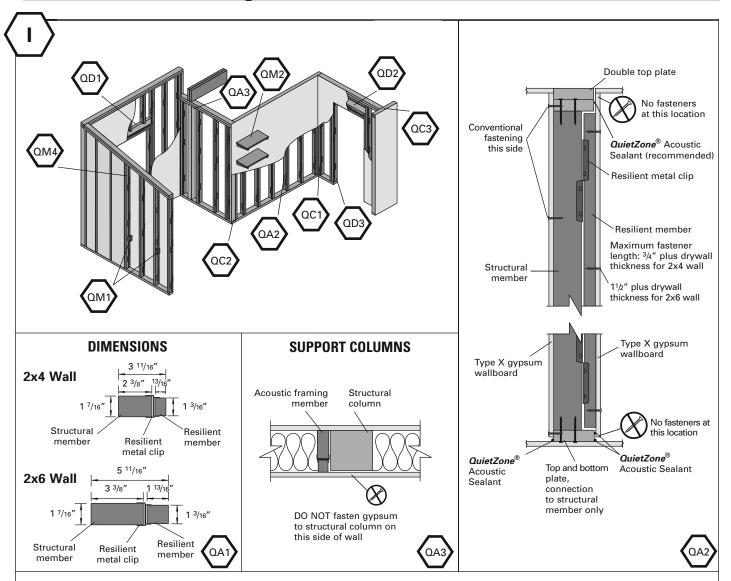




QuietZone® Acoustic Wall Framing

Design and Installation Guide - USA



ALLOWABLE DESIGN VALUES (100% LOAD DURATION) - STRUCTURAL MEMBER

QuietZone® Acoustic Wall Framing featuring Tembec Select Engineered Lumber (Structural Member) and Selectem™ LVL (Resilient Member)

Modulus of elasticity	Е	=	1.4 x 10 ⁶ psi
Bending at extreme fibre	Fb	=	875 psi
Compression parallel to grain	Fc	=	1150 psi
Compression perpendicular to grain	Fcp	=	425 psi
Shear parallel to grain	Fv	=	135 psi

Nail Design Values, Structural Member, Lateral and Withdrawal: Design as per National Design Specification for Wood Construction for Spruce Pine Fir species SG = 0.42

Nail Design Values, Resilient Member, Lateral and Withdrawal: Design as per National Design Specification for Wood Construction for Hem-Fir species SG = 0.43

Code Evaluation for Resilient Member: ESR-1898 (see www.ics-es.org)

Values may be increase by a load duration factor (Cd) if applicable Values may be increased by a size factor (Cf)

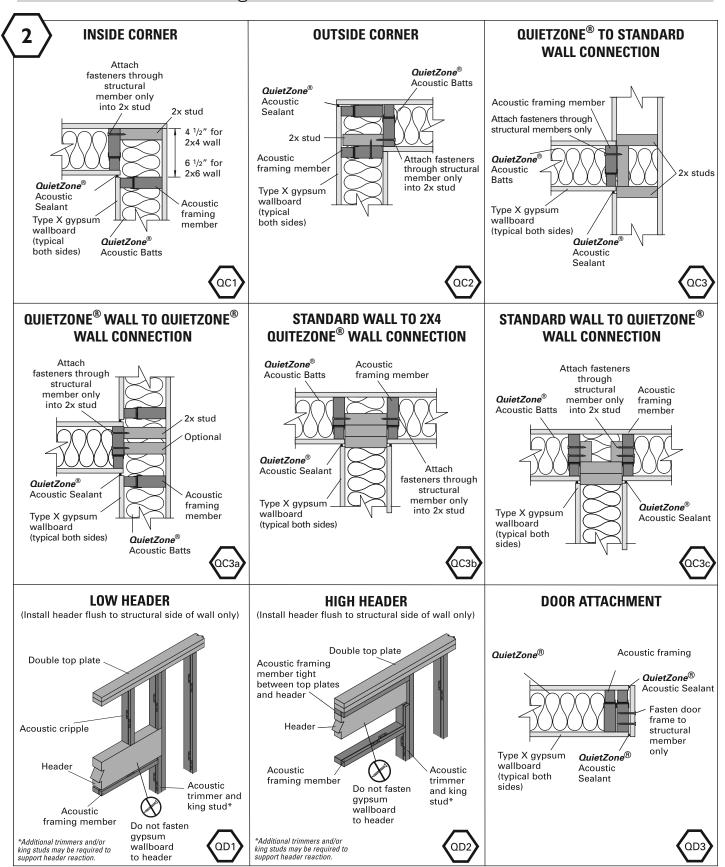
Values may be increased by a repetitive member factor (Cr) if applicable *QuietZone®* Acoustic Wall Framing is to be used in "dry" service conditions only $\textit{QuietZone}^{\circledR} \ \ \text{Acoustic Wall Framing has no Preservative or Fire Retardant Treatment}$ **QuietZone®** Acoustic Wall Framing is to be used as a vertical end-loaded member in compression







