



Wall Sections STC

Solution Guide

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OVERVIEW

DIRTT Walls can be specified to meet a required acoustic Sound Transmission Class (STC) rating as outlined in this guide. The listed STC ratings are for wall configurations that were tested in a controlled laboratory environment in accordance with ASTM E90. It is understood that there will be a reduction in the actual STC performance of these configurations depending on the surrounding environment and base building connections. Any modifications to the DIRTT Wall configuration listed in this guide, will result in deviation of STC performance.

If you have any questions, please contact info@dirtt.com.

NOTE: This document may contain images that are render representations of DIRTT.

General Comments

- Throughout many lab tests DIRTT found very subtle deviation of performance between fiberglass batt insulation and cotton fiber insulation with similar configurations. Interchangeability of material should net similar performance.
- Segmentation of wall panels provide additional paths for sound loss. During third party lab tests the DIRTT Solid Wall performance dropped 3 STC points when two back-to-back horizontal reveals were added on each side of the assembly. These horizontal reveals were introduced at heights to simulate typical locations for hung overhead cabinets (69" (1.75m) AFF) and work surfaces (30" (762mm) AFF). If the cabinets overlap either of the horizontal reveals this performance drop may not be recognized.
- The addition of Optifillers in all panel reveals on both sides of the wall will restore most of the STC loss resulting from face panel segmentation, and more resemble the performance of monolithic panels.
- Electrical box penetrations will decrease STC performance in most assemblies (including conventionally built walls); use of putty pads and/or foam gasket around electrical boxes will improve performance.
- Adding insulation at perimeter extrusions and sealing the perimeter of DIRTT walls at base building connections, referred to as "**Perimeter Seals***", is required to optimize acoustic performance as indicated by the tables in this document and has been incorporated into most of the tested assemblies.

***NOTE: Perimeter Seals are referred to as perimeter enhancements within third party lab reports.**

TERMINOLOGY

ACRONYMS

Acronym	Description
AFF	Above Finish Floor
CCF	Closed Cell Foam
MDF	Medium Density Fiberboard
MgO	Magnesium Oxide
PVB	Polyvinyl Butyral Interlayer between glass lites of laminated glass

ACOUSTIC ACRONYMS. TERMS AND DEFINITIONS

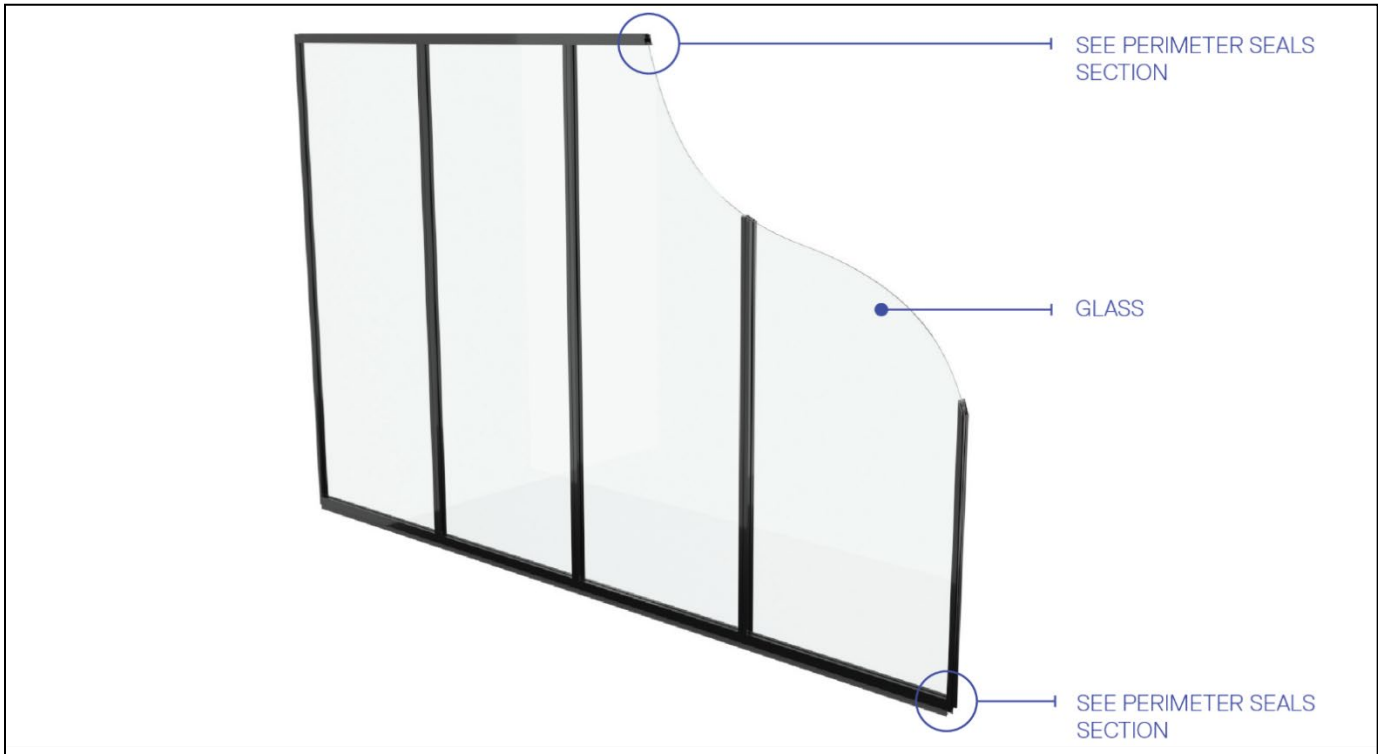
Acronym	Description
STC	Sound Transmission Class is a lab test measurement of the amount of sound that passes through a vertical assembly. The higher the STC rating, the better it blocks sound between rooms.



GLASS WALLS

Inspire™ Glass Walls

STC Range: Dependent on Glass Performance





Inspire Glass Wall STC Range: 33 – 38

STC RESULTS / REFERENCE		BASE CONDITION VARIABLE	GLASS VARIABLE	PERIMETER CONNECTION VARIABLE	WALL STYLE	FRAME-TO-FRAME SEAL	GLASS-TO-FRAME SEAL			
STC	Report	Insulated	Glass (approximate material STC)	Perimeter Seals	Monolithic	Uni-zipper / Enzo Zipper	Unizipper / Enzo Zipper and Foam Backer Rod	Standard Glass Wipes	Closed Cell Foam (applied to all edges of glass prior to assembly)	Continuous Silicone Seal (both sides of frame)
33	OC Report A21013	X	G7 (34)	X	X	X			X	
33	OC Report A21013	X	G7 (34)	X	X	X			X	
33	OC Report A21011	X	G8 (39)	X	X	X		X		
36	OC Report A21011	X	G8 (39)	X	X	X				X
38	OC Report A21011	X	G8 (39)	X	X		X			X

NOTES:

- STC performance of assemblies with similar glass thickness and STC performance of interior glass elements should perform similarly overall.
- Stick-built Glass Wall Assemblies must employ $\frac{3}{8}$ " (10mm) or thicker glass. DIRTT offers PVC Glass Wipes for all glass thickness and types with exception of $\frac{1}{2}$ " (12mm) laminated glass. $\frac{1}{2}$ " (12mm) laminated glass thickness will not fit in the $\frac{1}{2}$ " (12mm) glass wipe due to PVB interlayer thickness; contact DIRTT for implementation options if ($\frac{1}{2}$ " (12mm) laminate glass is required.
- Single Pane Glass Wall Assemblies** are limited by the STC performance of the glass material itself. DIRTT Glass Walls will generally test 2-4 STC points less than the reported STC performance of the glass material used within the assemblies. This is because of frame-to-frame and frame-to-base building connections and glass engagement into DIRTT's PVC Glass Wipes. **For example, when $\frac{1}{4}$ " (6mm) Clear Tempered Glass is used as the only pane in a single glass wall assembly, expected performance should be 27-29 STC if the glass material is reported at a 31 STC.**
NOTE: Thicker glass performs better than thinner glass and laminate glass performs better than tempered glass (typically).
- Stick-built glass is sourced by the DIRTT partner locally** and needs to ensure the performance of the glass meets the STC requirements.

GLASS SCHEDULE

G7 $\frac{3}{8}$ " (10mm) Clear Tempered Glass

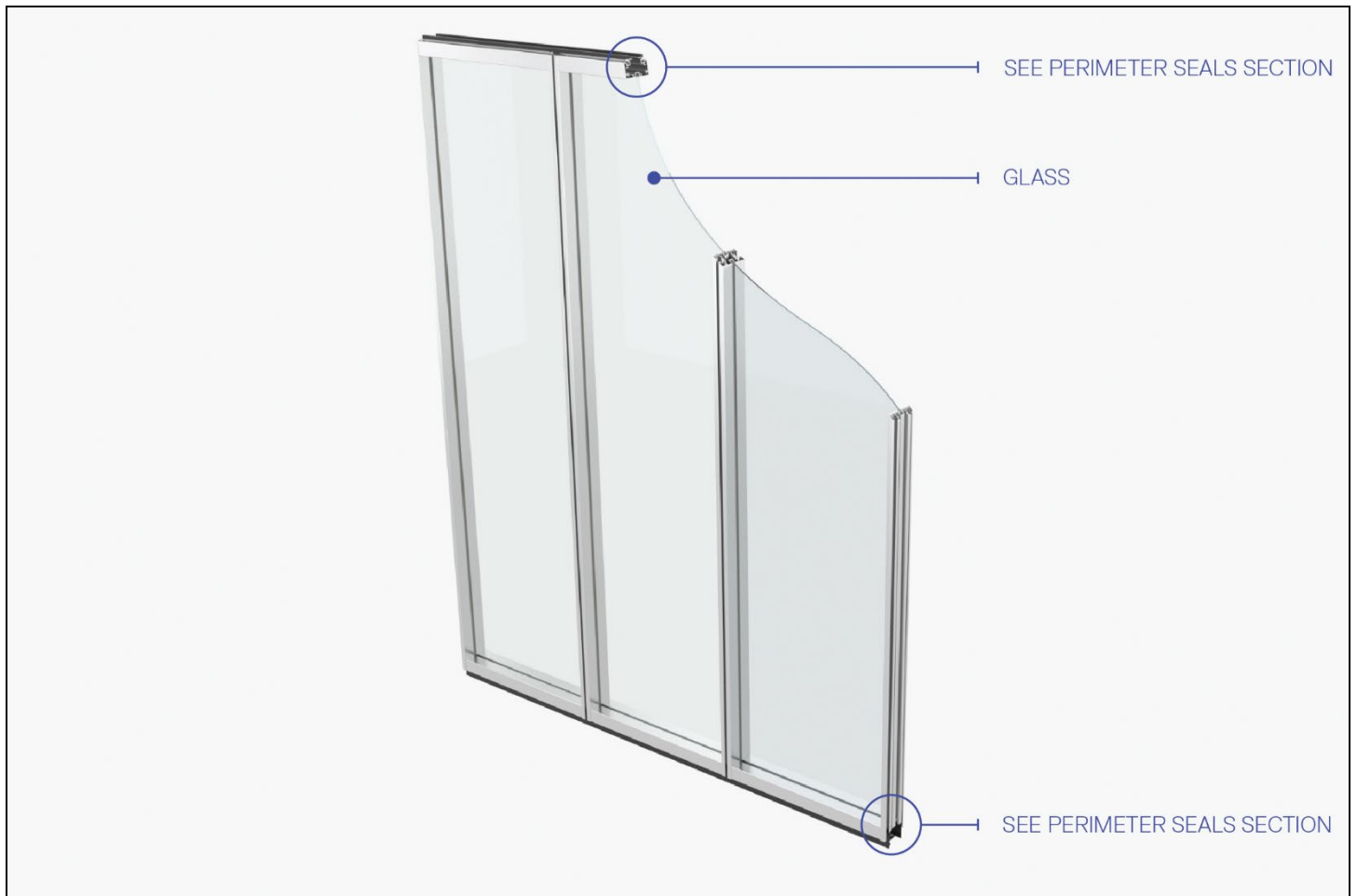
G8 $\frac{1}{2}$ " (12mm) Clear Laminated Glass with 0.030" SonicGuard PVB Interlayer (Vitrum Glass)

Glass STC is generally determined through testing in accordance with ASTM E90 and type and thickness generally weigh into the equation. Please confirm STC performance of each glass material considered prior to order placement to ensure any performance criteria is met. STC performance of glass type and thickness may vary from manufacturer to manufacturer based on material composition and added inter layers.



