ABS OCEAN CLASS BARGE: CORDIE

SPECIFICATIONS

260’ x 72’ x 16’ ABS Classed Ocean Deck Barge

**BARGE DESCRIPTION**
Year Built 2013
Length Overall 260’-0”
Breadth 72’-0”
Depth 16’-0”
Three (3) Longitudinal Corrugated Bulkheads
Six (6) Transverse Bulkheads (5 Corrugated)
One (1) Plate with Stiffeners
28 Watertight Compartments

**SCANTLING AND PLATE SIZES**
Deck plate 5/8” plate
Side plate 1/2” plate
Bottom plate 1/2” and 5/8” plate
Headlog 3/4” plate
Transom 3/4” plate
Bulkheads 3/8” plate
Deck Longitudinals 8” x 4” x 1/2” angle
Side Longitudinals 6” x 4” x 3/8” angle
Bottom Longitudinals 6” x 4” x 3/8” angle
Deck Transverse Girder 24” x 5” x 3/8” flanged plate
Side Transverse Girder 20” x 4” x 3/8” flanged plate
Bottom Transverse Girder 20” x 4” x 3/8” flanged plate
Vertical Stanchions WT 9 x 60#
Diagonal Stanchions 8” x 8” x 1/2” angle

**CLASSIFICATION**
Barge built and classed to ABS Ocean Service

**DECK PAYLOAD**
5,000psf Uniform Deck Payload

**DECK FITTINGS**
Four (4) 12” double bitts (all bitts recessed)
Thirteen (13) 36” kevels (12 mid body kevels recessed; 1 stern center kevel flush)
Twenty eight (28) 18” diameter flush-mounted, single bolt manholes
Twenty-eight (28) vertical access ladders, i.w.o. manholes
Two (2) towing pad eyes
Three (3) navigation stands
Two (2) skegs

**HULL PROTECTION**
Three (3) horizontal rows of ½” formed plate rub rail are installed on each side of vessel
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## SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th><strong>US UNIT</strong></th>
<th><strong>METRIC UNIT</strong></th>
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</thead>
<tbody>
<tr>
<td>Summer Load Line Keel Draft</td>
<td>12'-8 1/8&quot;</td>
<td>3.86 m</td>
</tr>
<tr>
<td>Summer Load Line Displacement</td>
<td>6,119.19 lt</td>
<td>6,217.38 mt</td>
</tr>
<tr>
<td>Dead Weight Capacity</td>
<td>5,600 lt</td>
<td>5,069 mt</td>
</tr>
<tr>
<td>Lightship Draft (mean)</td>
<td>2.51' @ lcf</td>
<td>0.765 m @ lcf</td>
</tr>
<tr>
<td>Lightship Displacement</td>
<td>1,094.69 lt</td>
<td>1,112.26 mt</td>
</tr>
<tr>
<td>Lightship LCG</td>
<td>129.60 ft aft of f.p.</td>
<td>39.50 m</td>
</tr>
<tr>
<td>Lightship VCG Above Baseline</td>
<td>9.60'</td>
<td>2.93 m</td>
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</tbody>
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### Draft Mark Locations-Forward of Transom
- **Aft Marks**: 22'-8" fwd of transom
- **Fwd Marks**: 222'-8" fwd of transom

### Maximum Allowable Still Water Bending Moments
- +/− 64,207 lt-ft
  - +1,512.8 lt @ 201.46 aft
  - -1,177.0 lt @ 140.88 aft

### Maximum Allowable Still Water Shear Force
- +1,537.08 mt @ 61.41 m aft
- -1,195.89 mt @ 42.94 m aft

### Uniform Deck Deck Load Rating
- 5,000 lbs/ft²

### Transverse Frames:
- **Uniform Linear Load**: 34 kips/ft
- **Point Load**: 132 kips

### Transverse Bulkheads:
- **Uniform Linear Load**: 46 kips/ft
- **Point Load**: 256 kips

### Longitudinal Bulkheads
- **Uniform Linear Load**: 46 kips/ft
- **Point Load**: 256 kips

### Intersection of Structures:
- **Transverse Bulkhead and Longitudinal Bulkheads**: 653 kips
- **Transverse Frame and Longitudinal Bulkhead**: 256 kips
LOAD DISTRIBUTION TYPE AND LIMITS

- UNIFORM DECK LOAD ANYWHERE = 5,000 LBS/FT² (24.41 T/M²)
- INTERSECTION LONGITUDINAL BULKHEAD AND TRANSVERSE BULKHEAD = 653 KIPS (296 T)
- INTERSECTION TRANSVERSE FRAME AND LONGITUDINAL BULKHEAD = 256 KIPS (116 T)
- ANYWHERE ON LONGITUDINAL BULKHEAD OR TRANSVERSE BULKHEAD = 256 KIPS (116 T)
- ANYWHERE ON TRANSVERSE FRAME = 132 KIPS (60 T)

- LINE LOAD ON LONGITUDINAL BULKHEAD OR TRANSVERSE BULKHEAD = 46 KIPS/FT (68 T/M)
- LINE LOAD ON TRANSVERSE FRAME = 34 KIPS/FT (50 T/M)

NOTES

NOT ALL LOADS CAN BE COMBINED
TOTAL LOAD NOT TO EXCEED 5,000 LT, SEE ALSO INTACT STABILITY & DEADWEIGHT SURVEY REPORT
SUPPORT AREA POINT LOADS AT LEAST 30" x 30"
SUPPORT WIDTH LINE LOADS AT LEAST 12"
STILL WATER BENDING MOMENT TO BE CHECKED
WHEN IN DOUBT, CONSULT OWNER
LONGITUDINAL SECTIONS

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LONGITUDINAL SECTION 6'-0" OFF CL

LONGITUDINAL SECTION 11'-10 5/8" OFF CL

DETAIL 2-D

DETAIL 1-D

SECTION 2-B