



# SHIP LADDERS WORKSHEET

Date: \_\_\_\_\_ Name: \_\_\_\_\_

Dealer: \_\_\_\_\_

Project Location (ZIP Code): \_\_\_\_\_ Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Codes Applied:** IBC 2009  
OSHA

### Condition(s):

- Ship Ladders are permanently installed, steep pitch, stair like structures having rigid treads supported by rigid stringers, with handrails on both sides. While called “ship ladders,” the application is land based operations. Installation should be limited to places only where occasional use is required, such as maintenance and service platforms.
- OSHA: For “areas where conventional industrial stairs cannot be installed due to limited space availability.”  
[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=INTERPRETATIONS&p\\_id=25301](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS&p_id=25301)
- OSHA refers to ships ladders as “Substandard Pitch Fixed Industrial Ladder OSHA Subpart D. 1910 27(e) (2)
- IBC: Restricts ship ladders to correctional centers (I-3) to and from areas not more than (250 ft<sup>2</sup>) with no more than 3 occupants and unoccupied roofs. *IBC 2009, Section 1009.11* Consult building inspector to determine if IBC code is to be applied.
- Minimum Load Capacity: (1,000 lb) – *OSHA, Subpart D, 1910.24(c)*
- Angle of inclination is restricted to the range of (50°) to (70°) from horizontal. *OSHA 1990, Subpart D, Walking Surfaces, 55 Federal Register 13360, 1910.25*

### Requested Parameters

Tread Width (22 inch minimum): \_\_\_\_\_ Angle of Inclination (50° to 70°): \_\_\_\_\_

Overall Width (26.5 inch minimum): \_\_\_\_\_ Overall Length (Horizontal): \_\_\_\_\_

Required: Change in Elevation: \_\_\_\_\_ (“Top of Deck” unrestricted—standard up to 12 feet)

### Standard Features

#### Stringer/Handrail:

Type: Structural Steel  
 Finish: Prep - SSPC-SP6  
 Process: Powder-coat  
 Color: Safety Yellow

#### Tread:

Type: Bar Grate, Width: (24 inches)  
 Finish: Prep - SSPC-SP6  
 Process: Powder-coat  
 Color: Black

**OSHA Link:** [http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=9716](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9716)