

**SECTION 10260
WALL GUARDS**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Aluminum and vinyl wall guard systems.
- B. Mounting hardware, accessories, and trim.

1.2 RELATED SECTIONS

- A. Section 10266 - Wall Guard Handrails: Handrails used in conjunction with wall guards.
- B. Section 10261 - Corner Guards.
- C. Section 10268 - High Impact Wall Covering.
- D. Section 09210 - Gypsum Plaster.
- E. Section 09260 - Gypsum Board Systems,

1.3 REFERENCES

- A. ANSI/CABO A117.1 - American National Standard for Buildings and Facilities - Providing Accessible and Usable Buildings and Facilities.
- B. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
- C. ASTM D 256 - Standard Test Methods for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.
- D. ASTM D 543 - Standard Test Methods for Resistance of Plastics to Chemical Reagents.
- E. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.
- F. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- G. CAN/ULC S102.2 - Standard Method of Test for Surface Burning Characteristics of Building Materials.
- H. SAE J-1545 - Recommended Practice; Society of Automotive Engineers.
- I. UL 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's complete and current product data for each product required, including complete installation requirements.
- C. Shop Drawings: Show locations of each item and installation details. Provide elevations of non-standard conditions.
- D. Selection Samples: Color charts consisting of actual product pieces, demonstrating full range of available colors, for initial color selection.
- E. Verification Samples: 12 inch (305 mm) long assemblies, including one end cap, in color specified.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Shall have no less than five years experience in the production and supply of specified products with a record of successful performance.
- B. Installer: Shall have no less than three years experience in the installation of specified products or of products having a similar level of complexity.
- C. Flammability: Provide wall protection products with established listing label indicating materials have been tested in accordance with ASTM E84 (CAN/ULC S102.2) and conform to NFPA 101 Life Safety guidelines for Class A materials.
 - 1. Flame Spread: 25 or less
 - 2. Smoke developed: 450 or less

**Product Specification
Pro•Tek® Wall Guard Systems**

**Pro•Tek®
Systems
Impact
Protection**

**Architectural
Building
Products
since 1945**

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- D. Accessibility and Safety: Products shall conform to ADA and ANSI accessibility, and NFPA Life safety guidelines.
- E. Impact strength: Test in accordance with the applicable sections of ASTM F 476.
- F. Color Control: Manufacturer shall control color to calibrated color standards. Color of all components shall be verified to these standards by visual and colorimetric means. A Delta E difference of 1.0 or less shall be maintained except where visual evaluation allows a greater range of numerical acceptability. Visual and spectrophotometer evaluation shall be performed under cool white fluorescent lighting.
- G. Single Source: To ensure compatibility of fit and function and to maintain color and finish texture consistency, all handrail system components shall be supplied by a single source.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Provide Pro-Tek Wall Guards as manufactured by Pawling Corporation, Architectural Products Division; 32 Nelson Hill Road, P.O. Box 200; Wassaic NY 12592; ASD. Tel. (800) 431-3456 (U.S. and Canada) or (845) 373-9300, Fax. (800) 377-4403 (U.S. and Canada) or (845) 373-7827, E-mail: sales@pawling.com. www.pawling.com.
- B. Substitutions: Not permitted.

