

# 1917 - Subpart F - Terminal Facilities

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# 1917 - Subpart F

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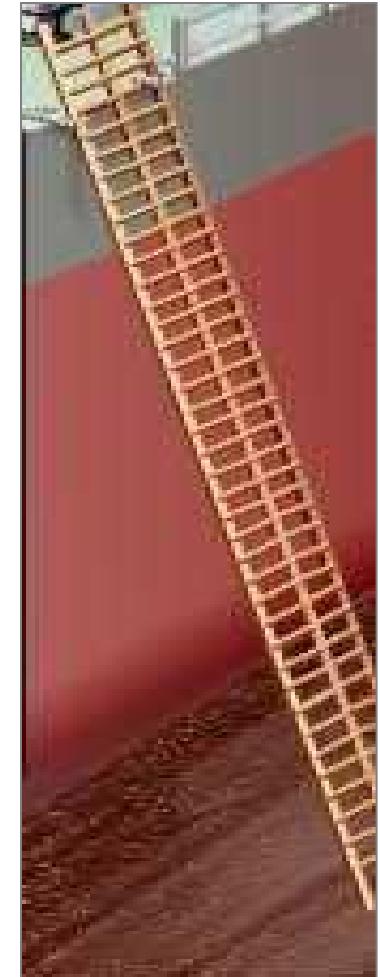
- 1917.111 - Maintenance and load limits
- 1917.112 - Guarding of edges
- 1917.113 - Clearance heights
- 1917.114 - Cargo doors
- 1917.115 - Platforms and skids
- 1917.116 - Elevators and escalators
- 1917.117 - Manlifts



# 1917 - Subpart F

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- 1917.118 - Fixed ladders
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# 1917 - Subpart F

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- 1917.124 - Dockboards (car and bridge plates)
- 1917.125 - Guarding temporary hazards
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- 1917.128 - Signs and marking



# Maintenance and Load Limits

1917.111(a)

- Structural integrity of docks, piers, wharves, terminals and working surfaces maintained
  - [note: marine terminal in Kobe, Japan following Jan.'95 earthquake.]



# Maintenance and Load Limits

1917.111(b)-(c)

- Maximum safe load limits
  - Must be conspicuously posted in all cargo areas
- Maximum safe load limits not exceeded



# Maintenance and Load Limits

1917.111(d)

- Walking and working surfaces
  - Must be maintained in good repair



# Guarding of Edges

1917.112(a)

- Vehicle protection
  - Vehicle curbs, bull rails, or effective barriers at least 6" in height
  - Curb or bull rails installed after 10/3/83 - at least 10" height



