

DHSI SEALING SYSTEMS

The "Gold Standard" for product design and field performance

THE INDUSTRY
★ **INNOVATOR**
★ **ORIGINATOR**

Eliminate owner expense by requiring:

- Product warranties against replacement costs
- Maintenance warranties against field labor adjustments

PLUS

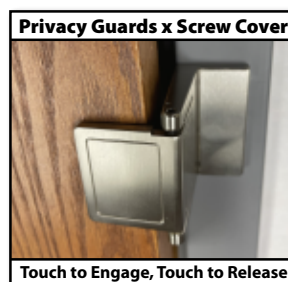
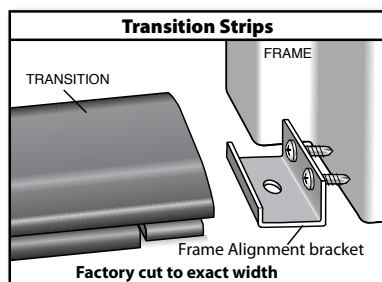
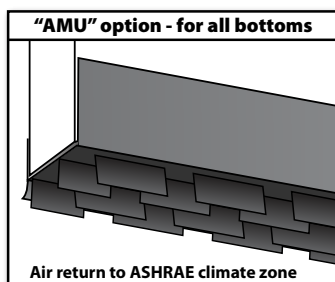
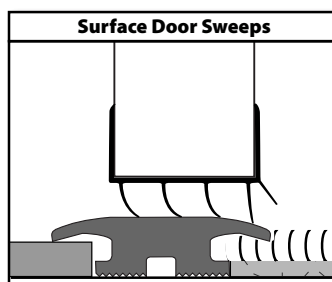
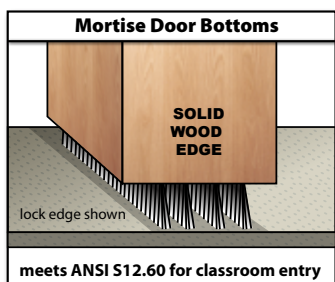
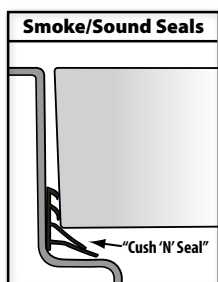
Achieve occupant safety and comfort by:

- Establishing MPS warranted STC field performance sealing systems:
ANSI S12.60 for schools, Hotel Entry & Connecting
- Providing field operating warranties that component frame seals and door bottoms satisfy code compliance for Life Safety 101 for closing/latching and non-interference, NFPA 80 for inspection (no light)



Sealing Systems:
90 minute Positive
Pressure Rated

meets UL 1784 & UL10C



For use on: Schools, Hotels, Hospitals, Psychiatric, Apartments, Nursing Homes, Offices, Prisons

Projects with field performance warranties based upon DHSI Auto-CAD architectural drawings:

- Rebuild of the Pentagon (9-11) for smoke, fire & sound assemblies, both HM & wood doors
- Hilton Worldwide and other Franchisers
- Villanova University Center for Engineering Education and Research and other universities
- American Red Cross centers across the USA
- Montgomery County MD all grades of public schools

CAT-01 3-19-24 copyright

Product Brochure LINK: to PRINT and navigate between the 17 pages: <https://dhsi-seal.com/brochure.htm>

A guide for Owners, Architects, GC, CM, Property Managers, Field Engineering for coordinating product selection and field performance

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The three pillars of Product and Performance Standards

You need all three Pillars to achieve a Gold Standard Status of Acceptance

Pillar ONE:

Pages 3 through 15

Products:

- Non-Proprietary criteria
- Test to allowable industry tolerances
- Product performance warranties
- Field Performance warranties

Pillar TWO:

Page 16

Architectural Details:

- Provided by the manufacturer to verify frame seals, door bottoms and flooring sizing/profiles for undercuts and machining

Pillar THREE:

Page 17

Marketing Specifications Hardware Sets

Architects, Consultants, General Contractors, Facilities and Field Engineering:

All decisions on choosing products should be based upon the same criteria:



Eliminate owner expense



Achieve occupant safety and comfort

As you navigate pages 3 through 15 look to the top:
Does each product considered satisfy the required criteria?

Frame Seals and Door Bottoms shall be provided, tested and warranted by the same manufacturer.

Architectural Specifications and Property Standards shall require :

1. MANUFACTURER QUALIFICATIONS:

Provide evidence from a Nationally Accredited Testing Lab that they have tested all products to Industry allowable tolerances as a field operating system 1/4" warp and 1/16" out of plumb, and did not exceed the Life Safety limit of 15 inch pounds on the lever of a mortise lockset with a deadbolt.

2. MANUFACTURER EXTENDED PRODUCT WARRANTIES:

As established in each Product category, including frame seals, door bottoms, applicable flooring transitions and hardware as included for specific products in Property Standards and developed accordingly in Architectural Specifications for applicable Hardware Sets.

3. MANUFACTURER FIELD PERFORMANCE WARRANTIES:

Shall be initiated by using only DHSI Architectural Details in submittals and approved only by the Architect, CM or Owner, GC, or property Engineering. Manufacturer shall further provide a "Program of Field Quality Assurance" that includes Illustrated inspection procedures for tolerances and sizing. That "Program" shall be as approved by the Property Standards and Architect's Specifications.

#105 "CUSH 'N' SEAL"®

Four-Fin self-adhesive
Sound and Smoke/Fire Seal

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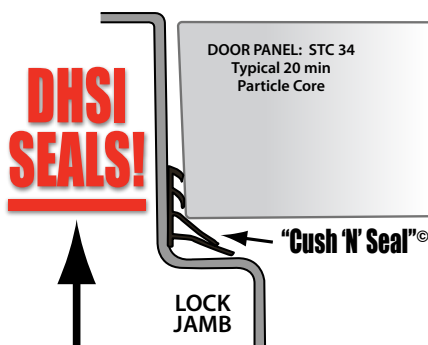
Eliminate owner expense - material and maintenance:

- Adhesive warranted against failure for 12 years
- Warranted not to interfere with self-close and self-latch

Occupant comfort and safety:

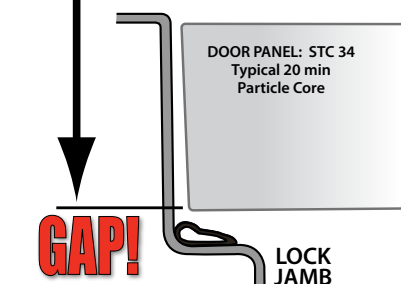
- Warranties ensure sound control is maintained
- Ensures no light, sound and smoke around all 4 sides

"Cush 'N' Seal"® by DHSI
Operating STC 32



**TESTED IN THE
SAME OPENING:**

"Teardrop" by others
Operating STC 24



Teardrop does not work
when tested to 1/4" warp and 1/16" out of plumb.

Highest Field Operable STC Ratings

"Cush 'N' Seal"® Frame Seals

- **#105** Standard 4-fin seal:
Can work with 1/2 the recommended tolerances with no binding. Highest STC results.
- **#105-3HJ** Three-fin option at hinge jamb.
The only seal that does not create bind on full-mortise continuous hinges.
- **#105-3PS "Perimeter Seal"**
3-fin all sides - pairs with continuous hinges
- **#SA-75**
2-fin - consult DHSI engineering applications



#105 "Cush 'N' Seal"
Standard Profile

#105-3HJ
Custom Profile
at Hinge



#105-3PS
Custom Profile
on all



Highest STC
Field Verified

Meets NFPA 101 Life Safety Inspection and NFPA 80 field code inspection criteria.

