

# Technical Data Series

## Tech 403 Sound (STC) Assemblies



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# Technical Data

## Sound (STC) Assemblies

# Tech 403

## NGP Seal Set #N1

**ASTM E90-2009** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

**Standards**

**ASTM E413-2010** Classification for Rating Sound Insulation

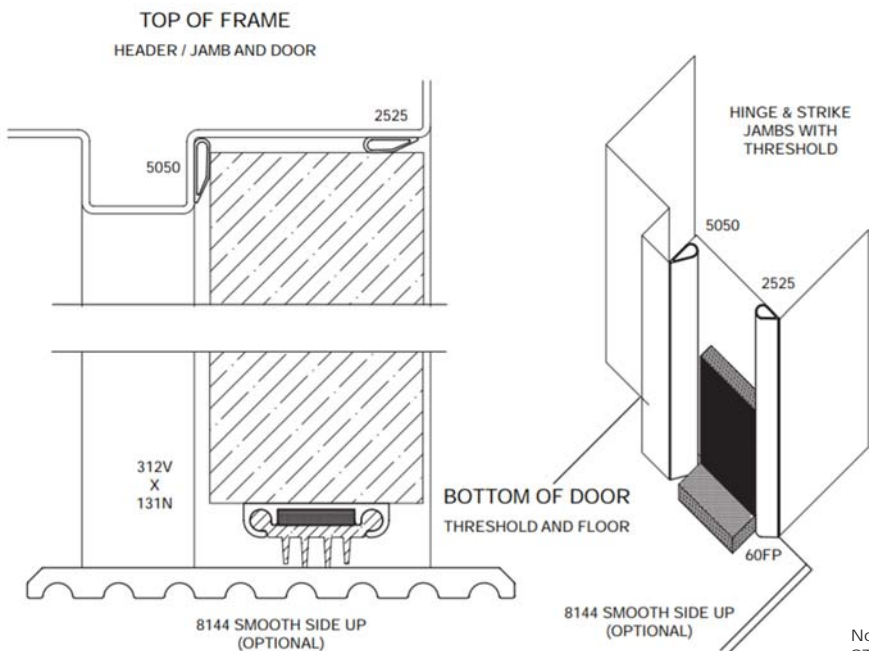
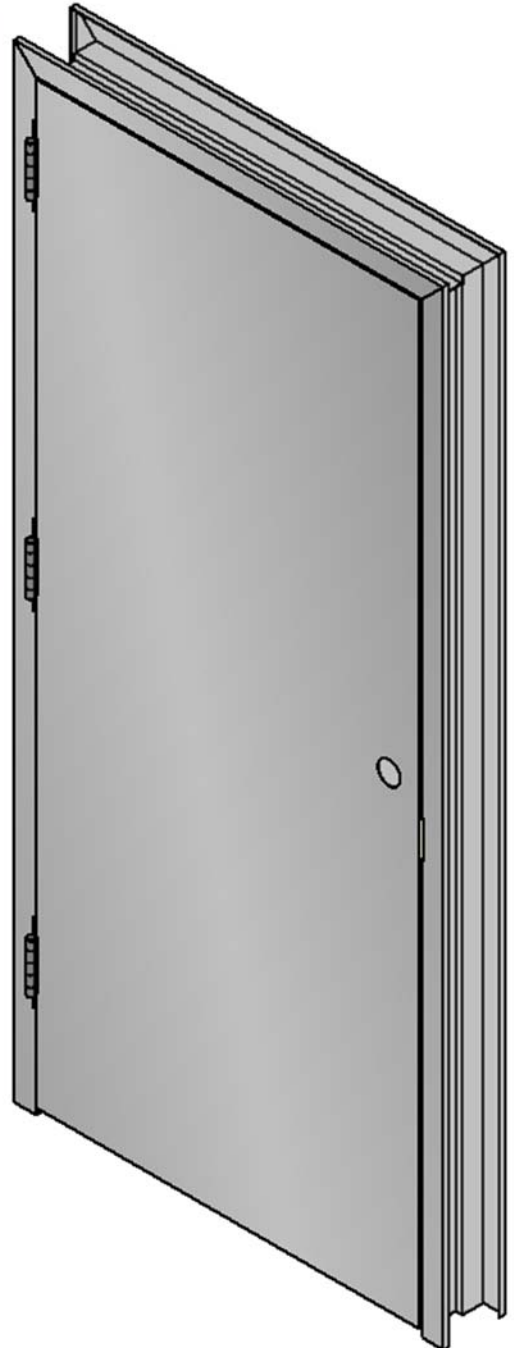
**ASTM E1332-10a** Standard Classification for Rating Outdoor-Indoor Sound

**Seal Package**

**NGP #5050** Silicone Bulb Seal (header and jambs)  
**NGP #2525** Silicone Bulb Seal (header and jambs)  
**NGP #312V X 131N** Acoustical Door Shoe (bottom of door)  
**NGP #60FP** Acoustical Foam Corner Pad (bottom corner of frame/floor)  
**NGP #8144S** Threshold (Optional) (floor)

\*NPG = National Guard Products, Inc.

