



MARINO

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*Image above showcases SoundGuard® by Marino\WARE

TECHNICAL SERVICES + SUPPORT

DesignGroup

Our commitment to quality products extends to best-in-class design support. The Marino\WARE® DesignGroup™ offers a full range of technical support and engineering services, including professionally engineered stamped shop drawings, design and installation assistance on all Marino\WARE manufactured products, and expert advice on structural, nonstructural, fire and acoustic assemblies.

If you have questions or need more information on any of the products listed in this catalog, contact our Technical Services department at technicalservices@marinoware.com, or at 866.545.1545. In most cases Technical Services representatives can provide an immediate response.

Warranty & Limitations

All products presented herein are warranted to the buyer to be free from defects in material and workmanship. The foregoing warranty is non-assignable and in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including but not limited to any implied warranties of merchantability or fitness for a particular purpose. All details and specifications presented herein are intended as a general guide for the use of Marino\WARE® framing systems. These products should not be used without evaluation by a qualified engineer or architect to determine their suitability for a specific use. $Marino \ensuremath{\mathsf{WARE}}^{\circledast} assumes no responsibility for failure resulting from use of its details or specifications, or for failure resulting from improper application or installation of these products.$

Governing Law

All issues arising in connection with your order and all transactions associated with it shall be interpreted according to the laws of the State of New Jersey, and all actions or other proceedings arising out of such issues shall be brought only in Superior Court, State of New Jersey, County of Essex, or United States District Court for the District of New Jersey. No action may be brought more than one year after accrual of the cause of action therefore.

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This guide represents a compilation of Marino\WARE sound tested assemblies, always verify UL or other Listed fire-rated designs for additional requirements.

The Basics of Sound Isolation in Construction

Sound isolation in construction involves the use of various materials and techniques to minimize the transmission of sound from one space to another. Some common strategies for achieving sound isolation include using resilient channels, sound-absorbing materials, and sound-blocking materials.

Resilient channels are thin metal channels that are installed between the framing and drywall of a wall or ceiling. They create a separation between the two layers of drywall, which helps to reduce the transmission of sound vibrations between rooms. The channels work by allowing the outer layer of drywall to vibrate independently of the framing, which helps to dissipate sound energy.

Sound-absorbing materials such as fiberglass insulation and acoustic panels can also be used to help reduce the transmission of sound. These materials work by absorbing sound energy rather than reflecting it back into the room. When placed within walls or ceilings, they can help to reduce the amount of sound that passes through the structure.

Sound-blocking materials such as gypsum board can also be used to reduce sound transmission. Gypsum board is dense, which helps to block the transmission of sound waves. When used in combination with other sound isolation techniques, they can help to create a more acoustically isolated space.

There are also several construction techniques that can be used to help achieve sound isolation, such as staggered stud walls and double-layered walls. Staggered stud walls involve alternating the placement of studs on opposite sides of a wall, which helps to reduce the direct transmission of sound between rooms. Double-layered walls involve the use of two layers of drywall separated by a layer of sound-absorbing insulation, which helps to reduce both airborne and impact noise transmission.

Primary Methods for Reducing Sound Transfer

There are three primary methods of reducing sound transfer in buildings: increasing mass, decoupling, and using sound-dampening products.

Increasing Mass: Adding mass to walls, ceilings, and floors is a highly effective way to reduce sound transfer. This is because heavier materials are better able to absorb and block sound waves. Common materials used for this purpose include concrete, brick, and heavy-duty drywall. According to the National Institute of Standards and Technology (NIST), "the effectiveness of mass in blocking sound is proportional to the square of its thickness" (NIST, 2010).

Decoupling: Decoupling involves separating two surfaces to prevent sound waves from traveling through them. This is typically achieved by creating a "floating" structure, in which walls or ceilings are not directly connected to the building's structure. This can be accomplished through the use of resilient channels, spring isolators or decoupled steel framing. Resilient channels, for example, are thin metal channels that are installed between the framing and drywall of a wall or ceiling. They create a separation between the two layers of drywall, which helps to reduce the transmission of sound vibrations between rooms. An example of decoupled steel framing is the SoundGuard Steel Framing System.

Sound-Dampening Products: Sound-dampening products are materials that are designed to absorb sound waves and prevent them from bouncing around a room. These products are typically made from materials like fiberglass, foam, or cork, and are often used in conjunction with other sound-reducing methods like mass and decoupling. Sound-dampening products can be applied to walls, ceilings, and floors to help reduce the amount of sound that enters or exits a room.

