

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

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies:
 - 1. Corner guards.
 - 2. Solid Surface-Material wall protection.
 - 3. Protective Wall Covering.
 - 4. Protector wall guard/bed locator

1.2 RELATED WORK

- A. Armor plates and kick plates not specified in this section: Section 08 71 00, DOOR HARDWARE.
- B. Color and texture of aluminum and solid-surface 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. Corner Guards.
 - 2. Solid Surface-Material wall protection.
 - 3. Protective wall covering.

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. National Fire Protection Association (NFPA):
80-10.....Standard for Fire Doors and Windows
- E. Society of American Automotive Engineers (SAE):
J 1545-05.....Instrumental Color Difference Measurement for
Exterior Finishes.
- F. Underwriters Laboratories Inc. (UL):
Annual Issue.....Building Materials Directory

PART 2 - PRODUCTS

2.1 MATERIALS

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

2.2 CORNER GUARDS [CG-1, CG-2]

- A. Stainless Steel Corner Guards: Fabricate of 1.6 mm (0.0625-inch) thick
stainless steel. Form guards of dimensions and to contour shown.

2.3 WALL PROTECTION PANELS [SSM-2]

- A. Solid Surface-material: Homogeneous solid sheets of filled plastic resin
complying with ANSI SS1.
1. Type: Provide Standard Type unless Special Purpose Type is
indicated.
 2. Fire-resistance:
 - a. Flame spread index is less than 25
 - a. Smoke development is less than 450
 3. Colors and Patterns: See Section 09 06 00, SCHEDULE FOR FINISHES.
 4. Adhesive: As recommended by the Manufacturer.
 5. Sealant: Mildew resistant silicone, as recommended by the
Manufacturer.

2.4 PROTECTIVE WALL COVERING [SSM-3]

- A. Composite: Two ply calendered rigid PVC film printed with a decorative
pattern and embossed, decorative film face is adhered to an impact
resistant backing.
1. Type: Provide Standard Type unless Special Purpose Type is
indicated.
 2. Thickness: 0.40-inches.

3. Fire-resistance:
 - b. Flame spread index is less than 25
 - a. Smoke development is less than 450
4. Trim: Manufacturer's standard.
5. Colors and Patterns: See Section 09 06 00, SCHEDULE FOR FINISHES.
5. Adhesive: As recommended by the Manufacturer.
8. Sealant: Mildew resistant silicone, as recommended by the Manufacturer.

2.5 PROTECTOR WALL GUARDS

- A. Vinyl: provide wall guard covers extruded or molded of fire retardant, high impact polyvinyl chloride (PVC) with tributyl tin stabilizer as an antimicrobial agent, and an embossed matte finish. Basis of Design by WallGuard.Com LLC.
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 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.

C. Colors and patterns:

1. Desert Sand (WallGuard.com)

2. As selected from manufacturer's standard palette of colors

2.6 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.

2.7 ADHESIVES

A. Use adhesives and sealants recommended by the wall and door protection manufacturer.

B. Adhesives and Sealants: VOC Content: Products shall comply with VOC content limits of authorities having jurisdiction and the following VOC limits when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

1. Multipurpose Construction Adhesives 70 g/l.

2. Sealant 250 g/l.

- C. Adhesives and sealants shall contain no carcinogen or reproductive toxicant components present at more than 1% of total mass of the product as defined in the California Office of Environmental Health Hazard Assessment's (OEHHA) list entitled "Chemicals Known to the State to Cause Cancer" or the Reproductive Toxicity, Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

2.8 METAL FINISH

- A. In accordance with NAAMM AMP 500 series.
B. Stainless Steel: NAAMM finish Number 4.

PART 3 - INSTALLATION

3.2 STAINLESS STEEL CORNER GUARDS

- A. Mount guards on external corners of interior walls, partitions and columns as shown.
B. Where corner guards are installed on gypsum board, clean surface and anchor guards with a neoprene solvent-type contact adhesive specifically manufactured for use on gypsum board construction. Remove excess adhesive from around edge of guard and allow to cure undisturbed for 24 hours.

3.3 WALL PROTECTION

- A. Surfaces to receive protection shall be clean, smooth and free of obstructions.
B. Install protection panels after frames are in place but preceding installation of doors in accordance with approved shop drawings and manufacturers specific instructions for a "seamless" application.
C. Apply with adhesive in controlled environment according to manufacturer's recommendations.
D. Seal joints and perimeter watertight.

3.4 PROTECTIVE WALL COVERING

- A. Surfaces to receive protection shall be clean, smooth and free of obstructions.
B. Install protection panels after frames are in place but preceding installation of doors in accordance with approved shop drawings and manufacturers specific instructions for a "seamless" application.
C. Apply with adhesive in controlled environment according to manufacturer's recommendations.
d. Install trim.
D. Seal joints and perimeter watertight.

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