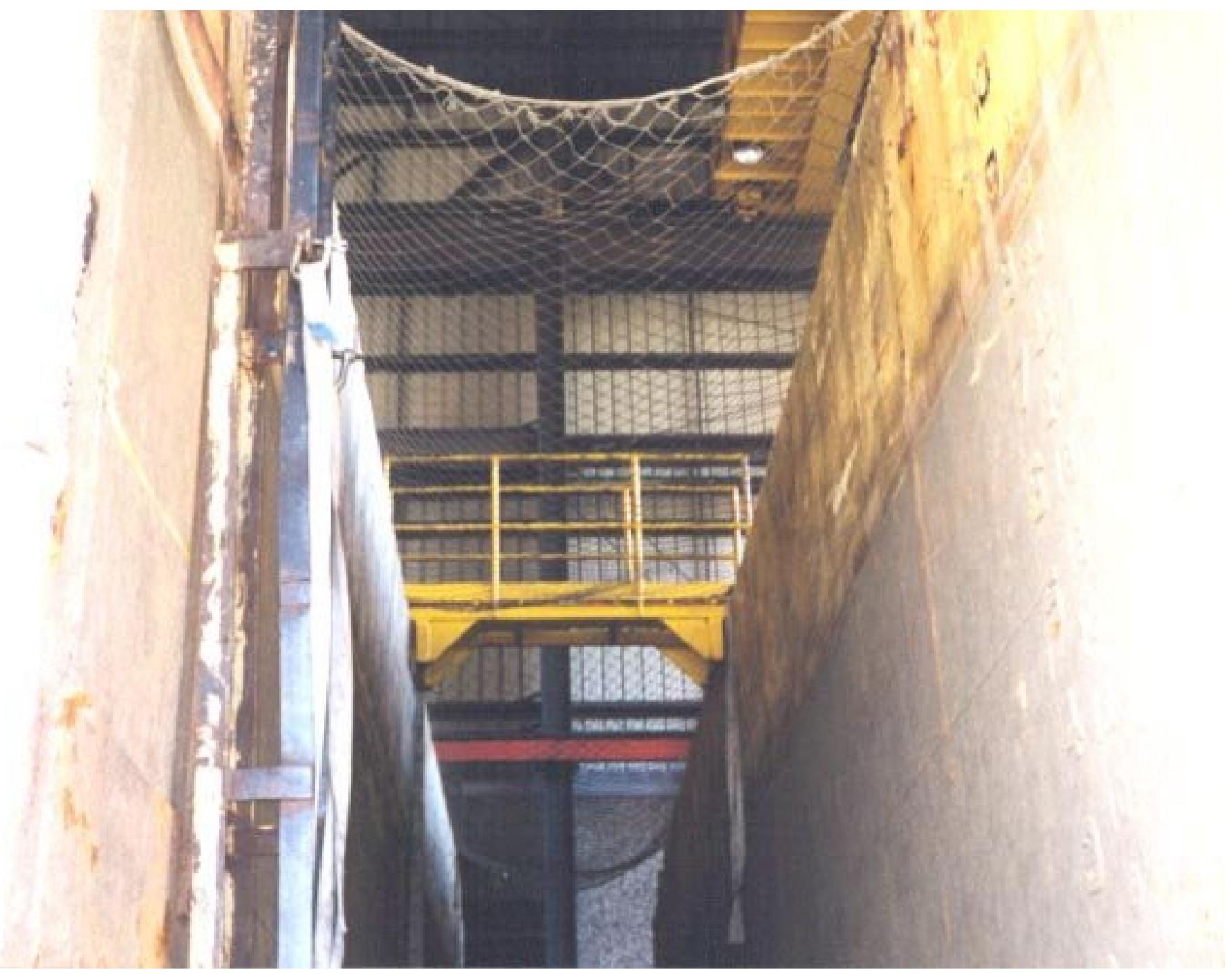


# Guarding of Edges

1917.112(b)(1)

- Employee protection
  - Guardrails – exposed to floor or wall openings
  - Hazard of falling more than 4 feet or into water







# Guarding of Edges

1917.112(b)(2)

- Locations where guardrails are not required:
  - Loading platform and docks
  - Waterside edges used for cargo handling
  - Working sides of work platforms
  - Railroad rolling stock, highway vehicles, intermodal containers



# Guarding of Edges

1917.112(c)

- Guardrails criteria:
  - Withstand a 200 lb. force
  - Consist of toprail and midrail



# Guarding of Edges

1917.112(d)

- Toeboards requirements:
  - When employees exposed to falling objects
  - At least 3 ½" in height
  - Withstand a force of 50 lbs.



# Guarding of Edges

1917.112(e)-(f)

- Stair railings:
  - With-stand a force of 200 lbs.
  - Top rail, 32"-36" in height
  - Free of sharp edges
  - Maintained in good condition



# Clearance Heights

1917.113

- Posted where height is insufficient for vehicles and equipment



# Cargo Doors

1917.114(a)(1)

- Mechanical operated:
  - Cargo door counterweights must be guarded



# Cargo Doors

1917.114(a)(2)

- Mechanical operated:
  - Lift trucks and cranes not used to open doors unless for repairs
  - Opening roped or guarded to prevent entry



# Cargo Doors

1917.114(a)(3)