Why DHSI "Sealing Systems" Work in the Field:

- Designed and test verified; torque on lever will not increase even with industry allowable standards.: 1/4" warp, 1/16" out of plumb, and torque on the lever under 15 inch/pounds.

- ★ **Warranted:** Inspection code: Shall not allow light (= smoke and sound) to pass the perimeter
- ★ **Warranted:** Fire code: gasketing shall not interfere with closing and latching
- ★ **Warranted:** 12 year adhesive warranty eliminates product replacement
- ★ **Warranted:** Lifetime antimicrobial 99.9% efficacy life of installation

Architects and Field Engineering: see pages 15 and 16 for DHSI exclusive support of the 3 Pillars with:

- Illustrated Inspection Programs for Field Quality Control
- Non-proprietary specifications
- AutoCAD Architectural drawings

Part #: "Cush 'N' Seal"® Available in sets of 3, 4, 7 and 8 foot lengths

#105 x opening size (3'-0 x 7'-0, 6'-0 x 8'-0, etc) - with 4 fins on all sides

#105 x 3HJ x opening size - with 3 fins for hinge jamb

#105 x 3PS x opening size - with 3 fins on all sides



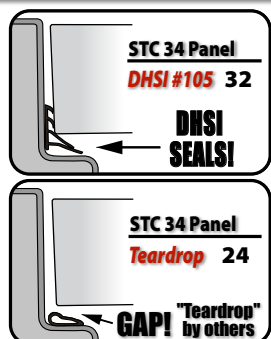
Color Choices: Off-White, Dark Brown and Black

meets UL 1784, UL 10C, NFPA 80 and NFPA 101

Patents #8,209,909, #9,388,629, #10,465,439 and Pending

Is Sound A Problem?

DHSI STC Ratings: Which One Would You Choose?



TEST RESULTS

SAME OPENING! Head to Head comparison

TORQUE

force on lever

STC 34 Panel

sound transmission

DHSI #105 System

No Grinding of Strike Needed

13 lbs

32 - sound barely audible

Teardrop by others

After Grinding of Strike to make lever easy to open

35 lbs+
15 lbs+

27 - can hear words
24 - speech recognizable

COMBINE DHSI Patented Frame Seals with DHSI door bottoms for highest STC

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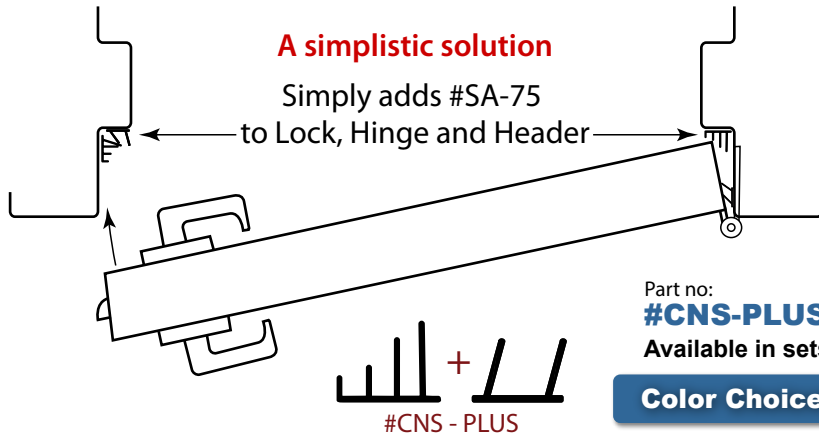
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3 Solutions to achieving Lower Cost for owners and assurance for occupant satisfaction/safety:

#CNS-PLUS - the most efficient and least costly solution to operable higher STC

#CNS-PLUS achieved an operable STC 43 on an STC 44 panel!



Part no:
#CNS-PLUS® x opening size
Available in sets of 3, 4, 7 and 8 foot lengths

Color Choices: Off-White, Dark Brown and Black

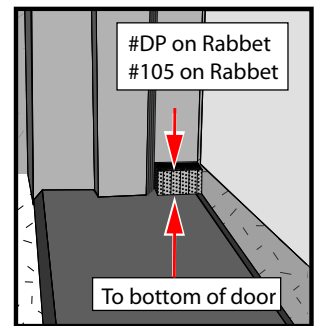
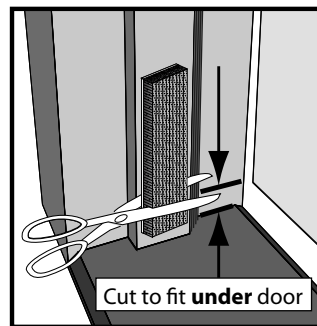
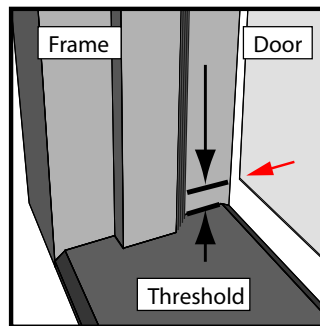
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- ★ **Sextuple seal** for unsurpassed sealing range.
- ★ **Simplistic Cost effective solution**
- ★ **Consult DHSI for Architectural Details** (pgs 16/17) to coordinate door bottom options and flooring surface options and control undercuts

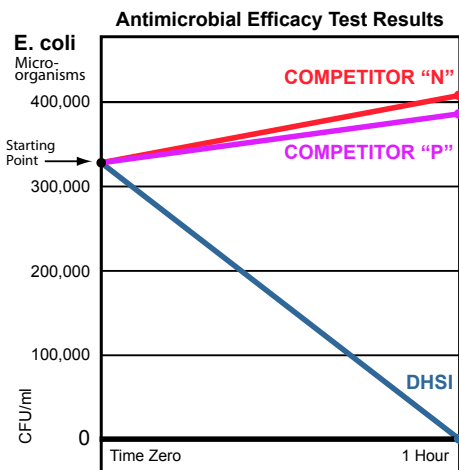
#DP Decibel Plug Adds STC value where needed

- DP seals the bottom corners as shown
Simply specify "DP as required"
- Packaged in 12" lengths to be field cut to the bottom of door to avoid bind
- Strong adhesive backed - easy to install.
- DP determined by DHSI for door bottom selected

Part #:
#DP —12" for 12 typical openings



Antimicrobial Products Life of the Installation



All DHSI frame seals and extruded bottom inserts are extruded with a homogenous antimicrobial with 99.9% efficacy that will never leach or degrade the frame seal.

Allows DHSI to warrant the performance **for the life of the installation.**

★ **How does Antimicrobial affect the long term performance and eliminate Owner Expense for seals that degrade?**

- If the base polymer of the seal is compromised by microbes, the suppleness (durometer) is going to increase making the seal harder and less functional.
- Degradation can affect fire retardants and that can compromise the safety of the occupants.
- Colors may change and dimensions may decrease
- The presence of an antimicrobial within the polymers matrix will help avoid this (deterioration) and reduction of the function of the seal.
- **Always specify Antimicrobial with the suffix "-AM"**
Example: #105-AM with permanent antimicrobial
- **Always specify an adhesion warranty is required**
And simply suffix # 105 – AM – Adhesion Warranty

★ **Available in all extruded products**
All frame seals, mullion seals, inserts for AMDB and SSDB door bottoms

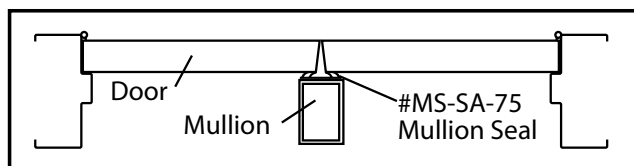
Pairs of doors: reducing Owner costs for maintenance. Solutions that do not interfere with closing and latching and provide assurance for security and safety for occupants

