

SilentXpress™ Sound Isolation System

Space-saving, field-assembled acoustic wall system that delivers high STC performance in a narrower profile

SilentXpress™ is a field-assembled, narrow double-stud wall system designed to achieve high acoustic performance while minimizing wall depth. Utilizing proprietary Type CWSC connectors with ProSTUD® framing, the system connects adjacent studs beneath a single track to reduce sound transmission and create a space-efficient alternative to traditional chase wall assemblies.

Designed as a space-saving alternative to conventional double-stud or chase walls, SilentXpress provides comparable or improved STC performance in a slimmer profile—making it ideal for multifamily, hospitality, healthcare, and commercial applications where both acoustics and floor space are critical.

Key Features

- Narrower than traditional chase wall assemblies
- Ideal for use in multi-family, offices, hotels, hospitals
- 1HR & 2HR UL assemblies
- Published STC tests
- More flexible than pre-assembled systems

MATERIAL SPECIFICATIONS

Gauge: 20 gauge (33mil)

Design Thickness: 0.0346 inches

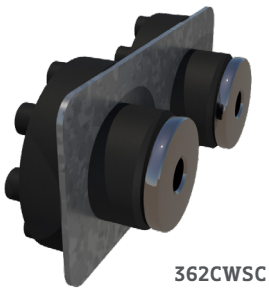
Yield Strength: 50ksi

Coating: CP60

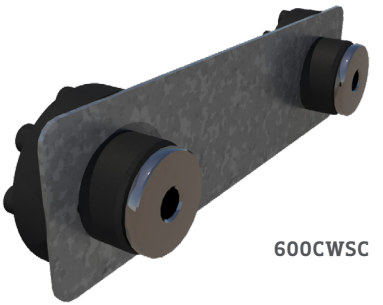
CODE APPROVALS AND PERFORMANCE STANDARDS

AISI S100

UL U4113



362CWSC



600CWSC



Type CWSC Connector				
Product Code	Thickness mils (ga)	Design Thickness (in)	Clip Dimensions (in)	Packaging Clips/Carton
362CWSC	33 (20)	0.0346	3-1/16 x 1-1/2	50
600CWSC	33 (20)	0.0346	5-5/16 x 1-1/2	50

U.S. Patent No. D1,098,899

INSTALLATION

Orient adjacent ProSTUD® framing members with stud webs facing in the same direction. Install three (3) Type CWSC connectors per stud pair. Place one clip 7" from each end of the stud framing member, with the third clip installed at the mid-height of the wall. Attach clips to the stud webs using #8 x 1-5/8" fasteners through the center hole of the rubber grommets. Install clips flush with the ends of the studs to maintain uniform gypsum board contact with the clip and stud flanges. Install gypsum board in accordance with the applicable UL assembly, acoustic test reports and project requirements.

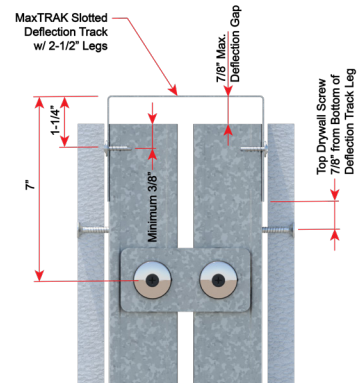
SilentXpress™ (ProSTUD® w/Type CWSC Connector) - HOW Composite Limiting Heights

5/8" Type X Gypsum Board
30mil 2-1/2" Leg MaxTrak®

Wall Width (in)	Framing Member Configuration	Framing Design Thickness (in)	Framing Yield Strength (ksi)	Clip Designation	Spacing (in)	5psf			7.5psf			10psf		
						L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
3-5/8	ProSTUD® 20 (2) 162PDS125-18	0.0190	70	362CWSC	12	16'-11"	14'-0"	12'-2"	14'-9"	12'-2"	10'-7"	13'-5"	11'-1"	9'-5"
					16	15'-10"	13'-1"	11'-5"	13'-10"	11'-5"	9'-11"	12'-7"	10'-5"	8'-6"
					24	14'-3"	11'-9"	10'-3"	12'-5"	10'-3"	8'-4"	11'-3"	8'-11"	—
6	ProSTUD® 20 (2) 162PDS125-18	0.0190	70	600CWSC	12	17'-7"	14'-7"	12'-10"	15'-5"	12'-9"	11'-2"	14'-0"	11'-7"	10'-2"
					16	16'-8"	13'-9"	12'-2"	14'-7"	12'-1"	10'-7"	13'-3"	10'-11"	9'-4"
					24	15'-2"	12'-6"	11'-0"	13'-3"	10'-11"	9'-4"	12'-0"	9'-10"	—
6	ProSTUD® 20 (2) 250PDS125-18	0.0190	70	600CWSC	12	20'-4"	16'-9"	14'-8"	17'-9"	14'-7"	12'-10"	16'-2"	13'-3"	11'-8"
					16	19'-0"	15'-7"	13'-8"	16'-7"	13'-7"	11'-11"	15'-1"	12'-4"	10'-10"
					24	16'-11"	13'-11"	12'-2"	14'-10"	12'-2"	10'-8"	13'-5"	11'-0"	9'-5"