The importance of ASTM E90 for sound solutions

ASTM E90 is a standard test method used to measure airborne sound transmission loss through building partitions. The test involves measuring the sound intensity levels on either side of a partition and determining the difference between the two. The results are then used to calculate the sound transmission class (STC) rating of the partition.

The ASTM E90 standard has been widely adopted by the construction industry as a means of quantifying the acoustic performance of building partitions. It is frequently used in the design and construction of buildings where acoustic privacy and sound isolation are important considerations, such as hospitals, schools, and office buildings.

One example of the use of ASTM E90 in the construction industry can be seen in the LEED (Leadership in Energy and Environmental Design) certification process. LEED certification is a globally recognized rating system that measures the environmental sustainability of buildings. One of the requirements for LEED certification is that buildings must meet certain acoustic performance standards, including a minimum STC rating for building partitions. ASTM E90 is one of the approved test methods for measuring STC ratings and is commonly used to demonstrate compliance with LEED requirements.



*Image above, illustration on the right showcases SoundGuard® by Marino\WARE

Sources:

American Society of Interior Designers. (2014). Sound isolation in construction. https://www.asid.org/resources/sound-isolation-construction Building Science Corporation. (2010). Acoustical isolation. https://www.buildingscience.com/documents/information-sheets/info-sheet-acoustical-isolation National Institute of Building Sciences. (2015). Sound isolation. https://www.wbdg.org/design-objectives/sound-isolation

National Institute of Standards and Technology (NIST). (2010). How to soundproof a room. https://www.nist.gov/system/files/documents/el/building_materials_soundproofing.pdf American Society of Interior Designers. (2014). Sound isolation in construction. https://www.asid.org/resources/sound-isolation-construction Building Science Corporation. (2010). Acoustical isolation. https://www.buildingscience.com/documents/information-sheets/info-sheet-acoustical-isolation

MARINO WARE JoistRite®

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JoistRite®

JoistRite is a steel framing stud that utilizes continuous lip reinforced triangular knockouts. The large knockouts help reduce noise transmission and make for an effective sound solution.

Summary for 1 Hour Fire & Sound Test

STC/IIC



StudRite[®] MARINO WARE[®]

StudRite[®]

StudRite is a steel framing stud that utilizes continuous lip reinforced triangular knockouts. The large knockouts help reduce noise transmission and make for an effecting sound solution.

3-5/8" StudRite® (18mil) 24" O.C.

Wall Type A	 Fiberglass insulation RC-Max resilient channel 1 side 1 layer of 5/8" type X GWB, each side 	52	TR: 2015113
Wall Type B	 Fiberglass insulation 1 layer of 5/8" type X GWB, each side 	44	TR: 2016028
Wall Type C	 Fiberglass insulation RC-Max resilient channel 1 side 2 layers of 5/8" type X GWB, each side 	61	TR: 2015114

3-5/8" StudRite® (18mil) 16" O.C.

Wall Type A	 Fiberglass insulation RC-Max resilient channel, 1 side 1 layer 5/8" type X GWB, each side 	52	TR: 2015115
Wall Type B	 Fiberglass insulation 1 layer of 5/8" type X GWB, each side 	47	TR: 2016029
Wall Type E	 Fiberglass insulation 2 layers of 5/8' type X GWB, each side 	54	TR: 2016030

3-5/8" StudRite® (30mil) 16" O.C.

Wall Type B	 Fiberglass insulation 1 layer of 5/8" type X GWB, each side 	40 TR: 2015118
Wall Type D	 Fiberglass insulation 1 layer of 5/8" type X GWB, one side 2 layers of 5/8" type X GWB, other side 	44 TR: 2015115

6" StudRite® (54mil) 16" O.C.

Wait type L	Wall Type E	 Fiberglass insulation 2 layers of 5/8' type X GWB, each side 	43 TR: NOAL19-0110
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For more information, please contact Marino\WARE® Technical Services at 866.545.1545 This technical information reflects the most current information available and supersedes any and all STC Rating

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MARINO WARE SoundGuard®

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SoundGuard[®]

SoundGuard is an acoustically decoupled steel stud. The stud is assembled in the factory using a closed cell foam isolator to create an air gap. This gap contributes to reducing sound transmission.



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SoundGuard[®]

SoundGuard[®] Plumbing Wall

SoundGuard Plumbing Wall is an acoustically decoupled steel stud. The stud is assembled in the factory using a closed cell foam isolator to create a large air gap. This gap contributes to reducing sound transmission and is large enough to accommodate a 2-3/4" pipe.