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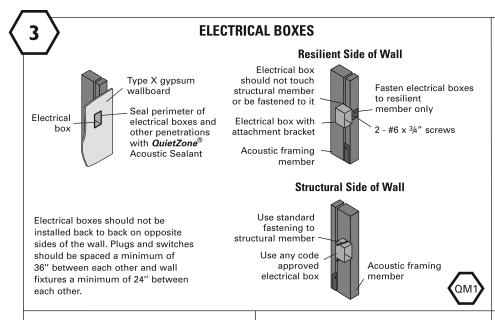


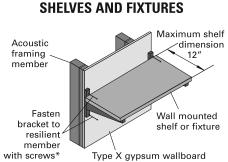




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MAXIMUM WEIGHT OF FIXTURE ATTACHED TO RESILIENT MEMBER SHALL NOT EXCEED 40 LBS PER MEMBER FOR SHELF DIMENSIONS SHOWN ABOVE.

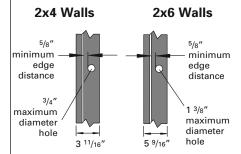
* Fasteners should not extend to the structural member. Maximum fastener length:

2x4 wall - ³/4" + drywall thickness + thickness of bracket

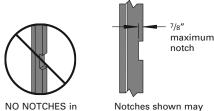
2x6 wall - 15/8" + drywall thickness + thickness of bracket



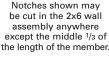
ALLOWABLE HOLES AND NOTCHES



Holes shown may be cut anywhere along the length of the member, but no closer than 5%" from the edge.



NO NOTCHES in the 2x4 wall assembly!





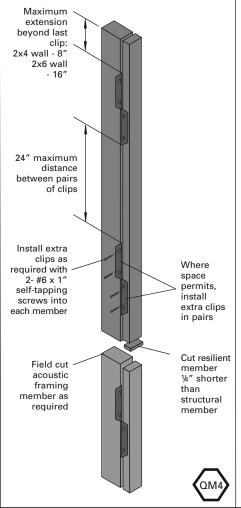
DO NOT run electrical wires or pipes through the gap between members for either 2x4 or 2x6 wall framing!



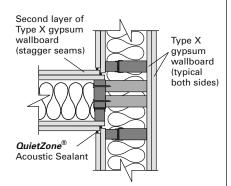
Notches and holes shall not occur in the same cross section!



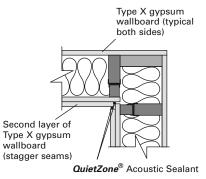
CUTTING NON-STANDARD LENGTHS



MULTIPLE LAYERS OF GYPSUM



Apply *QuietZone®* Acoustic Sealant along corner of first layer of Type X gypsum wallboard before applying second layer of Type X gypsum wallboard.



Apply *QuietZone®* Acoustic Sealant along corner of first layer of Type X gypsum wallboard before applying second layer of Type X gypsum wallboard.

