



## **SECTION 11 61 23 STAGING CONCEPTS TOUR STAGE**

### **PART 1-GENERAL**

#### **1.1 SUMMARY**

- A. This specification section includes the engineering, fabrication, furnishing, delivery and installation of a new Tour Stage as specified.
- B. The Tour Stage shall consist of a system of interlocking platforms of appropriate construction on a rolling support system to provide the height and configuration as indicated.

#### **1.2 SCOPE OF WORK**

- A. Work under this section consists of the fabrication of new equipment and installation of a new Tour Stage. Work shall include the installation of all materials and equipment necessary for the proper operation of the Tour Stage.
- B. Preparation and submission of complete engineered shop drawings for approval.
- C. Submission of required record documents.
- D. Coordination with other affected work, trades and inspections.
- E. Final assembly of components to provide a complete, operable system.

#### **1.3 RELATED SECTIONS**

- A. Section 05 51 00 Metal Stairs
- B. Section 05 52 00 Metal Railings

#### **1.4 SUBMITTALS**

- A. Comply with Section 01 33 00 Submittal Procedures, unless otherwise indicated.
- B. Product Data: Staging Concepts specifications and technical data including the following:
  - 1. Detailed specification of construction and fabrication.
  - 2. Staging Concepts installation instructions.
  - 3. Certified engineer's reports indicating compliance with performance requirements specified.
- B. Shop Drawings: Prepared by Staging Concepts. Include dimensioned plans, sections and elevations showing Tour Stage component sizes, arrangements and details of each condition of installation. Show fabrication and installation details.

## 1.5 WARRANTY

- A. Special Warranty: Staging Concepts written warranty indicating Staging Concepts intent to repair or replace the Tour Stage platform components that fail in materials or workmanship within three (3) years from the date of substantial completion. Paint and exterior surfaces are excluded. Failures are defined to include, but are not limited to the following:
1. Mechanical defects
  2. Damaged materials due to fabrication
  3. Material deterioration and discoloration other than normal wear and weathering conditions
  4. failure to maintain dimensional stability

## PART 2- PRODUCTS

### 2.1 MANUFACTURER

- A. Basis of design: Tour Stage based on the design by Staging Concepts.
1. Staging Concepts. 8400 Wyoming Ave. North, Suite 100, Minneapolis, MN 55445. Phone: 763-533-2094. [www.stagingconcepts.com](http://www.stagingconcepts.com)

### 2.2 MATERIALS

- A. Aluminum legs: Schedule 80 6061-T6
- B. Aluminum braces: Schedule 40 6061-T6
- C. Platform frame: 1-inch (25 millimeters), structural 1 (S1) marine grade plywood with .013-inch (.33 millimeter) aluminum backer.

### 2.3 STRUCTURAL REQUIREMENTS

- A. Tour Stage to comply with the following loading requirements:
1. Live Load: 100 psf (488.24 kg/sq. meter)
  2. Dead Load: 5 lbs/ft (72.95 N/m)
  3. Lateral Load: 200 lbf/ft (2918 N/m) each direction applied at the top of the platform stage.

### 2.4 TOUR STAGE UNDERSTRUCTURE

- A. General: Staging Concepts 2 ½ inch (64 millimeters) 6061-T6 aluminum leg. 1 ¼ inch (32 millimeters) 6061-T6 aluminum braces, two (2) per each leg. 6061-T6 aluminum bracing pin to secure bracing in plate. A36 steel collar and top plate assembly. 1 ½ inch (38 millimeters) dia. A193 or equivalent ACME threaded leveling rod and 8 inch (203 millimeters) Kingpin Phenolic caster for full mobility.
1. Integral self-locking, self-aligning spring mechanism to accept platform corner pocket with release lever.
  2. Bracing swivel pin connection rods
  3. Standard heights: 24", 36", 60" and 72" (609 millimeters, 914 millimeters, 1524 millimeters and 1829 millimeters), Custom heights available upon request.

