

DHSI

Door and Hardware Systems, Inc.

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SECTION 08710 Short Spec with Typical Hardware Sets

GASKETING OF DOORS AND FRAMES (5-01-04)

1.04 QUALITY ASSURANCE:

- A. Manufacturer's Qualifications: To ensure and validate the proper closing, latching, sealing and securing of a door the manufacturer of gasketing shall provide a written program of Field Quality Assurance, acceptable to the architect that provides the site superintendent and installers with knowledge as to the industry acceptable standards for tolerances in manufacturing and field installation. The program shall create an audit trail of documentation for the inspection of pre-machined doors for machining and sizing, including hinge backset and depth of mortise, width and height. An "Installation Checklist" guideline shall also be furnished for verification of acceptability of related door, frame and hardware components prior to installing gasketing. These forms shall be part of the submittal process and shall be acknowledged by the site supervisor and returned to the manufacturer on a timely basis.

Evidence shall be provided that the STC specified and/or required by local code, as well as any requirements for smoke gasketing can be maintained under industry allowable tolerances for warp (AWI) and plumb (SDI). Evidence shall be provided that the gasketing system can meet this criteria and maintain this criteria under the Field Quality Assurance Standards. If a substitute to the listed manufacturer for gasketing is desired, proof of compliance with the specification and with specific products shall be submitted prior to bid.

Where a positive pressure label is required, it is the responsibility of the door manufacturer to provide a Category A label; or where a Category B label is furnished, the sealing system for either a Category G or H must meet the Performance Criteria contained in this specification.

PART 2 - PRODUCTS:

2.01 MANUFACTURERS:

- A. List of manufacturers represented in this section:
Door and Hardware Systems Inc. – www.dhsi-seal.com
13 Silver Street Rochester, New York 14611 TEL:585-235-8543
e-mail: info@dhsi-seal.com contact: Robert Rissone, President
1. Door Bottoms: Where door bottom seals are to be used, as listed in the hardware sets, provide DHSI #A-MDB3, #CS-36, #SSDB3 or #SAS "Secur-A-Seal" as selected and detailed. Where an undercut is desired at the guest entry between the bottom of the door and the flooring surface for HVAC design, provide the "AMU" option, "Allowance and Means for Undercut" and suffix the DHSI door bottom with "AMU". If a "Solid Wood Lock Edge" is desired on a mortise door bottom, suffix part # with "SWE".
 2. Meeting Stile Gasket: When an astragal is not permitted due to the operation of hardware or by code restrictions, provide a self-adhesive seal at the meeting stiles. Provide DHSI #SA surface astragal on pairs active. Provide DHSI #105 astragal when one door is active. Where a mortise astragal is listed provide a DHSI #A-MA adjustable mortise astragal as listed in the hardware sets.

3.03 FIELD QUALITY CONTROL

- A. Inspection:

1. Any light passing the frame perimeter shall be cause for rejection (as per UL 1784 smoke test procedure).
2. Door shall close from 70 degrees and latch freely without latch or hinge bind.
3. The closing speed for ADA shall not exceed 3 seconds to within 3 inches of the latch position. Lever torque shall not exceed ADA (taken from NFPA 101 Life Safety) of 15 inch pounds.
4. Filing of strike plates to relieve lock bind is unacceptable (as per NFPA 80 = no field modifications of fire tested components is allowable).
5. The "Industry Standards and Recommended Guidelines For Installation" shall govern field inspection.
6. Field inspection and acceptance of product will be based upon the criteria of "Nationally Referenced Standards."
7. If a problem with the sealing of doors and hardware occurs the contractor shall first contact DHSI. A DHSI consultant will attempt to determine the cause of the problem and determine to what extent it is a manufacturing error, such as door machining for hinge backset or depth of mortise, or an out of tolerance condition for plumb, or installation error. DHSI will recommend solutions.
8. To avoid self-adhesive failure, due to stretching during installation, self adhesive frame seals shall be inelastic and shall not be subject to stretching. Failure of a smoke seal voids the Listing of the opening.

3.06 SAMPLE HOTEL HARDWARE SCHEDULE:

- A. Hardware items listed in the hardware sets are listed in the catalogs of the following manufacturers:
- | | |
|----------------------|------------|
| Thresholds | DHSI (DHS) |
| Weather strip | DHSI (DHS) |
| Gasket | DHSI (DHS) |
| Security Door Guards | DHSI (DHS) |

NOTE: The products listed are a guideline for hotels. Request typical sets for hospitals and other commercial projects. Choices of door bottoms, colors and details selected from DHSI drawings will vary by job.

Sample Finish shown, Consult DHSI for options

HW-1 TYPICAL GUEST ROOM ENTRY

FINISH MFG

3 EA. HINGES			
1 EA. CLOSER			
SPRING HINGES OR CLOSERS AS REQUIRED			
1 EA. CARD LOCKSET	Section 08711		
1 EA. PRIVACY GUARD	#SAL	626	DHS
1 EA. DOOR VIEWERS			
1 EA. FLOOR STOP			
1 SET FRAME SEAL GASKET	#105	DB	DHS
1 EA. THRESHOLD	#FT-2.75	BLK	DHS
1 SET FRAME ALIGNMENT BRACKET	#FA/SB		DHS

the architect shall choose one of the following door bottoms and determine need for "AMU" suffix:

1 EA. DOOR BOTTOM	#AMDB3-2 X SWE X AMU		DHS
1 EA. DOOR SWEEP	#CS-36X AMU	DB	DHS
1 EA. DOOR SWEEP	#SSDB-36 X AMU	OW	DHS
1 EA. DOOR SWEEP	#SAS-36 X AMU	OW	DHS

NOTE: Provide 2 door viewers on H/C guest rooms.