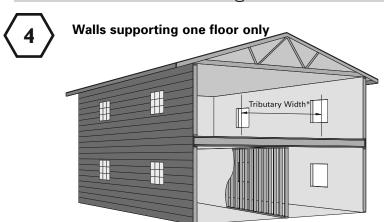




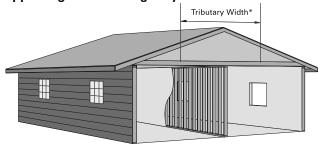


QuietZone® Acoustic Wall Framing

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Walls supporting attic framing only



*Tributary width is calculated as a percentage of the sum of the joist spans on either side of the wall: simple span: 0.5 ft x (left span + right span) continuous span: 0.625 ft x (left span + right span)

GENERAL NOTES

- QuietZone® Acoustic Wall Framing is intended for interior walls only.
 Call toll free 1-866-864-5710 for information on other applications.
- 2x4 QuietZone® Acoustic Wall Framing has load-bearing capabilities similar to 2x3 wood framing; see design tables for details.
- 2x6 QuietZone® Acoustic Wall Framing has load-bearing capabilities similar to 2x4 wood framing; see design tables for details.
- Screws are recommended for fastening drywall, shelves, and fixtures to QuietZone® Acoustic Wall Framing. Use caution if fastening drywall to resilient member using a nailgun.
- QuietZone® Acoustic Batts (15" or 23" width) will be required in the cavity space between wall framing sections spaced either 16" or 24" o.c. when using 2 x 4 & 2 x 6 QuietZone® Acoustic Wall Framing.
- QuietZone® Acoustic Batts fit between wood framing members with the flanges stapled to the sides of the QuietZone® Acoustic Wall Framing structural members.

WARNING: LACK OF PROPER BRACING, INSUFFICIENT WALL SYSTEM DESIGN OR FAILURE TO FOLLOW THE INSTRUCTIONS SET FORTH HEREIN COULD LEAD TO PROPERTY DAMAGE AND/OR SERIOUS BODILY INJURY. NEITHER OWENS CORNING NOR TEMBEC SHALL BE RESPONSIBLE FOR ANY DAMAGE, LOSS, COSTS OR EXPENSES RELATING TO ANY MISUSE OF THE PRODUCTS DESCRIBED ABOVE, OR ANY FAILURE TO ADHERE TO THESE INSTRUCTIONS.

For more information on the *QuietZone*® Acoustic Wall Framing, call **I-866-864-5710**. For more information on other *QuietZone*® Products (*QuietZone*® Acoustic Batt & *QuietZone*® acoustic sealant) call **I-800-GET-PINK**™, or visit www.owenscorning.com.



Maximum Tributary Width* (ft)

One Floor Only

Member	Wall Height	Member Spacing	Floor Load			
Nominal Size			40LL + 12DL	40LL + 25DL		
2×4	8'	16" o.c.	13	10		
		24'' o.c.	П	9		
	9'	16" o.c.	9	7		
		24'' o.c.	_	_		
	10'	16" o.c.	_	_		
		24'' o.c.	_	_		
2×6	8'	16" o.c.	30	30		
		24'' o.c.	30	30		
	9'	16" o.c.	30	30		
		24'' o.c.	30	28		
	10'	16" o.c.	30	24		
		24'' o.c.	26	21		
	12'	16" o.c.	16	13		
		24'' o.c.	13	10		

Maximum Tributary Width* (ft)

Attic Framing Only

	Attic Framing Unly					
Member Nominal Size	Wall Height	Member Spacing	Attic Load (psf unfactored) 20LL + 10DL			
2×4	8'	16" o.c.	22			
		24'' o.c.	19			
	9'	16" o.c.	15			
		24'' o.c.	12			
	10'	16" o.c.	10			
		24'' o.c.	_			
2×6	2×6 8'		30			
		24'' o.c.	30			
	9'	16" o.c.	30			
		24'' o.c.	30			
	10'	16" o.c.	30			
		24'' o.c.	30			
	12'	16" o.c.	28			
		24'' o.c.	23			

Maximum Vertical Load (plf factored)

Interior Walls Only

		2x4 Wall			2x6 Wall		
Wall	Stud	On Center Spacing			On-C	acing	
Heigh		12"	16"	24"	12"	16"	24"
8'	925/8"	1,055	965	810	3,715	3,715	3,470
9'	1045/8''	735	655	520	3,030	2,875	2,590
10'	1165/8"	515	450	330	2,335	2,190	1,925
12'	144''	_	_	_	1,315	1,195	980

Table is based upon:

- Type X gypsum wallboard applied to each side of the wall
- Interior lateral wall pressure of 5 psf



OWENS CORNING INSULATING SYSTEMS, LLC

ONE OWENS CORNING PARKWAY TOLEDO, OHIO 43659

LIVING" 1.

1-800-GET-PINK™

www.quietzone.com

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