



Attachment B - Specifications

RFx: 3000020733

Title: *Re-Bid* Platforms – DEQ

PLATFORM SPECIFICATIONS

General: Platforms, steps, and accessories shall be modular in design to allow for ease of assembly and relocation.

I. PLATFORM

1. 5' X 10' (Usable Dimensions 60" X 120") Composed of two (2) 5' X 5' Platforms
2. Engineering:
 - Platforms sections shall be designed to 2018 International Residential Code (IRC) with a minimum uniform live load of one hundred (100) lbs. per square foot (PSF) and concentrated minimum vertical load of three hundred (300) lbs.
3. Material:
 - Platform sections shall be constructed using 6000 series aluminum alloy with 6061-T6 or 6005-T5 used for structural components.
4. Design and Fabrication:
 - Platforms shall be prefabricated in 65-1/2" square sections.
 - Platform surface is to be continuous, that is no gaps greater than 1/4", and shall have an extruded slip resistant surface, knurled to make slip resistance bi-directional.
 - Platforms shall be constructed of approximately 1-1/4" X 6" high self-mating aluminum deck.
 - Platforms shall be designed for variable height adjustment.
5. Weight: 163.2 lbs. without handrails
6. Weight Capacity: 1,000 lbs. minimum.
7. Outer Dimensions: 65.5" X 65.5" (or dimensions needed to provide minimum of 60" X 60" usable space)
8. Width to Outside of Support Feet: 65.75" X 131.5" (65.75" +/- 6")
9. Includes five 5' Guards
10. Includes five 5' X 1.5" X 2" +/- 1" Barriers/Curbs
11. Includes step closure for 5' PF with 56" step
12. Handrail Height: 34" to 38"
13. Handrail Diameter: 1" to 2"

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II. SUPPORT LEG ASSEMBLIES

1. Length: 60” to 68”
2. Engineering:
 - All support assemblies shall be designed to support the steps and platform sections as specified.
 - Support assemblies shall be designed to hold the support tubes and legs vertical in all locations.
 - Support tubes and legs shall have a minimum wall thickness of .094”.
3. Materials:
 - Support assemblies shall be constructed of aluminum alloys 6005-T5 or 6061-T6 with polymer feet.
 - All fasteners shall be grade 5 strength or higher with zinc plated or zinc chromate finish.
4. Design:
 - The legs shall allow for height and slope adjustments. Legs shall be designed so that they will be perpendicular to the ground and vertical loads are transmitted axially through them, regardless of slope.
 - Support tubes and legs shall be adjustable for variations in height.
 - All aluminum brackets shall be supplied for attachment of the steps and/or platforms to the proper support tube or leg.
 - All legs shall have a through bolted 7.375” X 7.375” (minimum) square polymer foot.

III. GUARDS AND HANDRAILS

1. Guards and handrails shall be designed to resist, without failure, a single concentrated load of at least two hundred (200) lbs. applied at any point and in any direction at the top of the guard or handrail and to transfer this load through the supports to the structure.
2. Guard and handrails shall be designed and constructed to resist a load of at least fifty (50) lbs. per linear foot applied horizontally at the required guard height and simultaneous load of at least one hundred (100) lbs. per linear foot applied vertically downward at the top of the guard.
3. Materials:
 - All guards, handrails, and handrail brackets shall be all aluminum construction from alloys 6005-T5 or 6061-T6.
4. Design and Fabrication:

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- Handrail gripping surface shall be smooth and continuous throughout the steps, and the platform, returning to a guard or wall that is not more than ¼” from the end of the handrail termination.
- The handrail shall be 1-1/2” +/-½” diameter tubing. The top of the handrail shall be 36” +/-2” above the walking surface. The height of the handrail above the finish surface “shall be uniform, not less than 34” (864 mm) and not more than 38” (965 mm)”.
- All handrail tubes shall be deburred and all sharp edges removed from gripping surfaces.
- All handrails shall be supplied with mill finish.
- Guards shall form a protective barrier of 42” +3” high, minimum. Guards shall be designed such that a 4” +/-1” sphere cannot pass through any opening.
- All platform guards shall include a 1.5” X 2” +/-1” mid-rail located at a height midway between the top edge of the guardrail system and the walking-working surface.
- All platform guards shall include a 1.5” X 2” +/-1” Barrier/Curb located 1.5” to 2.5” above the platform deck.

IV. STEPS

1. Engineering:

- Steps Systems shall be designed for a Uniform Live Load of one hundred (100) pounds per square foot (psf) minimum and a concentrated vertical load of three hundred (300) pounds minimum over an area of four (4) square inches.

2. Materials:

- Steps shall be constructed using 6000 series aluminum alloy with 6061-T6 or 6005-T5 used for structural components.

3. Design & Fabrication:

- Step risers shall be between 7” maximum and 4” minimum (6” typical) high and shall be closed.
- Step treads shall be 11” minimum deep X 50-3/16” minimum wide between handrails, 56” +/-2” between side rails.
- The walking surface of the step shall be without gaps and shall be composed of self-mating aluminum treads and riser closures with an extruded slip resistant surface.
- Total Rise: 60” +/-4”
- Width: 48” +/-2”
- Slope: 4.8⁰ +/-0.2 degrees

4. Includes Step Guard and Handrails on both sides.