Unbalanced ⁵/8" Type X GWB 2x1 Application

Wall Size	Application	STC Rating 16" o.c. ²	Conventional Partition Range
6" Plumbing	2 - 1 5/8" Studs, Single GWB one side, Double GWB other side, R-13 Insulation, 2 3/4" cavity	56	55-59





Double Layer ⁵/8" Type X GWB 2x2 Application





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MARINO + WARE® | Sure-Board® Floor

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Sure-Board[®] Floor

Sure-Board Floor is a composite underlayment floor sheathing utilizing a structural 3/4" substrate laminated to 33 mil steel sheet. The floor sheathing offers high load values and is tested in multiple configurations for sound transmission.



Sure-Board[®] Floor MARINO WARE

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Floor/Ceiling Assemblies	Descriptions	STC/IIC Rating
	 3/4" Sureboard 200S 1 5/8" Self-piercing screws at 6'-0" o.c. 6 1/4" R19 Fiberglass Insulation 10" 16ga. Steel Joist RC1 at 24" o.c. 5/8" Type C Gypsum Wallboard 	57/31 0L16-0205
	 3/4" Carpet 1/2" Carpet Pad 3/4" Sureboard 200S 1 5/8" Self-piercing screws at 6'-0" o.c. 6 1/4" R19 Fiberglass Insulation 10" 16ga. Steel Joist RC1 at 24" o.c. 5/8" Type C Gypsum Wallboard 	58/74 0L16-0206
	 3/4" Carpet 1/2" Carpet Pad 3/4" Sureboard 200S 1 5/8" Self-piercing screws at 6'-0" o.c. 6 1/4" R19 Fiberglass Insulation 10" 16ga. Steel Joist RC1 at 24" o.c. 2 layers 5/8" Type C Gypsum Wallboard 	61/79 0L16-0207
	 3/4" Sureboard 200S 1 5/8" Self-piercing screws at 6'-0" o.c. 6 1/4" R19 Fiberglass Insulation 10" 16ga. Steel Joist RC1 at 24" o.c. 2 layers 5/8" Type C Gypsum Wallboard 	60/38 0L16-0208
	 1" Maxxon Gyp-Crete on 1/4" Maxxon Axoustic-Mat II 3/4" Sureboard 200S 1 5/8" Self-piercing screws at 6'-0" o.c. 6 1/4" R19 Fiberglass Insulation 10" 16ga. Steel Joist RC1 at 24" o.c. 2 layers 5/8" Type C Gypsum Wallboard 	63/51 0L16-0301
	 3/4" Carpet 1/2" Carpet Pad 1" Maxxon Gyp-Crete on 1/4" Maxxon Axousi-Mat II 3/4" Sureboard 200S 1 5/8" Self-piercing screws at 6-0" o.c. 6 1/4" R19 Fiberglass Insulation 10" 16ga. Steel joist RC1 at 24" o.c. 2 layers 5/8" Type C Gypsum Wallboard 	64/83 0L16-0302

MARINO WARE[®] Sure-Board[®] Wall

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Sure-Board® Wall

Sure-Board Wall is a shearwall sheathing used to resist lateral loads in a structure. Many shearwalls are not tested for sound, but Sure-Board has both shear values and sound ratings, providing a complete design solution.

Assemblies	Descriptions	STC Rating
	 2x4 wood studs @ 16" o.c. Single 2x4 sill & double 2x4 head 5/8" SureBoard Series 200 vertically one side only 2 1/2" #8 drywall screws @ 8" o.c. On perimeter and 12" o.c. in the field 	32 TL05-387
	 1 layer SureBoard Series 200 vertically oriented one side only 1 5/8" x 3 1/2" 20 gauge steel studs @ 24" o.c. 	33 TL05-391
	 1 layer SureBoard Series 200 one side R19 fiberglass insulation 6" metal studs 16 gauge by 1 1/4", 16" o.c. 1 layer 5/8" Type X other side 	47 TL06-402
	 1 layer SureBoard Series 200 one side 1 5/8" x 3 1/2" 20 gauge steel studs @ 24" o.c. R19 fiberglass insulation 1 layer 5/8" Type X other side 	48 TL05-392
	 1 layer SureBoard Series 200 one side R19 fiberglass insulation 6" metal studs 16 gauge by 1 1/4" @ 16" o.c. RC1 Resilient channel other side 5/8" Type X 	54 TL06-403

Sure-Board® Wall

MARINO WARD

ViperStud[®]

The ViperStud is a high performance engineered drywall framing stud. Made from high-strength thinner steel, ViperStud provides a lighter, more efficient system. Using less steel helps reduce noise transmission.

