

**SPECIFICATION for BIN-WALL TYPE 1  
w/ ALUMINIZED STEEL TYPE 2**

- Scope:** This specification covers the bin type retaining walls shown on the plans.
- Material:** The Aluminized Steel Type 2 and pre-galvanized materials shall conform to the applicable requirements of ASTM A 929. Stringer, Spacer, and Vertical Connector Splices shall be provided as aluminized material, while Vertical Connectors and Stringer Stiffeners as pre-galvanized material. Grade Plates shall conform to the applicable requirements of ASTM A 1011 with respect to base metal analysis and shall be hot-dip galvanized per ASTM A 123 except coating weight shall be 2 oz. per square foot total both sides. Fasteners are to be 5/8" diameter conforming to ASTM A 307. All fasteners are to be galvanized per ASTM A 153, Class C.
- Manufacture:** The metal bin-wall components shall be manufactured to provide overlapping bolted Stringers and Spacers. U-shaped Vertical Connectors shall allow for connection of the Stringers and Spacers at the corners. All components shall be in accordance with the details shown on the plans. The various members of the wall shall be constructed of metal of the gage shown on the plans, but not less than 16 gage. They shall be fabricated so that units of the same nominal size and thickness (gage) are fully interchangeable.
- Assembly:** Assembly shall be in conformance with the manufacturer's recommendations and the project plans and specifications.
- Bin Fill:** Bin fill material shall be well-graded, clean granular materials having a maximum particle size of 2 inches and having no more than 10% (by weight) passing the #100 sieve. Bin fill shall be placed in 8 inch thick maximum loose lifts and shall be compacted to 95% standard Proctor density. Compaction by saturation is not permitted.
- Back Fill:** Wall backfill material shall be placed in 8 inch thick maximum loose lifts and shall be compacted to a minimum 90% standard Proctor density. The material shall be free draining and shall be in accordance with the plans and specifications. Backfilling behind the bins should not lead the bin filling process. Soil slopes behind the wall shall be benched as necessary in order to allow for safe and efficient backfill placement and compaction.