- Mechanical operated:
  - Vertically operated doors partially opened – secured against falling



# Cargo Doors

1917.114(c)(1)-(2)

- Horizontal sliding;
  - Rollers constructed to prevent jumping off tracks
  - Doors secured to prevent swinging



# Platforms and Skids

1917.115

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- Extend from pier, transit shed or lofts
  - Guardrails on open sides
  - Alternate means, such as nets
- Employees working below second-story platform
  - Protected from falling objects by net
- Strong enough to bear loads handled
  - Safe working load posted
- Platform and skid attachments that will prevent movement



# Elevators and Escalators

1917.116

- Safety devices not to be overridden
- Thoroughly inspected each year
  - Monthly inspections by designated person
- Elevator landing openings - provided with doors, gates, etc.
- Load limits posted and not exceeded
- Operated by designated persons



# Elevators and Escalators

1917.116

- Elevator control panel

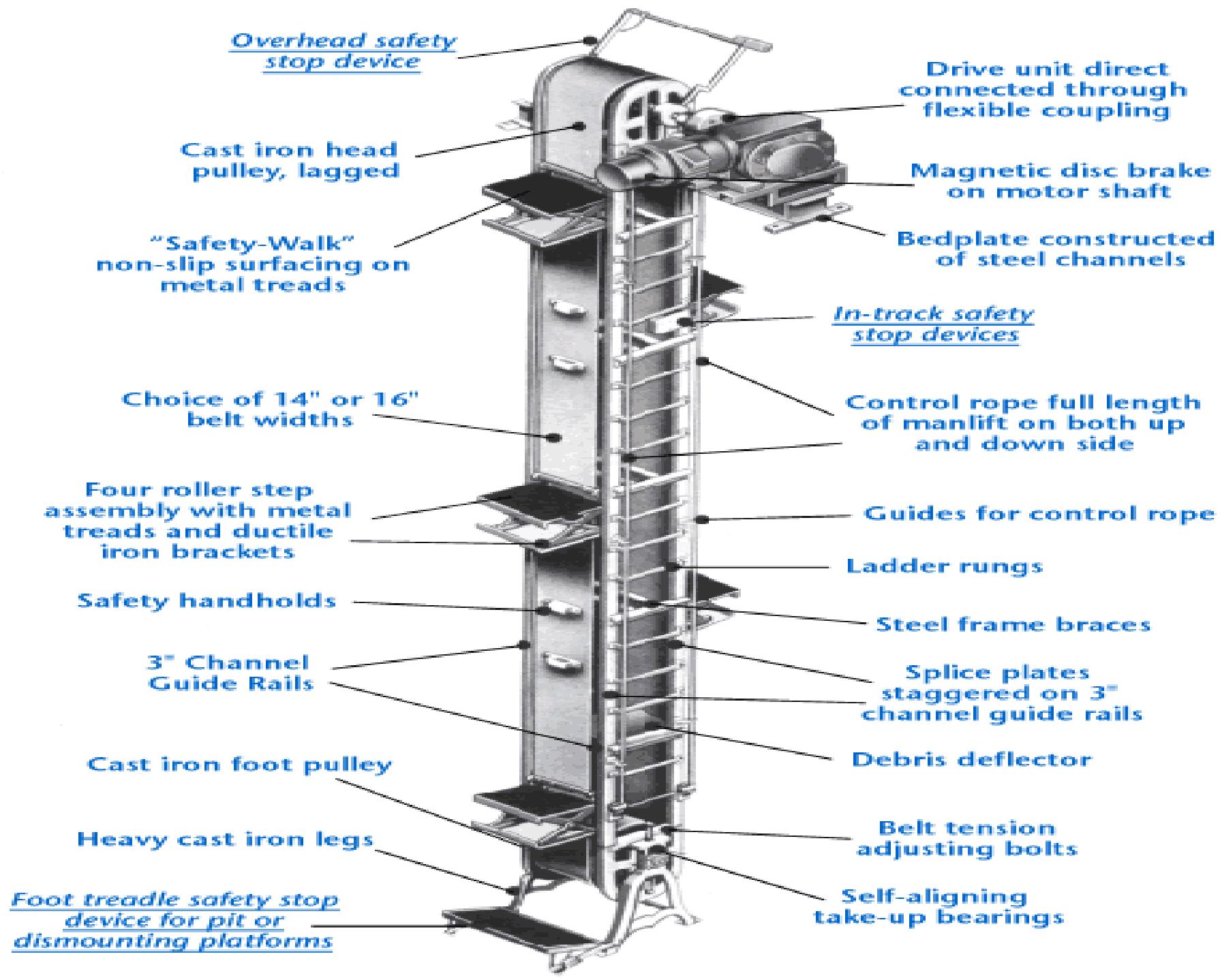


# Manlifts

1917.117(a)

- Manlifts not found in most marine terminals
  - Some still found at grain terminals
- Inspected monthly by designated person
- Safety switches checked weekly
- Monthly inspection includes 22 items





# Manlifts

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1917.117(c)