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#MS Mullion Seal Sound/Weather Seal



- **Self-compensating for out of plumb**
- **Warranted Adhesive** defies removal
- Seals up to 1/4" out-of-plumb
- Easily collapses to 1/32"
- Closing, latching and securing assured

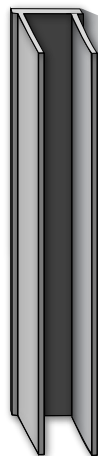


Part no:
#MS-SA75 x length x color
#MS-SA75-B x length x color - "Breakaway"® option
Available in 7 and 8 foot lengths

Color Choices: Off-White, Dark Brown and Black

#SA Self Adhesive Surface Astragal

★ **Self Adhesive seal for weather, sound and smoke.**



- For pairs of wood and HM doors, both active
- Mounts on the high and/or low side
- Adhesive defies removal by normal finger strength

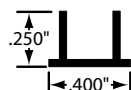
Seals between Pairs of Wood or Metal Doors

Can use 2 #SA's for higher STC

- No mortising required.
- Seals from 0" to over 1/4" gaps

Part no:
#SA x length x color
Available in 7 and 8 foot lengths

Color Choices: Off-White, Black, Light Brown and Dark Brown

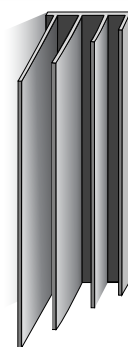


#SA Surface Astragal

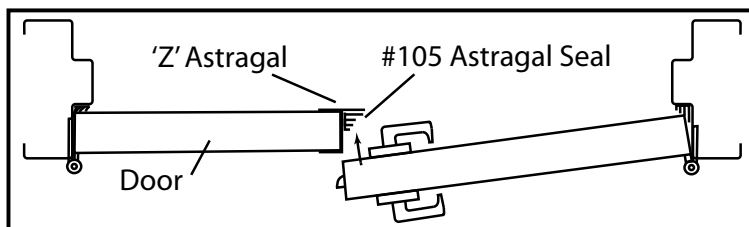


Approved and Listed for use up to 90 minutes
Meets UL10C, NFPA 252, UBC 7-2 & CAN4 S104

#105 "Cush 'N' Seal"® as astragal



- **Self Adhesive seal for weather, sound and smoke**
- Available with Ligature-Resistant option
- Adhesive defies removal
- Seals up to 1/4" gap/out of plumb
- Easily collapses to less than 1/32"
- Designed to allow the door to close and latch without causing bind, providing secure latching



Part no:
#105A x length x color
Available in 7 and 8 foot lengths

Color Choices: Off-White, Dark Brown and Black

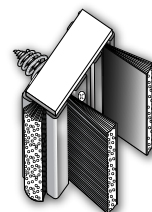
#AMA Adjustable Mortise Astragal

★ **Mortise seal for weather, sound and smoke.**

★ **For pairs of wood doors, both active**

- 1/2" Inserts standard, Adjustable for 0" to 3/8" gaps.
- **Replaceable Inserts: 1/2", 3/4", 1"**
Inserts warranted life of installation
- **Shallow Mortise:**
29/32" wide x 1/2" deep

Seals between Pairs of Wood Doors
#AMA3-2 Mortise Astragal



Part no:
#AMA3-2 x length

Available in 7 and 8 foot lengths standard, longer lengths and inserts available.

#AMA3-3 Available

- **Specify with DHSI Patented "Cush 'N' Seal" Frame Seals, Door Bottoms and Transitions**

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"Breakaway"® Series Ligature-Resistant

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The only Ligature Resistant seals tested to prove no loss of STC rating

A complete product line to specify or purchase for hospital psychiatric wards, detention centers, prisons

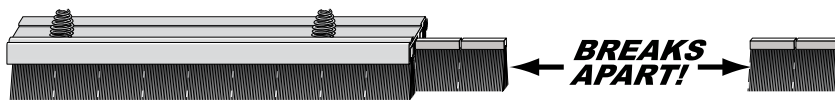
Frame Seals

- ★ The DHSI "Breakaway"® option addresses the problem of using door seals and inserts to hang or strangle, while still sealing for smoke, light and sound.

- "Breakaway"® snaps apart every 8 inches when coiled (?).
- When seals are removed from frame they tear apart every 8 inches.

Still seals for light, sound and smoke!

Inserts for Door Bottoms



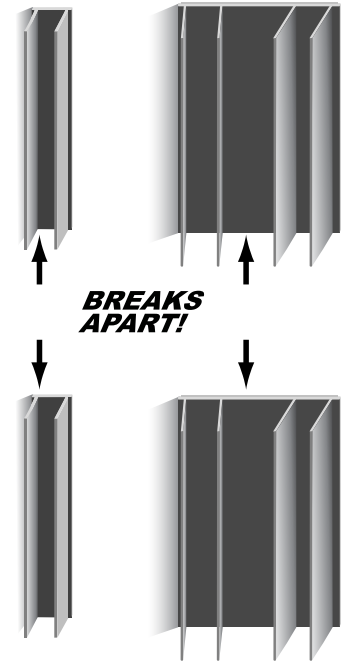
Part nos:

- #105-B "Cush 'N' Seal"® "Breakaway"® x opening size
- #SA-B Surface Astragal "Breakaway"® x size
- #SA-75-B Surface Seal "Breakaway"® x size
- #AMA3-2-B Adjustable Mortise Astragal "Breakaway"® x size
- #MS-SA-75-B Mullion Seal "Breakaway"® x size
- #AMDB3-3-B Mortise Door Bottom "Breakaway"® x size
- #SSDB3-3-B Surface Door Bottom "Breakaway"® x size

Patents #8,209,909, #9,388,629, #10,465,439 and Pending

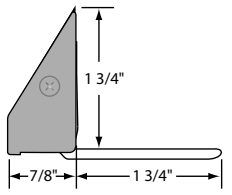
Astragals

Mullion Seals



#SAS "SECUR-A-SEAL"® Security Door Bottom

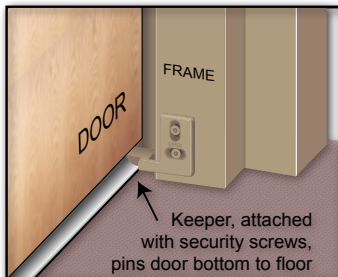
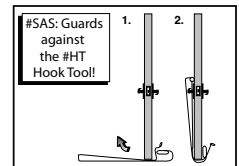
#SAS Security Door Bottom



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Closing of door releases unbendable and smooth securing at latch point when it is pinned to the floor by a small security bracket

- Designed to secure research labs: example, to contain rodents
- Designed for drug control rooms to prevent use of the "hook tool"
- Can be used on Security offices with video surveillance, and lever entry locks
- Seals against light, noise, odor, smoke.
- Eliminates cart spillage in medical supply rooms-continuous flooring
- ★ Available with the patented "AMU - Allowance and Means for Undercut" option: Allows air to pass. Still blocks light and offers sound attenuation.



