
11 KMT(m)	2.042	2.011	1.987	1.974	1.971	1.976
12 KML(m)	20.8	19.8	18.9	18.2	17.5	17.0
13 IT(m^4)	93	95	96	97	98	100
14 IL/1000(m^4)	1.5	1.5	1.6	1.6	1.7	1.7
15 MCT SW(t*m/cm)	0.93	0.97	1.00	1.03	1.06	1.09
16 TPC SW(t/cm)	0.691	0.699	0.706	0.713	0.720	0.728
17 WPA(m^2)	67.4	68.2	68.8	69.5	70.2	71.0
18 WETSURF(m^2)	94.2	97.9	101.6	105.2	108.9	112.7
19 CB	0.7726	0.7874	0.8010	0.8135	0.8251	0.8361
20 CP	0.7822	0.7966	0.8097	0.8218	0.8331	0.8437
21 CM	0.9877	0.9885	0.9892	0.9899	0.9904	0.9909
22 CW	0.9903	1.0022	1.0118	1.0219	1.0323	1.0433
23 CWF	0.9296	0.9508	0.9698	0.9902	1.0116	1.0338
24 CBF	0.7563	0.7676	0.7788	0.7900	0.8012	0.8123
25 DISPL TOTAL SW [t]						
TRIM AFT -0.500 m	75.296	82.312	89.463	96.707	103.971	109.858
TRIM AFT 0.000 m	76.016	82.975	90.003	97.095	104.252	111.477
TRIM AFT 0.500 m	77.238	84.052	90.933	97.878	104.652	109.317
TRIM AFT 1.000 m	78.732	85.436	91.767	96.958	101.464	105.321
26 KMT [m]						
TRIM AFT -0.500 m	2.025	2.027	2.016	2.009	1.879	1.680
TRIM AFT 0.000 m	2.042	2.011	1.987	1.974	1.971	1.976
TRIM AFT 0.500 m	2.004	1.972	1.953	1.944	1.681	1.529
TRIM AFT 1.000 m	1.955	1.931	1.722	1.652	1.583	1.528
27 LCB FWD RFP [m]						
TRIM AFT -0.500 m	0.508	0.451	0.402	0.364	0.331	0.248
TRIM AFT 0.000 m	-0.126	-0.153	-0.171	-0.181	-0.185	-0.183
TRIM AFT 0.500 m	-0.722	-0.715	-0.703	-0.687	-0.650	-0.517
TRIM AFT 1.000 m	-1.271	-1.231	-1.154	-1.027	-0.885	-0.740