- Emergency stop device
  - Within easy reach from any position on the belt



# Manlifts

1917.117(d)

- Instructions must be conspicuously posted



# Manlifts

1917.117(i)-(j)

- Emergency ladder accessible
  - Provided for entire run of the lift
- Landing spaces to be clear
  - Unobstructed with guardrails
  - Floor landing entrances and exits guarded



# Manlifts

1917.117(n)

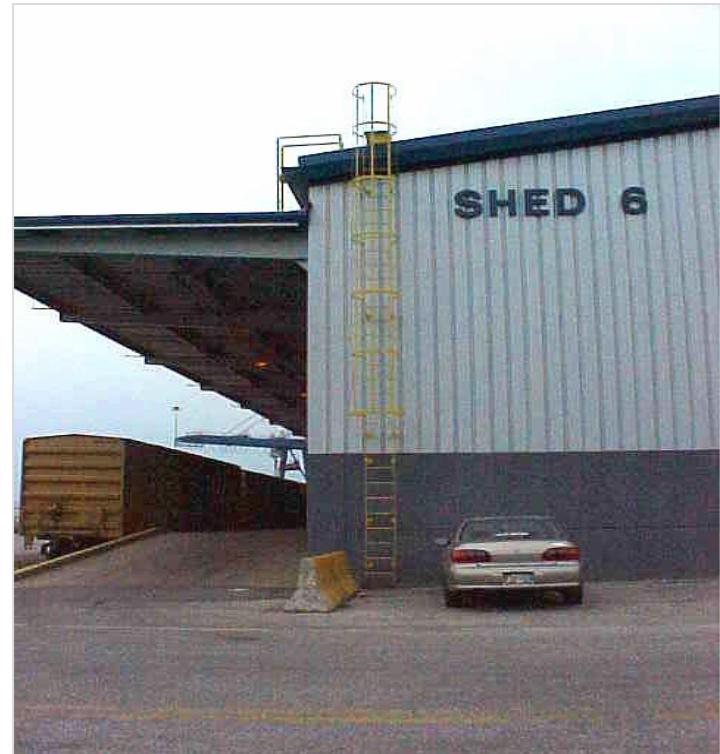
- Clearance between top landing and ceiling to be at least 11 feet



# Fixed Ladders

1917.118(a)-(f)

- Defective ladders removed from service
- Rungs evenly spaced
  - 12" apart ( $\pm 2"$ ), and at least 12" wide
- Side rails extend 36" above top landing
- Ladders more than 20 feet in height
  - Cage, well or safety device



# Portable Ladders

1917.119(a)-(f)

- Manufacturer ladders obtained after 1/21/1998
  - I.D. of appropriate ANSI standard
- Maintained in safe condition
- Securely positioned on level and firm base
- Fitted with slip resistant bases



# Portable Ladders

1917.119(f)(5)

- Self-supporting ladders not used as single straight ladders



# Fixed Stairways

1917.120

- Stairs with 4 or more risers
  - Stair railings or handrails
- Railing height
  - 33",  $\pm$  3" from tread surface at riser face
- Capable of supporting a force of 200 lb.



