

DIVISION 12 00 00
SECTION 12 93 00
SECTION 12 93 43
SECTION 12 93 43.13

FURNISHINGS
SITE FURNISHINGS
SITE SEATING AND TABLES
SITE SEATING
TANGENT RAIL SEATING

Part 1 General

01. Summary

A. Section Includes:

1. Backed seats, Straight rail, extruded aluminum slats.
2. Backed seats, Straight rail, FSC® 100% Ipé hardwood slats. (FSC License Code: FSC-C004453)
3. Backed seats, Straight rail, Stainless Steel pan seats.
4. Backless seats, Straight rail, extruded aluminum slats.
5. Backless seats, Straight rail, FSC 100% Ipé hardwood slats.
6. Backless seats, Straight rail, Stainless Steel pan seats.

02. Submittals

A. Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.

B. Product data:

1. Manufacturer's standard product literature.
2. Shop drawings.
3. Installation instructions.
4. Maintenance instructions.

C. Submit powdercoat finish samples for approval.

03. Quality Assurance

A. Manufacturer Qualifications:

1. Minimum 15 years experience in the manufacture of site seating.
2. Provide reference list of at least ten major transportation authorities, municipalities, universities, or other high-use public environments currently using site seating fabricated by the manufacturer.

04. Delivery, Storage and Handling

- A. Handle products in accordance with manufacturer's instructions.
- B. Store products in manufacturer's original packaging until ready for installation.
- C. Protect products from impacts and abrasion during storage.

05. Warranty

A. Provide manufacturer's standard warranty.

1. Warranty terms: one year from date of invoice against defects in materials and workmanship.

Part 2 Products

01. Manufacturer

A. Basis-of-design product: provide rail seating based on the product named:

1. Tangent Rail Seating by Forms+Surfaces.

2. Manufacturer Contact:
Forms+Surfaces
30 Pine Street
Pittsburgh, PA 15223
phone: 800-451-0410
fax: 412-781-7840
email: sales@forms-surfaces.com
website: www.forms-surfaces.com

B. Rail Seating

1. Materials:

- a. Seat frames: die-cast aluminum.
- b. Intermediate armrests: die-cast aluminum. (Optional)
- c. Connection castings: die-cast aluminum.
- d. Leg Options:
 - 1) Cast aluminum "A" leg.
 - 2) Extruded aluminum and cast aluminum post leg.
- e. Rail: extruded aluminum.
- f. Rail end caps: die-cast aluminum.
- g. Legs: extruded aluminum.
- h. Seat Type:
 - 1) Backed.
 - 2) Backless.
- i. Seats (Choose one option below):
 - 1) Extruded aluminum slats.
 - 2) FSC 100% Ipé hardwood slats.
 - 3) Stainless steel seat pan.
- j. Fasteners: stainless steel.

2. Finishes

- a. Seat frames, intermediate armrests (Optional), connection castings, surface mount feet (Optional), rail, legs: polyester powdercoat (Select one option below):
 - 1) Standard Texture from Forms+Surfaces Powdercoat Chart.
 - 2) Premium Texture from Forms+Surfaces Powdercoat Chart.
 - 3) Custom RAL powdercoat color.
- b. Seats (Choose one option below):
 - 1) Extruded aluminum slats: polyester powdercoat (Select one option below):
 - 1. Standard Texture from Forms+Surfaces Powdercoat Chart.
 - 2. Premium Texture from Forms+Surfaces Powdercoat Chart.
 - 3. Custom RAL powdercoat color.
 - 2) FSC 100% Ipé hardwood slats: natural oiled finish.
 - 3) Stainless steel seat pan (Choose one finish below):

1. Polyester powdercoat (Select one option below):
 - a. Standard Texture from Forms+Surfaces Powdercoat Chart.
 - b. Premium Texture from Forms+Surfaces Powdercoat Chart.
 - c. Custom RAL powdercoat color.
2. Stainless steel finish (Choose one finish below):
 - a. Diamond, Stainless Steel.
 - b. Sandstone, Stainless Steel.
 - c. Satin, Stainless Steel.
3. Dimensions (Choose one option below):
 - a. One backed seat: 19.4" long x 20.2" deep x 32.1" high.
 - b. Two backed seats: 43.4" long x 20.2" deep x 32.1" high.
 - c. Three backed seats: 67.4" long x 20.2" deep x 32.1" high.
 - d. Four backed seats: 91.4" long x 20.2" deep x 32.1" high.
 - e. Five backed seats: 115.4" long x 20.2" deep x 32.1" high.

NOTE: Dimensions shown are for surface mounted models. 11 inches are added to the leg length for cast-in-place models for the portion to be embedded underground.
4. Mounting (Choose one option below):
 - a. Surface mount. Provide anchors and stainless steel mounting hardware.
 - b. Cast-in-place.
 - c. Freestanding.

Part 3 Execution

01. Examination

- A. Verify that substrates are stable and capable of supporting the weight of items covered under this section.
- B. Verify that substrates have been adequately prepared to securely anchor those items that will be surface mounted.

02. Installation

- A. Install according to the manufacturer's installation instructions.
- B. Install in conformance to applicable ADA guidelines and End User's established Accessibility policies.

END OF SECTION