<b>STC 26</b>	18 Gauge (0.042 min) Polystyrene Core Door 4'-0" x 8'-0" Tested Size	 
<b>STC 29</b>	16 Gauge (0.053 min) Polystyrene Core Door 4'-0" x 8'-0" Tested Size	 
<b>STC 30</b>	18 Gauge (0.053 min) Polyurethane Core Door 3'-0" x 7'-0" Tested Size	
<b>STC 33</b>	18 Gauge (0.042 min) Steel Stiffened Core Door 3'-0" x 7'-0" Tested Size	 
<b>STC 33</b>	16 Gauge (0.053 min) Steel Stiffened Core Door 4'-0" x 8'-0" Tested Size	 
<b>STC 33</b>	14 Gauge (0.067 min) Steel Stiffened Core Door 4'-0" x 8'-0" Tested Size	 



No recorded sound loss up to STC 33  
 STC ratings based on testing and evaluations.  
 Testing and data collection by Intertek Testing Services

# Technical Data

## Sound (STC) Assemblies

# Tech 403

## NGP Seal Set #N2

**ASTM E90-2009** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

**Standards**

**ASTM E413-2010** Classification for Rating Sound Insulation

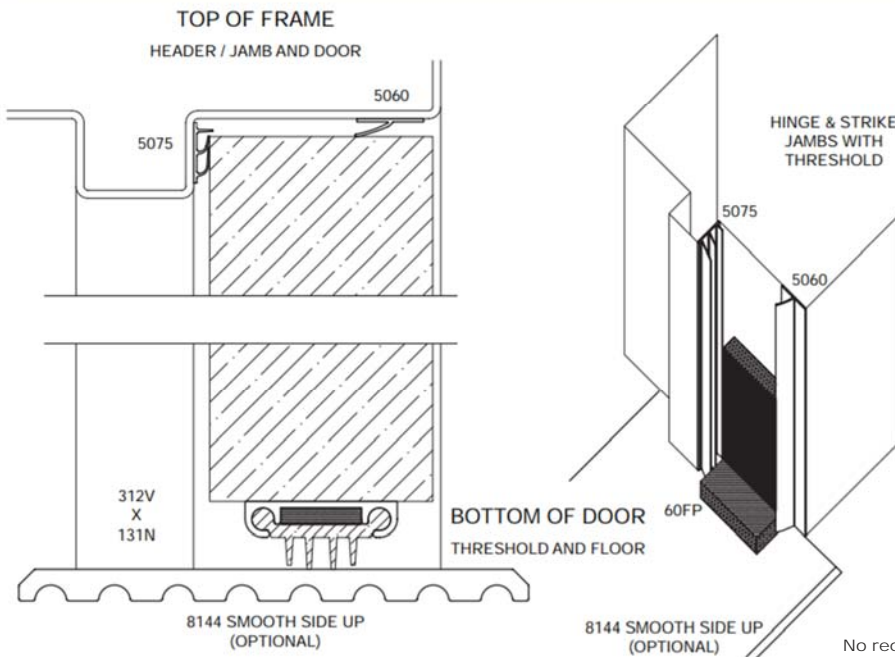
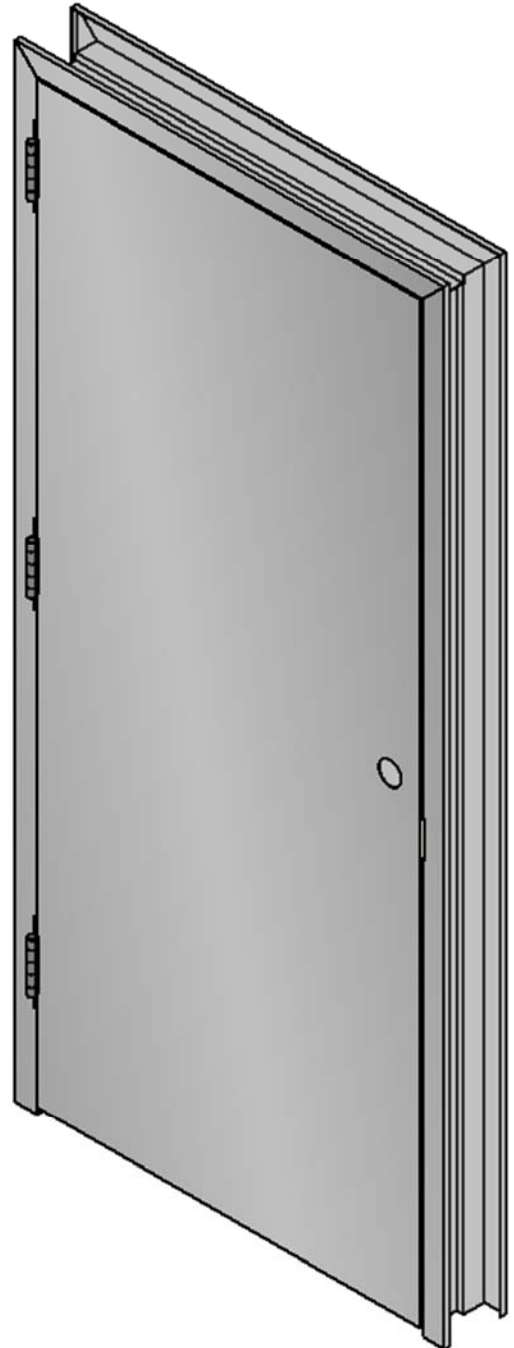
**ASTM E1332-10a** Standard Classification for Rating Outdoor-Indoor Sound Attenuation