# Spiral Stairways

1917.121

- Stairway conform to Figure F-1
- Railing comply with 1917.112(c)(1)
- Vertical clearance at least 6 feet 6 inches above top step

Figure F-1

Spiral Stairway – Minimum Dimensions		
	A (half-tread width)	B
Normal use by employees	11 inches	6 inches
Limited access	9 inches	5 inches

# Employee Exits

1917.122

- All exits clearly marked
- If exit not visible
  - Directional signs posted
- Exits readily accessible and clear passage maintained
- Minimum width of exit – 28 inches



# Illumination

1917.123

- Working and walking areas illuminated
- Measurement of light intensity
  - Cargo transfer points – 5 foot-candles
  - Other work areas – 1 foot-candle
  - Security purposes –  $\frac{1}{2}$  foot-candle
- Lights should not shine in employee's eyes

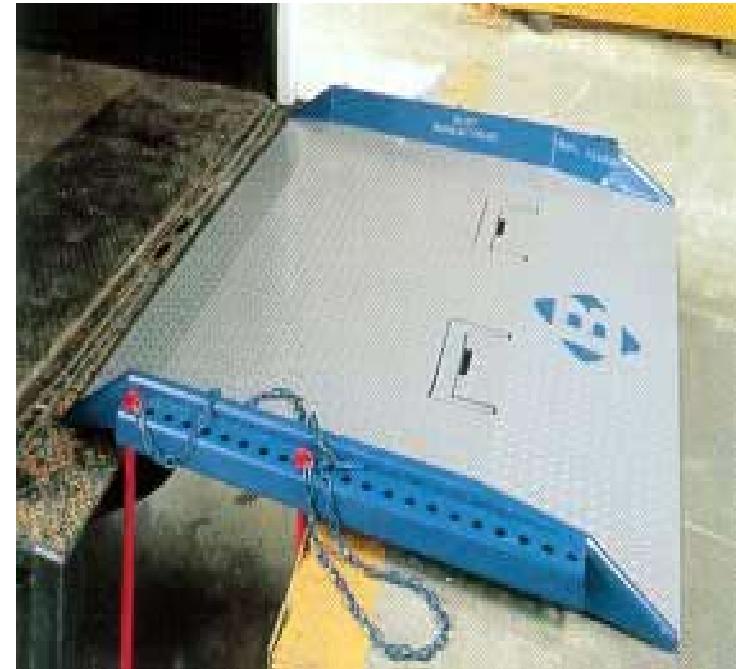




# Dockboards (car and bridge plates) 1917.124(c)(1)-(3)

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- Strong enough to support loads
- Anchored or be equipped w/devices to prevent movement
- Hand holds on portable dockboards