3-5/8" VIPER25 @ 24" O C

3-5/8" VIPER25 @ 24" O.C.			STC Ratings
	Wall Type A	 Fiberglass Insulation RC-Max resilient channel 1 layer of 5/8" type X GWB, each side 	52 NOAL 18-0821
	Wall Type B	 Fiberglass Insulation 1 layer of 5/8" type x GWB, each side 	46 TL08-175
	Wall Type C	 Fiberglass Insulation RC-Max resilient channel 2 layers of 5/8" type X GWB, each side 	61 NOAL 18-0823
	Wall Type F	• 1 layer of 5/8" type X GWB, each side	41 TL08-119
	Wall Type G	 Fiberglass Insulation RC-Max resilient channel 1 layer 5/8" type X GWB, one side 2 layers of 5/8" type X GWB, other side 	57 NOAL 18-0822
3-5/8" VIPER25 @ 16" O.C.			
	Wall Type A	 Fiberglass Insulation RC-Max resilient channel 1 layer 5/8" type X GWB, each side 	51 96748.01A
	Wall Type B	 Fiberglass Insulation 1 layer 5/8" type X GWB, each side 	47 96748.01B
	Wall Type E	 Fiberglass Insulation 2 layers of 5/8" type X GWB, each side 	55 NOAL 18-0825

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ViperStud[®] MARINO WARE[®]

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3-5/8" VIPER20 @ 16" O.C.

5-5/6 VIFLN20 @ 10 0.0	.		STC Ratings
	Wall Type A	 Fiberglass Insulation RC-Max resilient channel 1 layer of 5/8" type X GWB, each side 	51 NOAL 18-0826
	Wall Type B	 Fiberglass Insulation 1 layer of 5/8" type x GWB, each side 	44 96749.01A
	Wall Type C	 Fiberglass Insulation RC-Max resilient channel 2 layers of 5/8" type X GWB, each side 	59 NOAL 18-0828
	Wall Type D	 Fiberglass Insulation 1 layer of 5/8" type X GWB, one side 2 layers of type X GWB, other side 	49 96749.01B
	Wall Type E	 Fiberglass Insulation 2 layers of 5/8" type X GWB, each side 	50 NOAL 18-0830
	Wall Type G	 Fiberglass Insulation RC-Max resilient channel 1 layer 5/8" type X GWB, one side 2 layers of 5/8" type X GWB, other side 	55 NOAL 18-0827

RC-MAX

RC-MAX is used as a furring over wood or steel framed walls and ceilings. The reduced contact RC-MAX affords with the supporting member offers economical means for controlling sound transmission. For walls, resilient furring channels should be installed with the mounting flange down, except at the starter row where the mounting flange may be installed with the flange up.

DC MAX with 2-5/8" VinerStud®

RC-MAX with 3-	-5/8" ViperStud®		STC Rat	ing
	Wall Type A	 Viper25 24" O.C. Fiberglass insulation RC-Max resilient channel 1 Layer of 5/8" type X GWB, each side 	52	TR:18-0821
	Wall Type C	 Viper25 24" O.C. Fiberglass insulation RC-Max resilient channel 2 layers of 5/8" type X GWB, each side 	61	TR:18-0823
	Wall Type G	 Viper25 24" O.C. Fiberglass insulation RC-Max resilient channel 1 Layer 5/8" type X GWB, one side 2 Layers of 5/8' type X GWB, other side 	57	TR:18-0822
	Wall Type A	 Viper25 16" O.C. Fiberglass insulation RC-Max resilient channel 1 Layer 5/8" type X GWB, each side 	51	TR:96748.01A
	Wall Type A	 Viper20 16" O.C. Fiberglass insulation RC-Max resilient channel 1 Layer 5/8" type X GWB, each side 	51	TR18-0826
	Wall Type C	 Viper20 16" O.C. Fiberglass insulation RC-Max resilient channel 2 layers of 5/8" type X GWB, each side 	59	TR:18-0828
	Wall Type G	 Viper20 16" O.C. Fiberglass insulation RC-Max resilient channel 1 Layer 5/8" type X GWB, one side 2 Layers of 5/8' type X GWB, other side 	55	TR:18-0827