Classic Glass Walls (Center Mount)

STC Range: Dependent on Glass Performance





Classic Glass Wall STC Range: 30 – 35

STC RESULTS / REFERENCE		BASE CONDITION VARIABLE	GLASS VARIABLE	PERIMETER CONNECTION VARIABLE	WALL STYLE	FRAME-TO- FRAME SEAL	GLASS-TO- FRAME SEAL	
STC	Report	Insulated	Glass (approximate material STC)	Perimeter Seals	Monolithic	Uni-zipper	Standard Glass Wipes (no treatment)	Continuous Silicone Seal (both sides of frame)
30	OC Report A21002	X	G7 (34)	X	X	X	X	
32	OC Report A21009	X	G7 (34)	X	X	X		X
35	MEANU 17-02-G2	X	G4 (37)	X	X	X	X	

Notes:

- STC performance of assemblies with similar glass thickness and STC performance of interior glass elements should perform similarly overall.
- Stick-built Glass Wall Assemblies must employ $\frac{3}{8}$ " (10mm) or thicker glass. DIRTT offers PVC Glass Wipes for all glass thickness and types with exception of $\frac{1}{2}$ " (12mm) laminated glass. $\frac{1}{2}$ " (12mm) laminated glass thickness will not fit in the $\frac{1}{2}$ " (12mm) glass wipe due to PVB interlayer thickness.
- Single Pane Glass Wall Assemblies** are limited by the STC performance of the glass material itself. DIRTT Glass Walls will generally test 2-4 STC points less than the reported STC performance of the glass material used within the assemblies. This is because of frame-to-frame and frame-to-base building connections and glass engagement into DIRTT's PVC Glass Wipes. **For example, when $\frac{1}{4}$ " (6mm) Clear Tempered Glass is used as the only pane in a single glass wall assembly, expected performance should be 27-29 STC if the glass material is reported at a 31 STC.**
NOTE: Thicker glass performs better than thinner glass and laminate glass performs better than tempered glass (typically).
- Stick-built glass is sourced by the DIRTT partner locally** and needs to ensure the performance of the glass meets the STC Requirements.

GLASS SCHEDULE

- | | |
|----|--|
| G4 | $\frac{3}{8}$ " (9mm) Clear Laminated Glass with .030" Sonic Guard PVB interlayer (Vitrum Glass) |
| G7 | $\frac{3}{8}$ " (10mm) Clear Tempered Glass |

Glass STC is generally determined through testing in accordance with ASTM E90 and type and thickness generally weigh into the equation. Please confirm STC performance of each glass material considered prior to order placement to ensure any performance criteria is met. STC performance of glass type and thickness may vary from manufacturer to manufacturer based on material composition and added inter layers.



Double Pane Glass Walls (Evil Twin)

STC Range: Dependent on Glass Performance





4" Double Glass Wall STC Range: 37 – 46

STC RESULTS / REFERENCE		BASE CONDITION VARIABLE	GLASS VARIABLE		PERIMETER CONNECTION VARIABLE	WALL STYLE	FRAME-TO- FRAME SEAL
STC	Report	Insulated	Side One Material (approximate material STC)	Side Two Material (approximate material STC)	Perimeter Seals	Monolithic	Uni-zipper
37	MEANU 09-05C (J)	X	G1 (31)	G1 (31)	X	X	X
38	OC Report A20006	X	G7 (34)	G7 (34)	X	X	X
39	MEANU 09-05C (I)	X	G2 (33)	G3 (36)	X	X	X
46	OC Report A20002	X	G6 (38)	G5 (35)	X	X	X
46	OC Report A20005	X	G6 (38)	G6 (38)	X	X	X

Notes:

- STC performance of assemblies with similar glass thickness and STC performance of interior glass elements should perform similarly overall.
- STC performance of double glass wall assemblies increases with dissimilar glass thicknesses on either side of the air gap.
- Stick-built (butt joint) Glass Wall Assemblies must employ $\frac{3}{8}$ " (10mm) or thicker glass. DIRTT offers PVC Glass Wipes for all glass thickness and types with exception of $\frac{1}{2}$ " (12mm) laminated glass. $\frac{1}{2}$ " (12mm) laminated glass thickness will not fit in the $\frac{1}{2}$ " (12mm) glass wipe due to PVB interlayer thickness.
- Stick-built glass is sourced by the DIRTT partner locally** and needs to ensure the performance of the glass meets the STC Requirements.

GLASS SCHEDULE

G1	$\frac{1}{4}$ " (6mm) Clear Tempered Glass
G2	$\frac{1}{4}$ " (6mm) Clear Laminated Glass with .015" PVB Interlayer (Glass with 0.15" PVB interlayer not to be used for Safety Glass)
G3	$\frac{3}{8}$ " (10mm) Clear Laminated Glass with .015" PVB Interlayer (Glass with 0.15" PVB interlayer not to be used for Safety Glass)
G5	$\frac{1}{4}$ " (6mm) Clear Laminated Glass with .030" Sonic Guard PVB interlayer (Vitrum Glass)
G6	$\frac{3}{8}$ " (10mm) Clear Laminated Glass with .030" Sonic Guard PVB interlayer (Vitrum Glass)
G7	$\frac{3}{8}$ " (10mm) Clear Tempered Glass

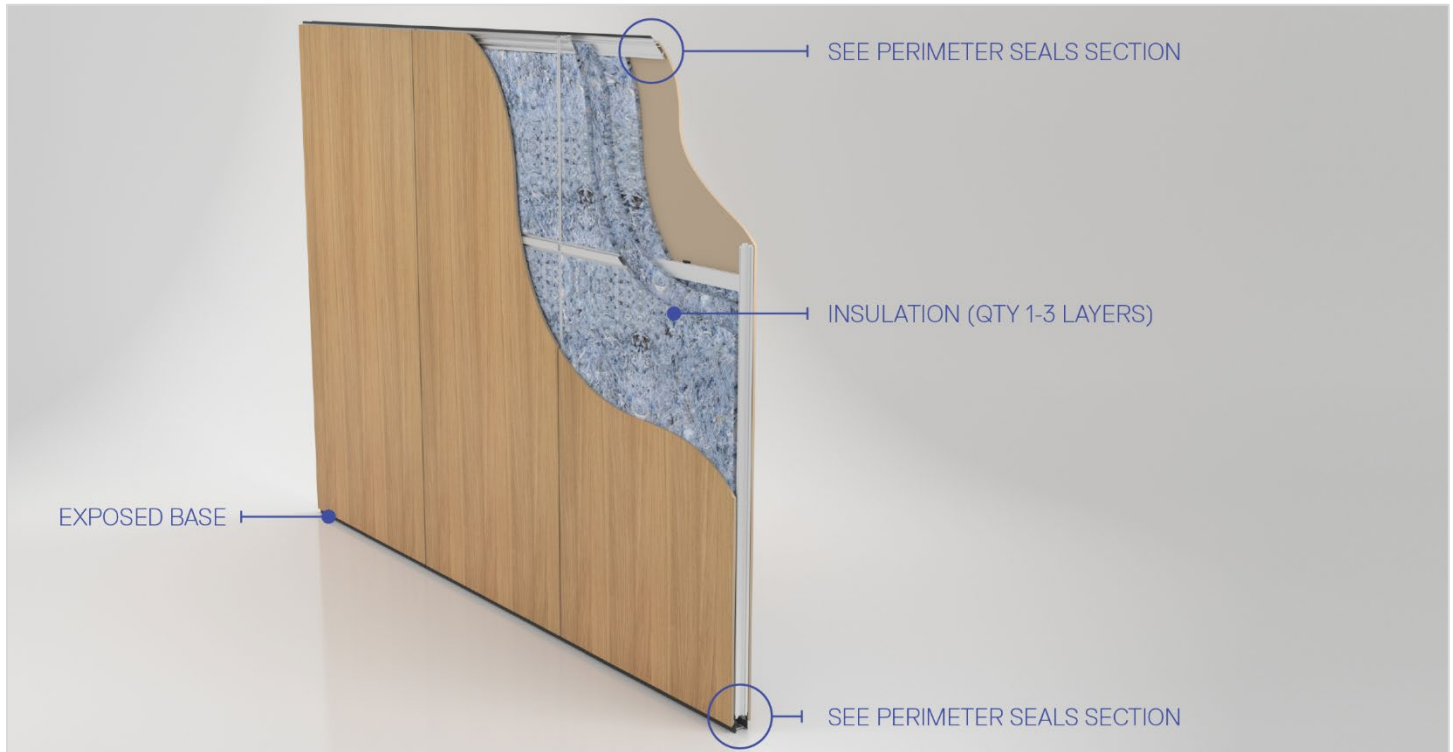
Glass STC is generally determined through testing in accordance with ASTM E90 and type and thickness generally weigh into the equation. Glass specifier must confirm STC performance of each glass material considered prior to order placement to ensure any performance criteria is met. STC performance of glass type and thickness may vary from manufacturer to manufacturer based on material composition and added inter layers.



SOLID WALLS

4" Solid Wall

STC Range: 38 - 51





4" Solid Wall STC Range: 38 – 51

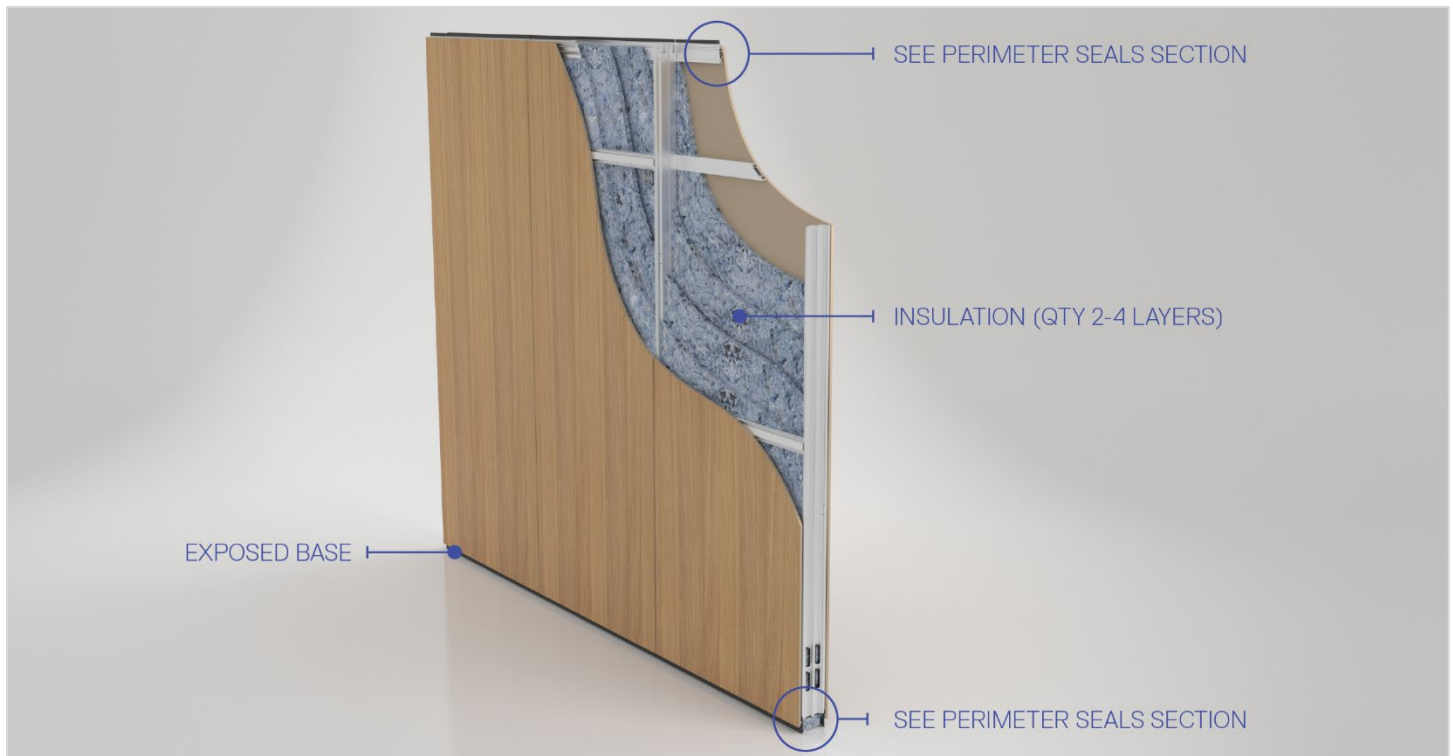
	STC RESULTS / REFERENCE	BASE CONDITION VARIABLE	INSULATION VARIABLE	PERIMETER CONNECTION VARIABLE	WALL PANEL SUBSTRATE VARIABLE	WALL STYLE	PANEL-TO- PANEL SEAL						
STC	Report	Exposed Base	Scribed Panel to Floor at Base	Layers Of 1" Fiberglass Insulation	Layers Of 1" Cotton Fiber Insulation	Perimeter Seals	Unsealed Perimeter	½" MDF	½" MDF with Magnetic Markerboard Finish Exposed Face	Monolithic	Segmented	Uni-zipper or Solid Wall Receiver Zipper	Two-part Solid Wall Receiver Zipper + Solid Wall Vertical Gasket
38	MEANU 14-03-S1 (S1c) MEANU 14-03-S2 (S2a)	X			1		X	X		X		X	
39	MEANU 14-03-S2 (S2b)	X			3		X	X		X		X	
39	OC Report 20-0116		X		0	X		X		X		X	
40	MEANU 09-05E (8)	X		1		X		X		X		X	
42	MEANU 14-03-S3 (S3a)	X			1	X		X		X		X	
43	MEANU 14-03-S3 (S3b)	X			2	X		X		X		X	
44	MEANU 09-05E (7)	X		2		X		X		X		X	
44	OC Report 22-0113	X			1	X		X			X	X	
45	MEANU 14-03-S3 (S3c)	X			3	X		X		X		X	
45	MEANU 14-03-S4 (S4a)	X			3	X			X	X		X	
45	MEANU 09-05 (C)		X	2		X		X		X		X	
45	OC Report 22-0114		X		1	X		X			X	X	
46	OC Report 22-0113	X			2	X		X			X	X	
47	OC Report 22-0113	X			3	X		X			X	X	
47	OC Report 22-0114		X		2	X		X			X	X	
48	OC Report 22-0114		X		3	X		X			X	X	
48	OC Report 22-0115		X		1	X		X			X		X
49	OC Report 22-0115		X		2	X		X			X		X
50	OC Report 22-0115		X		3	X		X			X		X
51	OC Report 20-0116		X		3	X		X		X		X	