SEE SUBMITTAL DETAIL SHEET FOR SWE AND AMU OPTIONS

AS AN EXAMPLE, WE HAVE INCLUDED THEM IN THIS TYPICAL SET

HW-2 TYPICAL CONNECTING ROOM DOORS

- 6 EA. HINGES
- 2 EA. DEADLOCK
- 2 EA. CONNECTING ROOM LATCHSET
- 2 EA. WALL STOP

2 EA. PRIVACY GUARD	#SAL	626	DHS
2 SET FRAME SEAL GASKET	#105	OW	DHS
2 SET DUST PLUGS	#DP .250		DHS

the architect shall choose one of the following door bottoms:

2 EA. DOOR BOTTOM	#AMDB3-3		DHS
2 EA. DOOR SWEEP	#CS-36	DB	DHS
2 EA. DOOR SWEEP	#SSDB-36	OW	DHS
2 EA. DOOR SWEEP	#SAS-36	OW	DHS

NOTE: If a full granite threshold is not supplied, flooring installer shall install double padding under the entire connecting room opening to provide a carpet threshold OR Provide one or two DHSI FT 2.75 thresholds as may be required by local fire code – see DHSI Connecting Details

HW-3 TYPICAL EXTERIOR

3 EA. HINGES			
1 EA. DEADBOLT EXIT DEVICE			
1 EA. RIM CYLINDER			
1 EA. MORTISE CYLINDER			
1 EA. DOOR PULL			
1 EA. CLOSER/STOP			
1 SET WEATHERSTRIP	#105	DB	DHS
1 SET DUST PLUGS	#DP .250		DHS

the architect shall choose one of the following door bottoms and thresholds:

1 EA. 1/4" RISE THRESHOLD REQUIRED WITH CS SWEEP			
1 EA. 1/2" RISE THRESHOLD OPTIONAL WITH SSDB SWEEP OR AMDB X CC			
1 EA. DOOR BOTTOM	#AMDB3-3 X AMDB3-CC		DHS
1 EA. DOOR SWEEP	#CS-36	DB	DHS
1 EA. DOOR SWEEP	#SSDB-36	DB	DHS

NOTE: With pairs active, use #SA Surface Astragal
With pairs inactive, use #105 on typical 'Z' Astragal by HM mfg.

HW-5 TYPICAL MEETING ROOM PAIR

6 EA. HINGES			
1 EA. FIRE EXIT HDWE.-CVR			
1 EA. PERMANENT CORE			
1 EA. FIRE EXIT HDWE.-CVR			
2 EA. CLOSERS			
2 EA. KICK PLATES			
2 EA. WALL STOPS			
1 SET FRAME SEAL GASKET	#105	DB	DHS
1 SET DUST PLUGS	#DP .250		DHS

the architect shall choose one of the following astragals for pairs active

use "CNS" on inactive leafs

1 EA. MTG STILE SEAL	#SA	DB	DHS
1 EA. MTG STILE SEAL	#A-MA3-2 for non-rated		DHS

the architect shall choose one of the following door bottoms:

2 EA. DOOR BOTTOM	#AMDB3-3		DHS
2 EA. DOOR SWEEP	#CS-36	DB	DHS
2 EA. DOOR SWEEP	#SSDB-36	OW	DHS

HW-6 TYPICAL U/L STAIRWELL SINGLE

3 EA. HINGES			
1 EA. FIRE EXIT HDWE.-RIM			
1 EA. CLOSER			
1 EA. FLOOR STOP			
1 SET FRAME SEAL GASKET	#105	DB	DHS
1 EA. THRESHOLD	#HS 2.75	BLK	DHS
1 SET DUST PLUGS	#DP .250		DHS

the architect shall choose one of the following door bottoms:

1 EA. DOOR BOTTOM	#AMDB3-3		DHS
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1 EA. DOOR SWEEP	#CS-36	DB	DHS
1 EA. DOOR SWEEP	#SSDB-36	DB	DHS

HW-7 TYPICAL U/L LAUNDRY JANITOR

3 EA. HINGES – Swing Clear			
1 EA. STOREROOM LOCKSET			
1 EA. CLOSER			
1 EA. WALL STOP			
1 SET FRAME SEAL GASKET	#105	DB	DHSI

the architect shall choose one of the following door bottoms and thresholds:

1 EA. DOOR BOTTOM	#AMDB3-3		DHS
1 EA. DOOR SWEEP	#CS-36	DB	DHS
1 EA. DOOR SWEEP	#SSDB-36	DB	DHS
1 EA. TRANSITION STRIP	#HS 2.75 if carpet to concrete or VTC		DHS

GC to coordinate appropriate flooring transition strip if by flooring supplier.

Most codes are now requiring gasketing on all fire doors and all corridor doors.
CONTACT DHSI FOR A FULL LIST OF TYPICAL OPENINGS AND DETAILS

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