**SECTION 13 34 16.04**

**PORTABLE EXTERIOR BLEACHERS**

**(FIVE SEATING ROWS)**

**PART 1 GENERAL**

1. SECTION INCLUDES:
	1. Design, fabrication, and installation of portable aluminum bleachers
2. REFERENCES
	1. AISC – Manual of Steel Construction
	2. AISI – Specification for Design of Code Rolled Steel Structural Members
	3. AA – Specifications for Aluminum Structures
	4. FFPC – Florida Fire Prevention Code NFPA 101 and 102
	5. FBC - Florida Building Code
3. SUBMITTALS
	1. Provide copy of manufacturer's descriptive product data.
	2. Shop drawings signed and sealed by a Florida registered professional engineer with details of components.
	3. Submit one 12" seat sample.
4. WARRANTY
	1. Provide manufacturer's warranty from defects in materials and workmanship for 1-year from the date of Substantial Completion.

**PART 2 PRODUCTS**

1. DESCRIPTION
	1. Rise and Depth Dimensions: Provide vertical rise and horizontal depth each row shall be 8" x 24" with the seat 17" above the tread.
	2. Framework: Prefabricated angle or aluminum tube frames joined and cross-braced.
	3. Seats: Nominal 2" x 10" anodized aluminum plank with protective end caps.
	4. Treads: Nominal 2" x 12" milled aluminum plank with protective end caps.
	5. Bleacher section, 15' long, normally 5-rows and have a seating capacity of 50 students.
	6. Aisle handrails maybe required when slope is greater than 1:8, handrails shall have 1½" diameter.
	7. Provide a chain link-fencing guardrail and riser system above row 4 to meet the requirements of FFPC - NFPA 101 and 102 and the Consumer Product Safety Commission.
	8. Provide temporary anchorage for the bleacher system to meet current wind loading requirements, signed and sealed by an Engineer registered in the State of Florida.
	9. Size the concrete slab for the bleacher support to accommodate wheelchair spaces.
		1. <50 people = 2 spaces, >50 people = 4 spaces.
2. MATERIALS AND FINISHES
	1. Aluminum: Fabricated with aluminum alloy 6061-T6 mill finish.
	2. Extruded Aluminum:
		1. Seat planks of aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class 11.
		2. Tread planks of alloy 6063-T6, mill finish.
	3. Accessories: End caps of alloy 6063-T6, clear anodized 204R1, AA‑M10C22A31, Class 11.
3. DESIGN LOADS
	1. Live Load: 100 psf gross horizontal projection.
	2. Lateral Sway Load: 24-plf seat plank.
	3. Perpendicular Sway Load: 10-plf seat plank.
	4. Wind Load: ASCE 7, Risk Category I, Exposure C
	5. Live Load of Seat and Tread Plank: 120-plf.

**PART 3 EXECUTION**

1. INSTALLATION
	1. In accordance with manufacturer's installation procedures and design criteria.
	2. On a smooth, hard, level surface.
	3. Anchored to resist wind loads at noted in Part 2-2.3-D., above.

END OF SECTION