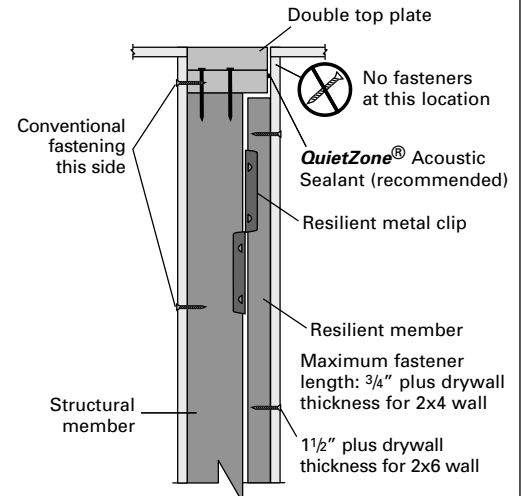
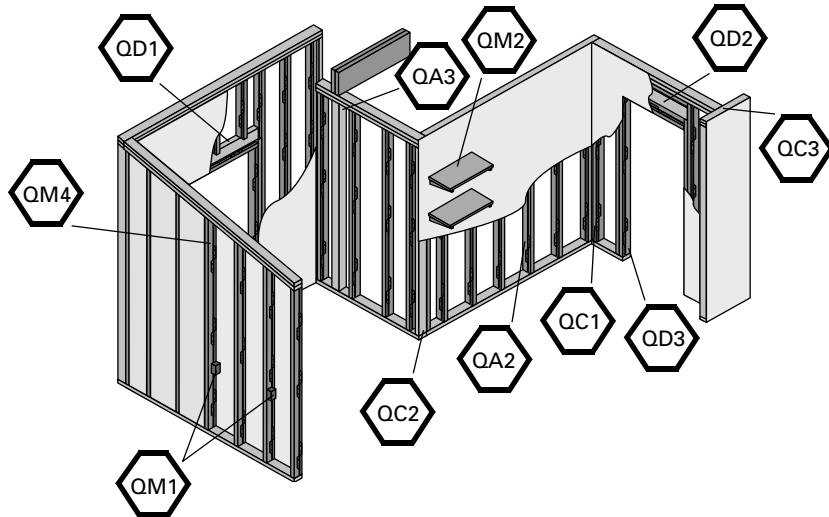


Design and Installation Guidelines

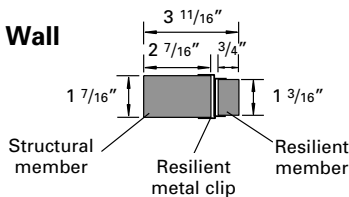


1 CANADA QuietZone® Acoustic Wall Framing

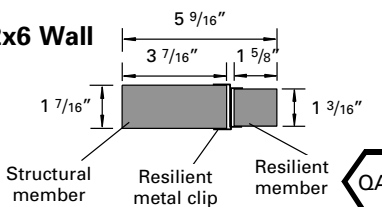


DIMENSIONS

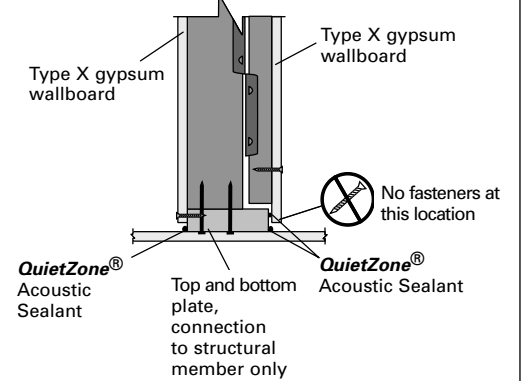
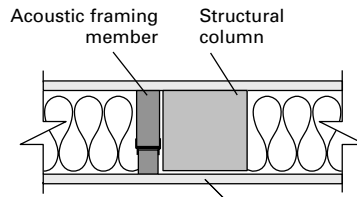
2x4 Wall