2.2 MATERIALS

- A. Vinyl: Provide wall guard covers extruded or molded of fire retardant, high impact polyvinyl chloride (PVC) and an embossed matte finish.
 - 1. Minimum thickness: 0.080 inch.
 - 2. Vinyl Properties:
 - a. Vinyl cell classification in accordance with ASTM D 1784: 16354.
 - b. Specific gravity, tested in accordance with ASTM D 792: 1.33, minimum.
 - c. Tensile strength at yield, tested in accordance with ASTM D 638: 6500 psi, minimum.
 - d. Modulus of elasticity, tested in accordance with ASTM D 638: 400,000 psi.
 - e. Tensile impact energy, tested in accordance with ASTM D 1822: 75 ft lb/sq inch.
 - f. Flexural strength, tested in accordance with ASTM D 790: 12,500 psi.
 - g. Modulus of rupture, tested in accordance with ASTM D 790: 400,000 psi.
 - h. Izod impact strength, tested in accordance with ASTM D 256: 23.0 ft lb/inch of notch, minimum, 1/8 inch notch.
 - i. Izod impact strength, tested in accordance with ASTM D 256: 15.0 ft lb/inch of notch, minimum, 1/4 inch (6 mm) notch.
 - j. Hardness, Shore D, tested in accordance with ASTM D 2240: 79, minimum.
 - k. Hardness, Rockwell, tested in accordance with ASTM D 785: 108, minimum.
 - l. Deflection temperature at 264 psi, tested in accordance with ASTM D 648: 162 degrees F (72 degrees C).
 - m. Flammability, tested in accordance with ASTM D 635: Self-extinguishing.
 - n. Flammability, tested in accordance with UL 94: V-O.
 - 3. Extruded Vinyl Component Properties:
 - a. Surface burning characteristics, tested in accordance with ASTM E 84: Flame spread 5, smoke developed 180; maximum.
 - b. Surface burning characteristics, tested in accordance with CAN/ULC S102.2: Flame spread 10, smoke developed 250-330; maximum.
 - c. Izod impact strength, tested in accordance with ASTM D 256: 25.3 ft lb/inch of notch, average.
 - d. Charpy impact strength, tested in accordance with ASTM D 256: 26 ft lb/inch of notch, average.
 - e. Chemical and stain resistance, tested in accordance with ASTM D 543, 7 day immersion in standard reagents: Results available upon request.
 - f. Color match when tested in accordance with SAE J-1545: Accurate to within 1.0 or less Delta E by CIE LAB 10 degree standard observer color difference and equation.
 - g. Combustion toxicity: Registered in accordance with New York State Uniform Fire Prevention and Building Code.
- B. Aluminum for Wall Guard Retainers: Alloy 6063-T5, in accordance with ASTM B 221 or FS QQ-A-200; anodized finish complying with AAMA 611, Class II minimum.

2.3 WALL GUARDS

- A. CR-3: 3 inch (76mm) wide clear polycarbonate chair rail with 5/16 inch (8mm) projection from wall.
- B. CR-4: 4 inch (102mm) wide clear polycarbonate chair rail with 5/16 inch (8mm) projection from wall.
- C. CR-40: Vinyl chair rail 0.040 inch thick. Standard in 4 inch (102), 6 inch (152), and 8 inch (203) height. Color as selected from manufacturer's standards.
- D. CR-60: Vinyl chair rail 0.060 inch thick. Standard in 4" (102), 6" (152), and 8" (203) height. Color as selected from manufacturer's standards.
- E. CRA-100: 4 inch (102 mm) wide aluminum crash rail 1/4 inch (6 mm) thick with full radius edges, clear anodized satin finish, and aluminum mounting brackets with 2 inch (50mm) or 3 inch (76 mm) standoff from wall.
- F. CRS-100: 4 inch (102 mm) wide type 304 stainless steel crash rail 1/4 inch (6 mm) thick with chamfered edges, #4 satin finish, and aluminum mounting brackets with 2 inch (50mm) or 3 inch (76 mm) standoff from wall.
- G. CRS-200: 5-1/2 inch (140 mm) wide type 304 stainless steel crash rail formed from 16 gauge (1.5 mm) thick stainless steel sheet, #4 satin finish, mechanically fastened 1/8 inch (3 mm) thick stainless steel end caps, with stainless mounting brackets, 1-1/2 inch (38 mm) projection from wall.
- H. CRW-10: 5-1/2 inch (138 mm) wide oak, maple, cherry or ash hardwood crash rail with two 1/4 inch (6 mm) flexible PVC accent bumpers, and 3/4 inch (19 mm) projection from wall. Wood stain selected from manufacturer's standards.
- I. CRW-20: 5-1/2 inch (138 mm) wide oak, maple, cherry or ash hardwood crash rail with one 1-1/2 inch (38 mm) flexible PVC accent bumper, and 3/4 inch (19 mm) projection from wall. Wood stain selected from manufacturer's standards.
- J. CRW-30: 3-1/4 inch (83 mm) wide oak, maple, cherry or ash hardwood crash rail with one 1-1/2 inch (38 mm) flexible PVC accent bumper, and 1 inch (25 mm) projection from wall. Select stain color and flexible vinyl bumper color from Manufacturer's standards.
- K. CRW-40: 4 inch (102 mm) wide oak, maple, cherry or ash hardwood crash rail with one 1-1/2 inch (38 mm) flexible PVC accent bumper, and 13/16 inch (21 mm) projection from wall. Select stain color and flexible vinyl bumper color from Manufacturer's standards.
- L. CRW-50: 3-3/4 inch (95 mm) wide oak, maple, cherry or ash hardwood crash rail with one 2 inch (51 mm) rigid PVC accent bumper, and 13/16 inch (21 mm) projection from wall. Select stain color and flexible vinyl bumper color from Manufacturer's standards.
- M. CRW-60: 3-1/4 inch (83 mm) wide oak, maple, cherry or ash hardwood crash rail with one 1-1/2 inch (38 mm) flexible PVC accent bumper, and 3/4 inch (19 mm) projection from wall. Select stain color and flexible vinyl bumper color from Manufacturer's standards.
- N. EBR/EBT-30: 2 inch (51 mm) wide aluminum and vinyl wall guard system with half-round radius cover and 1-1/8 inch (29 mm) projection from wall. Color as selected from manufacturer's standards.
- O. EBRU-1: 1 inch (25 mm) wide vinyl wall guard with chamfered edge cover, vinyl retainer, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- P. EB-25: 1-1/8 inch (29 mm) wide aluminum and vinyl wall guard system with half-round radius cover and 1-1/16 inch (27 mm) projection from wall. Color as selected from manufacturer's standards.
- Q. WB-4: 6-1/4 inch (159 mm) wide oak or maple hardwood crash rail with 3/4 inch (19 mm) rounded oak or maple perimeter trim moldings framing a 3/4 inch (19 mm) x 4 inch (102 mm) aluminum and vinyl wall guard system. Wood stain and wall guard color selected from manufacturer's standards.
- R. WG-12: 12 inch (305 mm) wide aluminum and vinyl wall guard system with radius top and bottom, 5 horizontal accent grooves, and 2 inch (52 mm) projection from wall. Color as selected from manufacturer's standards.
- S. WG-22: 2 inch (52 mm) wide aluminum and vinyl wall guard system, 1 inch (25 mm) radius half-round, and 1-3/4 inch (44 mm) projection from wall. Color as selected from manufacturer's standards.

