



M.A. INDUSTRIES, INC.

Quality Products through Creative Research

January 1, 2024

Manhole Step Certification

M.A. Industries, Inc. certifies that any quantities of the M.A. Industries, Inc. steel reinforced copolymer polypropylene manhole steps meet the following specifications:

- 1) ASTM C-478, section 16 Manhole Steps and Ladders (ASTM C 497 is Method of Test).
- 2) AASHTO No. M-199-811 portion for Manhole Steps (when properly installed)
- 3) ASTM D-4101 pp0344b33534z02 Copolymer Polypropylene.
- 4) ASTM A-615, A-955 (Stainless Steel Rebar), and A-706 Grade 60 ½” steel reinforced rod.
This letter further certifies that all steel used in all M.A. Industries’ manhole steps is 100% made in the United States of America.
- 5) OSHA Directive STD 01-01-009 of December 29, 1978 (manhole steps when properly installed).
- 6) OSHA 29 CFR Part 1910.24(b)(2) of January 2017. (manhole steps when properly installed).
- 7) OSHA requirement 1910.24(b)(2)(i-iii) & 1910.24(b)(2)(v); when properly installed.
- 8) Federal Specifications RR-F-621E paragraphs 3.8 and 6.2e for non-sparking steps.
- 9) New York DOT Standard 725-02, with the modification of up to ½” permanent deformation after the deflection test per ASTM C478 16.6.2.2.
- 10) Title 49 – Transportation Subtitle VII – Aviation Programs Part E - Miscellaneous
CHAPTER 501 - Buy-American Preferences Sec. 50101 - Buying goods produced in the United States

M.A. Industries, Inc. further certifies that all quantities of the M.A. Industries, Inc.’s steel reinforced copolymer polypropylene manhole steps withstand an 800-pound load and will exceed a 1,500-pound pullout test when installed properly.

Sincerely,

Tommy Harreld
Senior Sales Manager

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