# Dockboards (car and bridge plates) 1917.124(c)(4)

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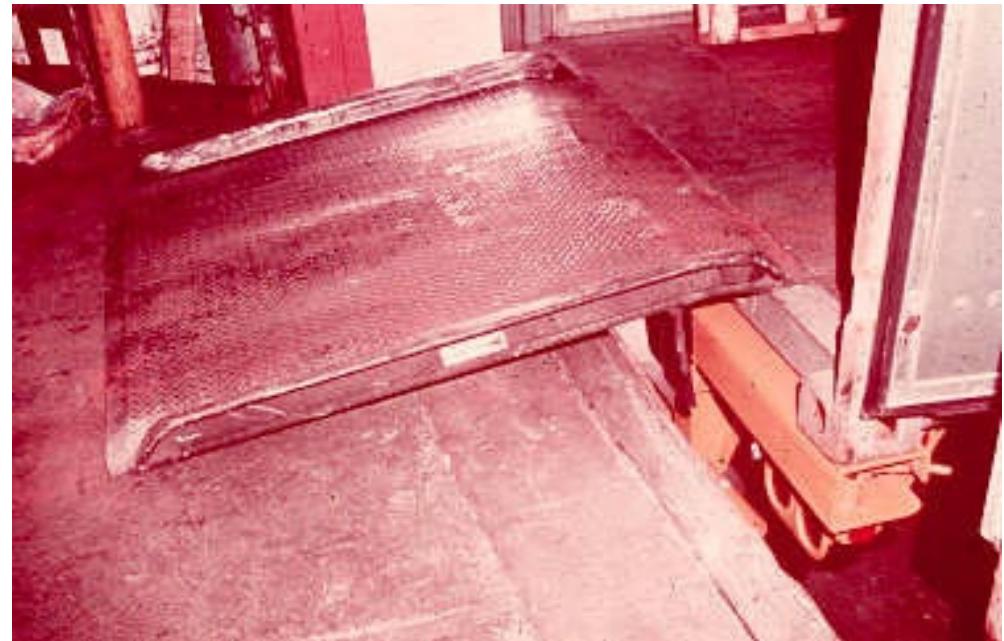
- Positive means to prevent railcars or highway vehicles from moving



# Dockboards (car and bridge plates) 1917.124(c)(5)

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- Constructed to prevent vehicles from running off edge
  - Minimum side board height of  $2\frac{3}{4}$  in.



# Dockboards (car and bridge plates)

1917.124(d)

- Ramps strong enough to support load
- Constructed to prevent vehicles from running off edge
  - Minimum side board height of 2  $\frac{3}{4}$  in.
- Slip-resistant surface



# Guarding Temporary Hazards

1917.125

- Ditches, pits, excavations and surfaces in poor repair – guarded
  - Readily visible barricades
  - Rails
  - Other equally effective means





# River Banks

1917.126(b)

- Working surfaces at river banks slope so steeply – employee could slip or fall into water
  - Outer perimeter posted or roped off
  - Employees must wear a personal flotation device



# Sanitation

1917.127(a)

- Washing and toilet facilities provided
  - Running water
  - Soap
  - Individual hand towels
  - Separate compartments

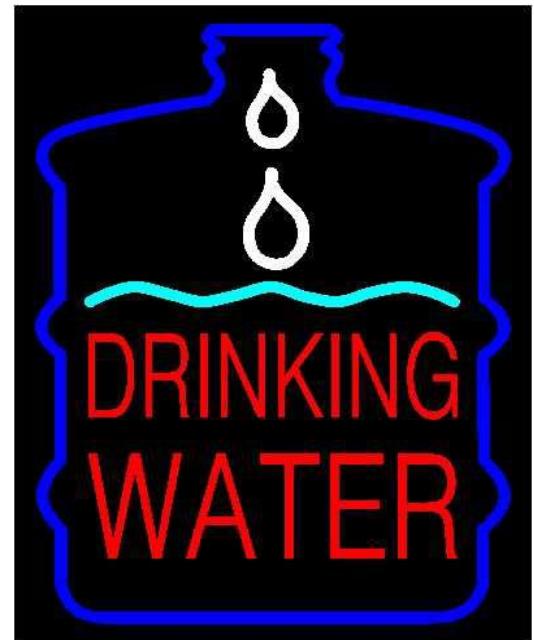


# Sanitation

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1917.127(b)

- Potable drinking water accessible at all times
- Water containers clean, containing only water and ice
  - Fitted with covers
- Common drinking cups prohibited



# Sanitation

1917.127(c)-(d)

- Eating or drinking in vicinity of hazmat handling or storage is prohibited
- No working in vicinity of uncovered garbage



# Signs and Marking

1917.128

- Conspicuously posted signs
  - Location of first aid facilities
  - Location of telephones
  - Emergency telephone numbers
    - » EMS, police, fire department, etc. [911?]
  - Location of firefighting, emergency equipment and fire exits



# Thank You For Attending!

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## Final Questions?

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