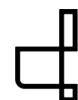
Legend: (S) = Source Side, (R) = Receiver Side



6" Solid Wall

STC Range: 44 - 53





6" Solid Wall STC Range: 44 – 53

STC RESULTS / REFERENCE		BASE CONDITION VARIABLE	INSULATION VARIABLE	SEPTUM VARIABLE	PERIMETER CONNECTION VARIABLE	WALL PANEL SUBSTRATE VARIABLE	WALL STYLE	PANEL- TO- PANEL SEAL				
STC	Report	Exposed Base	Scribed Panel to Floor at Base	Layers Of 1" Cotton Fiber Insulation	None	½" MgO	Perimeter Seals	½" MDF	Monolithic	Segmented	Uni-zipper or Solid Wall Receiver Zipper	Two-part Solid Wall Receiver Zipper + Solid Wall Vertical Gasket
44	MEANU 1902-B4	X		4	X		X	X	X			X
45	MEANU 1902-B3	X		4	X		X	X	X		X	
46	MEANU 1902-B5		X	2	X		X	X	X		X	
47	MEANU 1902-B2		X	4	X		X	X	X		X	
47	MEANU 1902-B1		X	4	X		X	X	X			X
47	MEANU 1902-C3		X	4	X		X	X		X	X	
49	MEANU 1902-D5	X		4		X	X	X		X	X	
51	MEANU 1902-D4	X		4		X	X	X		X		X
51	MEANU 1902-D3		X	4		X	X	X		X		X
53	OC Report 20-0116		X	4	X		X	X	X		X	

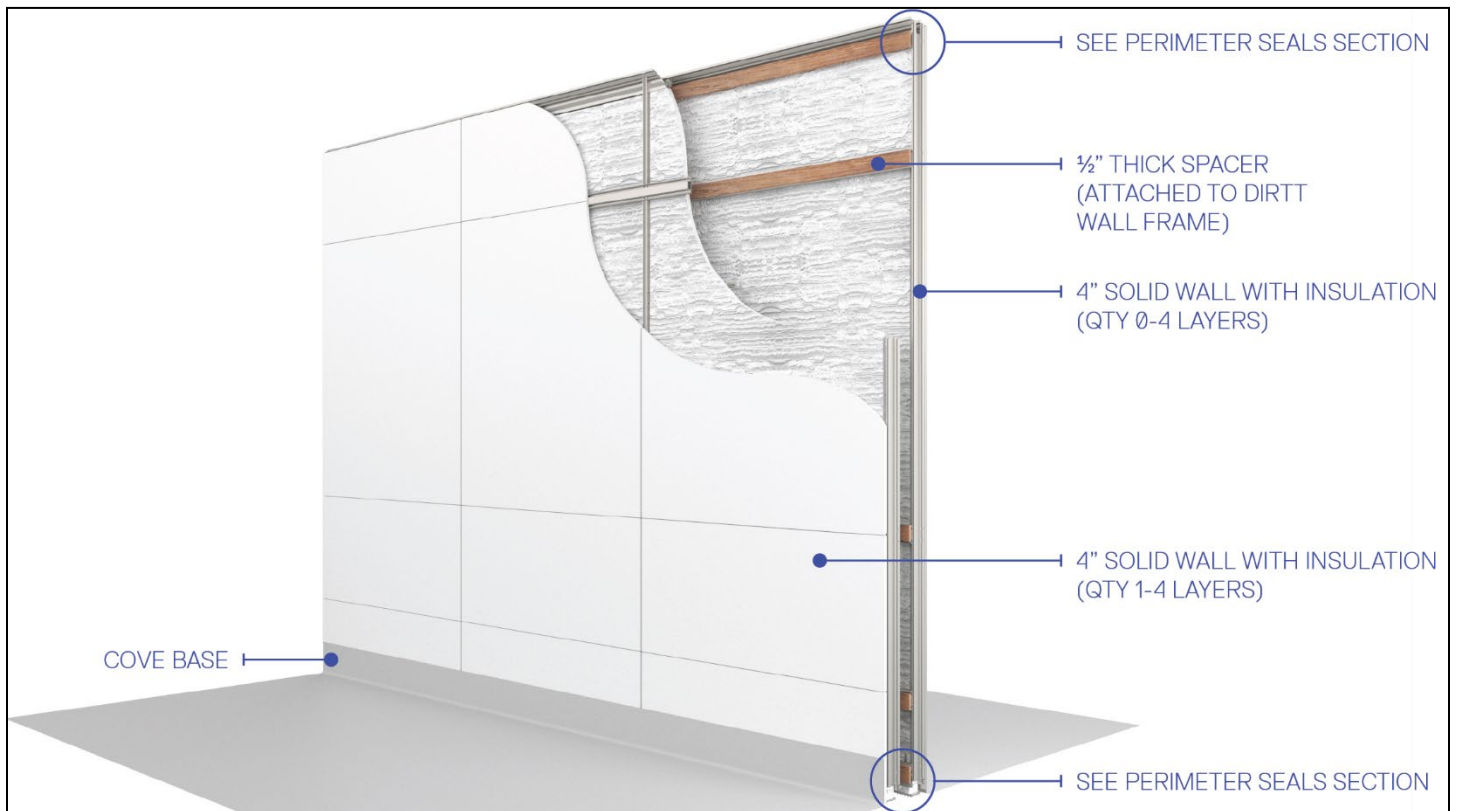


SPECIAL WALL ASSEMBLIES

4" Back-to-Back Wall Assembly with No Septum

8" THICK ASSEMBLY

STC Range: 56 - 58





4" Back-to-Back Wall with No Septum (8" Thick Assembly) STC Range: 56 - 58

STC RESULTS / REFERENCE		BASE CONDITION VARIABLE	INSULATION VARIABLE		PERIMETER CONNECTION VARIABLE	DEVICE PENETRATIONS	WALL PANEL SUBSTRATE VARIABLE	WALL STYLE	PANEL- TO- PANEL SEAL		
STC	Report	Scribed Panel to Floor at Base	Total Layers 1" Thick TRS PST		Layer of 1" Thick TRS PST (Side One)	Layers of 1" Thick TRS PST (Side Two)	Perimeter Seals	None	1/2" MDF	Segmented	Optifiller
56	Meanu Report 15-06-E	X	1	1	1	X	X	X	X	X	X
56	Meanu Report 15-06-E	X	3	1	1	X	X	X	X		
58	Meanu Report 15-06-E	X	3	1	1	X	X	X	X	X	X

Notes:

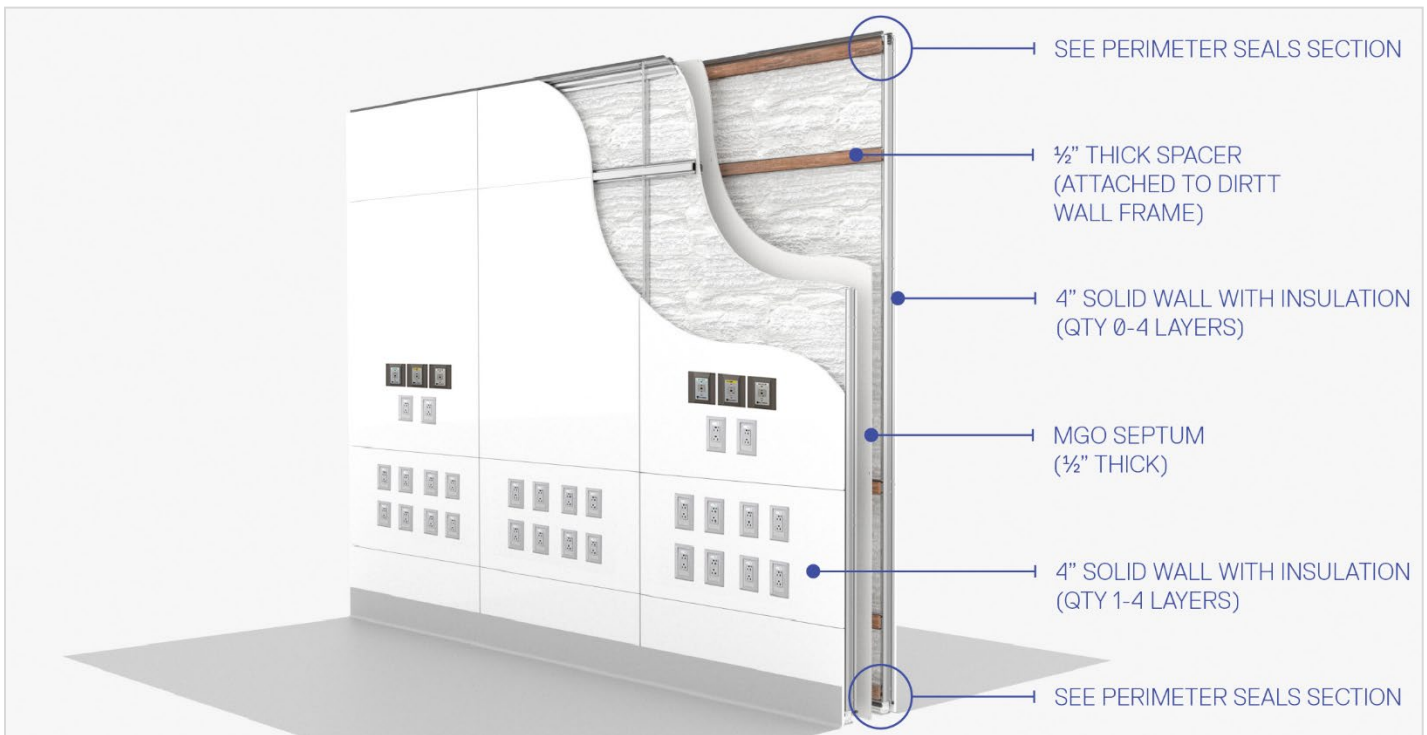
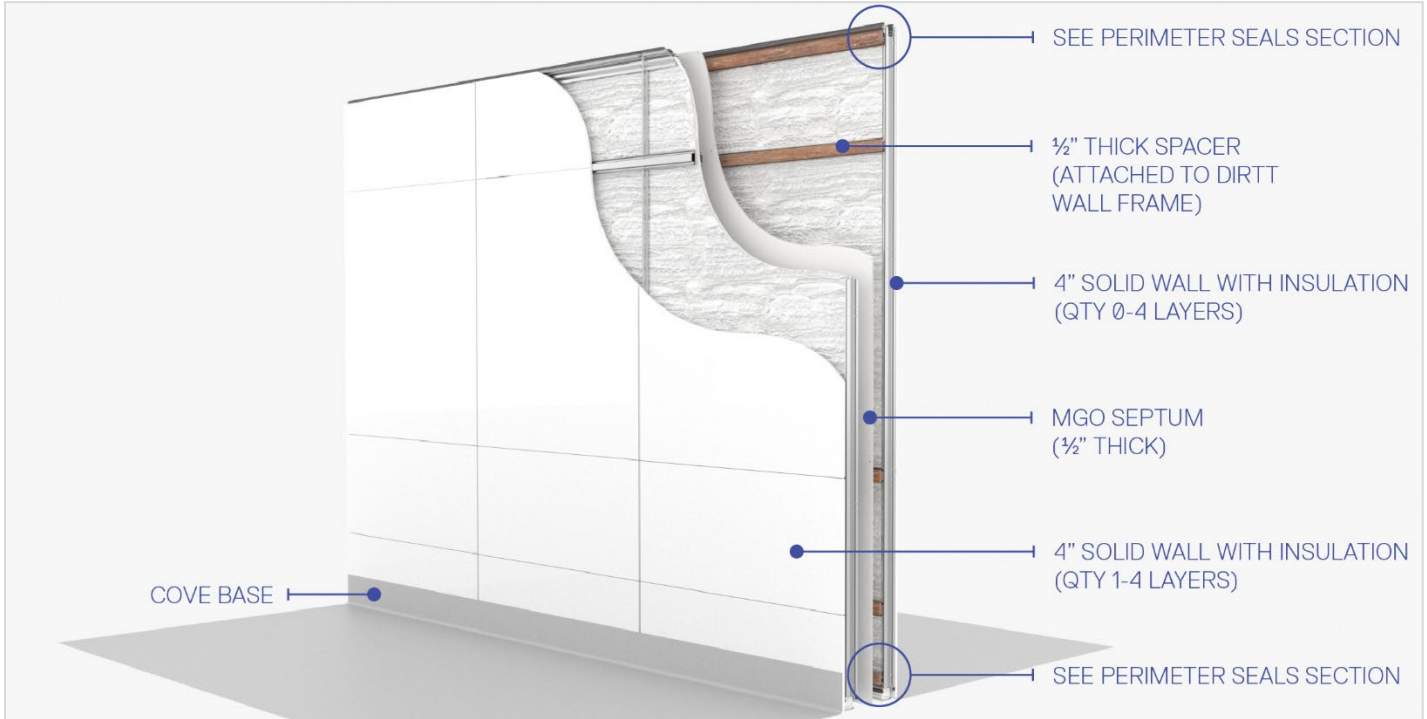
- NOT to be used for back-to-back headwalls.



