# Bench Specifications

PH Style - Surface Mount Bench with Back

**SECTION 13125**

**SURFACE MOUNT BENCH WITH BACK**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

A. Design and fabrication of steel frame aluminum seat benches

**1.02 QUALITY ASSURANCE**

A. Distributor: BuiltRiteBleachers.com
5077 Northampton Drive, Fort Myers, FL 33919

B. Manufacturer Qualifications: Manufacturer must have a minimum of ten years experience in the design and manufacture of benches.

C. Welders must conform to AWS standards.

D. Source Quality Control: Mill Test Certification.

**1.03 WARRANTY**

A. Warranty shall guarantee benches to be free from defect in materials and workmanship for a period of 1 year under normal use. Warranty period shall begin on date of completion for projects installed by manufacturer, or its subcontractors, **OR** warranty period shall begin on date of final delivery on projects installed by others.

B. Anodized finish of plank extrusions shall be covered by a **5 year** warranty against loss of structural strength or finish deterioration due to exposure to weather conditions or UV rays. Discoloration of mill finish aluminum due to galvanic reaction not covered.

**PART 2 – PRODUCTS**

**2.01 ACCEPTABLE DISTRIBUTOR**

A. BuiltRiteBleachers.com

**2.02 DESIGN**

A. Design Loads:
1. Live Loads: Uniform loading - Structure = 100 psf
Uniform loading - Seat = 120 plf
2. Sway Loads: Perpendicular to seats = 10 plf
Parallel to seats = 24 plf

**2.03 STEEL FRAME BENCHES**

A. Quantity and Size: Shall consist of 1 unit(s) 15 long.

B. Framework: Prefabricated galvanized steel spaced at 6'-0" intervals consisting of 2 -3/8" O.D. schedule 40 pipe with seat and back supports of 1/4" x 3" hot-rolled steel bar (ASTM A-36). Imbedded end of bench legs are formed to help prevent leg from twisting in the concrete footer. No mechanical fastening of seat supports or legs supports shall be permitted.

C. Shop Connections: Welded to meet AWS standards.

D. Seats and Backs: Nominal 2” x 10” anodized aluminum with anodized end caps.

**2.04 MATERIALS / FINISHES**

A. Framework:
1. Galvanized Steel: Structural fabrication with ASTM A-36 steel galvanized finish. Each frame shall be unit-welded, using gas metal arc welding (GMAW) according to AWS specifications (D1.1). After fabrication all steel is hot dipped galvanized to ASTM A-123 specifications.

B. Extruded Aluminum:
1. Seat and back planks: Aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II with a wall thickness nominally .078" for impact and deformation resistance.

C. Accessories:
1. Channel End Caps: Aluminum alloy 6063-T6, clear anodized 204R1,AA-M10C22A31,Class II.
2. Hardware: Bolts and Nuts shall be hot dipped galvanized.
3. Hold Down Clip Assembly: Aluminum alloy 6063-T6 mill finish.

**PART 3 – EXECUTION**

**3.01 INSTALLATION**

A. Install bench unit(s) in accordance with manufacturer written instructions and shop drawings.

**Note: Building codes may vary from site to site. The customer is responsible for verification of local code requirements.**