**Seal Package**

**NGP #5075** Thermo-Plastic Elastomer Gasketing (header and jambs)  
**NGP #5060** Silicone Fin Seal (header and jambs)  
**NGP #312V X 131N** Acoustical Door Shoe (bottom of door)  
**NGP #60FP** Acoustical Foam Corner Pad (bottom corner of frame/floor)  
**NGP #8144S** Threshold (Optional) (floor)

\*NPG = National Guard Products, Inc.

STC 26	18 Gauge (0.042 min) Polystyrene Core Door 4'-0" x 8'-0" Tested Size	 
STC 29	16 Gauge (0.053 min) Polystyrene Core Door 4'-0" x 8'-0" Tested Size	 
STC 30	18 Gauge (0.053 min) Polyurethane Core Door 3'-0" x 7'-0" Tested Size	
STC 41	18 Gauge (0.042 min) Steel Stiffened Core Door 3'-0" x 7'-0" Tested Size	 
STC 42	16 Gauge (0.053 min) Steel Stiffened Core Door 4'-0" x 8'-0" Tested Size	 
STC 45	14 Gauge (0.067 min) Steel Stiffened Core Door 4'-0" x 8'-0" Tested Size	 
STC 42	18 Gauge (0.042 min) Temperature Rise Core Door 3'-0" x 7'-0" Tested Size	 
STC 45	16 Gauge (0.053 min) Temperature Rise Core Door 4'-0" x 8'-0" Tested Size	 



No recorded sound loss up to STC 45  
 STC ratings based on testing and evaluations.  
 Testing and data collection by Intertek Testing Services

