

## Statement of Work Specification: IRA - WT Lab Aluminum Grating

### T6061 Integrated Aluminum Grating / Platform Cover with Non-Slip Epoxy Surface Coating

#### Introduction

This Statement of Work (SOW) details the scope and deliverables for the design, supply and delivery of a structural T6061 aluminum cover grating system with a solid aluminum cover and coated with non-slip epoxy.

#### 1. Project Overview

The project encompasses site measurements, fabrication drawings, fabrication, and delivery of grating panels with platforms constructed from structural T6061 aluminum. Each grating and platform will be topped with a welded solid aluminum cover and finished with a non-slip epoxy surface coating.

#### 2. Scope of Work

- Measure and determine sizing for grating panels to allow for a ¼” - ½” space on each side of the panel and the trench opening while being flush with the floor surface. This is required for variations in the trench opening width.
- Provide a quotation for estimated grating sizing covering an area of 41” x 92’ (41 inches x 92 linear feet) with a grating depth of 3” (3 inches). The grating is supported in one direction and has an unsupported span of 41” (41 inches).

Salient characteristics for grating system include:

- Fabrication and supply of grating panels with solid sheet metal covers constructed from structural T6061 T6 aluminum alloy
- Propose a design to span the 41” trench opening with grating panels to be 24” (24 inches) in length
- Design load 150 pounds live load per square foot with proposed structure approved and stamped by a professional engineer licensed in the State of Colorado
- All welding services shall be performed according to AWS standards D1.2 for structural aluminum
- Weight of each grating panel not to exceed 60 pounds
- Provide finger holes on each side of grating panel for lifting
- Integration of a solid aluminum cover plate welded atop each grating section
- Application of non-slip epoxy coating on the surface of each aluminum cover (plate portion only)
  - Dynamic coefficient of friction (DCOF) of 0.42 or a static coefficient of friction (SCOF) of 0.6 required for surface

- Epoxy coating shall be applied according to all manufacturer recommendations including primer, epoxy, flakes and top coating
- Epoxy primer applied to the grating surface
- Epoxy color shall be Armor Garage “Granite (C1410)” or equivalent, with black, blue and white traction chips and light flake coverage
- Military Grade Topcoat, Armor Garage or equivalent applied to epoxy coating:  
Chemically hardened for abrasion protection rating in one coating
- Delivery of all grating covers to site

Exclusions:

- Removal of existing steel grating
- Structural modifications to support grating
- Repairs to underlying surfaces

### 3. Acceptance Criteria

- Accepted fabrication drawings and notice to proceed to fabricate
- Grating panels and platforms are verified as structural T6061 aluminum with solid plate covers, epoxy coating and finger-holds
  - Non-slip epoxy surface coating passes slip-resistance tests on all grating and platform surfaces
- Grating panel delivery approved by Government