PATENT #10,465,439 and pending

Color Choices: Off-White, Durododic Dark Bronze, Champagne and Anodized Aluminum

Part #:

#SAS 36 x color x handing

#SAS 36 x AMU x color x handing

Flooring Transitions - Standard Profile

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Eliminate owner expense - material and maintenance:

- FA/SB bracket set with one pre-cut transition to exact width
- Eliminates frame twist and incorrect spread of frame
- Matte finish allows a scrubby sponge to quickly rejuvenate

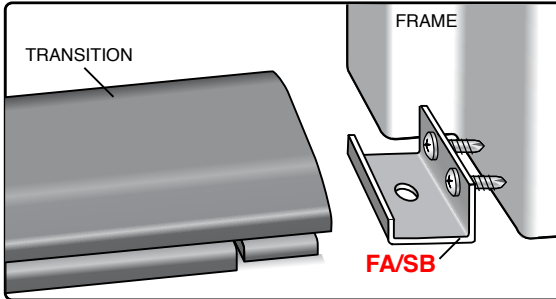


Occupant comfort and safety:

- Elimination of adjustments for problem doors ensures occupant will not complain
- Clean look for satisfaction by Occupant first impression

#FA/SB "Frame Alignment/Security Bracket"

- ★ The FA/SB ensures the installer will maintain proper width and square. Exclusive factory cut to exact length and exclusive FA/SB eliminate common field problems caused by tolerance errors and "call backs".

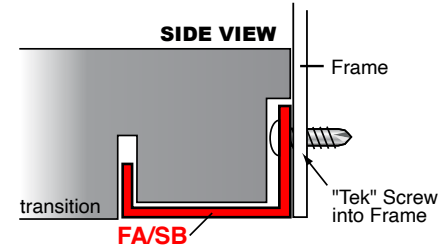


PATENTS #7,062,881, #7,681,372, #8,051,605 #8,418,426 and PATENTS PENDING

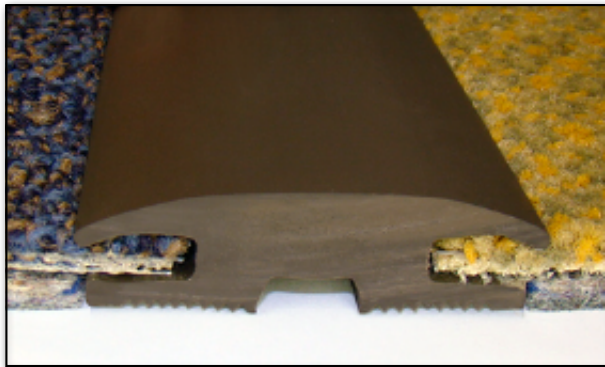
Add "x FA/SB" to #FT2.75 Series or #LP 2.75 transition part #

- ★ Factory prepped and factory pre-cut to exact width

- 1: FA/SB Attachment to frame
- 2: Use one transition as template for setting all frames
- 3: Remove transition during construction
- 4: Install glue down transition over FA/SB bracket with carpet installation



#FT 2.75 Series DHSI Transition Strip



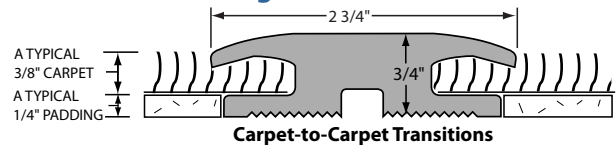
PATENT #7,062,881, #7,681,372, #8,051,605 #8,418,426 and PATENTS PENDING

- Solid color "class one" fire separation transition strip.
- Glue down, flexible recess with unique 'Carpet Tuck' feature. Does not "Pop Up" or lift up under weight.
- Eliminates seams, separates colors and patterns.
- Eliminates the need for carpet tack at the door opening.
- Creates an ideal transition between different flooring surfaces.
- Stock colors: **Black and Dark Brown**



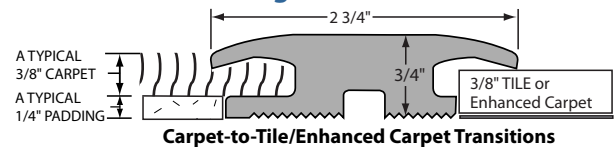
Part no:

#FT 2.75 x FA/SB x length x color



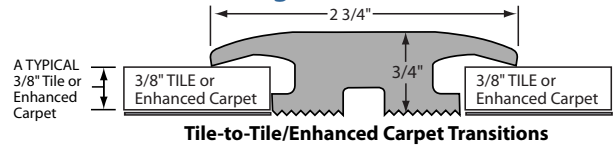
Part no:

#CTT 2.75 x FA/SB x length x color



Part no:

#TTT 2.75 x FA/SB x length x color



- 2 3/4" wide x 3/4" high
- Available in 36", 48" and 72" lengths standard. Others available upon request.

- ★ Factory prepped and factory pre-cut to exact width

Other DHSI Transitions:

These transitions can be used in conjunction with any of the DHSI door bottoms. **Other transitions available.**

#HS-CT 3.50



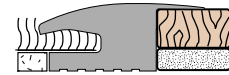
Carpet-to-Concrete 3 1/2" x 3/4"

#HS-CT 2.75 VCT



Carpet-to-VCT Tile 2 3/4" x 3/4"

#CTM2



Carpet-to-wood/tile on cork 2 3/4" x 13/16"

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Flooring Transitions - Low Profile

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Eliminate owner expense - material and maintenance:

- FA/SB bracket set with one pre-cut transition to exact width
- Eliminates frame twist and incorrect spread of frame
- Matte finish allows a scrubby sponge to quickly rejuvenate

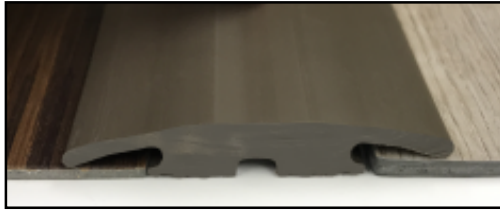


Occupant comfort and safety:

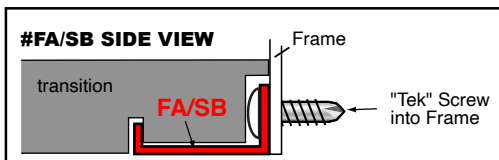
- Elimination of adjustments for problem doors ensures occupant will not complain
- Clean look for satisfaction by Occupant first impression

With the option for a Low Profile at the same cost as the standard transition the Architect, GC and Field Engineering can easily eliminate change orders

#LP 2.75 DHSI Low Profile Transition Strip



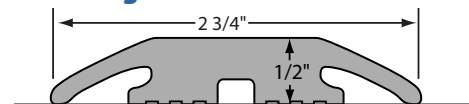
- Glue down, flexible lip can accommodate typical transitions from 0", 1/8", 1/4" material on either side. Consult DHSI for 3/8" options



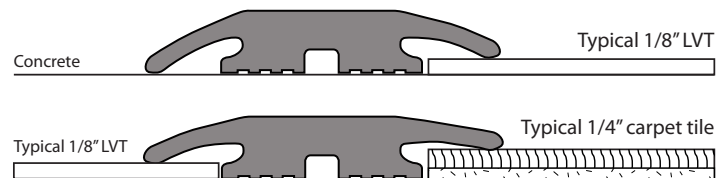
- Install with #FA/SB to maintain width, square and security

Part no:

#LP 2.75 x FA/SB x length x color



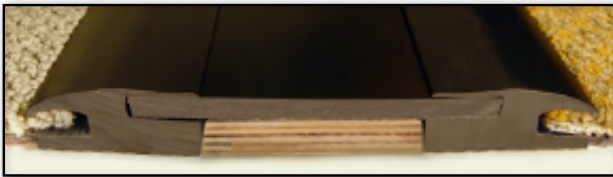
TYPICAL EXAMPLES:



★ **Factory prepped and factory pre-cut to exact width**

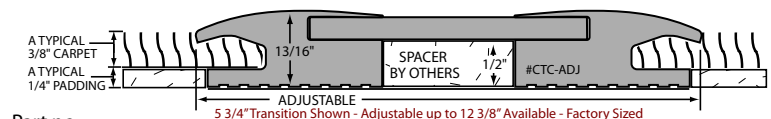
- 2 3/4" wide x 1/2" high
- **Stock colors: Black and Dark Brown**

#CTC-ADJ Adjustable Transition - Connecting



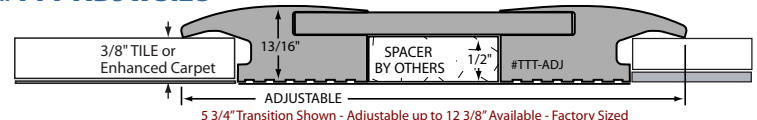
Part no:

#CTC-ADJ x Size



Part no:

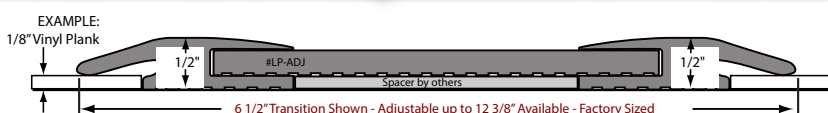
#TTT-ADJ x Size



Overall size of transition is typically depth of frame.