4" Back-to-Back Wall Assembly with MgO Septum

8 $\frac{3}{8}$ " THICK ASSEMBLY

STC Range: 60 - 61





4" Back-to-Back Wall with MgO Septum (8 3/8" Thick Assembly) STC Range: 60 - 61

STC RESULTS / REFERENCE		BASE CONDITION VARIABLE	INSULATION VARIABLE		SEPTUM VARIABLE	PERIMETER CONNECTION VARIABLE	DEVICE PENETRATIONS	WALL PANEL SUBSTRATE VARIABLE	WALL STYLE	PANEL -TO- PANEL SEAL	
STC	Report	Scribed Panel to Floor at Base	Total Layers 1" Thick TRS PST		1/2" MgO	Perimeter Seals	None	36 Device Penetrations - One Side Only	1/2" MDF	Segmented	Optifiller
			Layer of 1" Thick TRS PST (Side One)	Layers of 1" Thick TRS PST (Side Two)							
60	OC Report A20011	X	3	2	1	X	X	X	X	X	X
61	OC Report A20011	X	4	2	2	X	X	X	X	X	X
61	OC Report A20011	X	2	1	1	X	X	X	X	X	X

Notes:

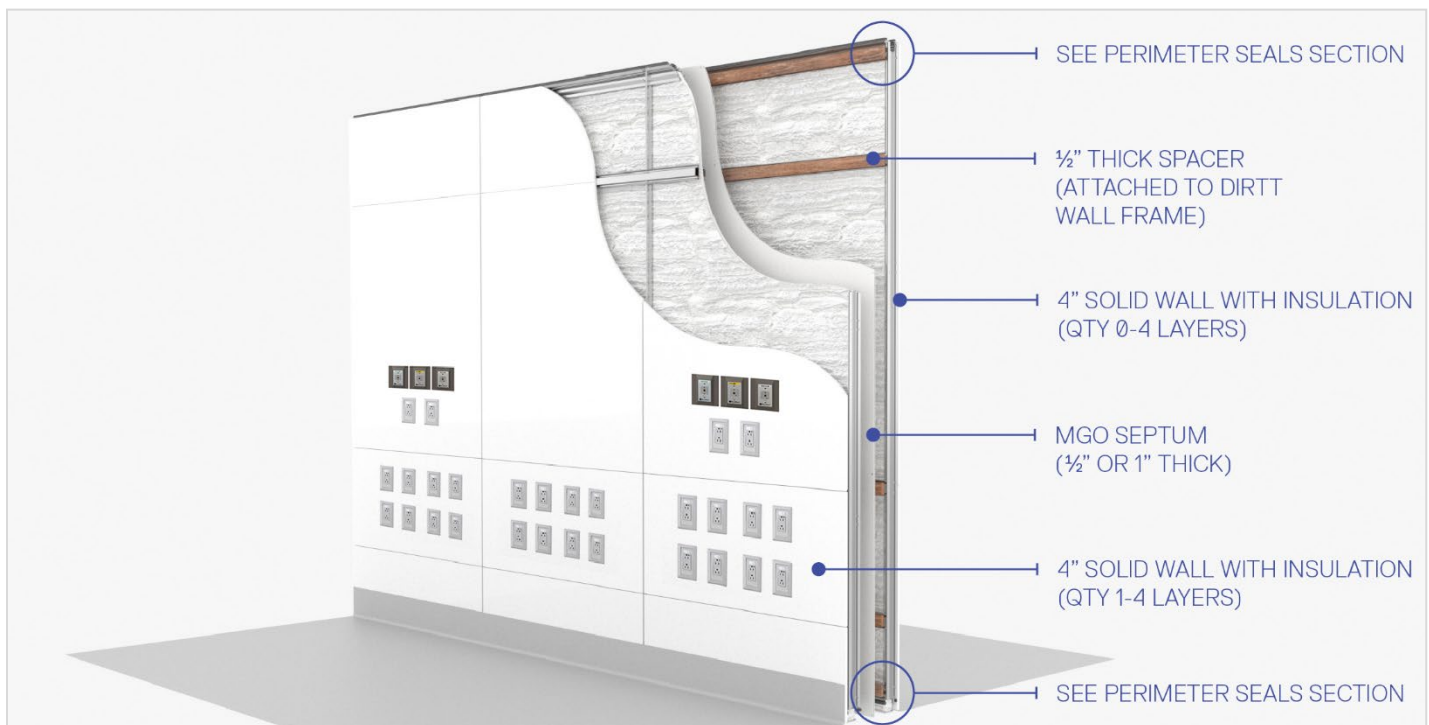
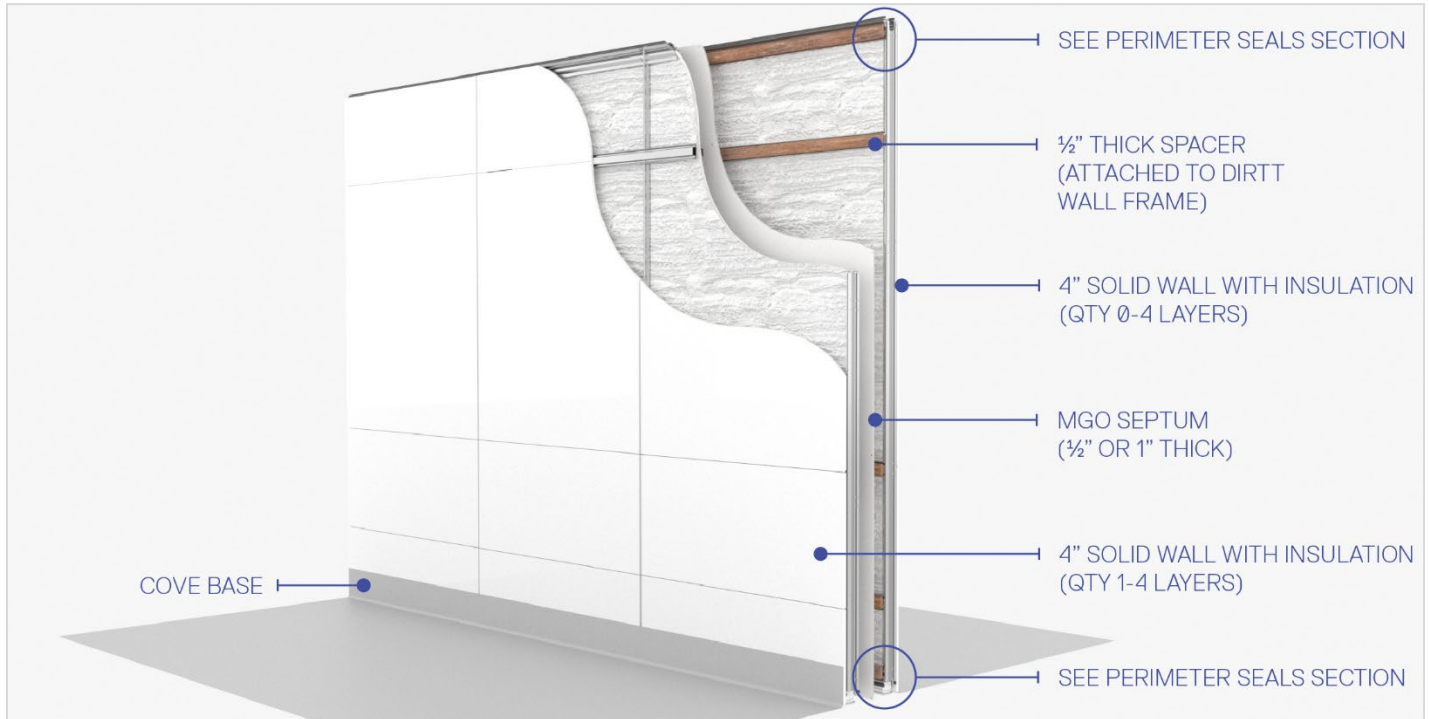
- Bottom panels were scribed and sealed to the test chamber opening with silicone.
- TRS-PST non-combustible insulation by Owens Corning was used for this testing.
- Where 4 layers of insulation were employed, 2 layers of 1" insulation were installed in each frame.
- Where 3 layers of insulation were employed, 2 layers of 1" insulation were installed in each frame containing the devices and 1 layer in the frames with no devices.
- Where 2 layers of insulation were employed, 1 layer of 1" insulation were installed in each frame.



4" Back-to-Back Wall Assembly with MgO Septum

9 ½" THICK ASSEMBLY

STC Range: 54 - 63





4" Back-to-Back Wall with MgO Septum (9 ½" Thick Assembly) STC Range: 54 - 63

STC	STC RESULTS / REFERENCE	BASE CONDITION VARIABLE	INSULATION VARIABLE	SEPTUM VARIABLE	PERIMETER CONNECTION VARIABLE	DEVICE PENETRATIONS	WALL PANEL SUBSTRATE VARIABLE	WALL STYLE	PANEL -TO- PANEL SEAL
	Report	Scribed Panel to Floor at Base	Total Layers 1" Thick TRS PST Layer of 1" Thick TRS PST (Side One) Layers of 1" Thick TRS PST (Side Two)	1" MgO ½" MgO	Perimeter Seals	None 36 Device Penetrations - One Side Only 36 Device Penetrations - Both Sides	½" MDF	Segmented	Optifiller
54	OC Report A20012	X	2 1 1	X	X	X	X	X	X
59	OC Report A20013	X	2 1 1	X	X	X	X	X	X
62	OC Report A20012	X	2 1 1	X	X	X	X	X	X
62	OC Report A20013	X	4 2 2	X	X	X	X	X	X
63	OC Report A20013	X	2 1 1	X	X	X	X	X	X
63	OC Report A20013	X	3 2 1	X	X	X	X	X	X

Notes:

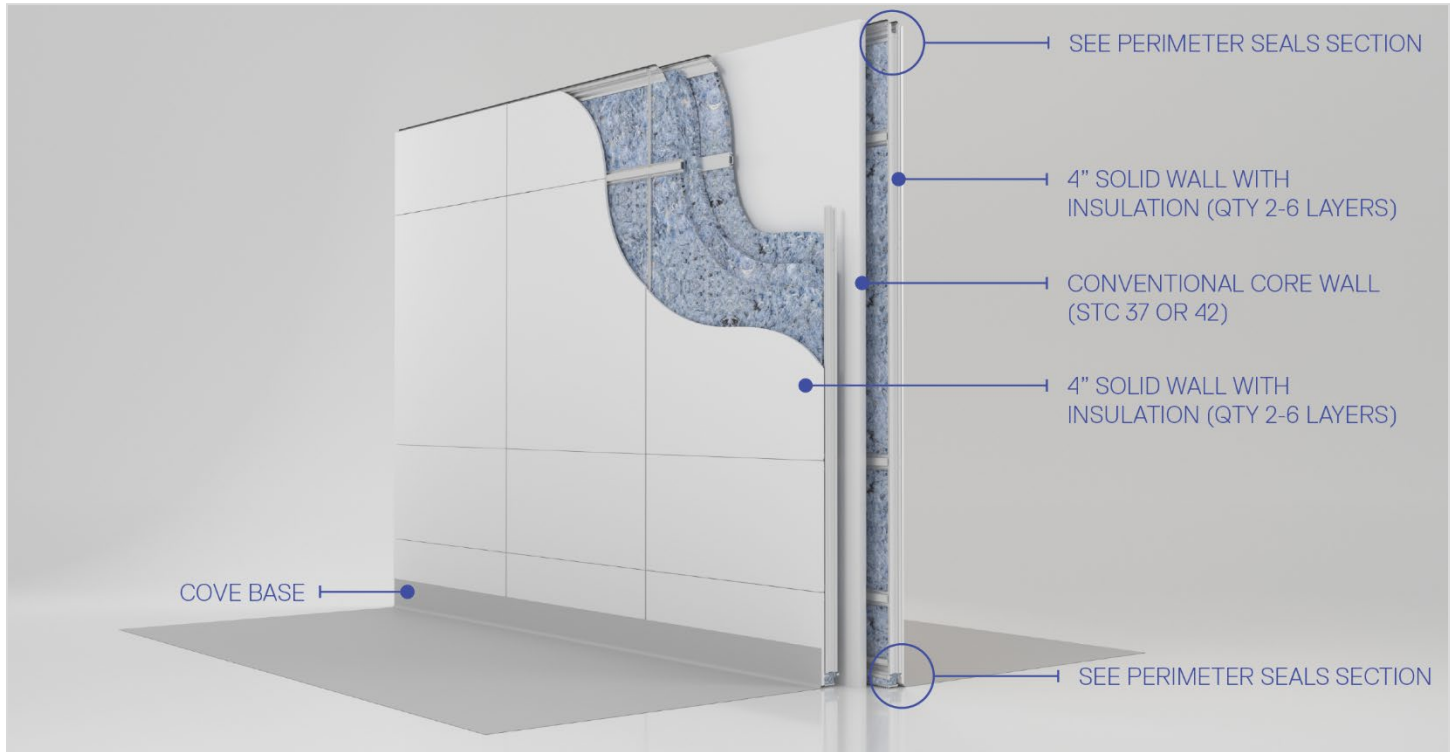
- Bottom panels were scribed and sealed to the test chamber opening with silicone.
- TRS-PST non-combustible insulation by Owens Corning was used for this testing.
- Where 4 layers of insulation were employed, 2 layers of 1" insulation were installed in each frame.
- Where 3 layers of insulation were employed, 2 layers of 1" insulation were installed in each frame containing the devices and 1 layer in the frames with no devices.
- Where 2 layers of insulation were employed, 1 layer of 1" insulation were installed in each frame.



