Pemko Manufacturing Company  
5535 Distribution Drive  
Memphis, TN 38141  
Phone: (800) 824-3018  
Fax: (800) 243-3656  
E-mail: pemkosales@pemko.com  
www.pemko.com

SECTION 08720  
WEATHERSTRIPPING & SEALS  
(PERIMETER GASKETING AND BRUSH WEATHERSTRIP)

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Perimeter Gasketing and Brush Weatherstrip.

Specifier Note: Revise paragraph below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the paragraph below. Add section numbers and titles per CSI MasterFormat and specifier's practice. In the absence of related sections, delete paragraph below.

B. Related Sections:
   1. Division 8 Section(s): Steel Doors, Wood Doors, Sound Control Doors, Aluminum Frame Storefront Doors.
   2. Division 10 Section(s): Compartments and Cubicles, Partitions.
   3. Division 13 Section(s): Special Facilities, Integrated Construction, Special Structures, Special Purpose Rooms.

Specifier Note: Article below may be omitted when specifying manufacturer’s proprietary products and recommended installation. Retain References Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard. It is a listing of all references used in this section.

1.02 REFERENCES

A. ASTM International:

B. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
   1. ANSI/BHMA A156.18: Materials and Finishes.

C. American National Standards Institute/Steel Door Institute (ANSI/SDI):
   1. ANSI A250.8/SDI-100 Recommended Specifications for Standard Steel Doors and Frames.

D. American National Standards Institute/Window and Door Manufacturers Association (ANSI/WDMA):

E. Underwriters Laboratories, Inc. (UL):
   1. UL 10B Fire Tests of Door Assemblies.
   2. UL 10C Fire Tests of Door Assemblies.
   3. UL 1784 Air Leakage Tests of Door Assemblies.
F. International Code Council (ICC):
   1. UBC 7-2 Fire Test of Door Assemblies (Positive Pressure).
G. British Standards (BS):
   1. BS 476 Fire Tests on Building Materials and Structures.
H. National Fire Protection Association (NFPA):
   1. NFPA 105 Recommended Practice for the Installation of Smoke-Control Door Assemblies.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties required to link components of a system together and to interface with other systems.

1.03 SYSTEM DESCRIPTION

A. Design Requirements: Provide perimeter gasketing and brush weatherstrip which have been manufactured, fabricated and installed to meet the following design criteria:
   1. Acoustical Performance (ASTM E90, ASTM E1408): [Specify required STC or other acoustical performance criteria].
   2. Provide performance obtained from test procedures [UL 10B] [UL 10C] [UBC 7-2] [BS 476].

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect’s and Contractor’s duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
B. Product Data: Submit manufacturer’s product data and installation instructions.
C. Shop Drawings: Provide drawings indicating required component locations, interface with adjacent materials, installation, anchorage, fastening and similar information.
D. Samples: Submit one each of manufacturer’s standard selection samples.
E. Quality Assurance/Control Submittals: Submit the following:
   1. Test Reports: Upon request, submit [Fire] [Sound] [And] [Durability] test reports from recognized testing laboratory.
   2. Certificates: Submit manufacturer’s certificate that products meet or exceed specified requirements.
F. Closeout Submittals: Submit the following:
   1. Warranty documents specified herein.

Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section and authority having jurisdiction. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].
   1. [Code agency name].
      a. [Report or approval number].
   C. Certifications: [Specify requirement for certifications].
D. Field Samples: [Specify requirement for field samples.]

E. Mock-Ups: [Specify requirements for mock-up.]
   1. Subject to acceptance by owner, mock-up may be retained as part of finish work.
   2. If mock-up is not retained, remove and properly dispose of mock-up.

Specifier Note: Retain paragraph below if preinstallation meeting is required.

F. Preinstallation Meetings: [Specify requirements for meeting.]

Specifier Note: Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING
   A. General: Comply with Division 1 Product Requirement Section.
   B. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
   C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.