# Technical Data

## Sound (STC) Assemblies

# Tech 403

## NGP Seal Set #N4

**ASTM E90-2009** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

**Standards**












**ASTM E413-2010** Classification for Rating Sound Insulation

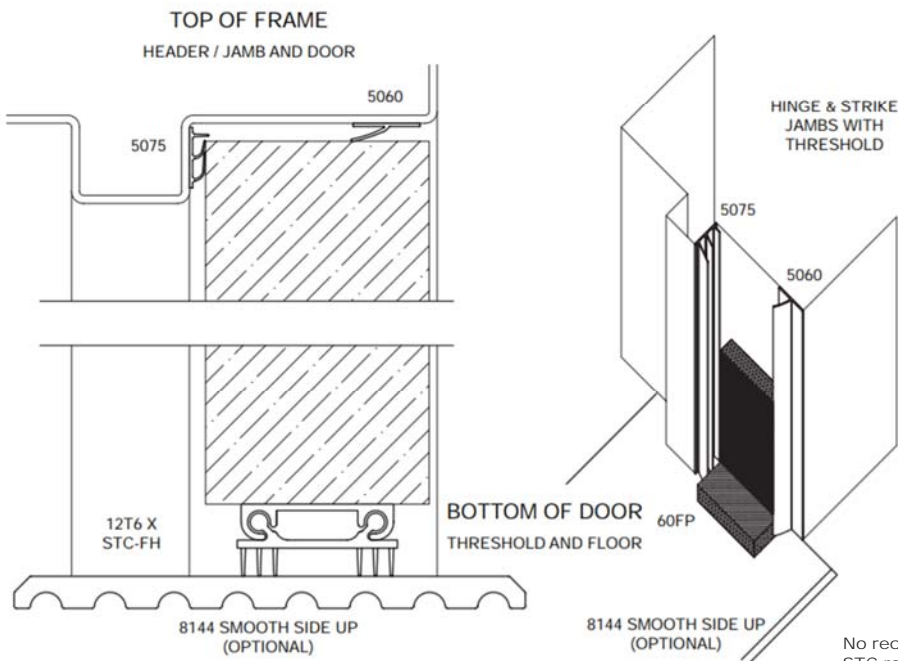
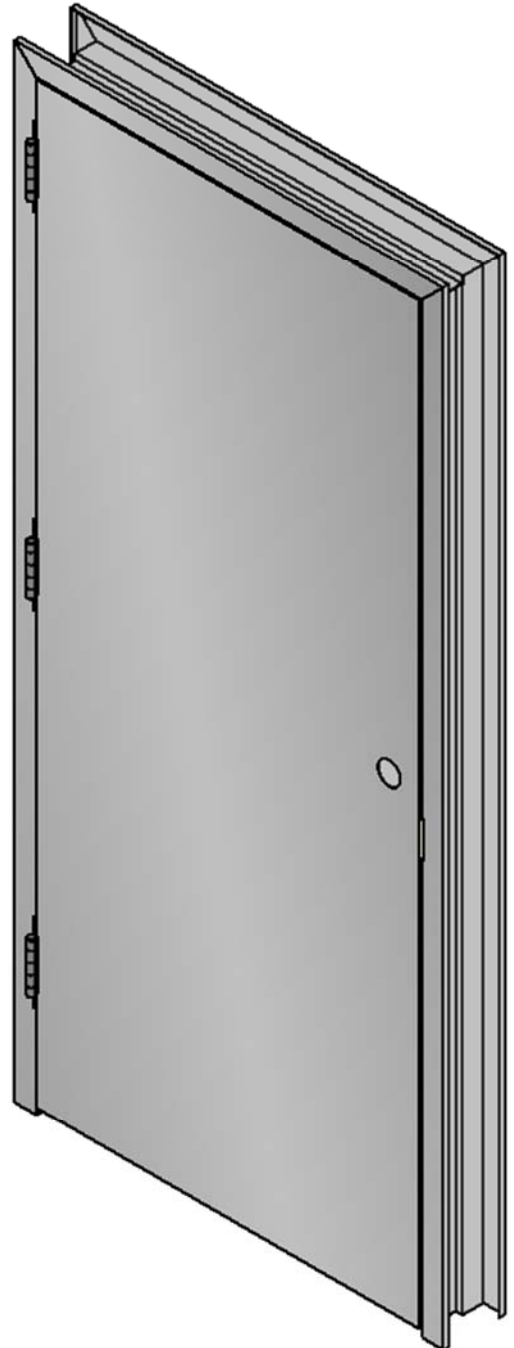
**ASTM E1332-10a** Standard Classification for Rating Outdoor-Indoor Sound Attenuation

**Seal Package**

**NGP #5075** Thermo-Plastic Elastomer Gasketing (header and jambs)  
**NGP #5060** Silicone Fin Seal (header and jambs)  
**NGP #12T6** Thermo-Plastic Door Shoe (bottom of door)  
**NGP #60FP** Acoustical Foam Corner Pad (bottom corner of frame/floor)  
**NGP #8144S** Threshold (Optional) (floor)

\*NPG = National Guard Products, Inc.

STC 41	18 Gauge (0.042 min) Steel Stiffened Core Door 3'-0" x 7'-0" Tested Size	 
STC 42	16 Gauge (0.053 min) Steel Stiffened Core Door 4'-0" x 8'-0" Tested Size	 
STC 47	14 Gauge (0.067 min) Steel Stiffened Core Door 4'-0" x 8'-0" Tested Size	 
STC 42	18 Gauge (0.042 min) Temperature Rise Core Door 3'-0" x 7'-0" Tested Size	 
STC 45	16 Gauge (0.053 min) Temperature Rise Core Door 4'-0" x 8'-0" Tested Size	 
STC 51	14 Gauge (0.067 min) Proprietary Core Door Option #1 4'-0" x 8'-0" Tested Size	
STC 52	14 Gauge (0.067 min) Proprietary Core Door Option #2 4'-0" x 8'-0" Tested Size	





No recorded sound loss up to STC 52  
 STC ratings based on testing and evaluations.  
 Testing and data collection by Intertek Testing Services