RC-MAX with 3-5/8" StudRite®

Wall Type A	 StudRite (18 mil) 16" O.C. Fiberglass insulation RC-Max resilient channel 1 Layer of 5/8" type X GWB, each side 	52	TR:2015115
Wall Type C	 StudRite (18 mil) 24" 0.C. Fiberglass insulation RC-Max resilient channel 2 layers of 5/8" type X GWB, each side 	61	TR:2015114
Wall Type A	 StudRite (18 mil) 24" O.C. Fiberglass insulation RC-Max resilient channel 1 Layer 5/8" type X GWB, each side 	52	TR:2015113

For more information, please contact Marino\WARE® Technical Services at 866.545.1545

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RC-MAX Resilient Channel

MARINO WARD

18" Open Web Wood Truss

1 HR Assembly

- 3/4" gypsum concrete
- 1/8" sound attenuation mat
- 23/32" wood structural panel
- 18" OWT 24" o.c.
- Insulation (see chart)
- RC-Max spaced 16" o.c.
- 1 layer 5/8" type X

*check UL designs for specific assembly information

WITH FIBERGLASS	STC	IIC	TEST REPORTS
Bare Floor	57	48	L4816.05
Luxury Vinyl Tile	56	48	L4817.06
Engineered Wood	56	50	L4816.07

18" BLOWN-IN INSULATION	STC	IIC	TEST REPORTS
Bare Floor	59	50	L4816.09

11 7/8 Wood I-Joist

1 HR Assembly

- 3/4" gypsum concrete
- 1/8" sound attenuation mat
- 23/32" wood structural panel
- 11-7/8" wood i-joist 24" o.c.
- 3-1/2" fiberglass insulation
- RC-Max spaced 16" o.c.
- 2 layer 5/8" type X

*check UL designs for specific assembly information

WITH FIBERGLASS	STC	IIC	TEST REPORTS
Bare Floor	58	43	L4816.01
Luxury Vinyl Tile	58	51	L4816.02
Engineered Wood	58	55	L4816.03

Sound Rated Firestopping for Building Joints

MarinoWARE offers fire rated accessories that are effective at reducing sound transmission, in addition to their fire resistive properties. These accessories offer faster, easier installation and great acoustic benefits.

		STC Ratings	5
FAS093X	 1 layer 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. Back to back studs @ center joint FAS093X vertically at center joint R13 fiberglass insulation RC 1 resilient channel other side 2 layers 5/8" Type X other side 	57	TL14-215
Fire Bead	 Fire Bead at head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Stud, 24" o.c. R13 fiberglass insulation 1 layer 5/8" Type X other side 	50)AL19-0116
Fire Gasket	 Fire Gasket at head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation 1 layer 5/8" Type X other side 	51)AL18-0762
Fire Gasket	 Fire Gasket at head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation 2 layers 5/8" Type X other side 	55)AL18-0763
Fire Gasket	 Fire Gasket at head-of-wall, both sides 1 layer 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	58)AL18-0764
Fire Gasket	 Fire Gasket at head-of-wall, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	63)AL18-0765
Fire Gasket	 Fire Gasket at head-of-wall, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 2 layers 5/8" Type X other side 	67)AL18-0766
HotRod Type X	 HotRod Type X at head-of-wall one side only 2 layers 5/8" Type X 3-5/8" Viper (20EQ) studs, 24" o.c. R13 Fiberglass insulation 1 layer 5/8" Type X other side 	51	OL15-1012

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		STC Ratings
HotRod Type X	 HotRod Type X, at head-of-wall one side Backer rod at head-of-wall other side 1 layer 5/8" Type X 3-5/8" Viper (20EQ) studs, 24" o.c. R13 Fiberglass insulation 1 layer 5/8" Type X other side 	54 0L15-1017
HotRod Type X	 HotRod Type X at head-of-wall, both sides 1 layer 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R11 Fiberglass insulation 1 layer 5/8" Type X other side 	60 TL17-430
HotRod Type X	 HotRod Type X at head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 16" o.c. R11 Fiberglass insulation 2 layers 5/8" Type X other side 	51 TL17-418
HotRod Type X	 HotRod Type X at head-of-wall, both sides 1 layer 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R11 Fiberglass insulation 2 layers 5/8" Type X other side 	63 TL17-433
HotRod Type X	 HotRod Type X at head-of-wall, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 2 layers 5/8" Type X other side 	68 TL14-285
HotRod XL	 HotRod XL at head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation 1 layer 5/8" Type X other side 	50 NOAL19-0117
HotRod XL	 HotRod XL at head-of-wall, both sides 1 layer 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation RC1 resilient channel other side 1 layer 5/8" Type X other side 	52 NOAL19-1039
HotRod XL	 HotRod XL at head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation RC1 resilient channel other side 1 layer 5/8" Type X other side 	55 NOAL19-1040