1.07 WARRANTY
   A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
   B. Manufacturer’s Warranty: Submit, for Owner’s acceptance, manufacturer’s standard warranty document executed by authorized company official. Manufacturer’s warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

Specifier Note: Coordinate subparagraph below with manufacturer’s warranty requirements.

   1. Warranty Period: 3 years against defects in materials or workmanship, beginning with Date of Substantial Completion.

1.08 MAINTENANCE
   A. Extra Materials: Provide additional material for use by owner in building maintenance and repair. [Specify number of units or percentage.]

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as “or equal” or “or approved equal” or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining “or equal” products.

2.01 PERIMETER GASKETING AND BRUSH WEATHERSTRIP

Specifier Note: Paragraph below is an addition to CSI SectionFormat and a supplement to MANU-SPEC. Retain, edit or delete paragraph below to suit project requirements and specifier practice.

   A. Manufacturer: Pemko Manufacturing Company.
      1. Contact: PO Box 3780, 4226 Transport Street, Ventura, CA 93003; Telephone: (800) 283-9988, (805) 642-2600; Fax: (805) 642-4109; E-mail: pemkosales@pemko.com; website: www.pemko.com.
   B. Proprietary Products/Systems: Perimeter gasketing and brush weatherstrip, including the following:
      1. Perimeter Gasketing:
         b. Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Painted aluminum: {Specify color.}] [Painted gold aluminum] [Bright stainless steel (BA) {#4}] [Mill finish bronze (brass)] [Clear anodized aluminum] [Gold anodized aluminum] [Painted dark bronze aluminum] [Painted white aluminum].
1. Perimeter Gasketing - Heavy Duty Type:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Dark bronze anodized aluminum] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Seal: [Sponge neoprene] [Silicone] [Pemko Prene thermo-plastic elastomer] [Vinyl] [Felt].
   d. Fasteners: Stainless steel.
   e. Manufacturer Model Number: [Specify manufacturer model number.]

2. Perimeter Gasketing - Snap Cover Type:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Dark bronze anodized aluminum] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Seal: [Sponge neoprene] [Silicone] [Pemko Prene thermo-plastic elastomer] [Vinyl] [Nylon brush].
   d. Fasteners: Stainless steel.
   e. Manufacturer Model Number: [Specify manufacturer model number.]

3. Perimeter Gasketing - Other Special Type:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Dark bronze anodized aluminum] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Seal: [Sponge neoprene] [Silicone] [Pemko Prene thermo-plastic elastomer].
   d. Fasteners: Stainless steel.
   e. Manufacturer Model Number: [Specify manufacturer model number.]

4. Adjustable Perimeter Gasketing:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Dark bronze anodized aluminum] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Seal: [Sponge neoprene] [Silicone] [Pemko Prene thermo-plastic elastomer].
   d. Fasteners: Stainless steel.
   e. Manufacturer Model Number: [Specify manufacturer model number.]

5. 180 Degree Aluminum Retainer Brush Weatherstrip:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Dark bronze anodized aluminum] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
   d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
   e. Manufacturer Model Number: [Specify manufacturer model number.]

6. 180 Degree Concealed Fastener Retainer Brush Weatherstrip:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Dark bronze anodized aluminum] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
   d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
   e. Manufacturer Model Number: [Specify manufacturer model number.]

7. 180 Degree Concealed Fastener Retainer Brush Weatherstrip:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Dark bronze anodized aluminum] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
   d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
   e. Manufacturer Model Number: [Specify manufacturer model number.]
8. 45 Degree Aluminum Retainer Brush Weatherstrip:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Painted aluminum: (Specify color.)] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
   d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
   e. Manufacturer Model Number: [Specify manufacturer model number.]