2x6 Wall



SUPPORT COLUMNS



LIMIT STATES DESIGN VALUES

Specified Strengths and Modules of Elasticity Structural Member ($K_D = 1.0$)

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

Modulus of elasticity	E = 1.379 x 10 ⁶ psi
Bending at extreme fibre	F _b = 1711 psi
Compression Parallel to grain	F _c = 1668 psi
Compression perpendicular to grain	F _{cp} = 769 psi
Longitudinal shear	F _v = 145 psi

Nail Design Values, Structural Member, Lateral and Withdrawal: Design as per CSA Standard O86-01, Engineering Design in Wood for Spruce-Pine-Fir species

Nail Design Values, Resilient Member, Lateral and Withdrawal: Design as per CSA Standard O86-01, Engineering Design in Wood for Hem-Fir, SG = 0.43

Code Evaluation for Resilient Member: CCMC

Evaluation Report CCMC 12453-R

Values may be increased by a system factor (K_H) if applicable

Values may be increased by a load duration factor (K_D) if applicable

Values may be increased by a size factor (K_z)

QuietZone® Acoustic Wall Framing is to be used in "dry" service conditions only

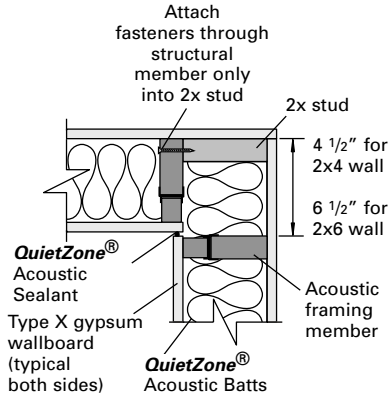
QuietZone® Acoustic Wall Framing has no Preservative or Fire Retardant Treatment

