

Suggested Specification  
SECTION 10 26 16  
Pawling Pro-Tek® Model BR-500S

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. This section includes the following wall protection system:
  - 1. Protective Corridor Handrails
- 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. National Fire Protection Association (NFPA)
  - 2. American Society for Testing and Materials (ASTM)
  - 3. Underwriters Laboratories (UL)
  - 4. American National Standards Institute (ANSI)

**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, and accessory attachment and alignment.
  - 1. 12" (304) Long sample with attached wall return and mounting bracket.
- 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.
- B. Color Control: Provide extruded and molded components that meet visual and colorimetric evaluation of color to a controlled standard.
  - 1. Colorimetric evaluation less than or equal to 1.0 CMC DE (Delta E) when measured under cool white fluorescent lighting.

**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. Avoid exposure of products to direct sunlight.

## **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. Pawling Corporation  
Architectural Products  
32 Nelson Hill Rd  
Wassaic, NY 12592  
Tel: 800-431-3456  
www.pawling.com

### **2.02 DESCRIPTION**

- A. Model BR-500S, 5 1/2" (140) Multifunction handrail/bumper guard system with a continuous aluminum retainer, flexible impact cushion, and snap-on plastic cover. Full length mounting system consists of an extruded aluminum bracket with machined plates at wall returns and corners to prevent pass-thru of objects behind handrail. System includes molded wall returns and corners. Select from manufacturer's standard or custom colors.

### **2.03 DESIGN AND PERFORMANCE CRITERIA**

- A. Flammability Characteristics: High impact vinyl components.
  - 1. Class A Interior wall finish (NFPA 101 Life Safety) when tested in accordance with ASTM E84.
    - a. Flame Spread: 25 or less
    - b. Smoke Developed: 450 or less
  - 2. Classification of HB when tested in accordance with ASTM D635.
- B. Stain Resistance: High impact vinyl components.
  - 1. Material to be tested for stain resistance to various chemical reagents in accordance with ASTM D543.
- C. Bacterial and Fungal Growth: High impact vinyl components.
  - 1. Material must not support bacteria or fungal growth when tested in accordance with ASTM G21 and ASTM G22.
- D. Impact Resistance: High impact vinyl components.
  - 1. Izod impact strength ASTM D256 method A notched, 23.8 ft-lbs/in average with no break.
  - 2. Charpy impact strength ASTM D6110 notched, 26.1 ft-lbs/in average with no break.

### **2.04 MATERIALS**

- A. Cover: Extruded high impact vinyl, nominal 0.080" (2) thickness, colored throughout.
- B. Aluminum Retainer: Extruded aluminum, alloy 6063-T6 as described in ASTM B221, nominal 0.080" (2) thickness.
- C. Wall Mounting System: Extruded aluminum, alloy 6063-T5. as described in ASTM B221, nominal 0.080" (2.03) thickness. Wall return and corner plates machined from 1/8" (3) aluminum plate.
- D. Molded Accessories: Injection molded thermoplastic.

- E. Impact Cushion: Extruded thermoplastic, 70 durometer Shore A.

### **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.

#### **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.