

## TCR-100 - Surface Mounted High Impact Crash Rail, 4" (100mm)

### PART 1—GENERAL

#### 1.01 SUMMARY

A. Wall guard system for wall protection and decoration.

#### 1.02 SECTION INCLUDES

A. TCR-100 Crash Rail System

#### 1.03 REFERENCES

A. American National Standard Institute (ANSI)

B. American Society for Testing and Materials (ASTM)

C. National Fire Protection Association (NFPA)

D. Society of Automotive Engineers (SAE)

E. Underwriters Laboratory (UL)

F. Uniform Building Code (UBC)

#### 1.04 SYSTEM DESCRIPTION

A. Performance Requirements: Provide wall guard systems that conform to the following requirements of regulatory agencies and the quality control of Tepromark Architectural Products, LLC.

1. Fire Performance Characteristics: Provide UL classified wall guards conforming with NFPA Class A fire rating. Surface burning characteristics, as determined by UL-723 (ASTM E-84), shall be flame spread of 15 and smoke development of 400.

2. Self Extinguishing: Provide wall guards with a CC1 Classification, as tested in accordance with the procedures specified in ASTM D-635-74, Standard Test Method of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position, as referenced in UBC 52-4-1988.

3. Impact Strength: Provide Rigid vinyl profile materials that have an Impact Strength value of 18 as tested in accordance with the procedures specified in ASTM D-256, Impact Resistance of Plastics.

4. Chemical and Stain Resistance: Provide wall guards that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.

5. 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.

6. 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 wall guard specified.

B. Detail Drawings: Mounting details with the appropriate fasteners for specific substrates.

C. Samples: Verification samples of the wall guard, 8" (203mm) long, in full size profiles for each product indicated.

D. Manufacturer's Installation Instruction: Printed installation instructions for each wall guard.

#### 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.

#### 1.08 WARRANTY

A. Standard Tepromark Architectural Products, LLC. 5 year warranty against material and manufacturing defects.

### PART 2 - PRODUCTS

#### 2.01 MANUFACTURER

A. Acceptable Manufacturer: Tepromark Architectural Products, LLC.  
249 5th Street SE, Osseo, MN, 55369, USA; Telephone 763-273-8484, Fax: 763-273-8485, [www.tepromark.com](http://www.tepromark.com)

B. Substitutions: Not permitted.

C. Provide all wall guards and wall protection from a single source.

D. All products are to be manufactured in the USA.

#### 2.02 MANUFACTURED UNITS

A. Wall Guard Profile

1. TCR-100 High Impact Crash Rail, 4" (100mm) height.

2. Standard Length: 12 foot. (3.6m)

#### 2.03 MATERIALS

A. Vinyl: Snap on cover of .080" (2mm) thickness shall be extruded from chemical and stain resistant polyvinyl chloride with the addition of impact modifiers. No plasticizers shall be added (plasticizers may aid in bacterial growth).

B. 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, 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 wall guard to be selected by the architect from the Tepromark Architectural Products, LLC. color selection.

Surface shall have a pebblette texture.

B. Molded Components: End caps, inside corners, outside corners, and brackets shall be of a color matching the wall guards. Surface shall have a pebblette texture unless otherwise specified by the manufacturer.

### PART 3 - EXECUTION

#### 3.01 EXAMINATION

A. Examine areas and conditions in which the wall guard systems will be installed.

1. Complete all finishing operations, including painting, before beginning installation of wall guard 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 wall guard system, clean substrate to remove dust, debris, and loose particles.

#### 3.03 INSTALLATION

A. General: Locate wall guard as indicated on the approved detail drawing for the appropriate substrate. Install wall guard level, plump, and at the height indicated on the appropriate drawing, with surfaces free from distortion or other defects in appearance.

B. Install all wall guard systems in accordance and compliance with Tepromark Architectural Products, LLC. installation instructions.

#### 3.04 CLEANING

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