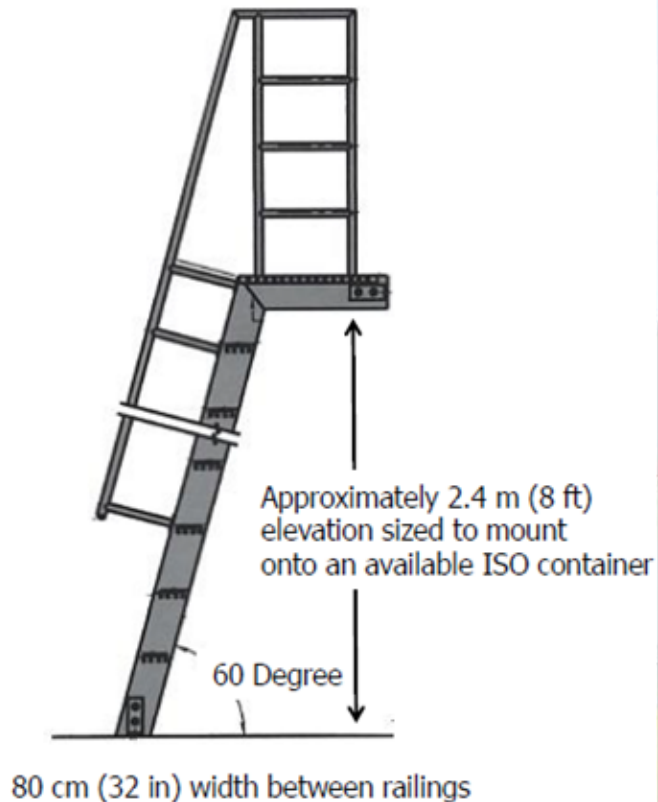
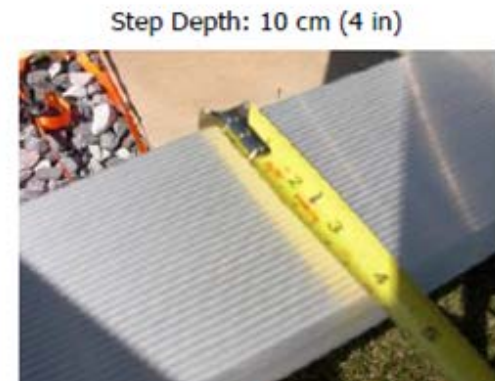


# Event 5: Ladder Climbing

- DARPA's Specifications



Step Height: 30 cm (12 in)



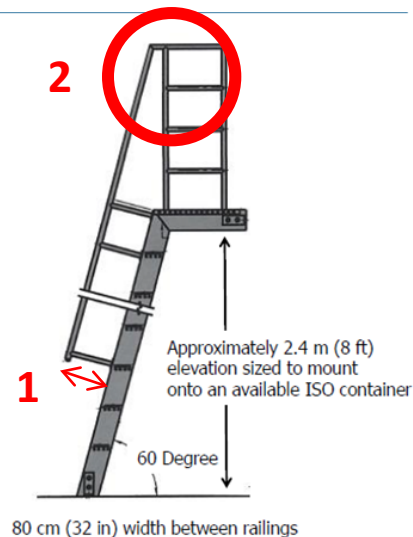
Step Depth: 10 cm (4 in)

# Items to order

- Ship Ladder Parameters Released by DARPA
  - Inclination : **60 degree**
  - Rung space: **30 cm**
  - Rung depth: **10 cm**
  - Ladder width: **80 cm**
  - Rung Number: **9**
  - Ladder top height: **240 m**
- Ship Ladder to order
- <http://www.blwilcox.com/ladders/okeeffe/ship-ladders.php>

# Concerns

- Ladder parameters
  - Height of the rail off the ladder (affect the exact placement of hands) **1**
  - The rail shape on the walkway are different in the DARPA document (affect the dismount strategy) **2**



Step Height: 30 cm (12 in)



Step Depth: 10 cm (4 in)

# Concerns

- Suggestions on hardware improvement
  - Hardware problems are encountered quite often, having hardware checked at the ending of everyday by someone particularly assigned is suggested so that:
    - Hardware problems can be discovered and fixed earlier
    - Teams who don't need the problematic parts can use the hardware before teams who do if fixing needs a longer time compared to testing, e.g. walking can be tested with fingers failure
  - For dismounting, high hoist to pass through the ladder is needed. The frames built for rough terrain in the arena is still not high enough say for a 2.4 m ladder. One way is to have a safety belay to be placed higher than the ladder like highlighted in the picture