4" Back-to-Back Wall Assembly with Conventionally Built Wall

(10 ¼" THICK ASSEMBLY)

STC: 61





4" Back-to-Back Wall with Conventionally Built Core Wall (10 ¼" Thick Assembly) STC: 61

STC RESULTS / REFERENCE	BASE CONDITION VARIABLE	INSULATION VARIABLE	CORE WALL	PERIMETER CONNECTION VARIABLE	WALL PANEL SUBSTRATE VARIABLE	WALL STYLE	PANEL- TO- PANEL SEAL
STC 61 Report MEANU 15-06-B (B2)	Scribed Panel to Floor at Base with Mock Resilient Floor Base X	Layers Of 1" Cotton Fiber Insulation 6	STC 42 X MLV on Both Sides of Core Wall Core Wall Thickness 2 ¼"	Perimeter Seals X	½" MDF X	Segmented X	Optifiller X

Notes:

- A segment of resilient flooring was applied against the bottom of the wall and chamber opening to represent a resilient cove base across both sides of the assembly.
- Where 6 layers of insulation were employed, 3 layers of 1" (25mm) insulation were installed in each frame.
- Where 2 layers of insulation were employed, 1 layer of 1" (25mm) insulation was installed in each frame.
- Results indicated are applicable with conventionally built core wall assemblies with an STC performance of 37 or 42 STC.
- Test results based on a 2" (51mm) thick conventionally built demising wall with a 3 ½" (89mm) DIRT wall on each side.
- A complete description of the overall assemblies tested are available upon request.