PATENTS #8,966,841, #8,186,114, #7,062,881, #7,681,372, #8,051,605, #8,418,426 and PATENTS PENDING

#LP-ADJ Adjustable Transition - Connecting



Part no:

#LP-ADJ x Size

- **Solid color "class one" fire separation transition for vinyl flooring or thin carpet tile**
- Flexible from zero (concrete) up through 1/4". Consult DHSI for 3/8"
- **Stock colors: Black and Dark Brown**

#AMDB Series: Auto-Adjust Mortise Door Bottom



STANDARD DUTY:

★ **#AMDB3-3** — 3 inserts

Up to STC 33 w/ #105 "Cush'N'Seal" - [Active Link Page 3](#)
#DP Decibel Plugs available - [Active Link Page 4](#)



HEAVY DUTY:

★ **#AMDB4-4** — 4 inserts

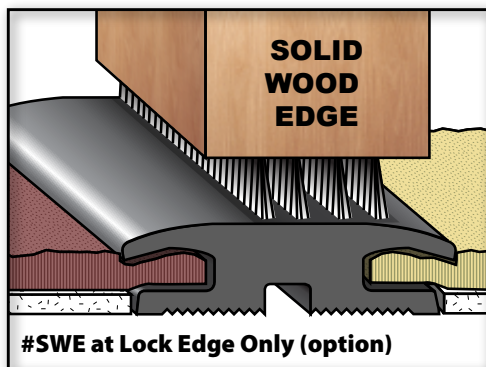
STC 34-45 with #CNS-PLUS - [Active Link Page 4](#)
#DP Decibel Plugs available - [Active Link Page 4](#)

Eliminate owner expense - material and maintenance:

- Inserts warranted never to wear out or pull out
- Auto-Adjust fins eliminate common maintenance adjustments
- Warranted not to interfere with self-close and self-latch

Occupant comfort and safety:

- Eliminates complaints
- Warranties ensure sound control is maintained
- Ensures no light, sound and smoke around all 4 sides



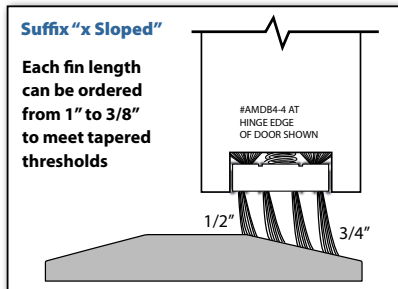
#SWE at Lock Edge Only (option)

New Product:

- Door Bottom for sloped thresholds

Suffix "x Sloped"

Each fin length can be ordered from 1" to 3/8" to meet tapered thresholds



★ "SWE" Solid Wood Edge

Mortise does not have to go through the lock edge of door.

★ Auto-Adjust

No maintenance after installation

[Click here for video demonstrating insert flexibility and strength](#)

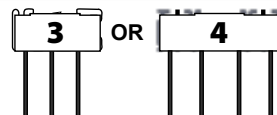
ACTIVE LINK

<https://dhsi-seal.com/AMDB.htm>

- STC Tested for ANSI S12.60 - national noise standard for classrooms
- Eliminates damage caused by pin-actuated auto-drop door bottoms
- Flexible and durable inserts: 1/2" standard: 1/2", 3/4", 1" inserts available



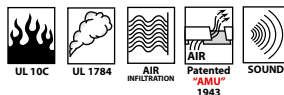
- ★ Extruded fin inserts available with AntiMicrobial "AM" for Health Care market
- ★ "AM" warranted "Life of the Installation"



- Use DHSI Architectural Details for submittals.

Part no:

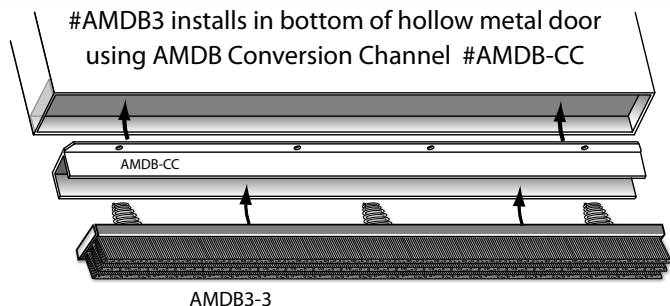
- ★ **Add "x SWE"** — Solid Wood Edge option
- **Add "x AMU"** — "AMU" inserts for interior airflow
Consult DHSI for CFM
- **Add "x AM"** — Anti-Microbial option extruded fins



Listed with ITS (Warnock Hersey) for use on fire doors up to 90 min.

- ★ Available with the patented "AMU - Allowance and Means for Undercut" option: Allows air to pass. Still blocks light and offers sound attenuation.
Patent #6,442,901 & Patents Pending. Consult DHSI

#AMDB-CC Auto-Adjust Mortise Door Bottom x Conversion Channel for HM



- ★ Conversion channel shipped assembled. Only 3 Tek screws to install

Part no:

- ★ **#AMDB x CC** — standard inserts
- **Add "x AMU"** — "AMU" inserts for interior airflow
Custom designed - Consult DHSI for CFM and insert length
- **Add "x AM"** — Anti-Microbial option extruded fins

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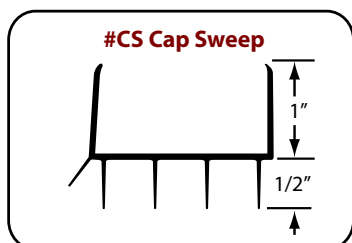
#CS Cap Sweep Door Bottom

Eliminate owner expense - material and maintenance:

- Integral fins will not rip out or wear out
- Self-Adjusting fins eliminate need to adjust
- Eliminates maintenance for face of door chipping

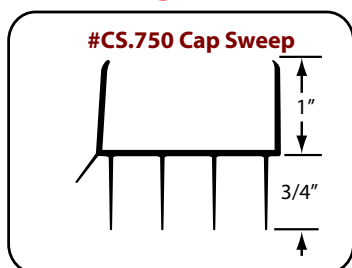
Occupant comfort and safety:

- Sound rating will not be compromised by fin failure
- Eliminates Guest complaints from noise
- Ensures a positive guest experience



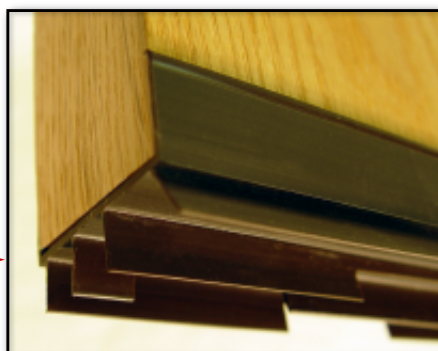
- ★ **Four Fins** for superior STC
- ★ **1/2" Adjustable** for out of level floors
- ★ Eliminates need for pin-actuated Auto-Drop