- T. WG-3: 3 inch (76 mm) wide aluminum and vinyl wall guard system with radius top, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- U. WGG-3: 3 inch (76 mm) wide aluminum and vinyl wall guard system with radius top, 3 horizontal accent grooves, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- V. WG-3EXT: 3 inch (76 mm) wide aluminum and vinyl wall guard system with radius top, 1/4 inch (6 mm) rubber mounting spacers, and 1-1/4 inch (32 mm) projection from wall. Color as selected from manufacturer's standards.
- W. WG-35: 3-1/2 inch (89 mm) wide aluminum and vinyl wall guard with contoured cover and 1-3/4 inch (44 mm) projection from wall. Color as selected from manufacturer's standards.
- X. WG-4: 4 inch (102 mm) wide aluminum and vinyl wall guard system with radius top, and 3/4 inch (19 mm) projection from wall. Color as selected from manufacturer's standards.
- Y. WGG-4: 4 inch (102 mm) wide aluminum and vinyl wall guard system with radius top, 4 horizontal accent grooves, and 3/4 inch (19 mm) projection from wall. Color as selected from manufacturer's standards.
- Z. WG-4EXT: 4 inch (102 mm) wide aluminum and vinyl wall guard system with radius top, 1/4 inch (6 mm) rubber mounting spacers, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- AA. WG-5: 5 inch (127 mm) wide aluminum and vinyl wall guard system with crescent-radius cover and optional contrasting vertical color accents, and 1-1/16 inch (27 mm) projection from wall. Color as selected from manufacturer's standards.
- BB. WG-5C: 5 inch (127 mm) wide vinyl wall guard system with crescent-radius cover and optional contrasting vertical color accents, injection molded retainer clips, and 1-1/16 inch (27 mm) projection from wall. Color as selected from manufacturer's standards.
- CC. WG-5CL: 5 inch (127 mm) wide vinyl wall guard system with crescent-radius cover and optional contrasting vertical color accents, injection molded retainer clips with continuous vinyl impact cushion, and 1-1/16 inch (27 mm) projection from wall. Color as selected from manufacturer's standards.
- DD. WG-5EXT: 5 inch (127 mm) wide aluminum and vinyl wall guard system with crescent-radius cover and optional contrasting vertical color accents, 1/4 inch (6 mm) rubber mounting spacers, and 1-5/16 inch (33 mm) projection from wall. Color as selected from manufacturer's standards.
- EE. WG-6: 6 inch (152 mm) wide aluminum and vinyl wall guard system with radius top and bottom, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- FF. WG-6C: 6 inch (152 mm) wide high vinyl wall guard system with radius top and bottom, injection molded retainer clips, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- GG. WG-6EXT: 6 inch (152 mm) wide aluminum and vinyl wall guard system with radius top and bottom, 1/4 inch (6 mm) rubber mounting spacers, and 1-1/4 inch (32 mm) projection from wall. Color as selected from manufacturer's standards.
- HH. WGG-6: 6 inch (152 mm) wide aluminum and vinyl wall guard system with radius top and bottom, 5 horizontal accent grooves, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- II. WGG-6C: 6 inch (152 mm) wide vinyl wall guard system with radius top and bottom, 5 horizontal accent grooves, injection molded retainer clips, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- JJ. WGX-6: 6 inch (152 mm) wide aluminum and vinyl wall guard system with radius top and bottom, 5 co-extruded contrasting color accent lines, and 1 inch (25 mm) projection from wall. Wall guard and accent colors as selected from manufacturer's standards.
- KK. WGX-6C: 6 inch (152 mm) wide vinyl wall guard system with radius top and bottom, 5 co-extruded contrasting color accent lines, injection molded retainer clips, and 1 inch (25 mm) projection from wall.

