

Suggested Specification

SECTION 10 26 16

Wallguard.com 2181 - 4" High Stainless Steel Crash Rail

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. This section includes the following wall protection system:
  - 1. Bumper Guards
- B. Related Sections
  - 1. Section 10 26 13 - Corner Guards
  - 2. Section 10 26 23 - Protective Wall Covering
  - 3. Section 10 26 33 - Door and Frame Protection
  - 4. Section 09 22 00 - Supports for Plaster and Gypsum Board

**1.02 REFERENCES**

- A. Abbreviations and Acronyms
  - 1. American Society for Testing and Materials (ASTM)

**1.03 SUBMITTALS**

- A. General: Submit the following in accordance with Section 01 33 00 "Submittal Procedures".
- B. Product Data
  - 1. Data sheet illustrating product dimensions, options, and related components.
  - 2. Installation instructions.
- C. Samples for verification of design suitability, color, finish, accessory cap attachment and alignment.
  - 1. 12" (304) Single piece sample with mounting bracket and factory formed wall return.
- D. Test reports from a qualified independent laboratory showing results in compliance to requirements indicated

**1.04 QUALITY ASSURANCE**

- A. Manufacturer to have no less than 5 years experience in the production of wall protection products having successful in-service performance.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Storage: Store wall protection products in original packaging. Protect from weather, extreme temperatures, and moisture.
  - 1. Maintain temperature during storage between 40°- 100°F (4°- 38°C).
  - 2. Store materials flat to prevent twisting or sagging of cartons.
- B. Handling: Take adequate measure to prevent damage to materials.

**1.06 SITE CONDITIONS**

- A. Ambient Conditions: Do not install wall protection products until installation areas are enclosed and weatherproof. HVAC system must be operational and maintaining temperature at 65°-75°F (18°-24°C) for at least 72 hours prior to installation.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Wallguard.com [www.wallguard.com](http://www.wallguard.com); [sales@wallguard.com](mailto:sales@wallguard.com) PO Box 1109 Dover Plains, NY 12522

## **2.02 DESCRIPTION**

- A. Protector Series 2181, Surface mounted stainless steel crash rail system consisting of a continuous 1/4" (6.4) x 4" (102) Stainless steel rail, aluminum I-Beam brackets, and factory formed 3" (76) radius wall returns and corners. Rail is factory cut and formed to field dimensions. Countersunk holes are provided for bracket attachment with factory supplied stainless steel hardware. Standard I-Beam bracket provides 3" (76) standoff from wall. Other standoff dimensions are available.

## **2.03 MATERIALS**

- A. Rail: Type 304 stainless steel with #4 satin finish.
- B. I-Beam Brackets: Extruded aluminum, alloy 6061-T6 (ASTM B221).

## **2.04 FABRICATION**

- A. Shop Fabrication: Crash rail is cut, drilled, and formed according to field verified dimensions. Wall returns and corners shall be formed as an integral bend on adjacent rails.

## **2.05 FINISHES**

- A. Anodizing: I-Beam brackets shall be sulfuric acid bath, MIL-A-8625 type II, un-dyed, clear anodized. Anodizing to be performed after all cutting and machining operations are completed.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine walls for availability of backing to ensure secure attachment of wall protection products.
- B. Verify that HVAC is operating and installation area temperature has been maintained between 65°-75°F (18°-24°C) for at least 72 hours prior to installation.
- C. Verify application of wall finishes has been completed in accordance with project finish plan.

### **3.02 PREPARATION**

- A. Surface Preparation: Clean substrate to remove dust and debris.
- B. Rails are individually marked to correspond with factory layout and location drawings. Rail should be reviewed and organized by area before installation begins.

### **3.03 INSTALLATION**

- A. Acclimate materials to building conditions for at least 24 hours prior to installation.
- B. Install wall protection products in accordance with manufacturer's installation instructions.

### **3.04 PROTECTION**

- A. Protect installed material from damage by other trades. Use materials that will not mark, stain, or leave residue on the product.