Notes:

- 1 Allowable composite limiting heights were determined in accordance with AISI S916 & ICC-ES AC86.
- 2 The tests were modified from the standards with the tracks fastened to the test fixture such that the wall stiffness included the track deformation.
- 3 In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- 4 The composite limiting heights provided in the tables are based on a single layer of 5/8" Type X Gypsum Board from the following manufacturers: American, CertainTeed, Georgia Pacific, Continental, National, PABCO, and USG.
- 5 The gypsum board must be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754 using minimum No. 6 Type S Drywall screws spaced as listed below:
 - Sheathing screws spaced at maximum of 16 in on-center to framing members (including bottom track) when studs spaced at 16 in or 12 in on-center.
 - Sheathing screws spaced at maximum of 12 in on-center to framing members (including bottom track) when studs spaced at 24 in on-center.
- 7 #8 x 1-5/8" screws shall be used for attaching the Type CWSC Connector (through the center hole of rubber grommets) to the stud web adhering to details below:
 - Two clips shall be attached at 7" from the web of the top/bottom track(s) as depicted in the figure. One clip shall be attached at mid-height of the wall.
 - The studs shall be assembled with the web and knockouts oriented in the same direction.
 - The ends of the clips shall be installed flush with the end of the studs to maintain uniform contact of gypsum board on the clip and the stud flanges.
- 8 #8 wafer head screws shall be used for attaching the stud to 30 mil 2-1/2" leg MaxTRAK (as top track) adhering to details below:
 - Stud to track connection must be installed as depicted in figure with a maximum gap of 7/8" between the web of the MaxTRAK and end of stud.
 - Slots in the MaxTRAK Legs allows for a total vertical movement of 1-1/2" (± 3/4") with screw centered in slots
 - Screws shall be placed in each flange of the stud at a minimum of 3/8" from the end of the stud
 - To permit head of wall deflection, gypsum board must not be fastened directly to the MaxTRAK
- 9 No fasteners are required for attaching the stud to the bottom track except as detailed in ASTM C754.
- f Adjacent to the height value indicates that flexural stress controls the allowable wall height.



Gypsum Board Layers (Source / Receiving)	Insulation Type	Framing					STC Report
		Base -Metal Material Thickness	Stud Depth (ProSTUD®)	Framed Wall Width	Connector (Metal - 33 mil)	Spacing	
(2) Layers / (1) Layer	Mineral Fiber 3.5" R-15	18 mil	1-5/8" Double Stud	3-5/8"	362CWSC	24" o.c.	57 TL25-575
(1) Layer / (1) Layer	Mineral Fiber 3.5" R-15	18 mil	1-5/8" Double Stud	3-5/8"	362CWSC	24" o.c.	54 TL25-576
(2) Layers / (2) Layers	Mineral Fiber 3.5" R-15	18 mil	1-5/8" Double Stud	3-5/8"	362CWSC	24" o.c.	59 TL25-577
(2) Layers / (2) Layers	Mineral Fiber 3.5" R-15	18 mil	1-5/8" Double Stud	3-5/8"	362CWSC	16" o.c.	59 TL25-578
(2) Layers / (1) Layer	Mineral Fiber 3.5" R-15	18 mil	1-5/8" Double Stud	3-5/8"	362CWSC	16" o.c.	57 TL25-579
(1) Layer / (1) Layer	Mineral Fiber 3.5" R-15	18 mil	1-5/8" Double Stud	3-5/8"	362CWSC	16" o.c.	54 TL25-581
(2) Layers / (2) Layers	Mineral Fiber 6" R-24	18 mil	2-1/2" Double Stud	6"	600CWSC	24" o.c.	58 TL25-584
(2) Layers / (1) Layer	Mineral Fiber 6" R-24	18 mil	2-1/2" Double Stud	6"	600CWSC	24" o.c.	59 TL25-585
(1) Layer / (1) Layer	Mineral Fiber 6" R-24	18 mil	2-1/2" Double Stud	6"	600CWSC	24" o.c.	57 TL25-586
(2) Layers / (2) Layers	Fiberglass 6" R-19	18 mil	1-5/8" Double Stud	6"	600CWSC	24" o.c.	58 TL24-074*

*No matching UL assembly is currently available for this tested configuration (TL24-074).