

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. (Left Blank)

1.2 SUMMARY

A. This section includes the following:

1. Commercial door hardware for the following:

a. Swinging entry doors.

B. Related Sections include the following:

1. Division 08 Section "Hollow Metal Doors and Frames".

2. Division 08 Section "Wood Doors".

1.3 QUALITY ASSURANCE

A. Source Limitations: Obtain each type and variety of door hardware as specified unless otherwise indicated.

2.10 DOOR GASKETING

A. General: Provide continuous gasketing on exterior doors, provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

1. Perimeter Gasketing: Apply to head and jambs, forming a seal between door and frame.

2. Door Sweeps and Door Shoes: Apply to bottom of door, forming a seal with threshold when door is closed.

3. Door Corner Pads: Apply to door jambs at threshold,

B. Air Leakage: None at jambs and head. Not to exceed 0.50 cfm per foot of crack length for gasketing as tested according to AT SM E 283 at sweep.

C. Aluminum Seal Retainers and Replaceable Seal Inserts.

1. Provide only aluminum seal retainers that mechanically accept barbed, foam inserts for easy replacement.

a. Seal Retainers shall be 1 1/4" X 38", T 3 aluminum. Tolerance +/- .001¹. Seal Retainers shall be designed to not allow "oil-canning" during installation.

2. Provide only open-celled, passive, Replaceable Seal Foam Inserts with polyethylene liner and are readily available from stocks maintained by manufacturer.

a. Foam Inserts shall be 1 1/4" deep when in un-retracted shape.

b. Foam Inserts shall have a U/ L Fire Rating rated at 90 minutes.

c. Foam Inserts polyethylene liner shall contain chemical additives making them UL and paint resistant

d. Foam Inserts shall be CFC free.

e. Foam Inserts shall exceed 702

D. Corner Pads:

1. Provide only non-wicking open celled wedges with polyethylene liner. (Required.) Door Sweeps and Door Shoes:

E. Door Sweeps

1. Provide Type 6 nylon brushes that are locked in to a steel channel and retained in an aluminum extrusion.

F. TESTING

1. Water Infiltration: Passed water penetration tests at 25 mph (40 km/h) and 34 mph (55 km/h) ASTM E331 standard test method.

2. Water Absorption: No visible effects in degradation; water absorption negligible after being submerged in water 24 hours then frozen for 1 week. Compressed 50% upon removal from freezer.

3. Performance Testing: Tested in accordance with ASTM E 273 on "real life" test. Results reduced total cfm 17% on one door. Results will vary according to door condition.

G ADJUSTMENT

1. Adjust and check the operating system of the door to ensure proper function of hardware. Due to the passive nature of the Seal Inserts, hardware adjustment is not required if installed according to directions.

H. WARRANTY

1. Insert Seals are Lifetime Warranted to function, This warranty applies to function, not to wear.

I. AVAILABLE MANUFACTURERS

1. Storm Strips Corp., 224 Diamond Valley Pass, Canton, GA 30114

2. Green Seal USA, Inc., Marietta, GA,