Wall guard and accent colors as selected from manufacturer's standards.

- LL. WG-7: 8 inch (204 mm) wide aluminum and vinyl wall guard system with crescent-radius cover and optional contrasting vertical color accents, and 1-3/8 inch (35 mm) projection from wall. Color as selected from manufacturer's standards.
- MM. WG-7CL: 8 inch (204 mm) wide vinyl wall guard system with crescent-radius cover and optional contrasting vertical color accents, injection molded retainer clips with continuous vinyl impact cushion, and 1-3/8 inch (35 mm) projection from wall. Color as selected from manufacturer's standards.
- NN. WG-7EXT: 8 inch (204 mm) wide aluminum and vinyl wall guard system with crescent-radius cover and optional contrasting vertical color accents, 1/4 inch (6 mm) rubber mounting spacers, and 1-5/8 inch (41 mm) projection from wall. Color as selected from manufacturer's standards.
- OO. WG-8: 7-3/4 inch (197 mm) wide aluminum and vinyl wall guard system with radius top and bottom and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- PP. WG-8C: 7-3/4 inch (197 mm) wide vinyl guard system with radius top and bottom, injection molded retainer clips, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- QQ. WG-8EXT: 7-3/4 inch (197 mm) wide aluminum and vinyl wall guard system with radius top and bottom, 1/4 inch (6 mm) rubber mounting spacers, and 1-1/4 inch (32 mm) projection from wall. Color as selected from manufacturer's standards.
- RR. WGG-8: 7 3/4 inch (197 mm) wide aluminum and vinyl wall guard system with radius top and bottom, 5 horizontal accent grooves, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.
- SS. WGG-8C: 7 3/4 inch (197 mm) wide vinyl wall guard system with radius top and bottom, 5 horizontal accent grooves, injection molded retainer clips, and 1 inch (25 mm) projection from wall. Color as selected from manufacturer's standards.

2.4 FINISHES

- A. Colors: Provide wall guards in colors and textures as follows:
 - 1. As selected from manufacturer's standard palette of colors and textures.
 - 2. As scheduled on the drawings.

2.5 ACCESSORIES

- A. Provide appropriate end caps, corners, and mounting brackets as required to properly finish wall guard system and to support it securely.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that wall surfaces are properly prepared and finished to receive installation of wall guards.

3.2 INSTALLATION

- A. Install wall guards in full compliance with manufacturer's installation instructions.
- B. Mount wall guards at heights indicated on project drawings.
- C. Allow materials to acclimate to building temperature (65°F to 75°F) for at least 24 hours prior to installation. Do not store materials in direct sunlight, exposed to the elements, or in extreme heat.

3.3 PROTECTION

- A. Protect wall guard material during storage and upon completion of installation from damage by other trades.

3.4 CLEANING

- A. Upon completion of installation, clean wall guard covers and accessories in accordance with manufacturer's cleaning and maintenance instructions.
- B. Clean areas of installation and packaging debris caused by installation.

END OF SECTION