

455 Series - 400' x 105' x 25' - 121.92 m x 32.00 m x 7.62 m



Specifications

Summer Load Line		
Keel Draft	19' 1.1875"	5.82 m
Summer Load Line Displacement	23,090 ST	20,946.90 MT
Summer Load Line Deadweight	19,226 ST	17,441.53 MT
Lightship Draft (mean)	3' 9"	1.14 m
Lightship Displacement	3,863.87 ST	3,505.24 MT
Lightship LCG Forward of Transom	202.22'	61.64 m
Lightship VCG Above Baseline	13.81'	4.21 m
Draft Mark Locations - Forward of Transom		
Fwd Marks	337.77'	102.95 m
Aft Marks	60.83'	18.54 m

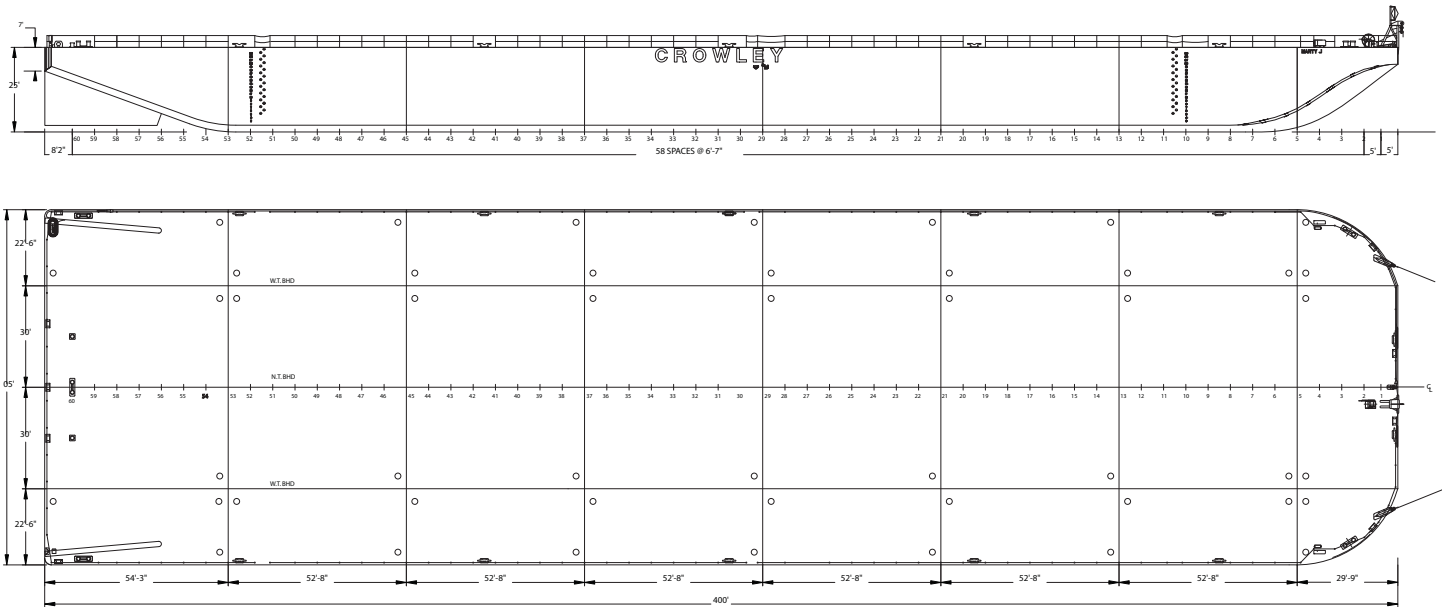
Longitudinal Strength Data

Maximum Allowable Still Water Bending Moments		
In Port	345,117 LT-ft	106,880 MT-m
At Sea	157,468 LT-ft	48,766 MT-m
Maximum Allowable Still Water Shear Force		
In Port	3,276 LT	3,328.57 MT
At Sea	1,781 LT	1,809.58 MT

DWT (M/T)	DRAFT (M)	DWT (S/T)	DRAFT (FEET)	DISPL (S/T,S.W.)	TPI
17237	4.0	19000	19	23000	110
16329		18000	18	22000	
15422		17000	17	21000	
14515		16000	16	20000	
13608		15000	15	19000	
12701		14000	14	18000	
11793		13000	13	17000	
10886		12000	12	16000	
9979		11000	11	15000	
9072		10000	10	14000	
8165	3.0	9000	9	13000	106
7257		8000	8	12000	
6350		7000	7	11000	
5443		6000	6	10000	
4536		5000	5	9000	
3629		4000	4	8000	
2722		3000	3	7000	
1814		2000	2	6000	
907		1000	1	5000	
		0	0	4000	
	1.0		3		94

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455 Series - Summary of Allowable Loads



Transverse Frames

Uniform Linear Load	42,308 lbf/ft	62.96 MT/m
Point Load	198,998 lbs	90.26 MT

Nominal Overall Deck Load Rating

Counting Long'l Stiffeners	4,200 lbf/ft ²	20.51 MT/m ²
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Transverse Bulkheads

Uniform Linear Load	82,094 lbf/ft	122.17 MT/m
Point Load		
(only over web frames)	547,293 lbf	248.25 MT

Intersection of Structures

Transverse and Longitudinal Bulkheads	814.89 Kips	369.63 MT
Transverse Bulkhead and Side Shell	772.97 Kips	350.61 MT
Transverse Frame and Side Shell	599.60 Kips	271.97 MT

Longitudinal Bulkheads

Uniform Linear Load	74,722 lbf/ft	111.20 MT/m
Point Load		
(only over web frames)	515,205 lbf	233.69 MT