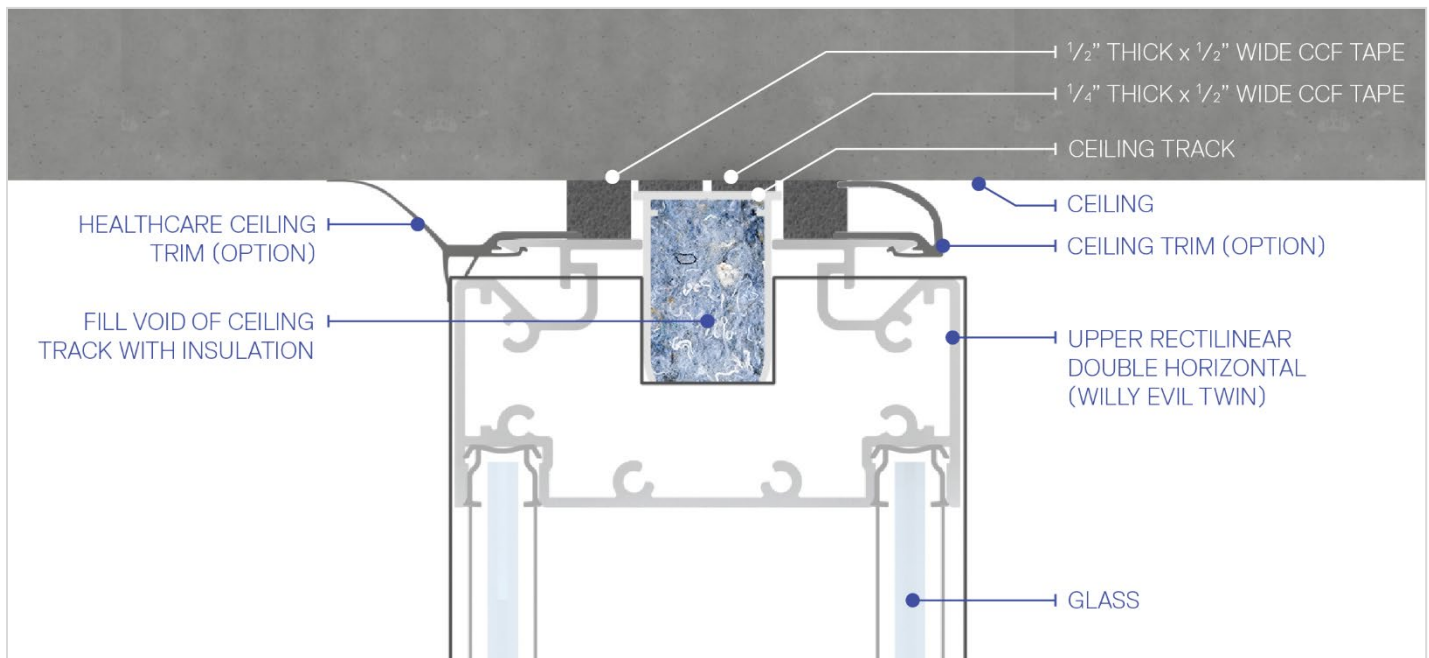


PERIMETER SEALS

Appendix A: 4" Glass Walls

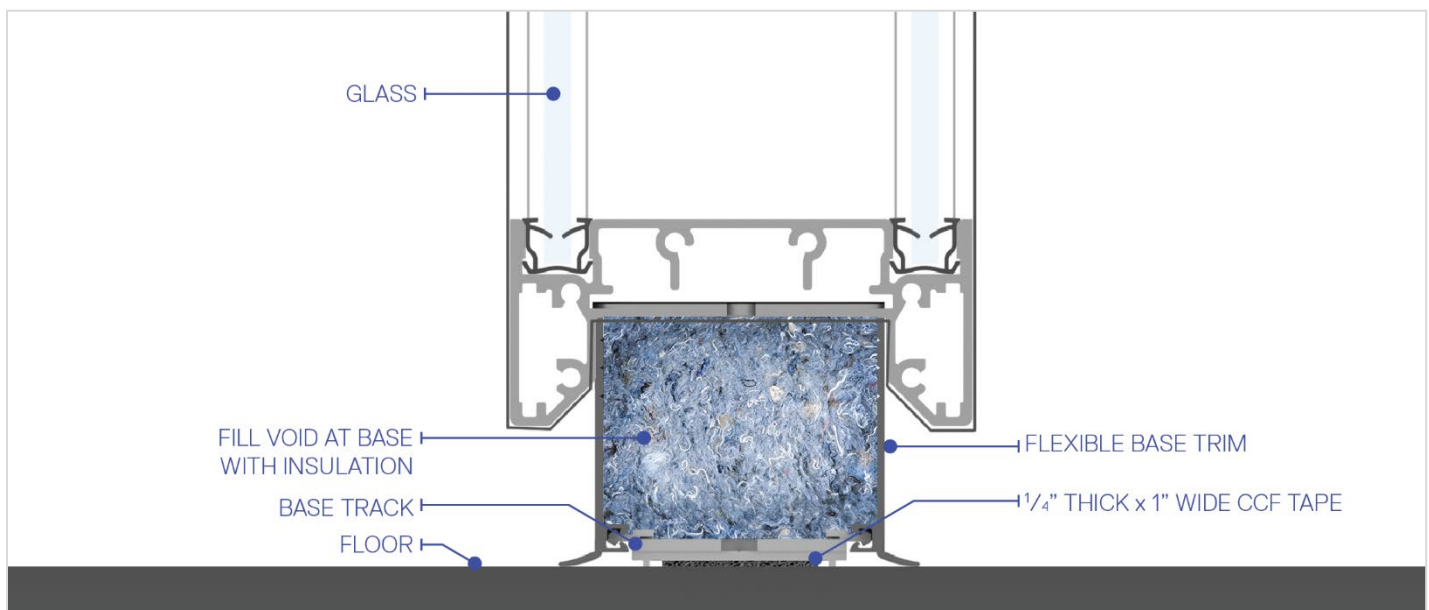
HEAD DETAIL

4" Glass Wall Head Detail to Base Building Ceiling Construction



BASE DETAIL

4" Glass Wall Head Detail to Base Building Floor Construction

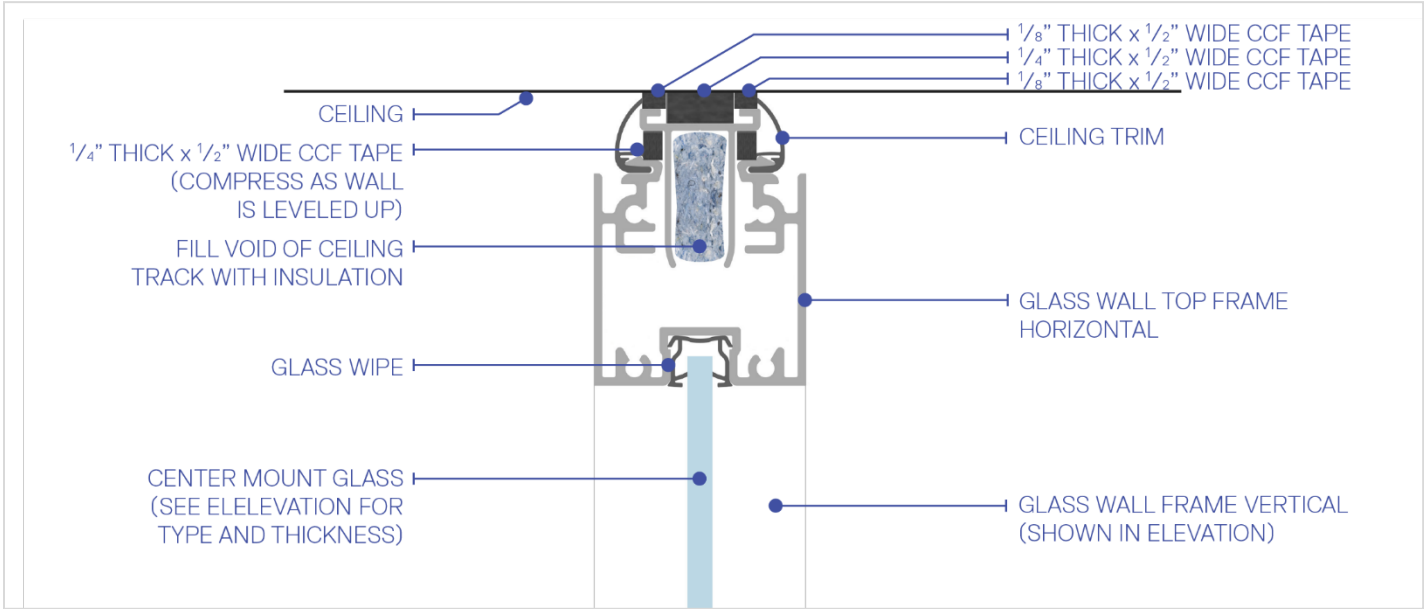




Appendix B: Inspire Glass Wall

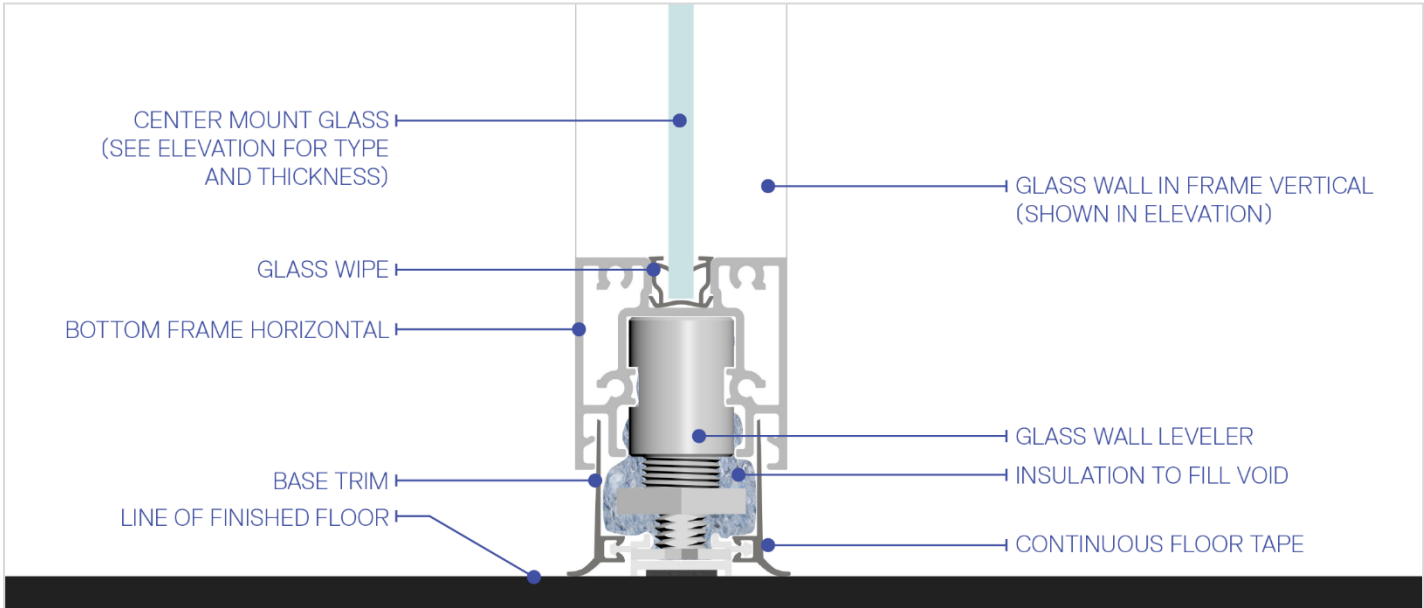
HEAD DETAIL

Inspire Glass Wall Head Detail to Base Building Ceiling Construction



BASE DETAIL

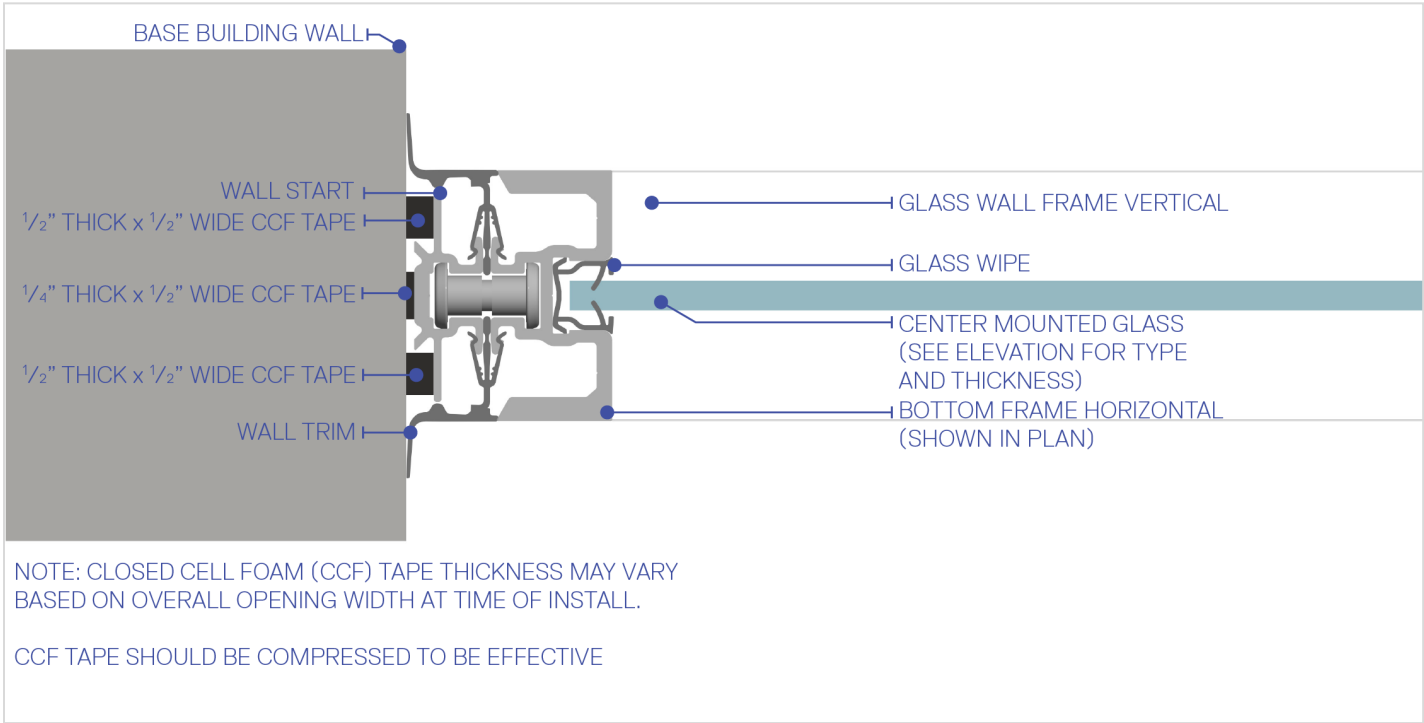
Inspire Glass Wall Base Detail to Base Building Floor Construction





VERTICAL CONSTRUCTION

Inspire Glass Wall Vertical Detail to Base Building Floor Construction



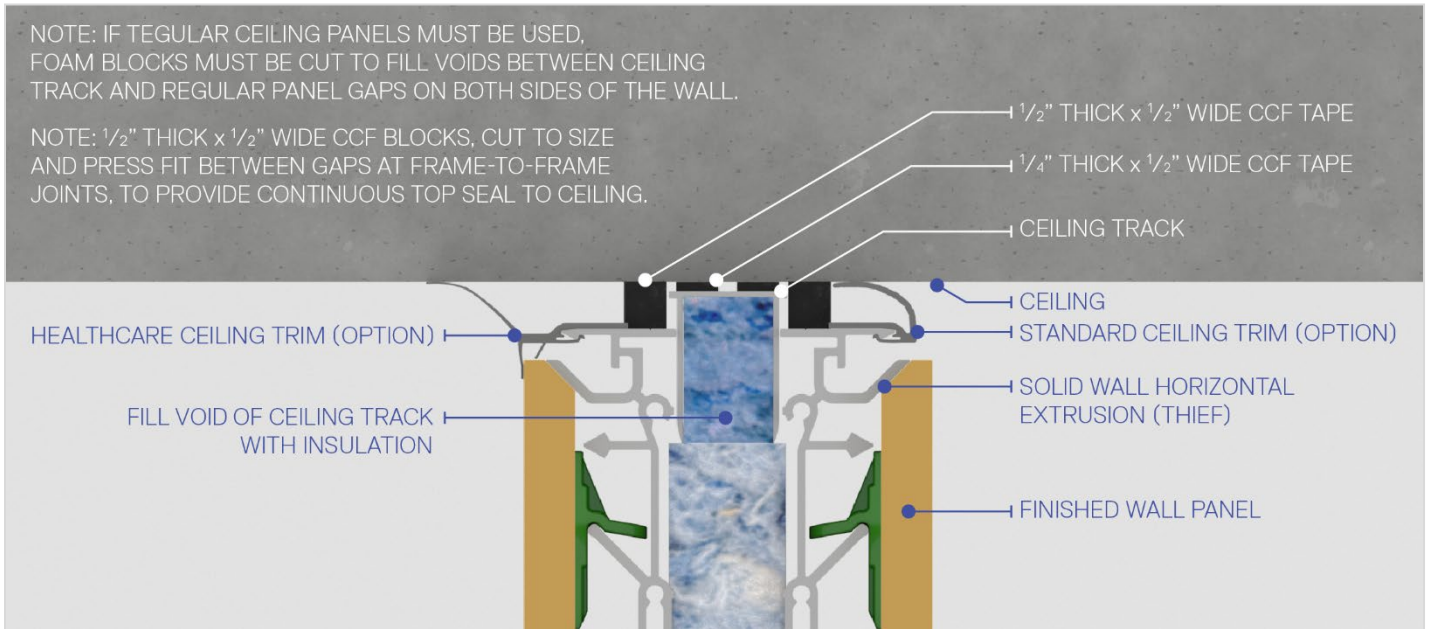


Appendix C: Solid Wall

HEAD DETAIL

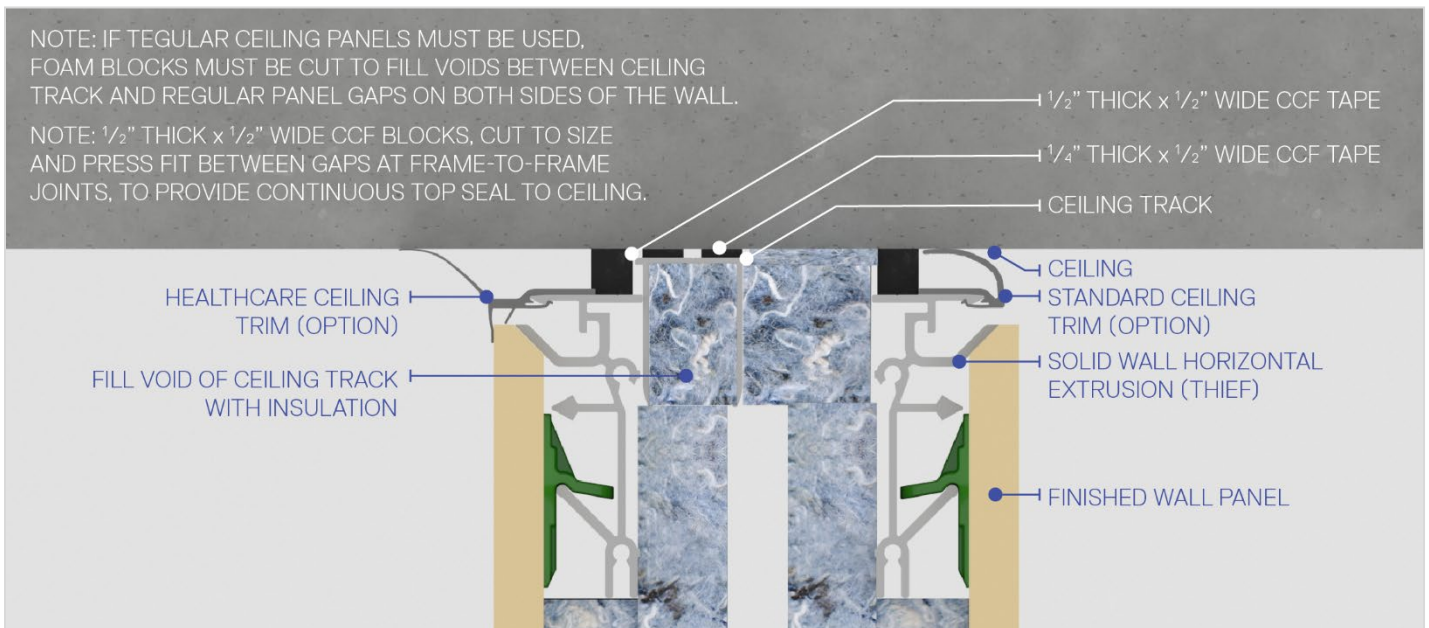
4" Solid Wall

4" Solid Wall head detail connecting to base building ceiling construction.



6" Solid Wall

6" Solid Wall head detail connecting to base building ceiling construction.