OR



- Typically sealing to a threshold or transition
- **1/2", 3/4" fins IN STOCK**
1/4", 3/8" fins available

- Request DHSI specific transition detail for height, undercut and clearance dimensions. See Page 16
- **Use only DHSI Architectural Details for submittals.**



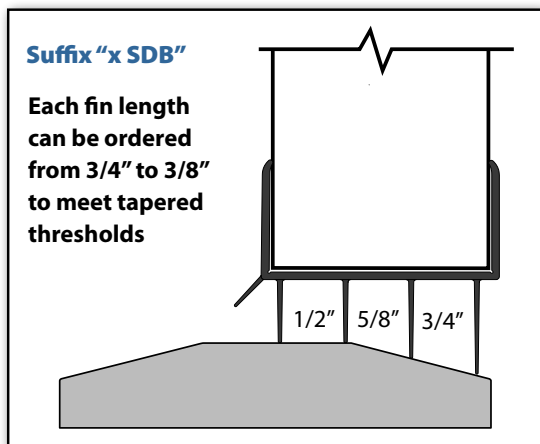
THE INDUSTRY
★ **INNOVATOR**
★ **ORIGINATOR**

New Product:

- **Door Sweeps for tapered thresholds**

Suffix "x SDB"

Each fin length can be ordered from 3/4" to 3/8" to meet tapered thresholds



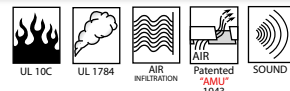
- "AMU" staggered cut fins available for corridor air supply

- ★ Available with:
"AMU - Allowance and Means for Undercut" option:
Allows air to pass. Still blocks light and offers sound attenuation. **Originally Patented by DHSI**

Part no:

- **#CS36** _____ 35 3/4"
- **#CS48** _____ 47 3/4"
- **#CS36 x AMU-3** _____ 35 3/4" with 3 "AMU" fins
4 or 2 "AMU" fins available
- **#CS.75-36** _____ 35 3/4" with 3/4" fins
- **#CS.75-36 x AMU-3** _____ 35 3/4" with 3 "AMU" 3/4" fins
- **Add "x SDB"** _____ For Sloped Door Bottom

Color Choices: Off-White, Dark Brown, Black



Listed with ITS (Warnock Hersey) for use on fire doors up to 90 min

#SSDB3 Surface Door Bottom

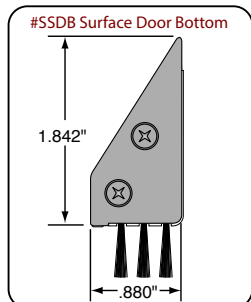
Eliminate owner expense - material and maintenance:

- Inserts warranted never to wear out or pull out
- Auto-Adjust fins eliminate common maintenance adjustments
- Warranted not to interfere with self-close and self-latch

Occupant comfort and safety:

- Eliminates complaints from occupants
- Warranties ensure sound control is maintained
- Ensures no light, sound and smoke around all 4 sides

The most versatile door bottom in the industry for PIPs and renovations



★ Where the owner or engineer wants to avoid undercutting the door

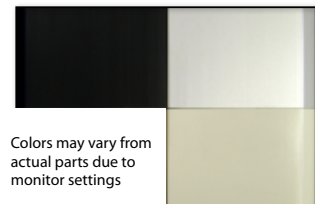
★ Where existing flooring remains and undercuts are too tight or too large

★ Where transition surfaces pose problems with bottom fins

- Snap-On Cover allows SSDB to be used with Floor Pivots.
- Fully Adjustable with Concealed Screw Attachment.
- Can be mounted on hall side or room side.
- Looks and strength similar to a kickplate, with built-in Rain Drip.

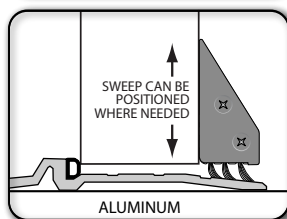
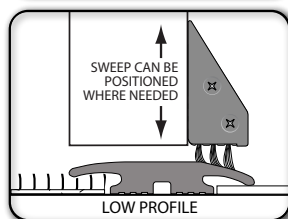
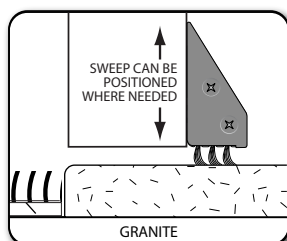
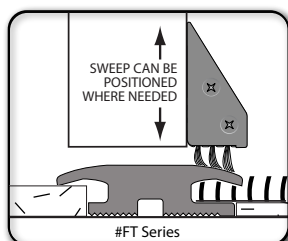
#SSDB Color Choices:

Duronodic Dark Bronze Anodized Aluminum



Colors may vary from actual parts due to monitor settings

Off-White

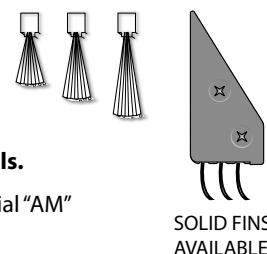


- 1/2" standard flexible and durable inserts
Replaceable for up to 1 1/4" gaps to extend range of sealing to match ANY undercut.
3/8", 1/2", 5/8", 3/4", 7/8", 1" inserts

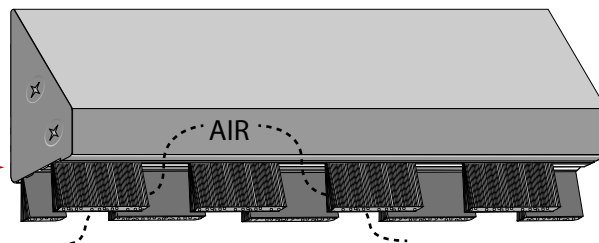
- Use DHSI Architectural Details for submittals.

- Extruded fin inserts available with AntiMicrobial "AM"

- "AM" warranted "Life of the Installation"



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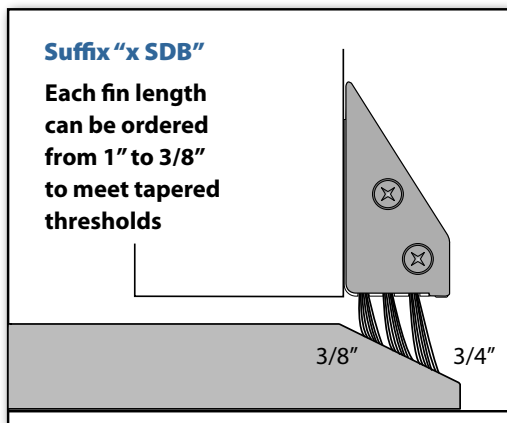


New Product:

- Door Bottom for tapered thresholds

Suffix "x SDB"

Each fin length can be ordered from 1" to 3/8" to meet tapered thresholds



- ★ Available with "AMU - Allowance and Means for Undercut" option: Allows air to pass. Still blocks light and offers sound attenuation.
Patented by DHSI

Part no:

#SSDB3 Surface Door Bottom x opening size

- **#SSDB3-3** ————— 3 standard inserts
- **#SSDB3-2 x AMU** ——— 2 "AMU" inserts
- **Add "x AM"** ————— Anti-Microbial option extruded fins
- **Add "x SDB"** ————— For Sloped Door Bottom

Available in standard 35 3/4" size or any factory cut-to-size option

Color Choices: Off-White, Duronodic Dark Bronze, and Anodized Aluminum



Listed with ITS (Warnock Hersey) for use on fire doors up to 90 min

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#AMU® "Allowance and Means for Undercut" Option

Eliminate owner expense - material and maintenance:



Occupant comfort and safety:

- Inserts warranted never to wear out or pull out
- Auto-Adjust fins eliminate common maintenance adjustments
- Warranted not to interfere with self-close and self-latch
- Eliminates complaints from light and noise under door
- Warranties ensure sound control is maintained
- Ensures no light, sound and smoke around all 4 sides

★ Allows air to pass for positive pressure hallways with "air recovery" HVAC Design; or for bathroom fans and/or PTAC units requiring a non-ducted air supply.

