

**SECTION 10 26 00
WALL AND DOOR PROTECTION**

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies wall guards (crash rails or bumper guards) and high impact wall covering.

1.2 RELATED WORK

- A. Color and texture of resilient material: Section 09 06 00, SCHEDULE FOR FINISHES.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings: Show design and installation details.
- C. Manufacturer's Literature and Data:
 - 1. High Impact Wall covering.
- D. Test Report: Showing that resilient material complies with specified fire and safety code requirements.

1.4 DELIVERY AND STORAGE

- A. Deliver materials to the site in original sealed packages or containers marked with the name and brand, or trademark of the manufacturer.
- B. Protect from damage from handling and construction operations before, during and after installation.
- C. Store in a dry environment of approximately 21° C (70 degrees F) for at least 48 hours prior to installation.

1.5 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. American Society for Testing and Materials (ASTM):
 - A167-99(R2009).....Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
 - B221-08.....Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
 - D256-06.....Impact Resistance of Plastics
 - D635-06.....Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position

E84-09.....Surface Burning Characteristics of Building
Materials

C. The National Association of Architectural Metal Manufacturers (NAAMM):
AMP 500-06.....Metal Finishes Manual

D. Society of American Automotive Engineers (SAE):
J 1545-05.....Instrumental Color Difference Measurement for
Exterior Finishes.

E. Underwriters Laboratories Inc. (UL):
Annual Issue.....Building Materials Directory

PART 2 - PRODUCTS

2.1 MATERIALS

A. Stainless Steel: ASTM A167, Type 302B.

B. Resilient Material:

1. Extruded and injection molded acrylic vinyl or extruded polyvinyl
chloride meeting following requirements:

a. Minimum impact resistance of 1197 ps (25 ft lbs per sq.ft) when
tested in accordance with ASTM D256 (Izod impact, ft.lbs. per
inch notch).

b. Class 1 fire rating when tested in accordance with ASTM E84,
having a maximum flame spread of 25 and a smoke developed rating
of 450 or less.

c. Rated self extinguishing when tested in accordance with ASTM
D635.

d. Material shall be labeled and tested by Underwriters Laboratories
or other approved independent testing laboratory.

e. Integral color with all colored components matched in accordance
with SAE J 1545 to within plus or minus 1.0 on the CIE-LCH
scales.

f. Same finish on exposed surfaces.

2.2 WALL GUARDS AND HANDRAILS

A. Resilient Wall Guards and Handrails:

1. Wall Guards (Crash Rails): Snap-on covers of resilient material,
minimum 2 mm (0.078-inch) thick, shall be free-floated on a
continuous, extruded aluminum retainer, minimum 1.8 mm (0.072-inch)
thick, mounted on color matched brackets extending rail 2-3/16" from
wall, and anchored to wall at maximum 760 mm (30 inches) on center.

2. Provide wall guards (crash rails) with combination handrail/bumper
guard configuration with quick lock mounting system.. End caps and

corners shall be field adjustable to assure close alignment with handrails and wall guards (crash rails). Screw or bolt closure caps to aluminum retainer.

3. Where wall guards extend over and past new access panels, the wall guards shall have provision for field disassembly at either side of the panel locations to allow panel access. Wall brackets shall be located to clear access panels.

2.3 HIGH IMPACT WALL COVERING

- A. Wall panels to be fabricated of .040" (1.02mm) thick vinyl/acrylic factory bonded to the face side of a 3/8" (9.53mm) thick particle board core with no added urea formaldehyde.
- B. The backside of the panel to be laminated with a moisture resistant sheet.
- C. Provide adhesive as recommended by the wall covering manufacturer.

2.4 FASTENERS AND ANCHORS

- A. Provide fasteners and anchors as required for each specific type of installation.
- B. Where type, size, spacing or method of fastening is not shown or specified, submit shop drawings showing proposed installation details.

2.5 FINISH

- A. Resilient Material: Embossed texture and color in accordance with SAE J 1545 and as specified in Section 09 06 00, SCHEDULE FOR FINISHES.

PART 3 - INSTALLATION

3.1 RESILIENT WALL GUARDS (CRASH RAIL)

- A. Secure guards to walls with brackets and fasteners in accordance with manufacturer's details and instructions.

3.2 HIGH IMPACT WALL COVERING

- A. Adhesive Mounting to be construction grade adhesive supplied by manufacturer. Vinyl/acrylic trims supplied to conceal field cut edges of panels, or panels can be supplied to field verified dimensions to avoid field cutting.

3.3 CLEANING AND INSTALLING TEMPORARY REMOVED ITEMS

- A. Remove adhesive from wallcovering as work proceeds.
- B. Remove adhesives where spilled, splashed or splattered on wallcoverings or adjacent surfaces in a manner not to damage surface from which it is removed.

- C. Immediately upon completion of installation, clean rails and accessories in accordance with manufacturer's recommended cleaning method.
- D. Remove surplus materials, rubbish and debris resulting from installation
- E. Reinstall previously removed electrical outlet and switch plates, mechanical diffusers, escutcheons, registers, surface hardware, fittings and fastenings.

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