



3101 New Haven Ave Fort Wayne, IN 46803 260-422-8767

11/14/17

BARGE CONFIGURATION AND ENGINEERING ANALYSIS

Library # 1680

DECK LOAD	Weight	Vertical	Dist from	Centroid	Size	(ft)
Description	(lbs)	CG (ft)	X (ft)	Y (ft)	Length	Width
Manitowoc MLC 650 VPC MAX	1,033,498	50.0	0	0	25	30
Crane Mat - 24" Thick	200,000	11.0	0	0	50	50
Crane Pick Load	300,000	285.0				
Misc deck load	100,000	15.0				

HULL WEIGH	łT	Weight	Vertical	Alignment Angle	Range of
Qty	Description	(lbs)	CG (ft)	Orientation (deg)	Operation
28	P10 - 10 x 44 x 11 - Barge	1,311,324	5.0	90	
16	P10 - 10 x 22 x 11 - Barge	405,792	5.0	135 1 45	
4	P10 - 10 - Spud Pocket	24,844	6.5	XIX	full
				180 0	360
					degrees
				225 315	
				270	

BOW 200 180 P 120 Α 100 N P 0 R 60 Ε W 100 100 180 200 -40 STERN

Deck Load (lbs)

1,633,498

Hull Weight (lbs)

1,741,960

Total Weight (lbs)

3,375,458

Platform Centroid (ft)

> X = 66.00 Y = 66.00

Lift Radius (ft)

120

Boom Length (ft)

300

Pick Height (ft)

275

Net Vert CG (ft)

44.3





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HYDROSTATICS			
Description		Description	
Displaced Volume in Saltwater (ft ³)	52,742	Average Draft in Saltwater (ft)	3.03
Displaced Volume in Freshwater (ft ³)	54,094	Average Draft in Freshwater (ft)	3.10
Longitudinal Moment of Inertia (ft ⁴)	25299648	Waterplane Area (ft²)	17424
Transverse Moment of Inertia (ft⁴)	25299648	Vertical Center of Buoyancy (ft)	1.55

STABILITY METRICS				
Working over end of platform	1	Working over side of plat	tform	
Trim Moment (ft lbs)	36000000	List Moment (ft lbs)	36000000	
BM _L (ft)	467.7	BM_T (ft)	467.7	
GM _L (ft)	424.9	GM_T (ft)	424.9	
Note - Negative moments and angles are towards the Port and Stern.				

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Width (ft)
Port to Stbd
132.0

Length (ft)
Bow to Stern
132.0

List Angle (deg)
Port to Stbd

1.4

Trim Angle (deg)
Bow to Stern

1.4

Average Draft (ft)
freshwater
3.1

This analysis is provided for the evaluation of buoyancy and stability based upon the project parameters submitted to Poseidon Barge Corp. There are project and worksite conditions and variables which are unforeseeable and beyond the control of Poseidon Barge Corp. and therefore, we cannot accept responsibility and specifically deny any liability for the safe use of Poseidon Barge Corp. equipment. This analysis is a guideline and does not constitute a guarantee that there will not be circumstances that prevent and do not allow for the intended use of the equipment. Approval of the analysis and ultimate project engineering is the sole responsibility of the contractor/lessee. Please review our website for further information concerning our Disclaimer of Warranties. www.poseidonbarge.com