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 		STC Ratings
HotRod XL	 HotRod XL at head-of-wall, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	63 NOAL19-1048
HotRod XL	 HotRod XL at head-of-wall, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 2 layers 5/8" Type X other side 	68 NOAL19-1049
Smoke & Sound Stop	 Smoke & Sound Stop, both sides 1 layer 5/8" Type X Double row- 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	60 TL17-431
Sound Gasket	 Sound Gasket around perimeter both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation 1 layer 5/8" Type X other side 	50 NOAL19-1043
Sound Gasket	 Sound Gasket Head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation Type X other side 1 layer 5/8" 	51 NOAL18-0762S
Sound Gasket	 Sound Gasket at head-of-wall, both sides 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass insulation 2 layers 5/8" Type X other side 	55 NOAL18-0763S
Sound Gasket	 Sound Gasket at head-of-wall, both sides 1 layer 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	58 NOAL18-0764S
Sound Gasket	 Sound Gasket around perimeter, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	62 NOAL19-1045

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Sound Rated Firestopping for Building Joints

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			STC Ratings
	Sound Gasket	 Sound Gasket at head-of-wall, both sides 2 layers 5/8" Type X Double row- 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	63 NOAL18-0765S
	Sound Gasket	 Sound Gasket around perimeter, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 2 layers 5/8" Type X other side 	66 NOAL19-1046
	Sound Gasket	 Sound Gasket at head-of-wall, both sides 2 layers 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 2 layers 5/8" Type X other side 	67 NOAL19-0766S
Ph.	FAS Track 1000	 FAS Track 1000 at head-of-wall 2 layers 5/8" Type X 3-5/8" Viper (20EQ) Studs, 24" o.c. R13 Fiberglass Insulation 1 layer 5/8" Type X other side 	50 0L15-1013
Ph.	FAS Track 1000	 FAS Track 1000 at head-of-wall 1 layer 5/8" Type X RC1 resilient channel 3-5/8" 20 GA Studs, 24" o.c. R13 Fiberglass insulation 1 layer 5/8" Type X other side 	52 TL08-696
T	FAS Track 1000	 FAS Track 1000 at head-of-wall 1 layer 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 1 layer 5/8" Type X other side 	60 TL12-475
Ph.	FAS Track 1000	 FAS Track 1000 at head-of-wall 1 layer 5/8" Type X Double row 2-1/2" Viper (20EQ) studs (1" air space) 24" o.c. Double layer R13 Fiberglass insulation 2 layers 5/8" Type X other side 	63 TL12-476

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GenieClip®

GenieClip is an engineered sound clip designed for superior acoustical performance in walls and ceilings. It is attached to 25 gauge furring channel, which us used to attach gypsum panel products.

Floor-Ceiling Assemblies

Test Report Number	Ceiling Type	Structure	Finish Floor	Underlayment	Subfloor	STC Rating (ASTM E90)	IIC Rating (ASTM E492
G0535.09	GenieClip® RST, 5/8″ GWB Type C	Open Web Truss	Vinyl Plank	GenieMat RST02PS	3/4" Gypsum, 3/4" OSB	63	59
G1707.07	GenieClip® RST, 5/8" GWB Type C	Open Web Truss	Porcelain Tile	GenieMat RST02PS	3/4" Gypsum, 3/4" OSB	62	54
G1707.08	GenieClip® RST, 5/8″ GWB Type C	Open Web Truss	Wood	GenieMat FF06	3/4" Gypsum, 3/4" OSB	62	60
E5958.16	GenieClip® RST, 5/8″ GWB Type C	Open Web Truss	Vinyl Plank	GenieMat RST05	3/4" OSB	60	55
E5958.17	GenieClip® RST, 5/8" GWB Type C	Open Web Truss	Vinyl Plank	None	3/4" OSB	60	51
F4832.12	GenieClip RST, 2x 1/2″ GWB Type C	Engineered Joist	None	None	3/4" Gypsum, GenieMat FF25, 3/4" OSB	61	59
F4832.14	GenieClip RST, 2x 1/2" GWB Type C	Engineered Joist	Wood	GenieMat RST02	1/2" Plywood, 3/4" OSB	58	61
F4832.18	GenieClip RST, 2x 1/2" GWB Type C	Engineered Joist	Porcelain Tile	GenieMat RST02	1/2" Plywood, 3/4" OSB	59	55
F5500.03	GenieClip RST, 2x 1/2" GWB Type C	Engineered Joist	Vinyl Plank	GenieMat RST02	1/2" Plywood, 3/4" OSB	61	60
F5500.05	GenieClip RST, 2x 1/2" GWB Type C	Engineered Joist	Carpet	None	1/2" Plywood, 3/4" OSB	61	82
5013136 7013208	GenieClip RST, 1/2" GWB Type C	2x10 Solid Wood Joist	Ceramic Tile	GenieMat RST02	5/8" Plywood, 1/2" Plywood	58	52
5013143 7013216	GenieClip RST, 1/2" GWB Type C	2x10 Solid Wood Joist	Vinyl Plank	GenieMat RST02	5/8" Plywood, 1/2" Plywood	55	50
5013119 7013183	GenieClip RST Retrofit	2x10 Solid Wood Joist	Ceramic Tile	GenieMat RST02	5/8" Plywood, 1/2" Plywood	60	50
5014139 7014190	GenieClip RST, 1/2″ GWB Type C	2x10 Solid Wood Joist	None	GenieMat RST02	3/4" Gypsum, GenieMat FF06, 5/8" Plywood	59	52