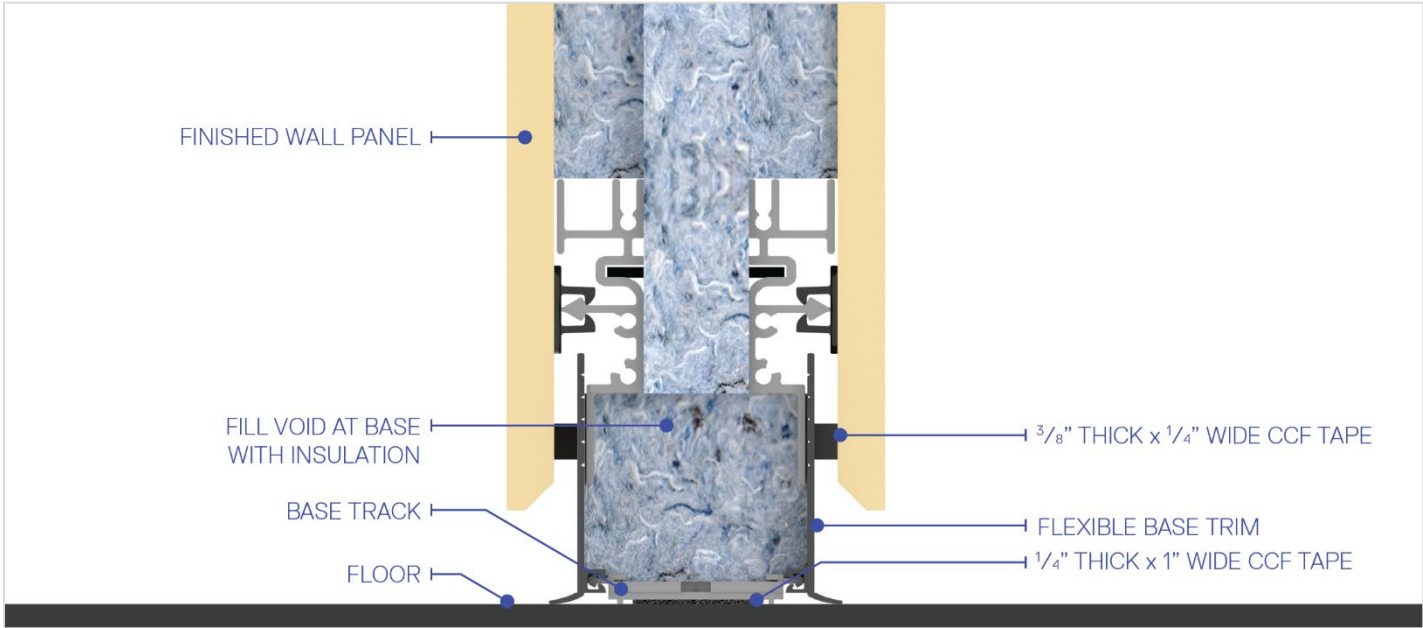




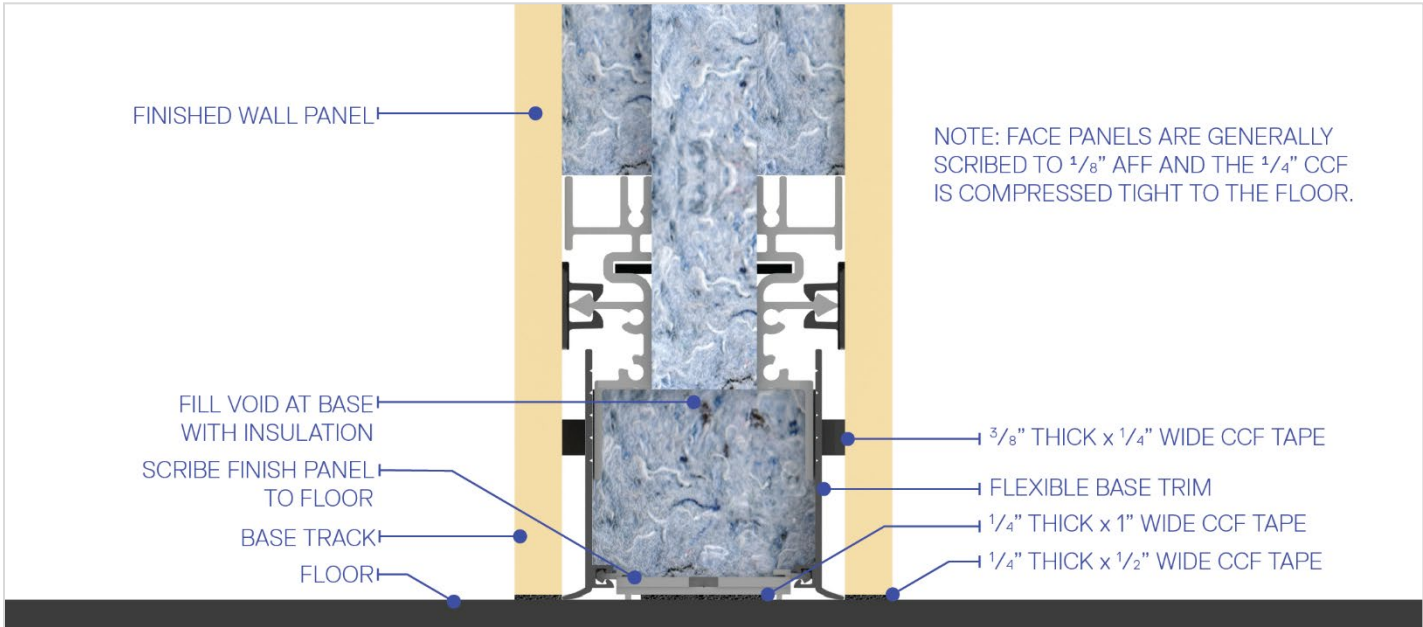
BASE DETAIL

The following details apply to 4" Solid Wall and 6" Solid Wall connecting to base building floor conditions.

Exposed Base

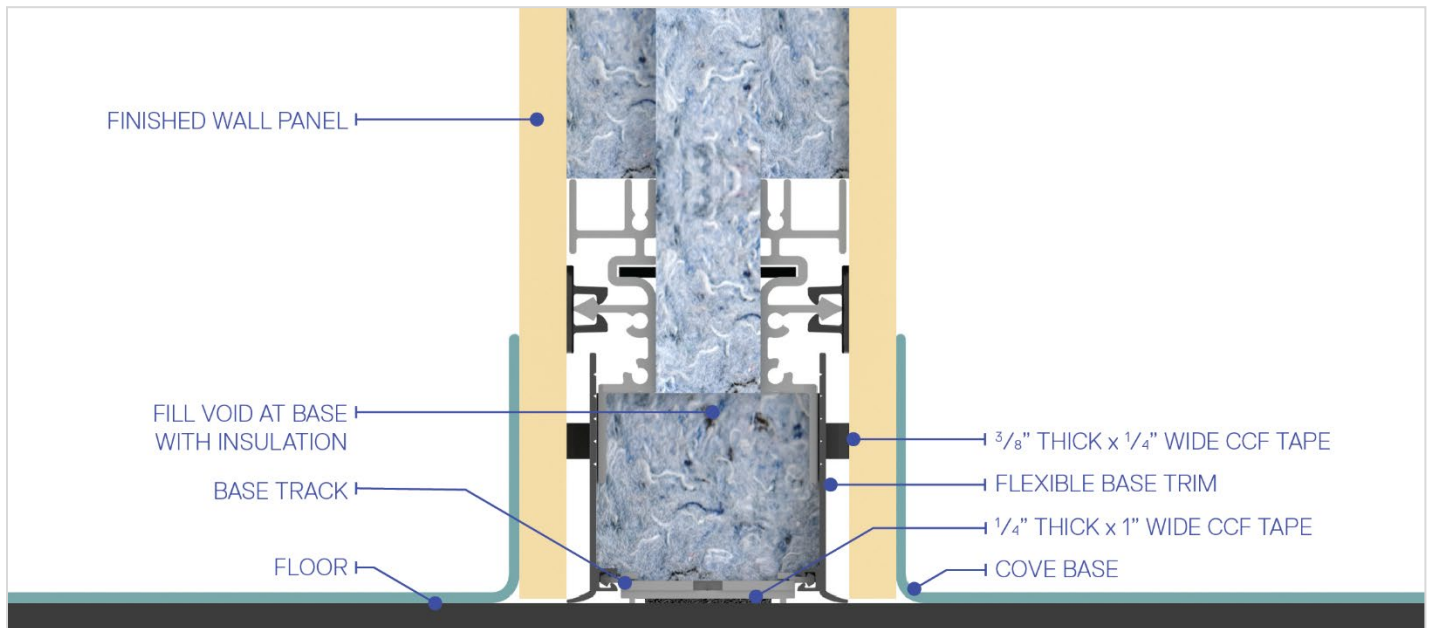


Finished Panels Scribed to Floor

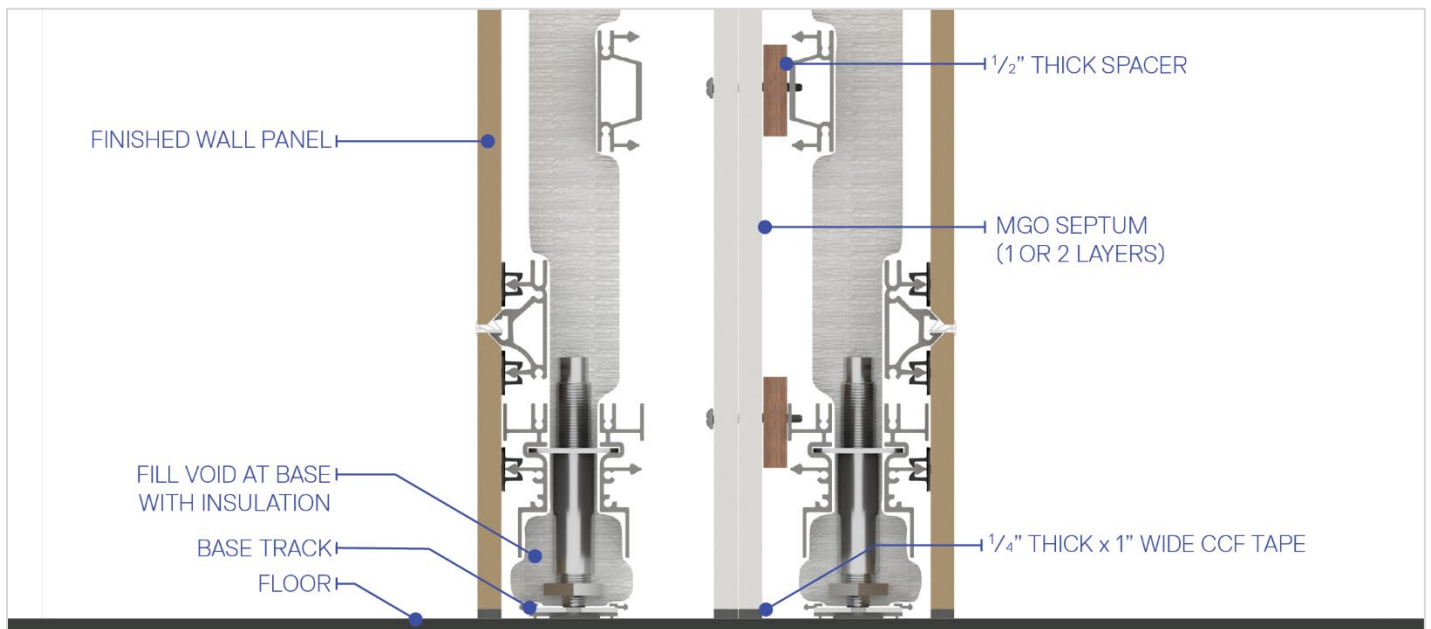




Adaptive Panel with Simulated Cove Base



4" Solid Wall with MgO Septum Base

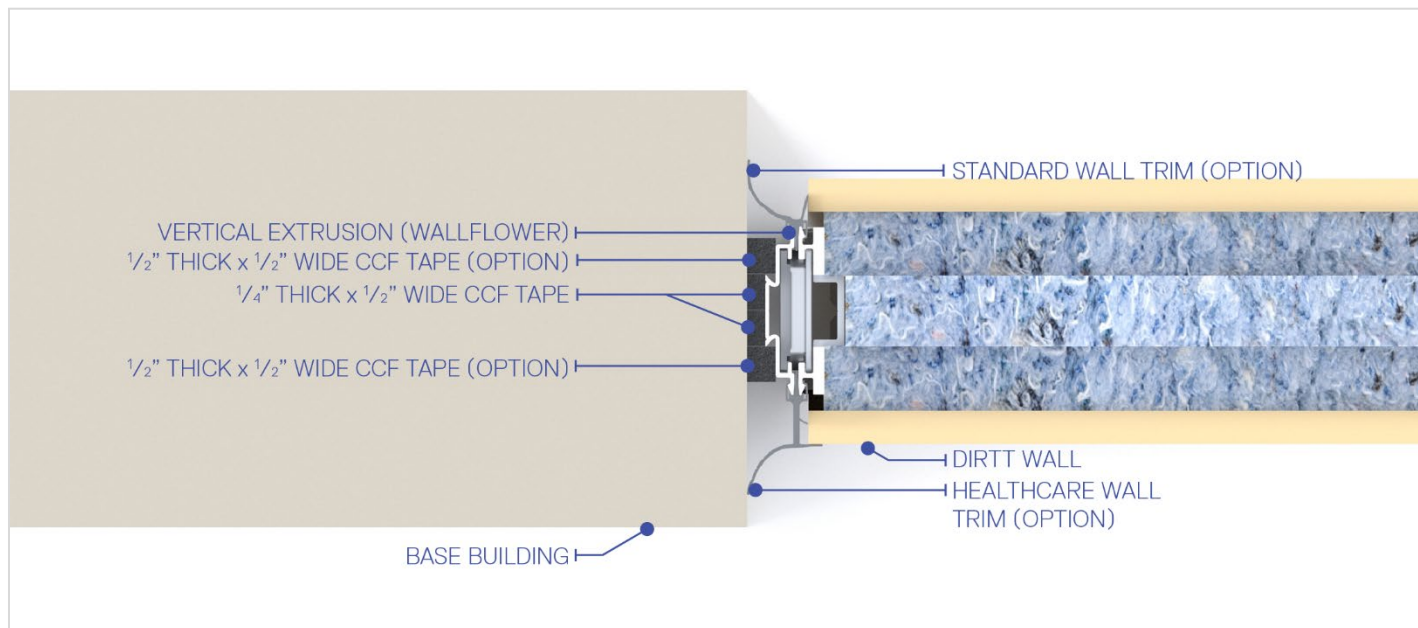




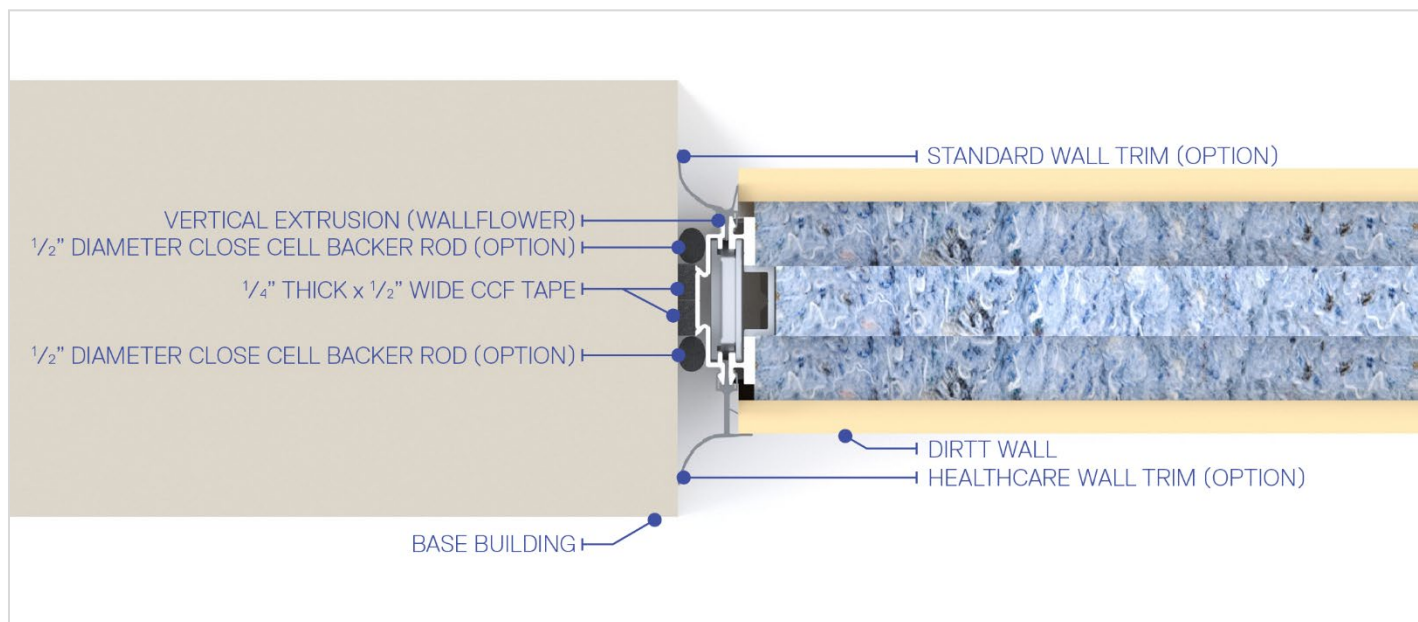
VERTICAL CONSTRUCTION

4" and 6" Solid Wall details vertically connecting to base building construction.

