



1. Product Name

Weatherstripping, Seals, Thresholds

2. Manufacturer

Hager Companies
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3. Product Description

BASIC USE

Thresholds and weatherstripping are available for many types of door applications, including air infiltration, light and sound transmission and positive pressure solutions for fire and smoke.

COMPOSITION & MATERIALS

All aluminum extrusions are of alloy 6063-T5. All bronze extrusions are of alloy CDA385 brass, specified as Architectural Bronze. Gasketing is available in a wide variety of materials, including vinyl, neoprene in a solid and sponge, and silicone.

Thresholds

Saddle and thermal barrier saddle thresholds, half saddle thresholds, floor plate assembly thresholds, panic and thermal barrier panic thresholds, interlocking thresholds, abrasive cast aluminum thresholds, abrasive cast aluminum nosings, bumper thresholds, carpet thresholds and residential thresholds are available in a variety of profiles and widths to suit a wide range of applications.

Thermal barrier thresholds are constructed with a high strength thermal barrier permanently bonded to the threshold. Thresholds are available with a sure-step non-slip abrasive coating. Cover plates for expansion joints, threshold anchors for concrete installations and a threshold cover plate assembly for saddle floor closers are also available. Consult manufacturer's illustrated catalog or website at www.hagerco.com.

Door Bottoms

Constructed of strong, high quality extruded 6063-T5 aluminum or extruded CDA385 brass, door bottoms are available in a variety of designs and profiles to suit a number of applications. Automatic door bottoms are activated by the door frame, which forces a gasket downward to provide a continuous seal along the bottom of the door. Hager provides a number of product options to suit a variety of applications. Consult manufacturer's illustrated catalog or website at www.hagerco.com.

Door Bottom Sweeps

A wide range of door bottom sweep designs and materials is available from Hager to suit any application. Consult manufacturer's illustrated catalog or website at www.hagerco.com.

Weatherstripping

Jamb weatherstripping is available in a wide range of configurations and designs to suit a number of applications or field conditions. Inserts of neoprene, brush nylon, pile and vinyl are combined with a variety of aluminum extrusions to create a diverse set of product options.

Spring bronze weatherstripping is constructed of high tempered 0.0009" (0.023 mm) gauge bronze. Interlocking weatherstripping is available in a number of configurations. Press-on weatherstripping for quick and easy installations is also available. Consult manufacturer's illustrated catalog or website at www.hagerco.com.

Fire and Smoke Seals

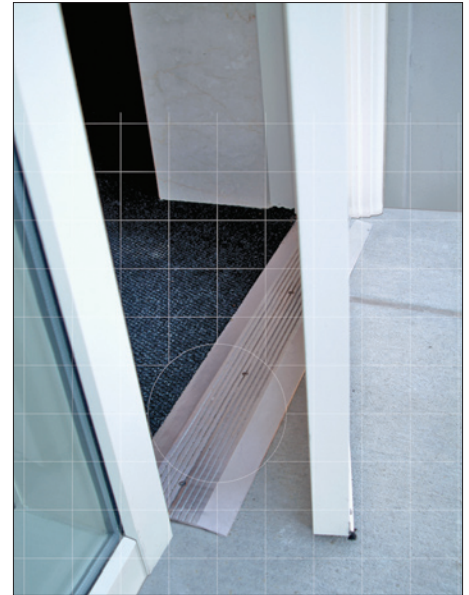
Press-on fire and smoke seals of intumescent materials in a variety of configurations are available to suit various applications. Press-on smoke seals are available in a range of materials and configurations. Consult manufacturer's illustrated catalog or website at www.hagerco.com.

Astragals and Meeting Stiles

A wide variety of aluminum extrusions with inserts of vinyl, neoprene, silicone or pile is available to suit a number of configurations. Consult manufacturer's illustrated catalog or website at www.hagerco.com.

Overhead Drip Guards

Overhead drip guards are available to suit a number of applications. Consult manufacturer's illustrated catalog or website at www.hagerco.com.



Commercial application of Hager thresholds and weatherstripping

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- ASTM E413 Classification for Rating Sound Insulation
- ASTM E2074 Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies

Builders Hardware Manufacturers Association (BHMA) - ANSI/BHMA A250.16-2002 Auxiliary Hardware

International Code Council/American National Standards Institute (ICC/ANSI) - ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities

Americans with Disabilities Act (ADA) - All products denoted by the ADA symbol are designed for applications where handicap accessibility is specified.

Underwriters Laboratories, Inc. (UL)

International Code Council (ICC) - ICBO UBC 7-2 Fire Tests of Door Assemblies

PRODUCT LABELING

All products containing non-metallic seals have been listed and labeled resulting from a determination by a certified fire laboratory that products are certified to meet the standards of UBC 7-2, Part I for fire. These products will either be labeled Category J, not contributing to the flaming during a fire, or Category G, for use with a fire door that requires an edge sealing system.

A number of gaskets offered will also meet the standards for UBC 7-2, Part II for smoke. These products will be labeled Category H for their ability to control smoke at an elevated temperature of 400 degrees F (204 degrees C).

Smoke seals are used on the frames of doors that have an "S" on their fire-rating label to complete the installation instructions and satisfy the code requirements for a smoke control door.

Gasketing materials for fire doors are classified by Underwriters Laboratories, Inc., and are intended for application to steel-covered composite and hollow metal type fire doors that are rated up to 3 hours and for wood-covered composite and wood core doors that are rated up to a half-hour. For installation on other rated doors, contact a local Hager sales representative.

TESTING

Hager products have been tested with air/smoke infiltration in compliance with ASTM test procedures to meet ASTM E283 and fire tested to meet ASTM E2074. Hager products have also been sound tested in compliance with ASTM test procedures to meet ASTM E90 and ASTM E413. Hager products have also been tested to meet the requirements for UL 10C, positive pressure, as well as UBC 7-2, Part I (fire), Category G or J, and Part II (smoke), Category H.

ENVIRONMENTAL CONSIDERATIONS

Hager uses environmentally friendly material in its packaging where available.

5. Installation

Installation instructions are available upon request or online at www.hagerco.com.

6. Availability & Cost

Hager provides a unique service for their worldwide distributors. The Materials Resource Planning and Distribution Resource Planning inventory system are 2 of the computerized programs utilized to keep distributors from

being over- or under-stocked. Ordering is handled by 4 computer linked, strategically located, worldwide distribution centers. Through www.hagerco.com, a distributor search option will locate distributors by region. Hager sales teams may also be located for national or international locations worldwide through a separate search option.

7. Warranty

Hager offers a 1 year warranty on all threshold and weatherstripping products and the associated warranty statements are available online at www.hagerco.com

8. Maintenance

Product maintenance and operation are specific to product types and are available online at www.hagerco.com.

9. Technical Services

In addition to contacting distributors or sales team members, contact Hager representatives online at www.hagerco.com or e-mail: webmaster@hagerco.com.

10. Filing Systems

- Reed First Source®
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.