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Floor-Ceiling Assemblies

Test Report Number	Ceiling Type	Structure	Finish Floor	Underlayment	Subfloor	STC Rating (ASTM E90)	IIC Rating (ASTM E492
E5958.05	6" Drop Ceiling, GenieClip® LB, 5/8" GWB Type X	7" CLT	None	None	2x 11/16″ AdvanTech Wood Subfloor, GenieMat® FF25	61	55
E5958.07	12" Drop Ceiling, GenieClip LB, 5/8" GWB Type X	7" CLT	Vinyl Plank	GenieMat RST05	None	58	58
F2761.08	GenieClip RST, 5/8″ GWB Type C	7" CLT	Wood	GenieMat RST02	None	54	50
F2761.09	GenieClip RST, 5/8″ GWB Type C	7" CLT	Porcelain Tile	GenieMat RST12	None	55	51
F3052.11	1/2" Gypsum, GenieClip RST, 5/8" GWB Type X	16" Insulated Concrete Form	None	None	None	64	55
F3052.12	1/2" Gypsum, GenieClip RST, 5/8" GWB Type X	16" Insulated Concrete Form	Wood	GenieMat RST05	1 1/4″ Gypsum, 9/16″ Steel Deck	63	65
F2761.04	GenieClip RST, 5/8″ GWB Type C	10" Steel Joist	None	3/8" Sound Mat	3/4" Concrete Panel	59	52
F5689.18	GenieClip RST, 2x 5/8″ GWB Type C	10" Steel Joist	Porcelain Title	GenieMat RST12	None	62	50
F5689.20	GenieClip RST, 2x 5/8″ GWB Type C	10" Steel Joist	Vinyl Plank	GenieMat RST02	None	60	52
F5689.05	GenieClip RST, 5/8″ GWB Type C	4" Composite Deck	Vinyl Plank	GenieMat RST02	None	54	55
F5689.06	GenieClip RST, 5/8″ GWB Type C	4" Composite Deck	Wood	GenieMat RST05	None	55	54
F0223.05	GenieClip RST, 5/8″ GWB Type C	8" Hollow Core Plank	Vinyl Plank	GenieMat RST05	None	60	58
F0223.06	GenieClip RST, 5/8″ GWB Type C	8" Hollow Core Plank	None	None	None	60	55
F0223.08	GenieClip RST, 5/8″ GWB Type C	8" Hollow Core Plank	Porcelain Tile	GenieMat RST05	None	58	59
F1751.01	12" Drop Ceiling, 5/8" GWB Type C	6" Concrete Slab	None	None	None	63	42
F1751.02	12" Drop Ceiling, GenieClip C3, 5/8" GWB Type C	6" Concrete Slab	None	None	None	63	52
F1751.05	12" Drop Ceiling, GenieClip LB, 5/8" GWB Type C	6" Concrete Slab	None	None	None	64	53
F1751.03	12" Drop Ceiling, GenieClip C3, 5/8" GWB Type C	6" Concrete Slab	Wood	GenieMat RST05	None	62	68
F1751.04	12" Drop Ceiling, GenieClip LB, 5/8" GWB Type C	6" Concrete Slab	Wood	GenieMat RST05	None	63	69
F9365.07	6" Drop Ceiling, GenieClip LB, 5/8" GWB Type C	6" Concrete Slab	Vinyl Plank	GenieMat RST02PS	None	62	60