9. 45 Degree Concealed Fastener Retainer Brush Weatherstrip:
   b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Painted aluminum: (Specify color.)] [Clear anodized aluminum] [Gold anodized aluminum].
   c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
   d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
   e. Manufacturer Model Number: [Specify manufacturer model number.]

10. Oak Retainer Brush Weatherstrip:
    a. Material: Stain grade milled oak.
    b. Finish: Unfinished stain grade oak.
    c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
    d. Manufacturer Model Number: [Specify manufacturer model number.]

11. Aluminum Retainer With Rain Drip:
    b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Painted aluminum: (Specify color.)] [Clear anodized aluminum] [Gold anodized aluminum].
    c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
    d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
    e. Manufacturer Model Number: [Specify manufacturer model number.]

12. 90 Degree Aluminum Retainer Brush Weatherstrip:
    b. Finish (ANSI/BHMA A156.18): [Mill finish aluminum] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Painted aluminum: (Specify color.)] [Clear anodized aluminum] [Gold anodized aluminum].
    c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
    d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
    e. Manufacturer Model Number: [Specify manufacturer model number.]

13. Mortise Retainer Brush Weatherstrip:
    c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
    d. Color: [Aluminum color, black and gray nylon] [Painted white, white color nylon].
    e. Manufacturer Model Number: [Specify manufacturer model number.]

14. 35 Degree Aluminum Retainer Brush Weatherstrip:
    c. Brush Construction: Densely compressed nylon filaments encased in galvanized retainer.
PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI SectionFormat and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier’s practice.

3.01 MANUFACTURER’S INSTRUCTIONS

A. Comply with the instructions and recommendations of the perimeter gasketing and brush weatherstrip manufacturer.

Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

3.02 EXAMINATION

A. Site Verification of Conditions:
   1. Verify that site conditions are acceptable for installation of perimeter gasketing and brush weatherstrip.
      a. Examine doors and frames for compliance with requirements for door and frame manufacturer’s installation tolerances, labeled fire door assembly construction, wall and floor construction and other conditions affecting performance.
   2. Do not proceed with installation of perimeter gasketing or brush weatherstrip until unacceptable conditions are corrected.

Specifier Note: Specify actions required to physically prepare the surface, area or site or to incorporate the primary products of the section.

3.03 PREPARATION

A. Wood Door Preparation:
   1. Comply with ANSI/WDMA I.S.1-A.
   2. Comply with door manufacturer’s positive pressure installation instructions.

B. Steel Door and Frame Preparation:
   1. Drill and tap doors and frames for hardware per manufacturer’s positive pressure installation instructions.
   2. Ensure doors and frames are properly sized, plumb and square.
   3. Comply with ANSI A250.8/SDI-100.

Specifier Note: Coordinate article below with manufacturer’s recommended installation requirements.

3.04 INSTALLATION

A. Mounting Location: Comply with the following requirements, unless otherwise indicated:
   1. Steel Doors and Frames:
      a. Comply with manufacturer's positive pressure installation instructions.
      b. Comply with ANSI A250.8/SDI-100.
      c. [Specify standard or specific requirements.]
   2. Wood Doors:
      a. Comply with manufacturer’s positive pressure installation instructions.
      b. Comply with ANSI/WDMA I.S.1-A.
      c. [Specify standard or specific requirements.]

B. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
C. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

Specifier Note: Specify the final actions required to prepare installed equipment or other completed work to properly function or perform.

3.05 ADJUSTING
A. Perform adjustments required to ensure that perimeter gasketing and brush weatherstrip function in compliance with manufacturer’s performance criteria prior to acceptance by Owner.

Specifier Note: Specify the final actions required to clean installed equipment or other completed work to properly function or perform. Coordinate article below with Division 1 Execution Requirements (Cleaning) Section.

3.06 CLEANING
A. Remove any protective films and clean components as necessary following manufacturer’s recommended procedures.

Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by the owner. Coordinate article below with Division 1 Execution Requirements Section.

3.07 PROTECTION
A. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION