



SECTION 05 77 00
STAGING CONCEPTS DRINK RAIL

PART 1-GENERAL

1.1 SUMMARY

- A. This specification section includes the engineering, fabrication, furnishing, delivery and installation of new Staging Concepts drink rail.
- B. The drink rail shall consist of an aluminum surface with a PVC end cap. The top surface drink rail is intended to be mounted onto Staging Concepts aluminum tube posts to make up one complete unit.

1.2 SCOPE OF WORK

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

1.3 REFERENCES

- A. Aluminum Association (AA):
 - 1. AA Standard AA-M12C22A41.
 - 2. AA Standard AA-M12C22A42/44.
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM B209: Standard Specification for Aluminum-Alloy Sheet and Plate.
- C. American Welding Society (AWS):
 - 1. AWS D1.1 Structural Welding Code-Steel.
 - 2. AWS D1.3 Structural Welding Code-Sheet Steel, Second Edition.
- D. Americans with Disabilities Act (ADA)

1.4 RELATED SECTIONS

A. Section 09 90 00 Painting and Coating

1.5 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. Description of operations, including step by step set-up and take-down tasks.

C. Shop Drawings: Prepared by Staging Concepts. Include dimensioned plans, sections and elevations showing drink rail component sizes, arrangements and details of each condition of installation.

1.6 QUALITY ASSURANCE

A. Manufacturer's Qualifications: Not less than 10 years experience in the actual production of guardrails.

B. Installer's Qualifications: Firm experienced in installation or application of systems similar in complexity to those required for this Project.

1. Acceptable to or licensed by manufacturer.
2. Not less than 3 years experience with systems.

C. Welding and Connections:

Welds: Performed by welders certified for the process employed.

1.7 DELIVERY, STORAGE AND HANDLING

A. Packing and Shipping: Deliver products in original unopened packaging as applicable, with legible manufacturer's identification.

B. Storage and Protection: Comply with manufacturer's recommendations.

1. Store in a cool, dry place out of direct sunlight.
2. Protect from the elements and from damage.

1.8 WARRANTY

A. Special Warranty: Staging Concepts written warranty indicating Staging Concepts intent to repair or replace drink rail components that fail in materials or workmanship within five (5) 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. Fracturing or breaking of unit components which results from normal wear and tear and normal use other than vandalism.
2. Delamination or other failures of glue bond of components.
3. Warping of components not resulting from leaks, flooding, or other uncontrolled moisture or humidity.

PART 2- PRODUCTS

2.1 MANUFACTURER

- A. Basis of design: aluminum plate drink rail based on the design by Staging Concepts.
1. Staging Concepts. 8400 Wyoming Ave. North, Suite 100, Minneapolis, MN 55445
763-533-2094. www.stagingconcepts.com

2.2 COMPONENTS

- A. Drink rail:
1. Material: 16 GA aluminum plate drinkrail surface.
1 inch (25 millimeters) thick cellular PVC end cap.
¼ inch (6 millimeters) aluminum post top plate
2 inch square (51 millimeters) Schedule 40 6105-T6 aluminum extrusion
 2. Finish: Mill, Anodized or Powder Coat finish.
 3. Foot rail: 2 inch square (51 millimeters) Schedule 40 6105-T6 aluminum extrusion.
 4. Equip guardrail with guardrail cup anchors or ½ inch (13 millimeters) aluminum base plate for attachment to platforms.

PART 3- EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.
1. Do not proceed until unsatisfactory conditions have been corrected.
 2. Field verify dimensions for all units prior to fabrication if indicated by the owner, architect or consultant.

3.2 INSTALLATION

- A. Comply with manufacturer's recommendations.
- B. Set up each type of removable, collapsible platform and adjust for proper operation and correct assembly.
1. Install plumb and level.
 2. Accurately fit, properly align, securely fasten, and install free from distortion or defects.

3.3 CLEANING

- A. Clean exposed surfaces of drink rail. Comply with Staging Concepts written instructions for cleaning and touchup of minor finish damage.
- B. Repair or replace defective work as directed by the owner, architect or consultant upon inspection.

3.4 TRAINING AND DEMONSTRATION

- A. Train Owner's personnel to assemble and maintain drink rail.

END OF SECTION 05 77 00