## 2.5 TOUR STAGE PLATFORM

A. Single sided, indoor/outdoor, weather resistant, portable platform. Design platform to be fully field repairable and to function with Staging Concepts Tour Stage system and to comply with the following:

1. Edging: 6061-T6, post heat treated aluminum. Design frame to accept:
  - a. Built-in Roto Lock system
  - b. Latch receptacle to receive engaging latch
  - c. Skirting
  - d. Guardrail
  - e. Closure panels
  - f. Stairs
2. Subfloor: 1-inch (25 millimeters, structural 1 (S1) marine grade plywood with .013-inch (3 millimeters) aluminum backer.
  - a. Finished Surfaces: Polypropylene (polyvinyl); 1/8 inch (3 millimeters) tempered hardboard laminated to 3/4 inch (19 millimeters) plywood; bare wood surface; carpet.
3. Fasteners: A 307 steel lag bolts, thru bolts, eye bolts.

## 2.6 ACCESSORIES

A. Design accessories to attach without the use of tools and shall be easily removable.

1. Exposed Fasteners: Non-corrosive and tamper resistant.

B. Adjustable Stair Units:

1. Material: 6061-T6 aluminum angle.
2. Finish: Mill, anodized or powder coat.
3. Equip stair system with locking mechanism to allow for attachment to side of deck.
4. Treads: 12 inches (304 millimeters) deep by 36 inches (914 millimeters) wide, unless otherwise specified. Adjustable rises from 16 inches (406 millimeters) to 24 inches (609 millimeters), 24 inches (609 millimeters) to 36 inches (914 millimeters), 30 inches (762 millimeters) to 40 inches (1016 millimeters), 36 inches (914 millimeters) to 48 inches (1219 millimeters), 36 inches (914 millimeters) to 56 inches (1422 millimeters), and 48 inches (1219 millimeters) to 72 inches (1828 millimeters).
5. Tread Surface: Match deck surface

C. Guardrails:

1. Material: 1 1/4" inch (31 millimeters) Schedule 40 6105-T6 aluminum extrusion.
2. Finish: Mill, Anodized or Powder Coat finish.
3. Toeboard: 4 inch (101 millimeters) extruded aluminum toeboard where required by code.
4. Equip guardrail with locking mechanism to allow for attachment to deck. Design lock mechanism to allow for easy removal.
5. Provide manufacturer's standard guardrails.

D. Skirting:

1. Material: Flame retardant Wyndham fabric.
2. Thread Color: Match fabric.
3. Pleat skirts with 50 percent fullness.
4. Reinforce top hem with continuous webbing.
5. Attachment: Attach to platforms with velcro and clips.

E. Transport Cart:

1. leg and bracing cart

- a. Material: Tubular steel with welded joints.
- b. Casters: Provide 4 casters for each cart; 2 fixed and 2 swivel.
- c. Caster Sizes: 4 inch or 6 inch (102 millimeter or 152 millimeter) diameter, with a load capacity of 900 pounds (408kg) each.
- d. Provide pivoting ramp to lock into position with hitch pins.
- e. Provide pivoting cross members to lock in position with hitch pins.
- f. Provide straps to hold leg supports during transport.
- g. Design transport carts to contain intended load in a secure and organized manner.

2. platform cart

- a. Material: Tubular steel with welded joints. Grind weld joints smooth.
- b. Casters: Provide 4 casters for each cart; 2 fixed and 2 swivel.
- c. Caster Sizes: 4 inch or 6 inch (102 millimeter or 152 millimeter) diameter, with a load capacity of 900 pounds (408kg) each.
- d. Design transport carts to contain intended load in a secure and organized manner.

## 2.7 FINISHES

A. Aluminum Framing: Mill Finish.

B. Platform finish as determined by the architect or owner.

## PART 3- EXECUTION

### 3.1 TOUR STAGE INSTALLATION

A. Erect tour stage in location indicated in coordination with Owner's personnel to verify components are complete and operational.

### 3.2 CLEANING

A. Clean exposed surfaces of tour stage. Comply with Staging Concepts written instructions for cleaning and touchup of minor finish damage.

B. Repair or replace defective work as directed by the architect upon inspection.

### 3.3 TRAINING AND DEMONSTRATION

A. Train Owner's personnel to assemble, adjust, operate and maintain tour stage.

## END OF SECTION 11 61 23