★ Some ASHRAE Climate Zone Maps still require corridor some air assist. Consult DHSI

- Blocks light and provides sound attenuation.
- "AMU" are custom engineered designs by DHSI. DHSI will assist selection depending upon CFM requirements.
- Selection will determine the length of the fins, the number of rows of fins and the material used.

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Part no:

#AMU: Add "x AMU" to any door bottom

ORIGINALLY PATENTED BY DHSI

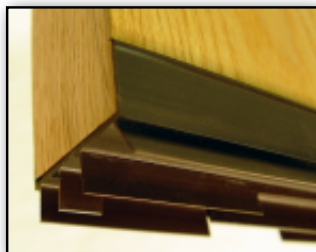


All DHSI door bottom seals are available with the patented "AMU"® option.

Cap Sweep with AMU option:

• #CS 36 x AMU-3

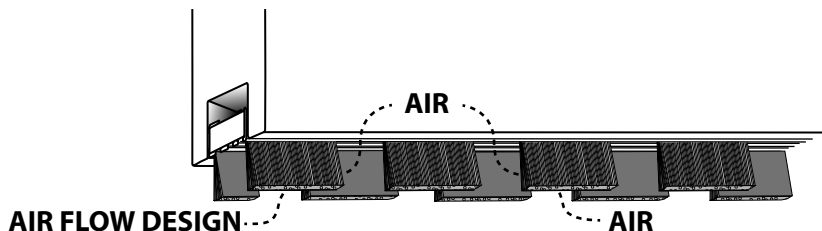
35 3/4" Cap Sweep with 3 fin AMU



AMDB3 Mortise Door Bottom with AMU option:

• #AMDB3-2 x AMU

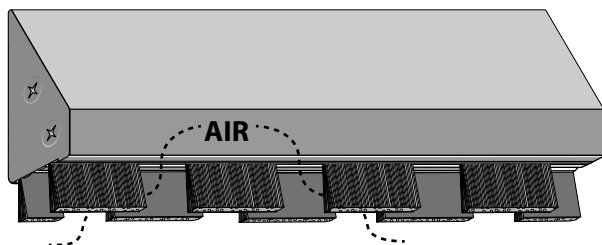
35 3/4" AMDB3 with 2 fin AMU



SSDB3 Surface Door Bottom with AMU option:

• #SSDB3-2 x AMU

35 3/4" SSDB3 with 2 fin AMU



#DV Door Viewer



- 190° Fire-Rated Door Viewer - All Glass Lens
- Plated to match lockset color: US3, US4, US10B, US15, US26, US26D
- Fits Doors 1-3/8" (34.9mm) to 2-11/16" (68.2mm) Thick - 9/16" (14.3mm) Diameter

Part no:

#DV x finish

Fits Doors 1-3/8" (34.9mm) to 2-5/32" (54.7mm) Thick with #DVC

#DV-L x finish

Fits Doors 2-3/16" (55.5mm) to 2-11/16" (68.2mm) Thick with #DVC

STOP the reverse door viewers!



#DVC Door Viewer Privacy Cover

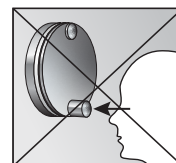
Patents Pending

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★ Enhanced Guest Comfort and Safety

- **Unsurpassed Durability, defies abuse**
But cover can be replaced without disassembly
- **Cover** - "Dur-A-Snap" engagement freely rotates.
- No need for guests to stuff tissue into viewer hole!
- Eliminates maintenance costs from replacing bent or broken tab covers which can cause eye damage.
- Accidents happen: Other products can poke the guest in the eye or forehead
- For new construction and existing installations.
Where door viewer cannot be removed, consult DHSI.



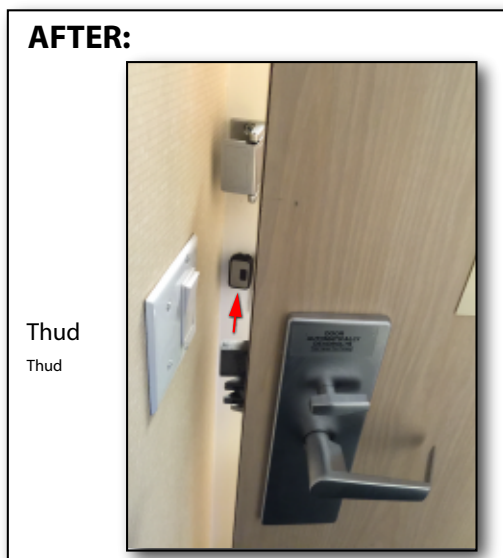
Part no:
#DVC-1 x finish

Matte Black with Plated inserts match lockset color:
US3, US4, US10B, US15, US17A, US26, US26D

"Cush 'N' Bolt"® #CNB Deadbolt Silencer

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★ ORIGINATOR

The #CNB protects the lock and addresses noise complaints when deadbolt is used to keep the door open



- Cushions the extended deadbolt when deadbolt hits the frame and strike plate
- Avoid damage to electronics of the lock. CNB acts as a cushion.
- For retrofit, or new construction

★ **Click HERE for video demonstration**

- Matte Black with Plated inserts to match lockset color:
US3, US4, US10B, US15, US17A, US19, US26, US26D

Part no:

#CNB x finish

PATENTS #10,724,286, 11,384,584 & Pending

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#SAL "Secur-A-Latch"® Privacy Keeper

PATENT #6,244,636 and Pending

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Eliminate owner expense - material and maintenance:

- Medical and staff can easily bypass for emergency ingress
- "Power Hold" magnet eliminates re-engagement and lockouts



Occupant comfort and safety:

- "Touch only" to engage and dis-engage for Guest convenience
- Ease of use assures Guest comfort with a sense of privacy

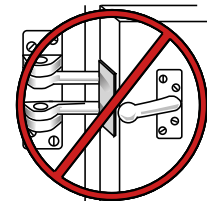
**ACTIVE
LINK**

View animated demonstration online at <https://dhsi-seal.com/securelatch.htm>

★ **Note: pics below show attractive self-adhesive screw cover -Specify "SAL" with #SAL-SC**



The Conventional **Swing Bar** door guard is **not compliant** per NFPA 80.



This applies to new **and** existing openings. **Use #SAL instead!**

- ★ Medical and staff can easily bypass for emergency ingress with simple wire hanger tool made on site
- ★ "Other" designs are reported to require a factory tool and special knowledge to use, resulting in door damage

- ★ Eliminates vibration re-engagement that results in consuming service calls and guest annoyance
- ★ No twisting of the wrist to comply with ADA "simple" to activate and de-activate required by code

- Architectural Finishes:
US26D, US15, US3, US4, US10, US10B, US14, US17A, US19, US26,
Click to see available finishes: dhsi-seal.com/SAL-finish-choices.pdf

- Click to see #SAL "Accessories" available only from DHSI:
<https://dhsi-seal.com/cat/CAT15.pdf>
- Custom Designed and Engineered adapters available only from DHSI

Part no:

#SAL x Finish

- Specify with DHSI Patented "Cush 'N' Seal" Frame Seals, Door Bottoms, Transitions, DVC and CNB!