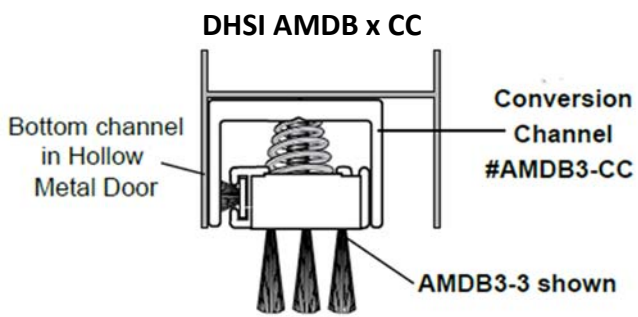
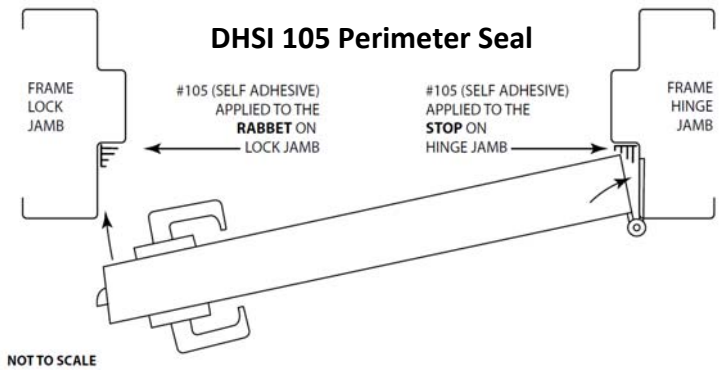
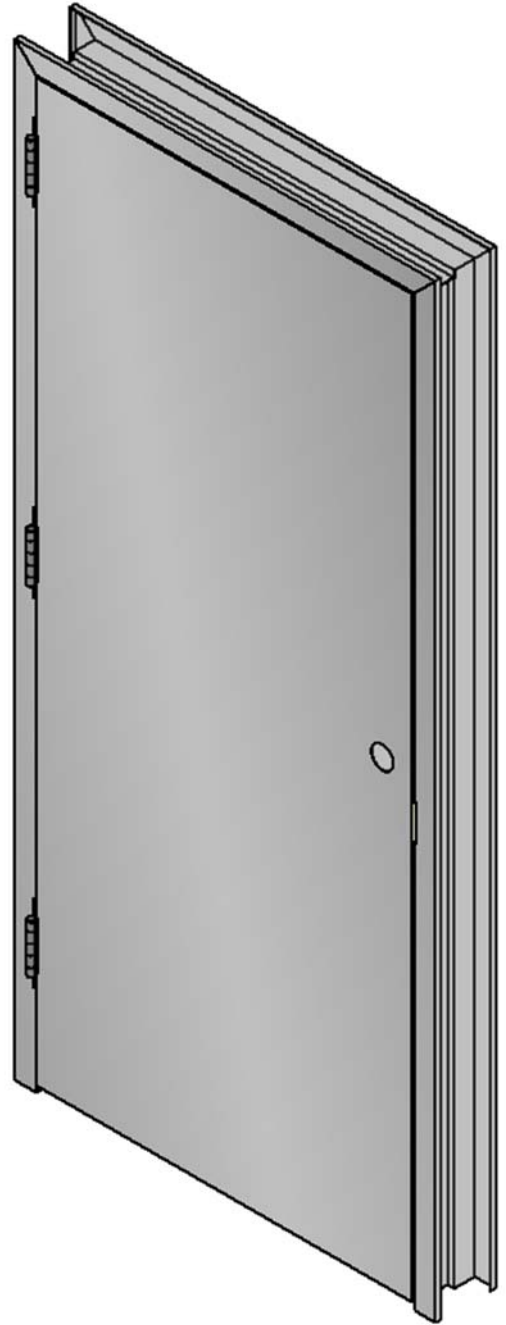
# Technical Data

## Sound (STC) Assemblies

# Tech 403

## DHSI Seal Set #D1

<b>Standards</b>	<b>ASTM E90-2009</b> Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions	
	<b>ASTM E413-2010</b> Classification for Rating Sound Insulation	
	<b>ASTM E1332-10a</b> Standard Classification for Rating Outdoor-Indoor Sound Attenuation	
<b>Seal Package</b>	<b>DHSI AMDB x CC</b> Adjustable Mortised Door Bottom w/ Conversion Channel <b>DHSI 105</b> "Cush 'N' Seal" Perimeter Seal  <i>*DHSI = Door and Hardware Systems, Inc.</i>	
<b>STC 28</b>	18 Gauge (0.042 min) Polyurethane Core Door 3'-0" x 7'-0" Tested Size	
<b>STC 34</b>	18 Gauge (0.042 min) Steel Stiffened Core Door	