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For more information, please contact Marino\WARE® Technical Services at 866.545.1545

This technical information reflects the most current information available and supersedes any and all previous publications effective May 22, 2023 | MW_SoundSolutionsGuide | [©] WARE Industries, Inc., 2023

Steel Stud Wall Assemblies

Test Report Number	Product	Steel Stud Wall Structure	GWB Layers (5/8″ Type X)	TL @80 Hz (dB)	TL @100 Hz (dB)	STC Rating (ASTM E413)
TL07-620	GenieClip® RST	20 Ga., 3 5/8" wide spaced 24" O.C.	1x1	17	25	56
TL07-617	GenieClip RST	20 Ga., 3 5/8" wide spaced 24" O.C.	2x1	24	31	60
TL07-618	GenieClip RST	20 Ga., 3 5/8" wide spaced 24" O.C.	2x2	32	37	64
TL09-600	2x GenieClip RST	20 Ga., 3 5/8" wide spaced 24" O.C.	1x1	22	28	59
TL09-601	2x GenieClip RST	20 Ga., 3 5/8" wide spaced 24" O.C.	2x1	28	36	63
TL09-602	2x GenieClip RST	20 Ga., 3 5/8" wide spaced 24" O.C.	2x2	53	42	66

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Wood Stud Assemblies

TL07-673	GenieClip RST	2x4 spaced 16" O.C.	1X1	20	27	57
TL07-672	GenieClip RST	2x4 spaced 16" O.C.	2x1	27	22	61
TL07-670	GenieClip RST	2x4 spaced 16" O.C.	2x2	31	39	64
TL07-644	GenieClip RST	2x4 spaced 16" O.C.	1x1 +1 layer	16	18	48
TL07-697	GenieClip RST	2x4 spaced 16" O.C.	2x1 +1 layer	17	24	54

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Shaftwall Ratings MARINO WARE

Shaftwall

CT studs are non-load bearing and provide fire protection for shafts, stairwells, and areas where a one-sided application is necessary.

1 Hour Shaftwall Assembly

na na serie da la la seconda da constructor entral en constructor e serie da la seconda de la seconda de la se	• Any III Classified 1" thick Liner Poord Type V	2 ¹ / ₂ "	38/41*
	 Any OL classified 1 till K Liner Board Type X Marino/WARE CT Stud and Tabbed Track Any UL Classified of one layer of 5/8" Type X or 	4"	41/47*
이 것은 것은 것은 것은 것은 것은 것은 것은 것은 것을 가지 않는 것은 것을 가지 않는 것을 것으로 가지가 가지 않는 것을 것을 것을 것을 했다. 	1/2" Type C gypsum wallbard, oriented vertically	er Board Type X abbed Track r of 5/8" Type X or , oriented vertically 6"	44/48*

2 Hour Shaftwall Assembly

2 Hour Stairwall Assembly

Any UL Classified 1" thick Liner Board Type X Marino/WARE CT Stud and Tabbed Track Any UL Classified of two layers of 5/8" Type X or 1/2" Type C gypsum wallboard, oriented vertically. any UL Classified 1" thick Liner Board Type X any UL Classified 1" thick Liner Board Type X any UL Classified 1" thick Liner Board Type X be any UL Classified 1" thick Liner Board Type X be any UL Classified 1" thick Liner Board Type X be any UL Classified 1" thick Liner Board Type X be any UL Classified 1" thick Liner Board Type X be any UL Classified 1" thick Liner Board Type X def the second text of text

* Represents the same assembly with the addition of 1-1/2" of blanket insulation installed in the cavity.

25

STC Rating

STC Rating

STC Rating

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If you have questions or need more information on any of the products listed in this catalog, contact our Technical Services department at technicalservices@marinoware.com, or at 866.545.1545. In most cases Technical Services representatives can provide an immediate response.

*Image above showcases StudRite® by MainoWARE

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	<i>I</i> & <i>IStudRite</i> ∞JoistRite	20000	 High strength-to-mass ratio Increased structural performance due to lip reinforced triangular cutouts and embossments Efficient design for installing plumbing, heating, electrical, and other trades Saves construction professionals valuable time and reduces labor costs
	SE	SURE-BOARD 200 S	• Unsurpassed resistance against loads imposed by seismic activity, hurricane force winds, fire, mold, impact and blast, while actively reducing sound transmission
	RC-MAX		 RC-MAX is manufactured from 0.0190" 50 KSI steel for additional strength Offers economical means for controlling sound transmission
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