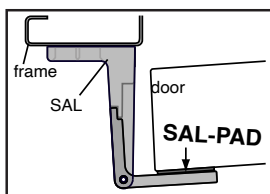
14

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#SAL-PAD Cush Pad for SAL



Optional Sound Absorber Pad for use on "Secur-A-Latch"

- #SAL-PAD is optional only. Under normal use pad is not required.
- Can reduce sound of door hitting the #SAL when engaged.
- Not visible to guest.
- Provides additional sound absorption if door does not hit #SAL squarely

Part no:
#SAL-PAD



#SAL-SC Screw Cover

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Optional cover for use with "Secur-A-Latch" to cover screws for aesthetic purposes

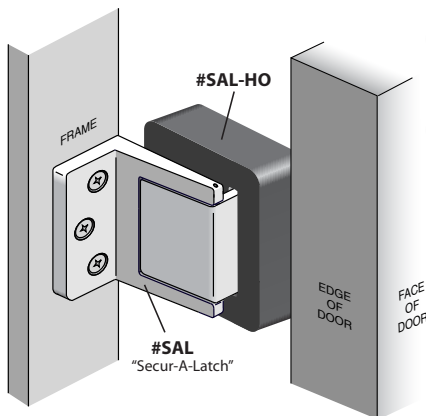
Part no:
#SAL-SC

- Matching architectural finishes - available in US3, US4, US10B, US15, US17A, US19, US26, US26D
- Applies with extremely strong adhesive
- Self-Adhesive for easy application
- Discourages tampering



#SAL-HO "Secur-A-Latch" Hold Open

Allows user to hold the door open without causing door or hardware damage



- Foam stop made to slip onto the #SAL "Secur-A-Latch"
- A special tool exclusively for use by service personnel maids, etc. for when rooms are out-of-service and unoccupied.

★ Note: the hold-open is not inherent in the design of SAL.

Part no:
#SAL-HO



#SAL-D1 and D2 Decals for Retrofit

The decals cover the holes left in the door and frame from the 'swing-bar' door latch

- Used when the #SAL is mounted at 48" or less from the floor to meet current ADA guidelines.

Part no:

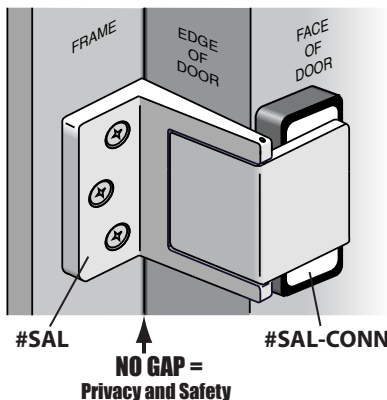
#SAL-D1 = "For your comfort and safety..."

#SAL-D2 = "Warning: door locks automatically..."



#SAL-CONN Connecting Room Stop

Does not allow opposite guest to see past the door at Connecting door openings



- Deadbolt warning label for security.
- Does not allow easy hooking of the lever to enter when the opposite guest forgets to engage the deadbolt!!

Part no:
#SAL-CONN



#DS "DoorSaver" Door Stop/Hold Open

Holds door open without having to bend over to engage or disengage and pick up the stop.



- For use when a room is out-of-service and unoccupied.
- Does not cause damage to the door like 'wedge' style door stops
- For use by Housekeepers, Chief Engineers, etc.
- Non-Skid: Works with Tile, Laminate, Concrete and Carpeted floors.

Part no:
#DS DoorSaver



#HT Lever Opening Tool - for Lock-Outs and Emergency Opening of Doors - <https://dhsi-seal.com/pdf/hooktool.pdf>

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DHSI SEALING SYSTEMS

The “Gold Standard” for product design and field performance

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The three pillars of Product and Performance Standards

FIRST PILLAR

The Products and criteria for acceptance as a Gold Standard Product were presented on Pages 3 through 15.

That acceptance requires a manufacturer to present:

- Non-Proprietary criteria
- Product performance warranties
- Testing to allowable industry tolerances
- Field Performance warranties

All criteria are focused to achieve 2 objectives:



Eliminate owner cost for product replacement and cost for maintenance

Achieve occupant and Guest safety and comfort

PILLARS TWO and THREE Require a manufacturer to provide:

Architectural Details:

The only way to control the placement of the flooring transition, material thicknesses, and undercuts

Details shall show the relationship of the door bottom, flooring material and clearances used to achieve their STC rating as tested with a nationally recognized testing facility and shall be used in all submittals.

Examples: Click here to open the web page <https://dhsi-seal.com/architectural-details.htm> to download the following:

- **AMDB4-GT** Hotel corridor Guest Entry or typical Office corridor Entry with an #AMDB concealed mortise “auto-adjust” door bottom, CNS #105 frame seals, a Flat granite threshold under the door meeting STC 32 operational rating.
- **CS-LP** Hotel corridor Guest Entry or typical Office corridor Entry with a Low Profile flooring transition that meets ADA transition requirements and meet an STC 32 operational rating.
- **CS-TTT** As above with a standard extruded flooring transition
- **AMDB4-NT** School classroom corridor entry using ASTM S12.60: the Nationally recognized test standard for a wood door with the Solid Wood Edge (“SWE”) #AMDB and a continuous LVT flooring surface, and the DHSI “Cush ‘N’ Seal” – CNS #105 frame seal

These are just several details from a DHSI library of over 600 Architectural Details.

Consult DHSI for the appropriate pdf and/or AutoCAD details for the project.

A field support Illustrated Program of Field Quality Assurance for Field Inspection

The only way to objectively identify causes of closing problems machining for hinge backset, depth of mortise, frame twist, etc.

Pillar Support: provides control of the installation sequencing prior to and after installation to identify and resolve conflicts

- A door pre-inspection and a Frame Seal pre-installation illustrated inspection guide for tolerances
<https://dhsi-seal.com/inspectionchecklist.php>
- A door bottom and flooring transition pre-installation inspection guide for slope in a transition

DHSI SEALING SYSTEMS

MARKETING - SPECIFICATIONS - AND HARDWARE SETS

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DHSI has presented in the past 17 pages, specifically how DHSI can meet all criteria to:

Eliminate owner expense by requiring:

- Product warranties against replacement costs
- Maintenance warranties against field labor adjustments

PLUS

Achieve occupant safety and comfort by:

- Establishing MPS warranted STC field performance sealing systems:
ANSI S12.60 for schools, Hotel Entry & Connecting
- Providing field operating warranties that component frame seals and door bottoms satisfy code compliance for Life Safety 101 for closing/latching and non-interference, NFPA 80 for inspection (no light)

Designating specific products and illustrated support programs for Field Quality Control

A Property Standard, Owner or Architect has the right and obligation to isolate the most sensitive openings on a School, Hotel Entry and Connecting, apartments and similar common and sensitive openings

Specification consultants across the USA that write Hardware Sets for Architects and while sometimes representing an International conglomerate have agreed to cooperate and incorporate DHSI:

★ Where an Owner, Architect, or Property Standard recognizes:

- DHSI products shall represent the "preferred choice" for writing specific Hardware Sets and Specifications for specific openings
- DHSI products shall represent the "preferred choice" for establishing the basis for Field Performance

The specification writer shall incorporate the DHSI examples for Hardware Sets and Specifications as the guide and shall consult with DHSI for recommended alternatives.

[Click here to open the web page https://dhsi-seal.com/specifications.htm to download the following:](https://dhsi-seal.com/specifications.htm)

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