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# Technical Data

## Sound (STC) Assemblies

# Tech 403

## DHSI Seal Set #D2

**Standards** **ASTM E90-2009** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

**Standards** **ASTM E413-2010** Classification for Rating Sound Insulation

**ASTM E1332-10a** Standard Classification for Rating Outdoor-Indoor Sound Attenuation

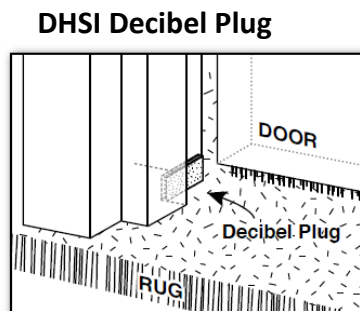
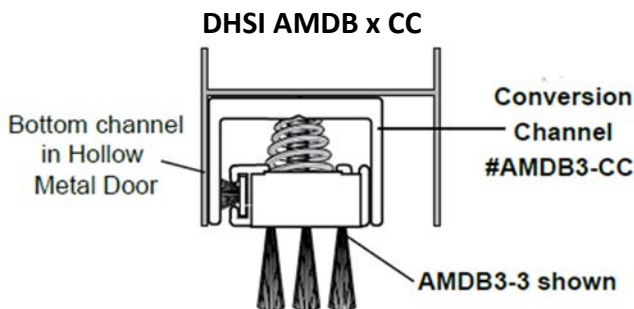
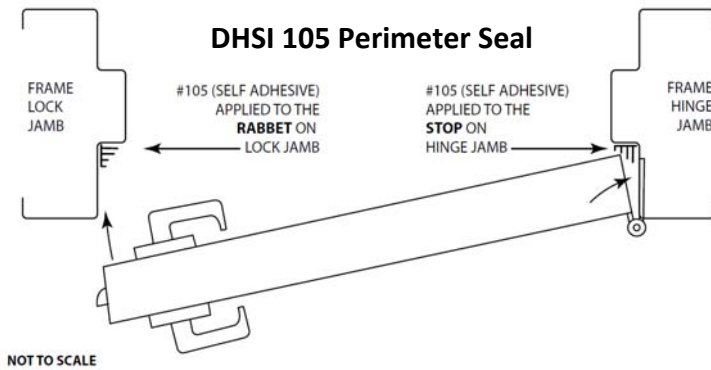
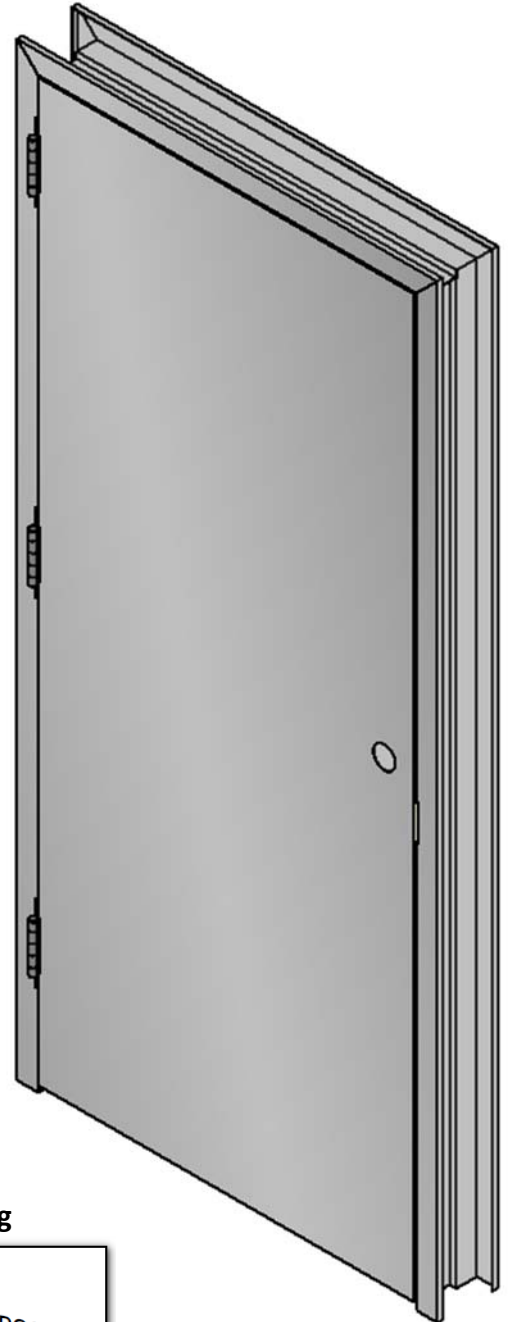
**Seal Package** **DHSI AMDB x CC** Adjustable Mortised Door Bottom w/ Conversion Channel  
**DHSI 105** "Cush 'N' Seal" Perimeter Seal  
**DHSI DP** Decibel Plug

*\*DHSI = Door and Hardware Systems, Inc.*

**STC 26** 18 Gauge (0.042 min) Polystyrene Core Door  
 3'-0" x 7'-0" Tested Size



**STC 29** 18 Gauge (0.042 min) Polyurethane Core Door  
 3'-0" x 7'-0" Tested Size



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# Technical Data

## Sound (STC) Assemblies

# Tech 403

## DHSI Seal Set #D3

**Standards** **ASTM E90-2009** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

**Standards** **ASTM E413-2010** Classification for Rating Sound Insulation

**Standards** **ASTM E1332-10a** Standard Classification for Rating Outdoor-Indoor Sound Attenuation

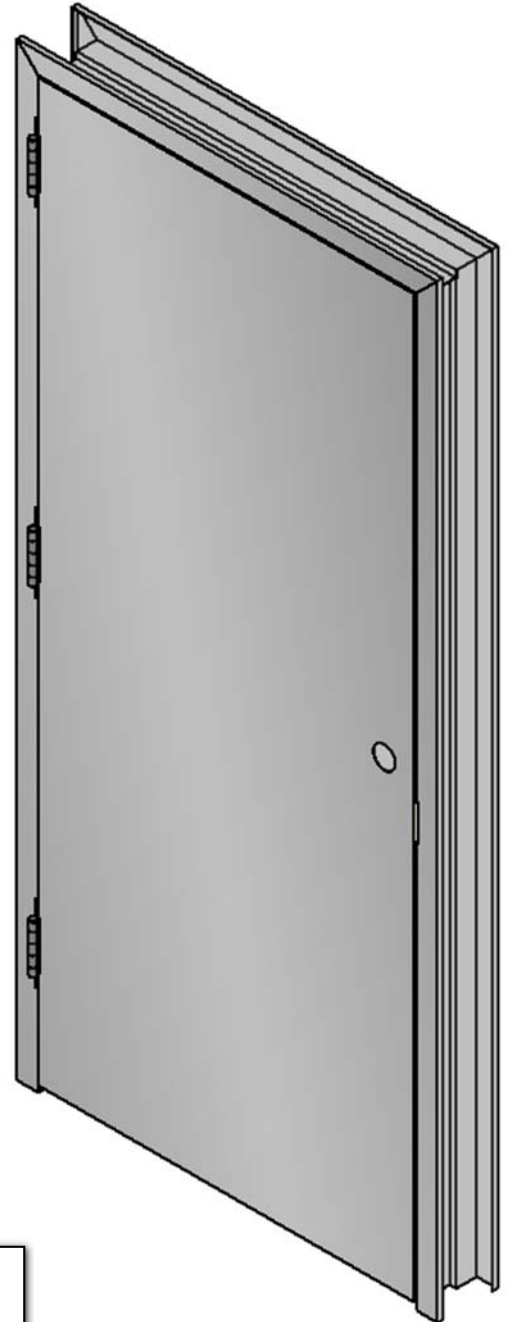
**Seal Package**  
**DHSI CS** Cap Sweep  
**DHSI CNS Plus** "Cush 'N' Seal" PLUS Frame Seal  
**DHSI DP** Decibel Plug

*\*DHSI = Door and Hardware Systems, Inc.*

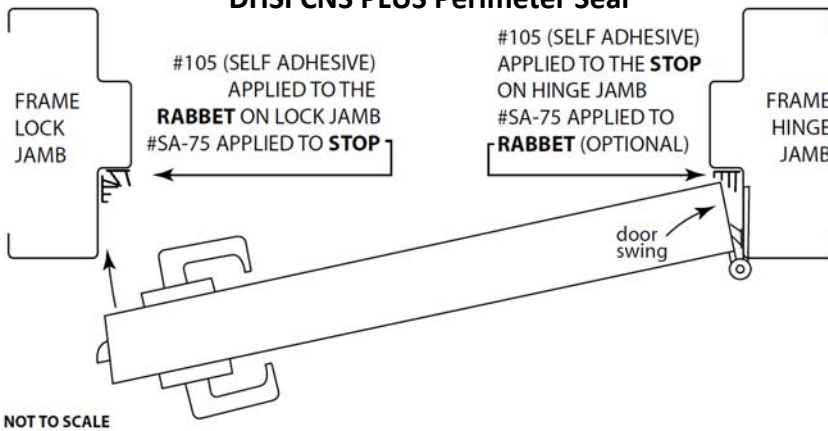
**STC 37** 18 Gauge (0.042 min) Steel Stiffened Core Door  
 3'-0" x 7'-0" Tested Size



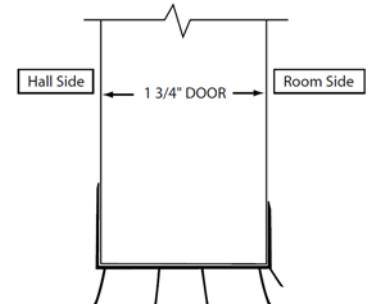
**STC 38** 18 Gauge (0.042 min) Steel Stiffened Communicating Doors  
 3'-0" x 7'-0" Tested Size



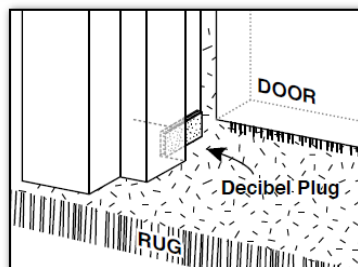
### DHSI CNS PLUS Perimeter Seal



### DHSI Cap Sweep



### DHSI Decibel Plug



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# Technical Data

## Sound (STC) Assemblies

# Tech 403

## DHSI Seal Set #D4

**Standards** **ASTM E90-2009** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

**Standards** **ASTM E413-2010** Classification for Rating Sound Insulation

**Standards** **ASTM E1332-10a** Standard Classification for Rating Outdoor-Indoor Sound Attenuation

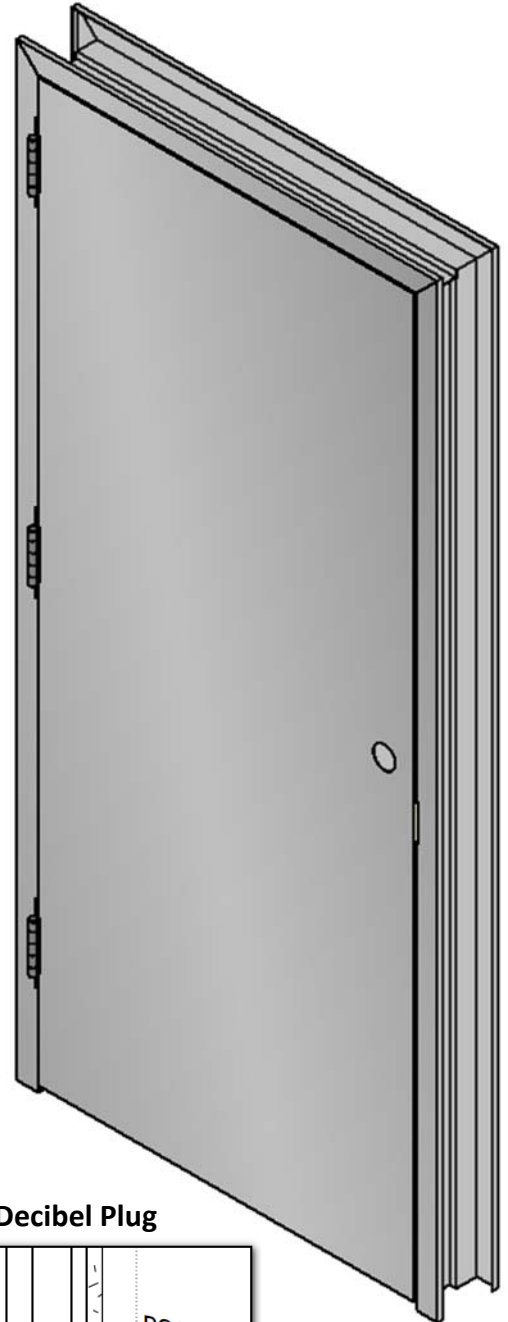
**Seal Package**  
**DHSI CS** Cap Sweep  
**DHSI CNS MAX** "Cush 'N' Seal" MAX Frame Seal  
**DHSI DP** Decibel Plug

*\*DHSI = Door and Hardware Systems, Inc.*

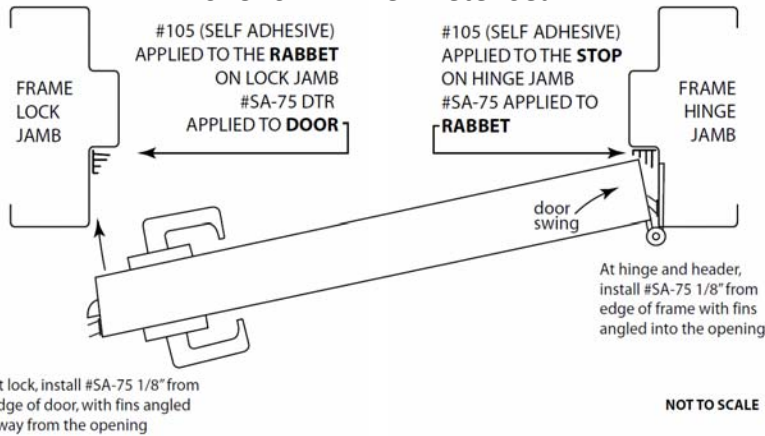
**STC 41** 18 Gauge (0.042 min) Temperature Rise Door



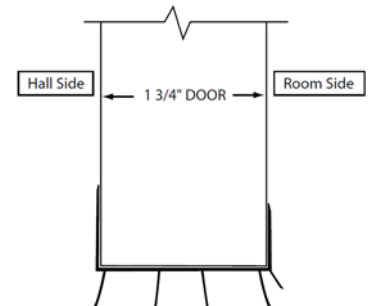
**STC 44** 18 Gauge (0.042 min) Proprietary Core  
 3'-0" x 7'-0" Tested Size



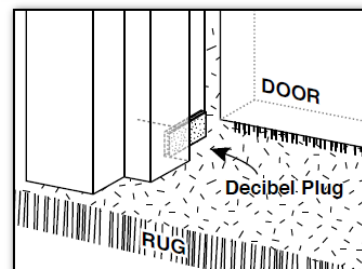
### DHSI CNS MAX Perimeter Seal



### DHSI Cap Sweep



### DHSI Decibel Plug



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