

# MX8 Series, 6-1/4" Vinyl Hand Rail

## Suggested Specifications 10 26 00

---

### PART 1—GENERAL

#### 1.01 SUMMARY

A. Hand rail system for wall protection and decoration.

#### 1.02 SECTION INCLUDES

A. MX8 Series 6-1/4" Vinyl Hand Rail System

#### 1.03 REFERENCES

- A. American National Standard Institute (ANSI)
- B. American Society for Testing and Materials (ASTM)
- C. Society of Automotive Engineers (SAE)
- D. Underwriters Laboratory (UL)
- E. National Fire Protection Association (NFPA)

#### 1.04 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide hand rail systems that conform to the following requirements of regulatory agencies and the quality control of Marlite.
- 1. Fire Performance Characteristics: Provide materials with a Class A (NFPA 101 Life Safety) when tested in accordance with ASTM E84.
    - a. Flame Spread: 25 or less
    - b. Smoke Developed: 450 or lessClassification of HB, tested in accordance with ASTM D-635.
  - 2. Impact Strength: Provide Rigid vinyl profile materials that have an Izod impact strength ASTM D-256 method A notched, 23.8 ft-lbs/in average with no break. Charpy impact strength ASTM D-6110 notched, 26.1 ft-lbs/in average with no break.
  - 3. Chemical and Stain Resistance: Provide hand rails that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.
  - 4. Fungal and Bacterial Resistance: Provide rigid vinyl that does not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22.
  - 5. Color Consistency: Provide components matched in accordance with SAE J-1545—(Delta E) with a color difference no greater than 1.0 units using CIE Lab, CIE CMC, CIE Lch, Hunter Lab or similar color space scale systems.

#### 1.05 SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each type of hand rail specified.
- B. Detail Drawings: Mounting details with the appropriate fasteners for specific substrates.
- C. Samples: Verification samples of the hand rail, 8" (203mm) long, in full size profiles for each product indicated.
- D. Manufacturer's Installation Instruction: Printed installation instructions for each hand rail.

#### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in unopened factory packaging to the jobsite.
- B. Inspect materials at time of delivery to assure that specified products have been received.
- C. Store in original packaging in a climate controlled location away from direct sunlight.

#### 1.07 PROJECT CONDITIONS

- A. Environmental Requirements: Products must be installed in an interior climate controlled environment of 65 to 75° F.

#### 1.08 WARRANTY

- A. Standard Marlite limited warranty against material and manufacturing defects.

### PART 2 - PRODUCTS

#### 2.01 MANUFACTURER

A. On behalf of... Marlite, 1 Marlite Drive, Dover, OH 44622, Phone: 800-377-1221, Fax: 330-343-7296, www.marlite.com

B. Substitutions: Not permitted.

- C. Provide all hand rails and wall protection from a single source.
- D. All products are to be manufactured in the USA.

#### 2.02 MANUFACTURED UNITS

A. Hand Rail Profile

- 1. MX8 Series 6-1/4" (159mm) height, 1-1/2" (38mm) hand grip vinyl hand rail, 3/4" (19mm) colored accent strip, extending 3" (76mm) from the wall with aluminum retainer.
- 2. Standard Length: 12 foot.

#### 2.03 MATERIALS

- A. Vinyl: Snap on covers and accent of .080" (2mm) thickness shall be extruded from chemical and stain resistant polyvinyl chloride with the addition of impact, fungal, and bacterial modifiers. No plasticizers shall be added (plasticizers may aid in bacterial growth). A minimum of 50% post consumer recycled content is required.
- B. Snap on impact bumper of 070" (1.8mm) thickness shall be extruded from 100% recycled material.
- C. Aluminum: Continuous aluminum retainer of .080" (2mm) thickness shall be fabricated from 6063-T5 aluminum, with a mill finish.

#### 2.04 COMPONENTS

- A. End caps, inside corners, outside corners, stand offs, and brackets shall be made of molded thermoplastics.
- B. Fasteners shall be provided for standard drywall and steel stud applications.

#### 2.05 FINISHES

- A. Vinyl Covers: Colors of the hand rail to be selected by the architect from the Marlite color selection. Surface shall have a haircell texture.
- B. Molded Components: End caps, inside corners, outside corners, stand offs, and brackets shall be of a color matching the hand rail. Surface shall have a haircell texture unless otherwise specified by the manufacturer.

### PART 3 - EXECUTION

#### 3.01 EXAMINATION

A. Examine areas and conditions in which the hand rail systems will be installed.

- 1. Complete all finishing operations, including painting, before beginning installation of hand rail system.
- B. Wall surface shall be dry and free from dirt, dust, grease, and loose paint.

#### 3.02 PREPARATION

A. General: Prior to installation of the hand rail system, clean substrate to remove dust, debris, and loose particles.

#### 3.03 INSTALLATION

- A. General: Locate hand rail as indicated on the approved detail drawing for the appropriate substrate. Install hand rail level, plump, and at the height indicated on the appropriate drawing, with surfaces free from distortion or other defects in appearance.
- B. Install all hand rail systems in accordance and compliance with Marlite installation instructions.

#### 3.04 CLEANING

A. At completion of the installation, clean surfaces in accordance with the Marlite clean-up and maintenance instructions.