4" Solid Wall with Closed Cell Foam (CCF) Tape - Full Height of Extrusion (OPTION 1)

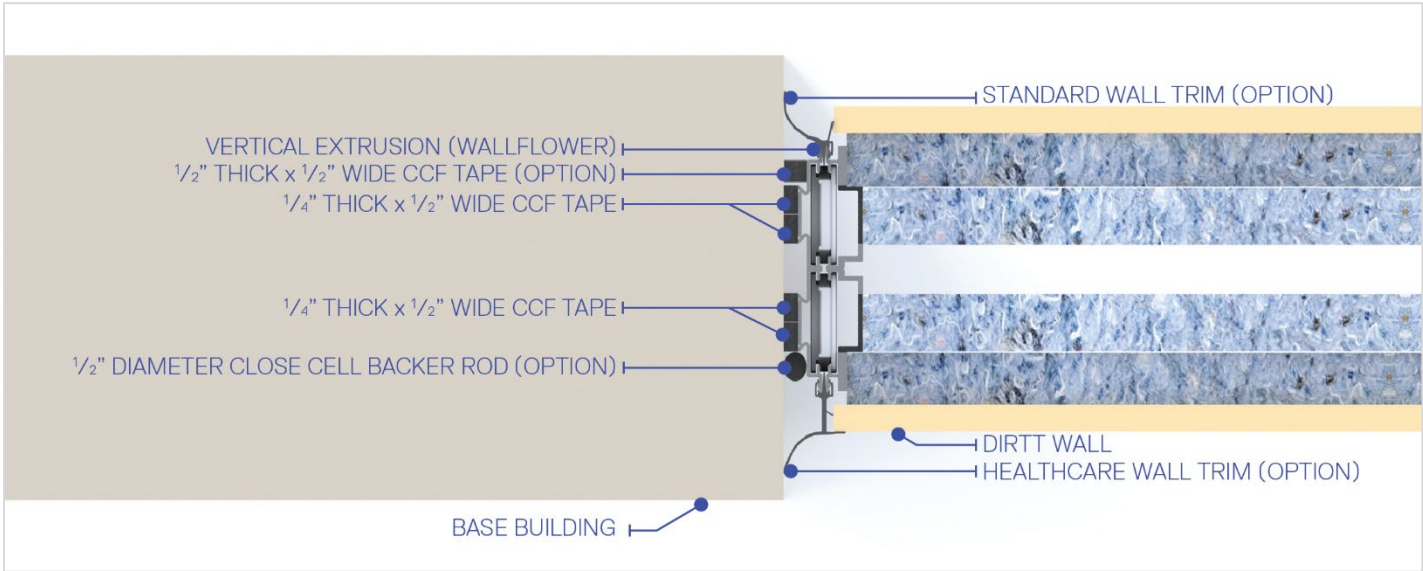


4" Solid Wall with CCF Tape and Close Cell Backer Rod - Full Height of Extrusion (OPTION 2)



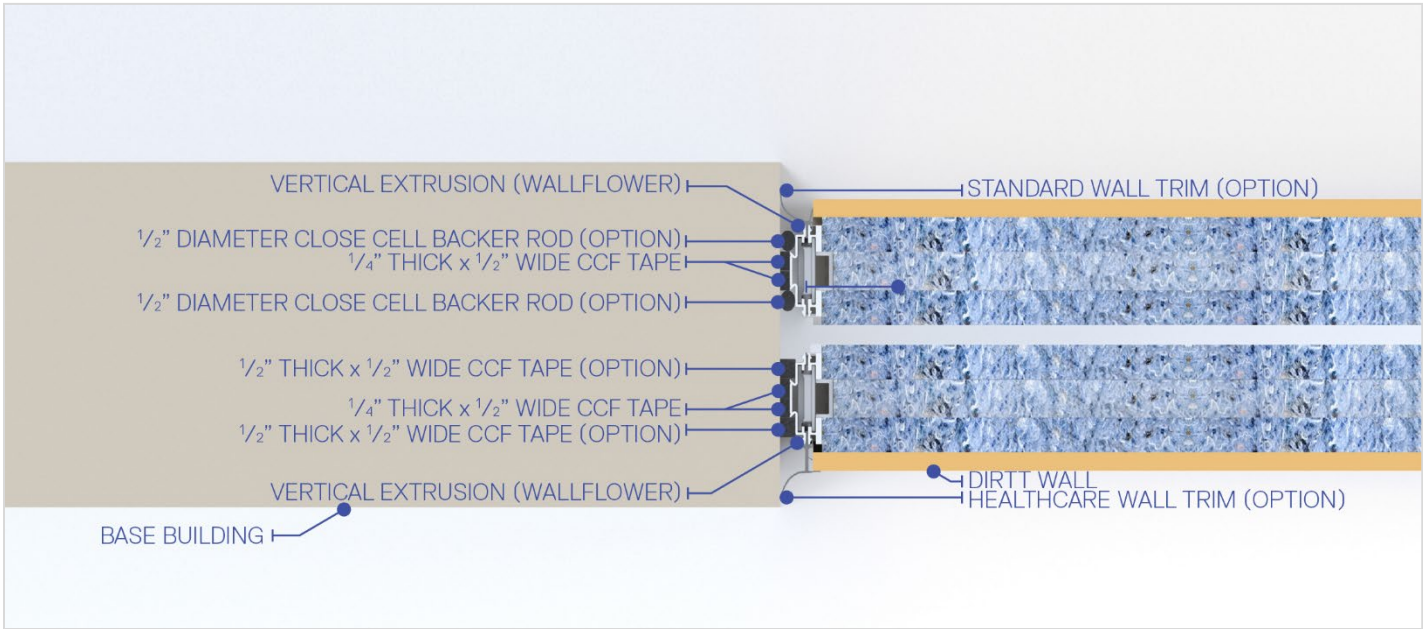


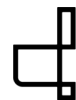
6" Solid Wall with CCF Tape and Close Cell Backer Rod - Full Height of Extrusion



4" Back-to-Back Solid Wall

- CCF Tape - Full Height of Extrusion (OPTION 1)
- CCF Tape and Close Cell Backer Rod - Full Height of Extrusion (OPTION 2)

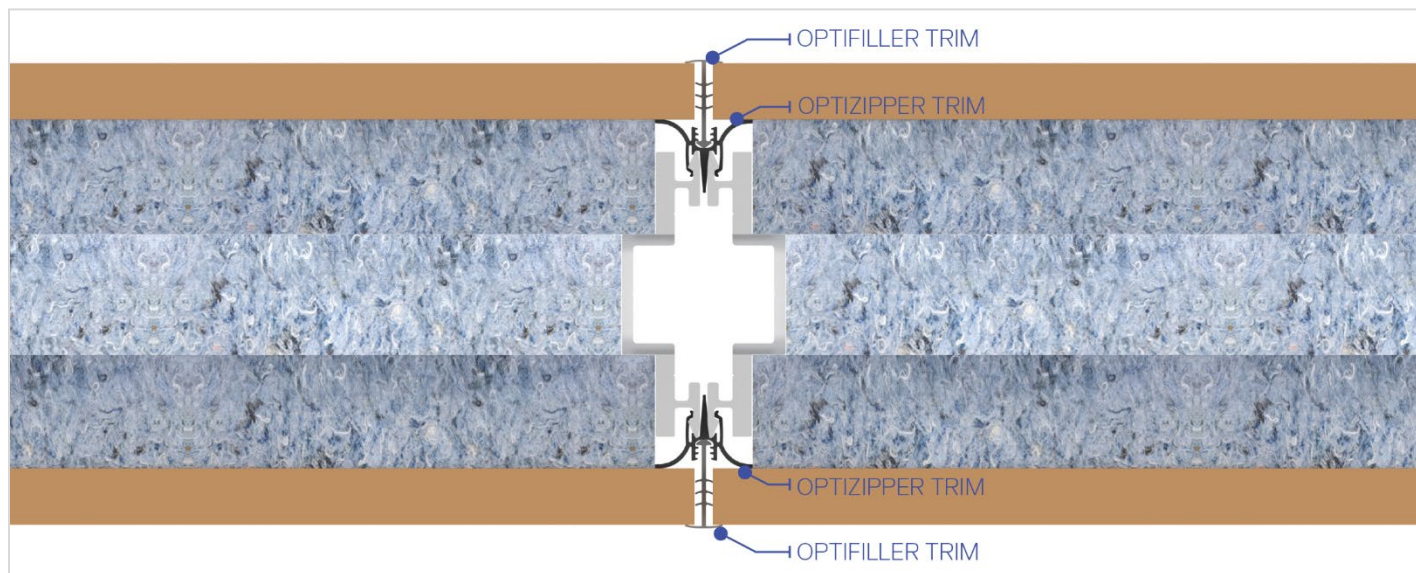




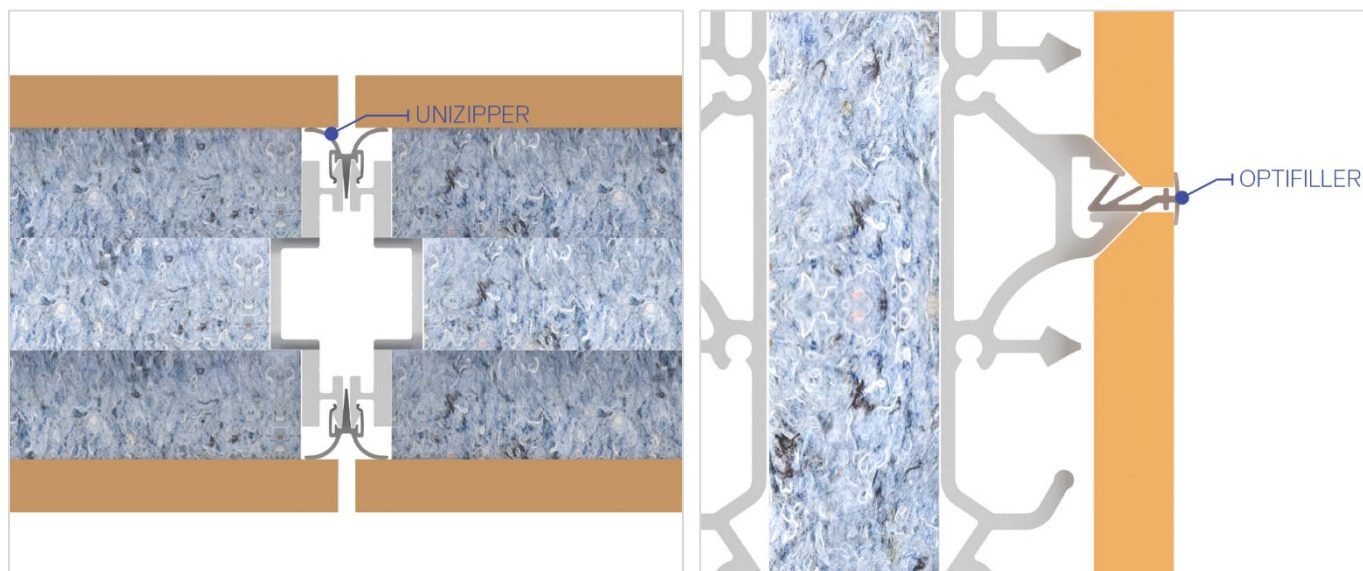
Appendix D: Solid Panel-to-Panel Connections

NOTE: CCF tape inserts are required at all top frame to frame, and frame to base building connections above and below Zipper ends, or where light gaps appear. Where there is light penetration, there is sound loss.

Optizipper with Optifiller



Unizipper and Optifiller





REVISION REFERENCE

VERSION	INITIAL	DESCRIPTION	DATE
1.0	NS	First release.	24Jan2020
4.0	NS	Added Reflect and Inspire data, removed reference to MgO finish panel.	14Jul2021
5.0	NS	Update solid wall testing results.	21Apr2022
6.0	NS	Remove Reflect and double-pane door. Added Back-to-Back Wall with No Septum.	09Nov2022