

SECTION 05515: LADDERS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Aluminum fixed vertical ladders.

1.2 RELATED SECTIONS

- A. Section 05120 - Structural Steel: Roof structure and opening support.
- B. Section 05550 - Metal Fabrications: Miscellaneous metal supports.
- C. Section 06100 - Rough Carpentry: Roof framing and opening support.
- D. Section 05120 - Structural Steel: Roof framing and support.
- E. Section 07400 - Membrane Roofing: Roof curb flashing.

1.3 REFERENCES

- A. ANSI A14.3: Ladders - Fixed - Safety Requirements.
- B. OSHA 1910.27: Fixed Ladders.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data : Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings for Ladders:
 - 1. Plan and section of ladder installation.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store products until installation inside under cover. If stored outside, under a tarp or suitable cover. Moisture can stain the aluminum under prolonged exposure.

1.6 WARRANTY

- A. Limited Warranty: Five years against defective material and workmanship, covering parts only, no labor or freight. Defective parts, if deemed so by the manufacturer, will be replaced at no charge, freight excluded, upon inspection at manufacturer's plant which warrants same.

PART 3 PRODUCTS

3.1 MANUFACTURER

- A. Acceptable Manufacturer: Ascend Fabrication LLC, which is located at 14637 Hwy 62 Garfield, AR 72732; Tel: 479-208-4608; Web: <https://www.ascendfab.com>

3.2 ALUMINUM FIXED VERTICAL LADDER

- A. Aluminum Fixed Vertical Ladder and Components: Ladder, cage, rest platforms, floor mounting brackets, security doors, walk-thru, and side rails.
1. Model: Model AAL - Aluminum Fixed Vertical Ladder as manufactured by Ascend Fabrication, LLC.
 2. Performance Standard: Units designed and manufactured to meet or exceed ANSI A14.3 and OSHA 1910.27.
- B. Components:
1. Ladder Stringer: AA C3 x .13 6005-T5 aluminum channel. Pitch: 90 degrees.
 2. Ladder Tread: 1.5 inch diameter round 6005-T5 aluminum custom extrusion with non-slip exterior surfacing – ASCEND Rung
 3. Ladder Mounting Bracket: Formed brackets of 3/8" 3003 series aluminum for 6" standoff. Consult ASCEND for other options.
 4. Safety Cage:
 - a. Hoops: 3 inch x 0.25 inch 3003 aluminum, formed
 - b. Vertical bars: 1.5 inch x 0.19 inch 3003 aluminum
 5. Platform:
 - a. Platform Size: see dimensional drawings
 - b. Grating: 1.25 inch swage lock grooved I-bar aluminum grating, welded to platform frame.
 - c.
 - d. Toe Boards: 4 inch x .25 inch 6061-T6 aluminum
 - e. Guardrail: 1.5 inch 6061-T6 aluminum round tube 42 inches high.
 6. Security Gate: Hinged gate mounted to lowest cage hoop with padlock provision.
 7. Finishes:
 - a. Standard: Mill finish on aluminum ladder components.
 - b. Optional Finishes
 1. Powder Coated
 2. Anodized

3.3 FABRICATION

- A. Ladder components to be fabricated for field assembly or as specified.

PART 4 EXECUTION

4.1 EXAMINATION

- A. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- B. Examine materials upon arrival at site. Notify the carrier and manufacturer of any damage.

4.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

4.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION