Section 07 92 00 Acoustical Joint Sealants

NOTE TO SPECIFIER: This specification section addresses only "Acoustical Joint Sealants" associated with sound attenuation. Specifications for other purposes, such as "Elastomeric Joint Sealants", under companion section 07 84 43 must be evaluated separately.

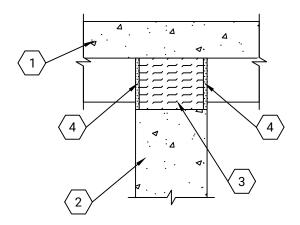
PART 1 - General

- 1.01 Related Documents:
 - A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Section, apply to work specified in this section.
- 1.02 Definitions:
 - A. Acoustic Joint Sealant: "Acoustic Joint Sealant: Material or combination of materials used to achieve specified acoustical rating of non-fire-rated assembly by providing an effective barrier against sound transmission through construction joint and through penetration openings."
- 1.03 General Description of the Work of this Section:
 - Only tested acoustic systems shall be used in specific locations as follows:
 - A. Top-of-Wall, Wall-to-Wall, Bottom-of-Wall Joints in gypsum board partitions.
 - B. Top-of-Wall, Wall-to-Wall, Floor-to-Wall Joints in concrete walls.
 - C.Floor-to-Floor Joints in concrete floors
 - D. Through-penetrations in gypsum and masonry walls and floors.
- 1.04 Related Work of Other Sections
 - A. Coordinate work of this section with work of other sections as required to properly execute the work and as necessary to maintain satisfactory progress of the work of other sections, including:
 - 1. Section 07 84 00 General Firestopping
 - 2. Section 07 84 13 Penetration Firestopping
 - 3. Section 07 84 43 Joint Systems
 - 4. Section 07 84 53 Building Perimeter Firestopping
 - 5. Section 22 00 00 Plumbing Firestopping
 - 6. Section 23 00 00 HVAC Firestopping
 - 7. Section 26 00 00 Electrical
 - 8. Section 27 05 28 Communications Firestopping



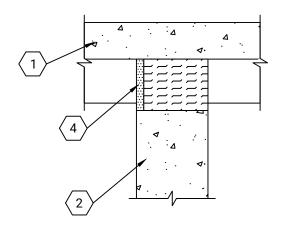
Concrete and Concrete Block Head-of-Wall Joints

1/4" (6.4 mm) Thickness - Both Sides of Wall



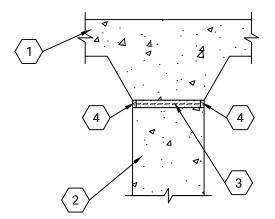
Detail 2-1

1/2" (12.7mm) Thickness - One Side of Wall



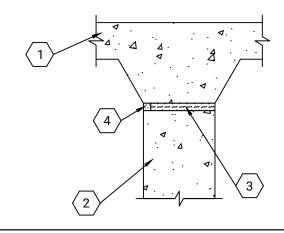
Detail 2-2

1/4" (6.4 mm) Thickness - Both Sides of Wall



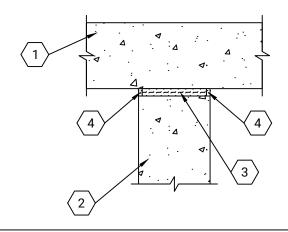
Detail 2-3

1/2" (12.7mm) Thickness - One Side of Wall



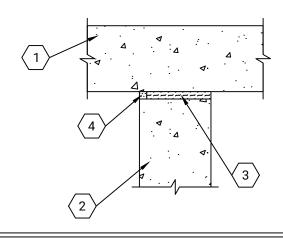
Detail 2-4

1/4" (6.4 mm) Thickness - Both Sides of Wall



Detail 2-5

1/2" (12.7mm) Thickness - One Side of Wall



Detail 2-6

- (1) Concrete Floor
- (2) Non-Rated Concrete and Concrete Block Wall
- Fiberglass Batt Insulation or Mineral Wool Batt Insulation
- 4 SpecSeal® Smoke 'N' Sound Sealant



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• E: techserv@stifirestop.com • www.stifirestop.com

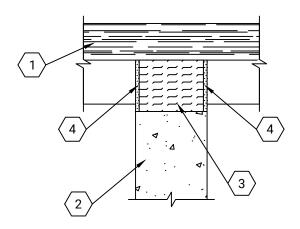
All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 2 of 16

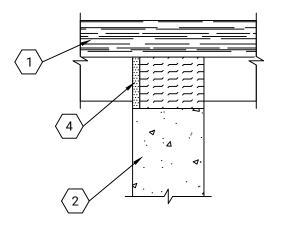
Concrete and Concrete Block Head-of-Wall and Wall to Wall Joints

1/4" (6.4 mm) Thickness - Both Sides of Wall



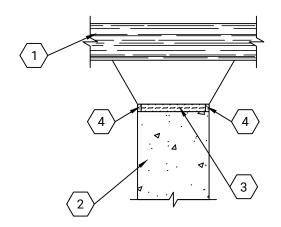
Detail 3-1

1/2" (12.7mm) Thickness - One Side of Wall



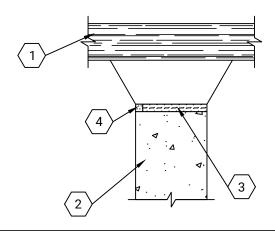
Detail 3-2

1/4" (6.4 mm) Thickness - Both Sides of Wall



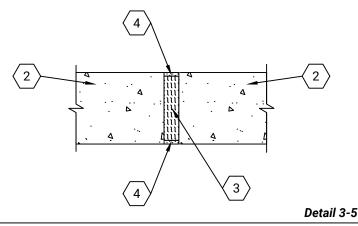
Detail 3-3

1/2" (12.7mm) Thickness - One Side of Wall

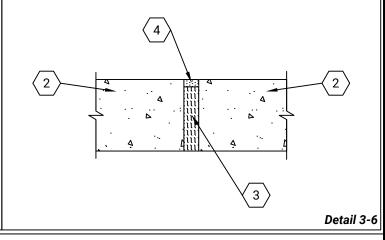


Detail 3-4

1/4" (6.4 mm) Thickness - Both Sides of Wall



1/2" (12.7mm) Thickness - One Side of Wall



- 1 Roof
- (2) Non-Rated Concrete and Concrete Block Wall
- 3 Fiberglass Batt Insulation or Mineral Wool Batt Insulation
- 4 SpecSeal® Smoke 'N' Sound Sealant



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• F: techserv@stifireston.com • www.stifireston.com

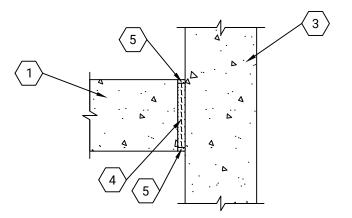
All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 3 of 16

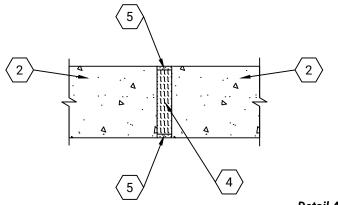
Concrete Floor to Wall and Floor to Floor Joints

1/4" (6.4 mm) Thickness - Both Sides of Floor



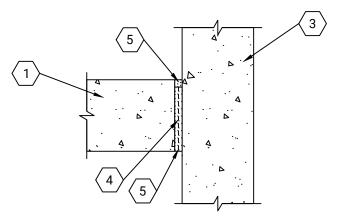
Detail 4-1

1/4" (6.4 mm) Thickness - Both Sides of Floor



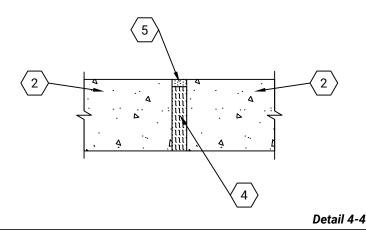
Detail 4-2

1/2" (12.7mm) Thickness - Top Side of Floor



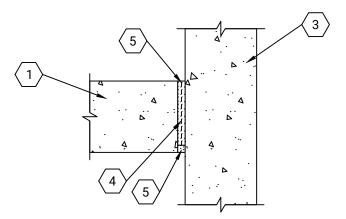
Detail 4-3

1/2" (12.7mm) Thickness - Top Side of Floor

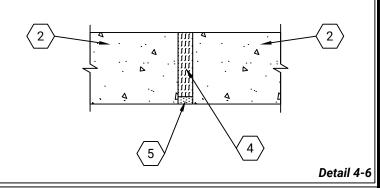


1/2" (12.7mm) Thickness - Bottom Side of Floor

1/2" (12.7mm) Thickness - Bottom Side of Floor



Detail 4-5



(1) Concrete Floor

- 2 Non-Rated Concrete Floor
- 3 Non-Rated Concrete and Concrete Block Wall
- 4 Fiberglass Batt Insulation or Mineral Wool Batt Insulation



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• F: techserv@stifireston.com • www.stifireston.com

5 SpecSeal® Smoke 'N' Sound Sealant

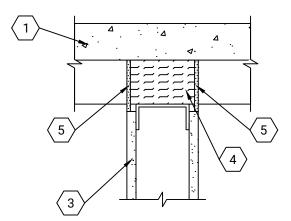
All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 4 of 16

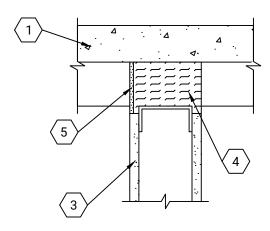
Gypsum Board Head of Wall and **Bottom of Wall Joints**

1/4" (6.4 mm) Thickness - Both Sides of Wall



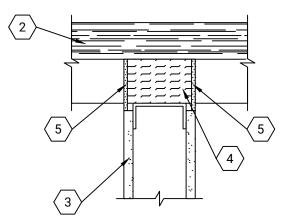
Detail 5-1

1/4" (6.4 mm) Thickness - One Side of Wall



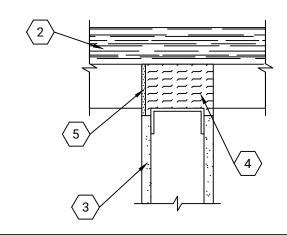
Detail 5-2

1/4" (6.4 mm) Thickness - Both Sides of Wall



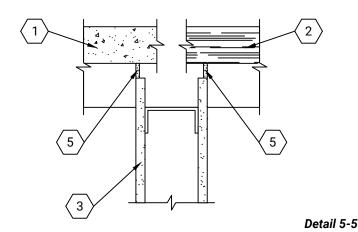
Detail 5-3

1/4" (6.4 mm) Thickness - One Side of Wall



Detail 5-4

1/4" (6.4 mm) Thickness - Both Sides of Wall



5 SpecSeal® Smoke 'N' Sound Sealant

- Concrete Floor
- Roof
- Non-Rated Gypsum Wall
- Fiberglass Batt Insulation or Mineral Wool Batt Insulation



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

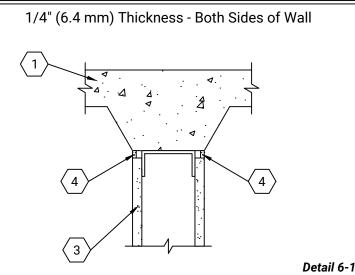
Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415 E: techserv@stifirestop.com • www.stifirestop.c

All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

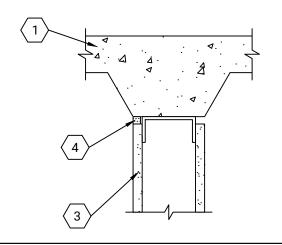
ZIS1267 3082

Pg 5 of 16

Gypsum Board Head of Wall Joints and Wall to Wall Joints

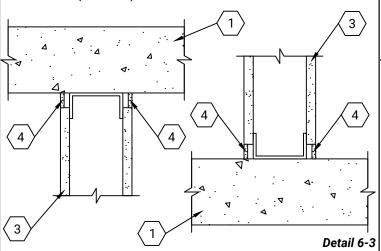


1/2" (12.7mm) Thickness - One Side of Wall

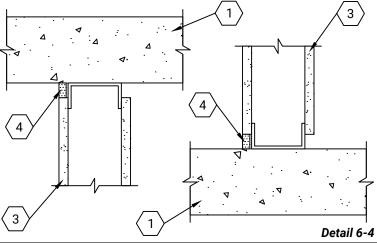


Detail 6-2

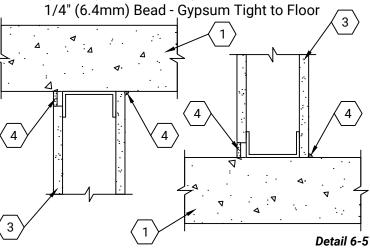
1/4" (6.4 mm) Thickness - Both Sides of Wall



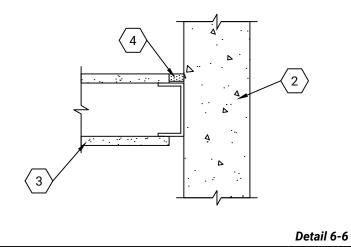
1/2" (12.7mm) Thickness - One Side of Wall



1/4" (6.4mm) Thickness - Gypsum Offset from Floor 1/4" (6.4mm) Bead - Gypsum Tight to Floor



1/2" (12.7mm) Thickness - One Side of Wall



- **Concrete Floor**
- Non-Rated Concrete or Concrete Block Wall
- Non-Rated Gypsum Wall
- SpecSeal® Smoke 'N' Sound Sealant



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415

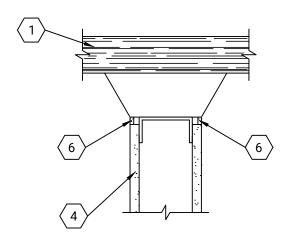
All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 6 of 16

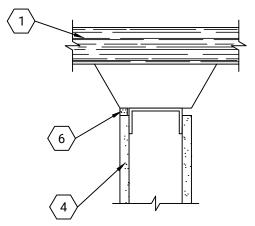
Gypsum Board Head of Wall and Bottom of Wall Joints

1/4" (6.4 mm) Thickness - Both Sides of Wall



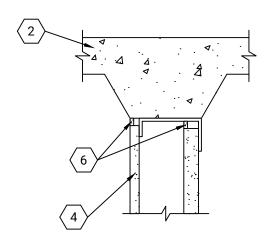
Detail 7-1

1/2" (12.7mm) Thickness - One Side of Wall



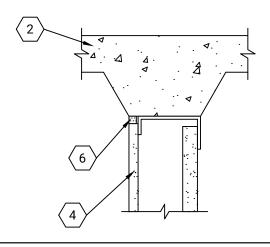
Detail 7-2

1/4" (6.4 mm) Thickness - Both Sides of Wall



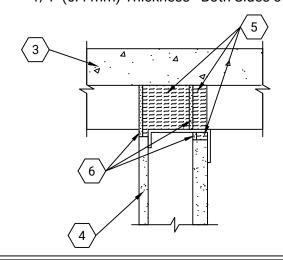
Detail 7-3

1/2" (12.7mm) Thickness - One Side of Wall



Detail 7-4

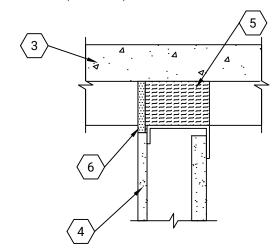
1/4" (6.4 mm) Thickness - Both Sides of Wall



Detail 7-5

1/2" (12.7mm) Thickness - One Side of Wall

5 Fiberglass Batt Insulation or Mineral Wool Batt Insulation



Detail 7-6

- 1 Roof
- (2) Concrete Floor
- 3 Floor or Roof
- $_4
 angle$ Non-Rated Gypsum Wall or Gypsum Shaft Wall
- Specified
 STL Technologies Inc.

210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• E: techserv@stifirestop.com • www.stifirestop.com

All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's

sole warranty shall be to refund or replace materials found to be defective.

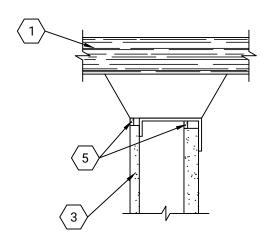
SpecSeal® Smoke 'N' Sound Sealant

ZIS1267 3082

Pg 7 of 16

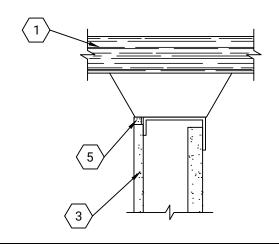
Gypsum Board Head of Wall and Bottom of Wall Joints

1/4" (6.4 mm) Thickness - Both Sides of Wall



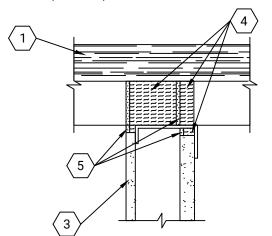
Detail 8-1

1/2" (12.7mm) Thickness - One Side of Wall



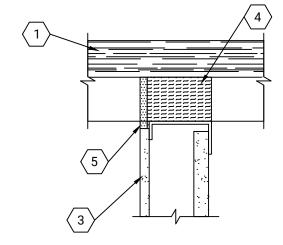
Detail 8-2

1/4" (6.4 mm) Thickness - Both Sides of Wall



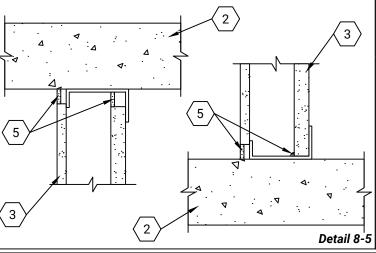
Detail 8-3

1/2" (12.7mm) Thickness - One Side of Wall

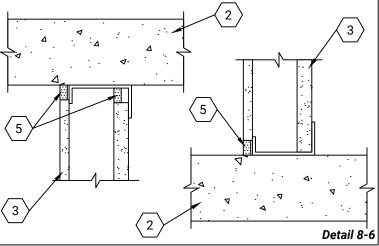


Detail 8-4

1/4" (6.4 mm) Thickness - Both Sides of Wall



1/2" (12.7mm) Thickness - One Side of Wall



- (1) Roof
- (2) Concrete Floor
- 3 Non-Rated Gypsum Shaft Wall
- 4 > Fiberglass Batt Insulation or Mineral Wool Batt Insulation

Specified STL Technologies Inc.

210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• E: techserv@stifirestop.com • www.stifirestop.com

All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

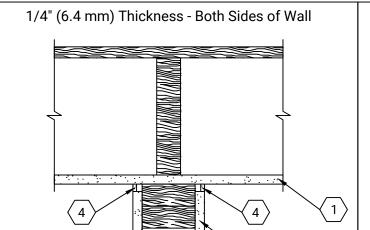
5 SpecSeal® Smoke 'N' Sound Sealant

ZIS1267 3082

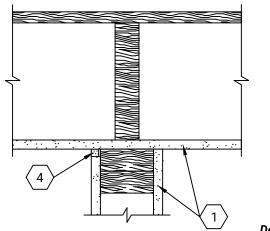
Pg 8 of 16

Detail 9-1

Gypsum Board Head of Wall and Wall to Wall Joints

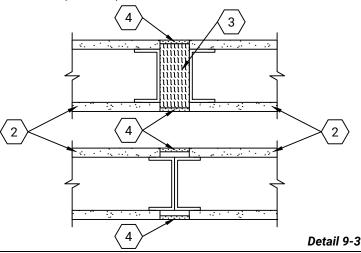


1/2" (12.7mm) Thickness - One Side of Wall

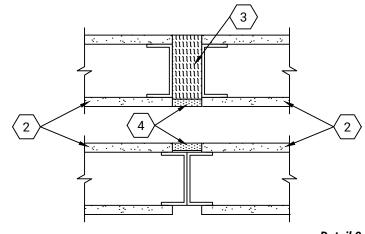


Detail 9-2

1/4" (6.4 mm) Thickness - Both Sides of Wall

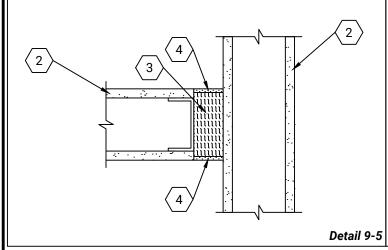


1/2" (12.7mm) Thickness - One Side of Wall

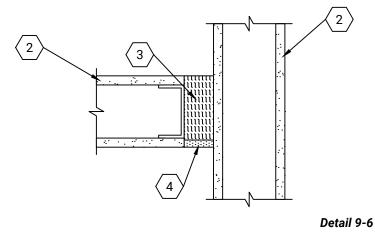


Detail 9-4

1/4" (6.4 mm) Thickness - Both Sides of Wall



1/2" (12.7mm) Thickness - One Side of Wall



- 1 Non-Rated Gypsum Assembly
- 2 Non-Rated Gypsum Wall
- 3 Fiberglass Batt Insulation or Mineral Wool Batt Insulation
- 4 SpecSeal® Smoke 'N' Sound Sealant



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

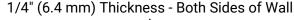
Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• F: techserv@stifireston.com • www.stifireston.com

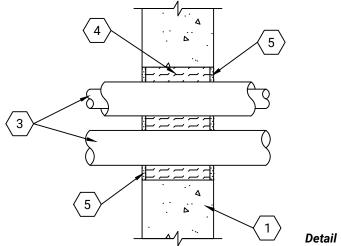
All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 9 of 16

Concrete Through-Penetrations

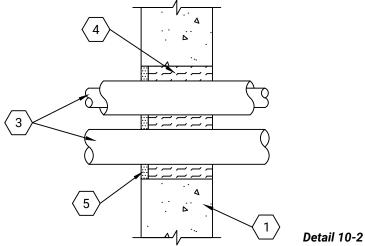




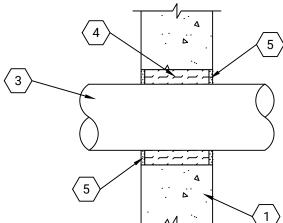
1/4" (6.4 mm) Thickness - Both Sides of Wall

Detail 10-1

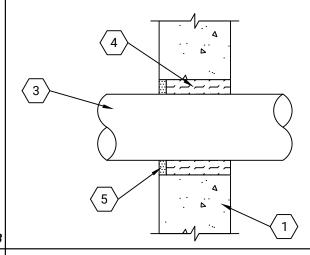
1/2" (12.7mm) Thickness - One Side of Wall



1/2" (12.7mm) Thickness - One Side of Wall

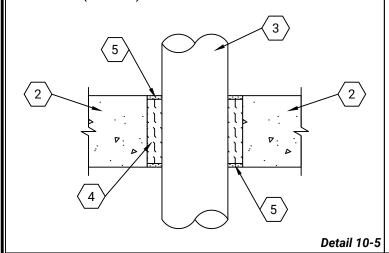


Detail 10-3

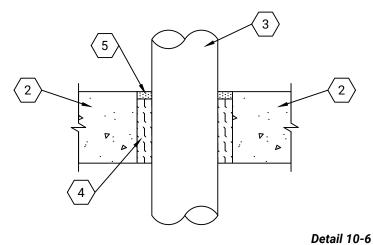


Detail 10-4

1/4" (6.4 mm) Thickness - Both Sides of Wall



1/2" (12.7mm) Thickness - Top Side of Floor



5 SpecSeal® Smoke 'N' Sound Sealant

- Non-Rated Concrete and Concrete Block Wall
- Non-Rated Concrete Floor
- **Through Penetrant**
- Fiberglass Batt Insulation or Mineral Wool Batt Insulation



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415

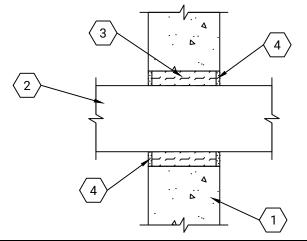
All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 10 of 16

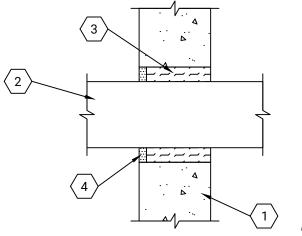
Concrete Through-Penetrations





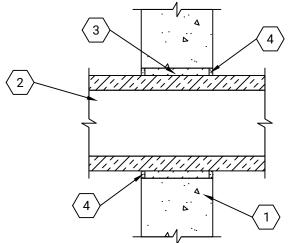
Detail 11-1

1/2" (12.7mm) Thickness - One Side of Wall

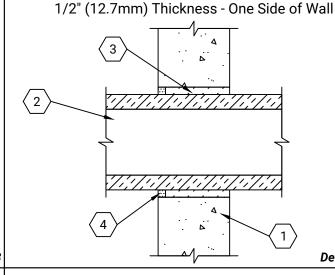


Detail 11-2

1/4" (6.4 mm) Thickness - Both Sides of Wall

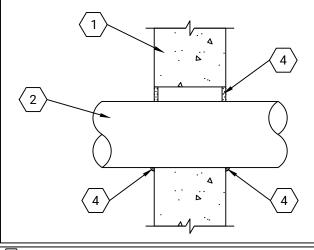


Detail 11-3



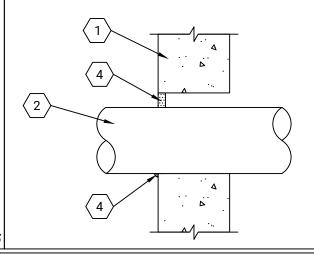
Detail 11-4

1/4" (6.4 mm) Thickness - Both Sides of Wall



Detail 11-5

1/2" (12.7mm) Thickness - One Side of Wall



Detail 11-6

- \langle 1 angle Non-Rated Concrete and Concrete Block Wall
- $\overline{2}$ Through Penetrant
- 3 Fiberglass Batt Insulation or Mineral Wool Batt Insulation
- 4 > SpecSeal® Smoke 'N' Sound Sealant



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

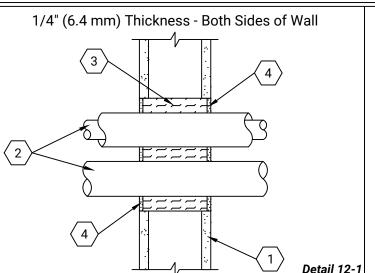
Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• E: techsery@stifirestop.com • www.stifirestop.com

All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

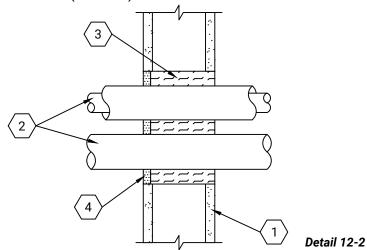
ZIS1267 3082

Pg 11 of 16

Gypsum Board Through-Penetrations



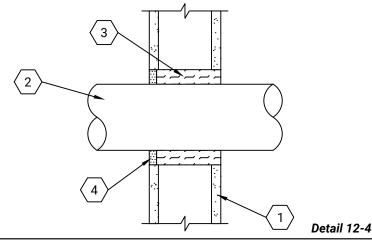
1/2" (12.7mm) Thickness - One Side of Wall



1/4" (6.4 mm) Thickness - Both Sides of Wall

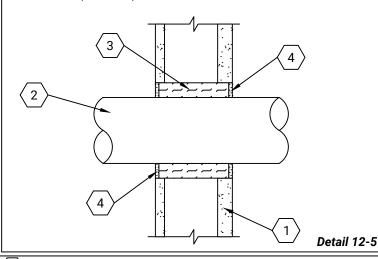
2

1/2" (12.7mm) Thickness - One Side of Wall

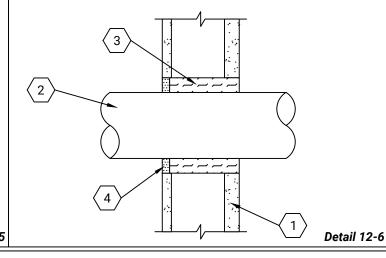


1/4" (6.4 mm) Thickness - Both Sides of Wall

Detail 12-3



1/2" (12.7mm) Thickness - One Side of Wall



- Non-Rated Gypsum Wall or Gypsum Shaft Wall
- 2 Through Penetrant
- Fiberglass Batt Insulation or Mineral Wool Batt Insulation
- 4 > SpecSeal® Smoke 'N' Sound Sealant



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• E: techserv@stifirestop.com • www.stifirestop.com

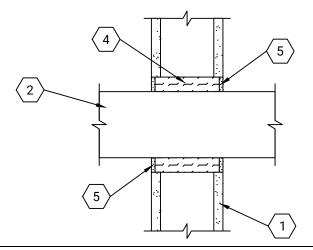
All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

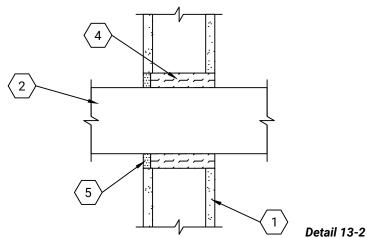
Pg 12 of 16

Gypsum Board Through-Penetrations

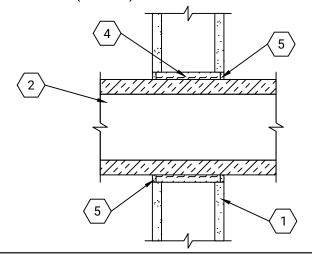
1/4" (6.4 mm) Thickness - Both Sides of Wall



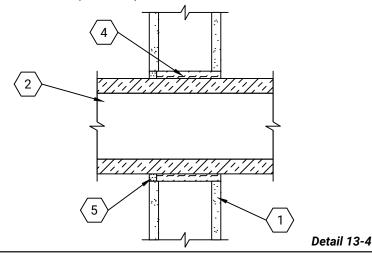
1/2" (12.7mm) Thickness - One Side of Wall



1/4" (6.4 mm) Thickness - Both Sides of Wall

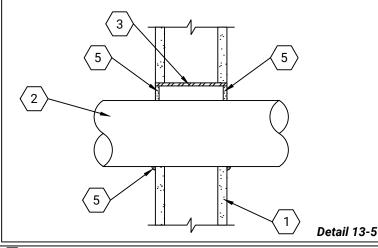


1/2" (12.7mm) Thickness - One Side of Wall

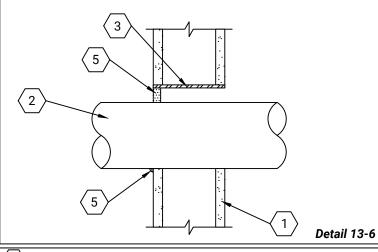


1/4" (6.4 mm) Thickness - Both Sides of Wall

Detail 13-3



1/2" (12.7mm) Thickness - One Side of Wall



1 Non-Rated Gypsum Wall

- 2 Through Penetrant
- 3 Sleeve (Optional)
- 4 Fiberglass Batt Insulation or Mineral Wool Batt Insulation

Specified STL Technologies Inc.

210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

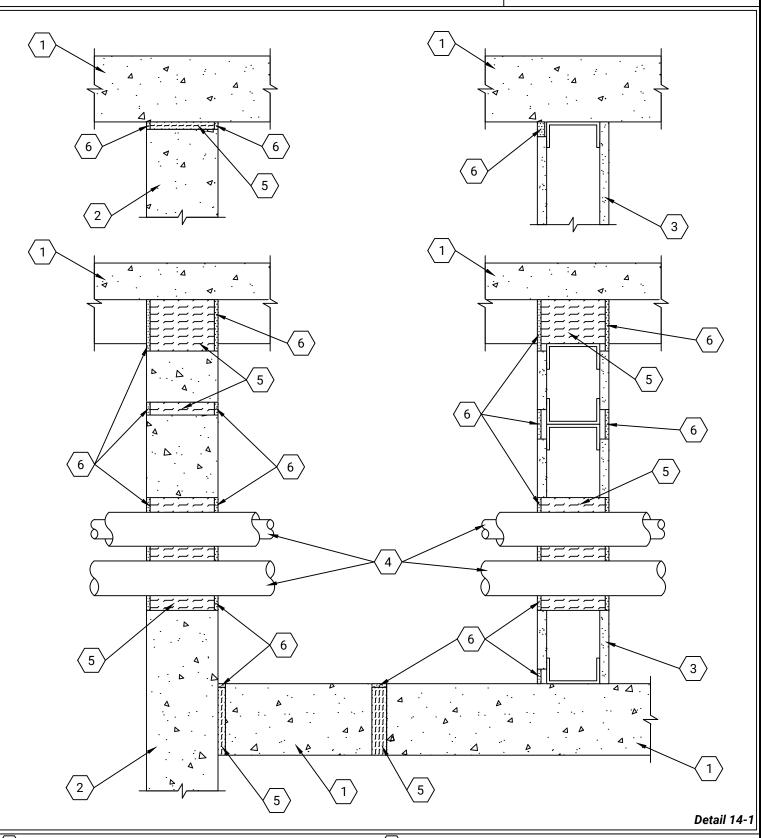
Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• F: techserv@stifireston.com • www.stifireston.com

5 SpecSeal® Smoke 'N' Sound Sealant

All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 13 of 16



- (1) Concrete Floor
- 2 Non-Rated Concrete and Concrete Block Wall
- 3 Non-Rated Gypsum Wall
- 4 Through Penetrant

- 5 Fiberglass Batt Insulation or Mineral Wool Batt Insulation
- 6 SpecSeal® Smoke 'N' Sound Sealant



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

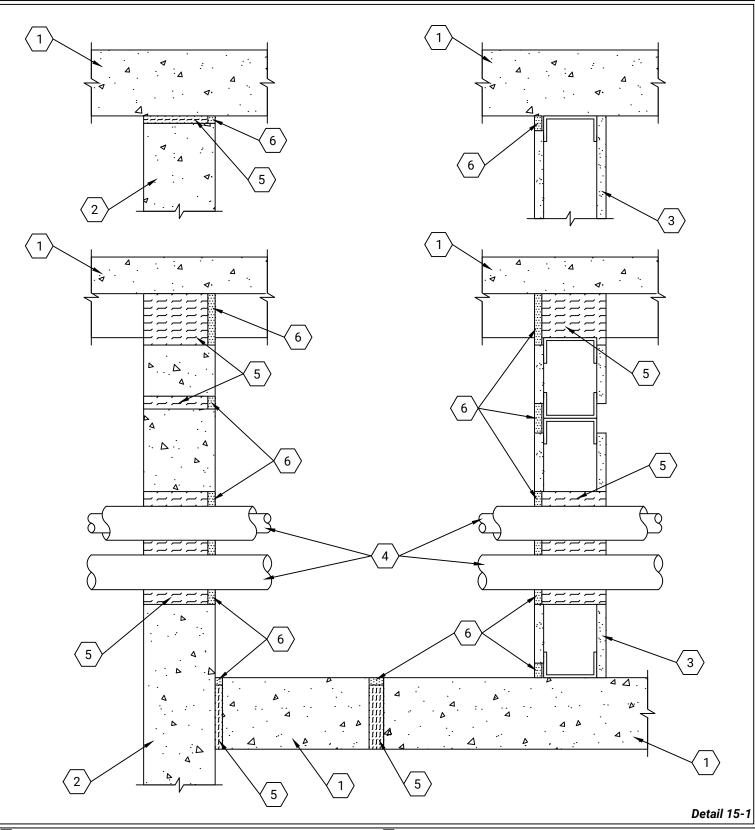
Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• E: techsery@stifirestop.com • www.stifirestop.com

All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

Pg 14 of 16

Sealant Applied on One Side of Wall



- (1) Concrete Floor
- 2 Non-Rated Concrete and Concrete Block Wall
- 3 Non-Rated Gypsum Wall
- 4 Through Penetrant

- 5 Fiberglass Batt Insulation or Mineral Wool Batt Insulation
 - $\overbrace{6}$ SpecSeal8 Smoke 'N' Sound Sealant



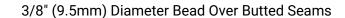
210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

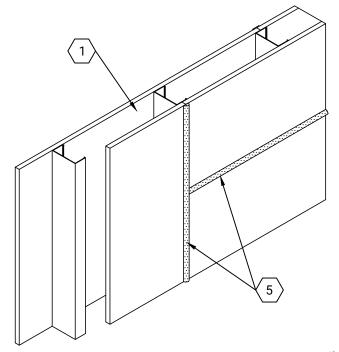
Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415 • E: techserv@stifirestop.com • www.stifirestop.com All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

ZIS1267 3082

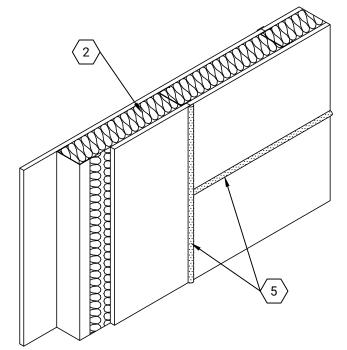
Pg 15 of 16

Non-Rated Gypsum Board to Gypsum Board Joints





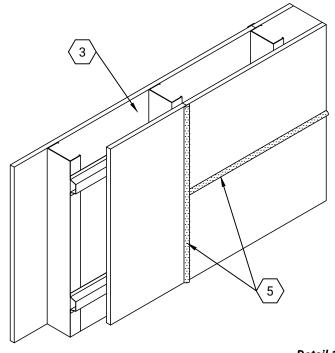
Detail 16-1



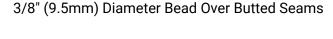
3/8" (9.5mm) Diameter Bead Over Butted Seams

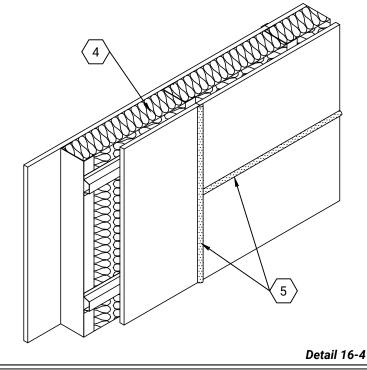
Detail 16-2

3/8" (9.5mm) Diameter Bead Over Butted Seams



Detail 16-3





1 Non-Rated Gypsum Wall

- 2 Non-Rated Gypsum Wall with Insulated Stud Cavities
- 3 Non-Rated Gypsum Wall with Resilient Channels
- 4) Non-Rated Gypsum Wall with Insulated Stud Cavity and Resilient Channels



210 Evans Way Somerville, NJ 08876 USA www.stifirestop.com

Toll Free: 800-992-1180 • T: +1 908-526-8000 • F: +1 908-231-8415
• F: techserv@stifireston.com • www.stifireston.com

All statements, technical information, and recommendations contained herein are based upon tests we believe to be accurate; however since the conditions of use and application are beyond our control, STI shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. STI's sole warranty shall be to refund or replace materials found to be defective.

5 SpecSeal® Smoke 'N' Sound Sealant

ZIS1267 3082

Pg 16 of 16