

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

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies corner guards and wall protection.

1.2 RELATED WORK

- A. Wood and plastics not specified in this section: Section 06 20 00, FINISH CARPENTRY AND MILLWORK.
- B. Gypsum Wallboard not specified in this section: Section 09 29 00, GYPSUM BOARD.

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. Hand Rails.
- D. Test Report: Showing that resilient material complies with specified fire and safety code requirements.
- E. See Section 01 81 11, SUSTAINABLE DESIGN REQUIREMENTS for additional submittal requirements.

1.4 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Shop that employs skilled workers who custom fabricate products similar to those required for this project and whose products have a record of successful in-service performance.
- B. Fabricator/installer qualifications:
 - 1. Work of this section shall be by a certified fabricator/installer, certified in writing by the manufacturer.
- C. Applicable standards:
 - 1. Standards of the following, as referenced herein:
 - a. American National Standards Institute (ANSI)
 - b. American Society for Testing and Materials (ASTM)
 - c. National Electrical Manufacturers Association (NEMA)
- D. Pre-installation meeting
 - 1. Prior to the beginning of work, conduct a pre-job conference at the job site; to comply with requirements in Division 1.

1.5 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. Follow manufacturer's storing recommendations.

1.6 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(R2004).....Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
 - B221-06.....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
 - E84-07.....Surface Burning Characteristics of Building Materials
- C. The National Association of Architectural Metal Manufacturers (NAAMM):
 - AMP 500 Series.....Metal Finishes Manual
- D. National Fire Protection Association (NFPA):
 - 80-06.....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.

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- B. Aluminum Extruded: ASTM B221, Alloy 6063, Temper T5 or T6. Aluminum alloy used for colored anodizing coating shall be as required to produce specified color.

2.2 CORNER GUARDS

- A. Stainless Steel Corner Guards (**CG-1 & CG-2**): Fabricate of 1.6 mm (0.0625-inch) thick stainless steel. Form guards of dimensions and to contour shown. Standard dimensions are 3" x 3" angles at 80" tall. Verify actual measurements of guards by field measurement prior to fabrication.

2.3 WALL GUARDS AND HANDRAILS

- A. Stainless Steel Wall Guards (**HR-1**): Construct wall guard, including brackets, of minimum 4.75 mm (0.1875-inch) thick stainless steel to design shown.

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. In accordance with NAAMM AMP 500 series.
- B. Stainless Steel: NAAMM finish Number 4.
- C. Aluminum
 - 1. Exposed aluminum: AAC22A31 chemically etched medium matte, with clear anodic coating, Class II Architectural, 0.4 mil thick. AA-C22A32 chemically etched medium matte with integrally colored anodic coating, Class II Architectural 0.4 mil thick.
 - 2. Concealed aluminum: Mill finish as fabricated, uniform in color and free from surface blemishes.
- D. Resilient Material: Embossed texture and color in accordance with SAE J 1545.

2.6 FABRICATION

- A. Comply with requirements indicated for design, dimensions, details, finish, and member sizes, including wall thicknesses of components.
- B. Shop-assemble components to the greatest extent possible. Disassemble only as necessary for shipping and handling.
- C. Fabricate components with tight seams and joints with exposed edges rolled. Provide surfaces free of evidence of wrinkling, chipping, uneven

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coloration, dents, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

- D. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors for interconnection of members to other construction.

PART 3 - INSTALLATION

3.1 EXAMINATION

- A. Examine areas and conditions in which wall surface protection components and wall protection systems will be installed.
- B. Complete finishing operations, including painting, before beginning installation of wall surface protection system materials.
- C. Wall surfaces to receive impact-resistant wall covering materials shall be dry and free from dirt, grease, loose paint, and scale.
- D. Do not proceed with installations until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Properly prepare substrate and clean to remove dust, debris, and loose particles.

3.3 INSTALLATION

- 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. Provide continuous 16 gauge perforated, galvanized Z-shape steel anchors welded to back edges of corner guards and wired to metal stud expansion bolted to concrete or masonry with four 9.5 mm (3/8-inch) diameter bolts, spaced 400 mm (16 inches) on centers. Remove excess adhesive from around edge of guard and allow to cure undisturbed for 24 hours.
- C. Install wall surface protection units plumb, level, and true to line without distortions.
- D. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished work.
- E. Install aluminum retainers, mounting brackets, and other accessories in strict accordance with the manufacturer's instructions.
- F. Where splices occur in horizontal runs of over 20 feet (6 m), splice aluminum retainer and stainless steel cover at same locations along the run.

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3.4 STAINLESS STEEL CORNER GUARDS

A. Mount guards on external corners of interior walls, partitions and columns as shown.

1. GYPSUM BOARD:

- a. Surface must be clean and properly sealed.
- b. Anchor guards with a neoprene solvent-type contact adhesive specifically manufactured for use on gypsum board construction.
- b. Remove excess adhesive from around edges of guard and allow to cure undisturbed for 24 hours.
- c. Remove the protective plastic covering from the exposed surface of the corner guard.

2. QUARTZ SURFACE WALL CLADDING:

- a. Surface must be dry, clean and properly sealed.
- b. Install corner guards to surface securely using a heavy duty mastic construction adhesive in a zigzag pattern over the back of each wing of the corner guard. Position corner guard on surface and apply pressure until a tight fit is achieved.
- d. Remove excess adhesive from around edges of guard and allow to cure undisturbed for 24 hours.
- c. Remove the protective plastic covering from the exposed surface of the corner guard.

3.6 STAINLESS STEEL WALL GUARDS

Space brackets at not more than three feet on centers and anchor to the wall in accordance with manufacturer's installation instructions.

3.7 CLEANING

- A. Clean plastic covers and accessories using a standard non-ammonia based household cleaning agent.
- B. Clean metal components in accordance with the manufacturer's recommendations. Do not use acid solution, steel wool, or other harsh abrasives.
- C. Remove excess adhesive in manner recommended by manufacturer.

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