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 5’ X 5’ Platforms

2. Engineering:
   - Platforms sections shall be designed to 2018 International Residential Code (IRC) with a minimum uniform live load of 40 pounds per square foot (PSF) and concentrated minimum vertical load of 300 pounds.

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:

   - Platform surface is to be continuous, that is no gaps greater than ¼”, and shall have an extruded slip resistant surface, knurled to make slip resistance bi-directional.
   - Platforms shall be constructed of interlocking 1.125" x 6" treads welded to side rails.
   - Platforms shall be designed for variable height adjustment.

5. Weight: 163.2 pounds without handrails
6. Weight Capacity: 1,000 pounds minimum.
7. Outer Dimensions: 65.5” X 131”
8. Width to Outside of Support Feet: 65.75” X 131.5”
9. Includes five 5’ Guards
10. Includes five 5’ X 1.5” X 2” Barriers/Curbs
11. Includes step closure for 5’ PF with 56” step
12. Upper Handrail Height: 34” to 38”
13. Lower Handrail Height: 24"
14. Handrail Diameter: 1” to 2”

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 60D5-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 200 pounds 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 50 pounds per linear foot applied horizontally at the required guard height and simultaneous load of at least 100 pounds 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:

- Handrails shall be provided along both sides of steps and around perimeter of platform. Gripping surfaces shall be continuous, without interruption by newel posts, other construction elements, or obstructions.
- The handrail shall be 1.5" 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.
- All platform guards shall include a 1.5" X 2" 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 100 pounds per square foot (psf) minimum and a concentrated vertical load of 300 pounds minimum over an area of four 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" 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"
- Width: 48"
- Slope: 4.8^{O}

4. Includes Step Guard and Handrails on both sides.