Design and Installation Guidelines

2

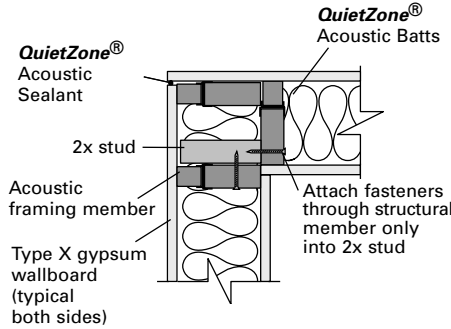
QuietZone® Acoustic Wall Framing

INSIDE CORNER



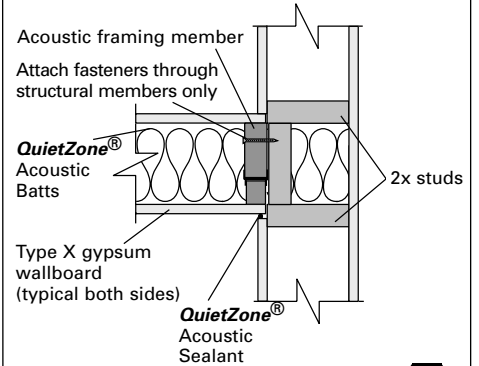
QC1

OUTSIDE CORNER



QC2

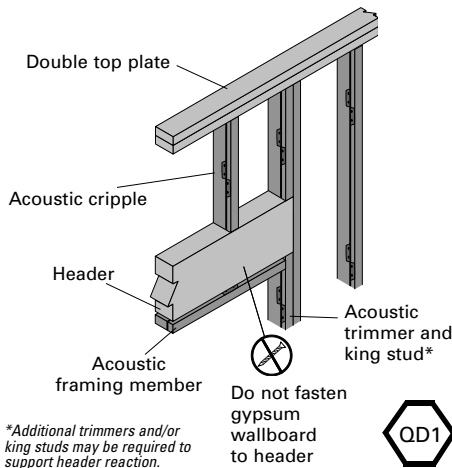
QUIETZONE® TO STANDARD WALL CONNECTION



QC3

LOW HEADER

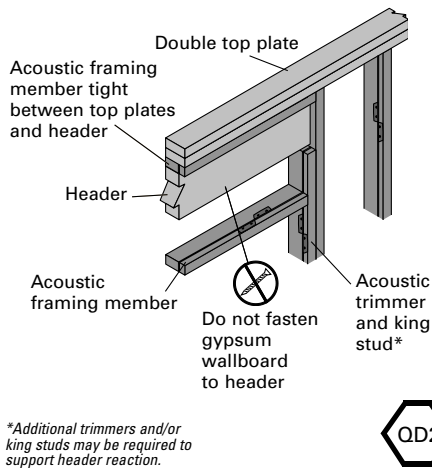
(Install header flush to structural side of wall only)



QD1

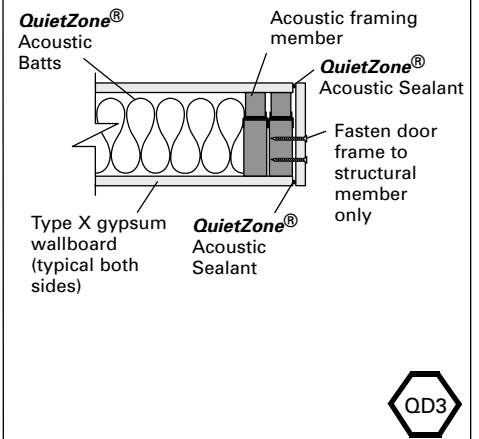
HIGH HEADER

(Install header flush to structural side of wall only)



QD2

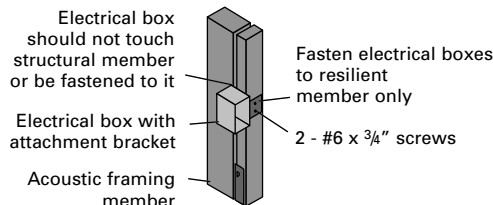
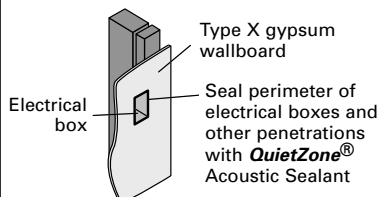
DOOR ATTACHMENT



QD3

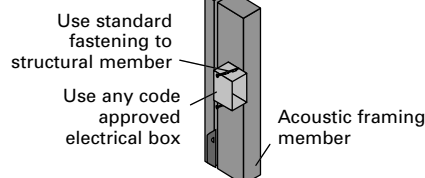
ELECTRICAL BOXES

Resilient Side of Wall



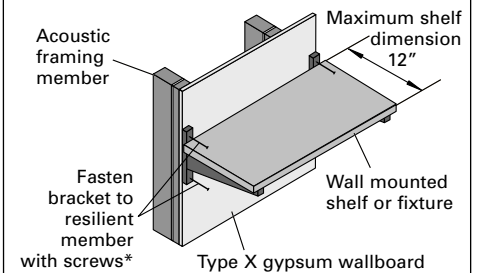
Structural Side of Wall

Electrical boxes should not be installed back to back on opposite sides of the wall. Plugs and switches should be spaced a minimum of 36" between each other and wall fixtures a minimum of 24" between each other.



QM1

SHELVES AND FIXTURES



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 - 1 5/8" + drywall thickness + thickness of bracket

QM2

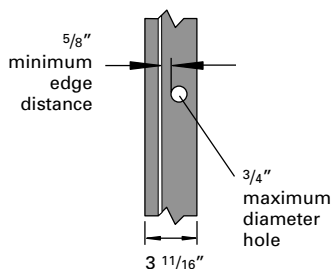
Design and Installation Guidelines

3

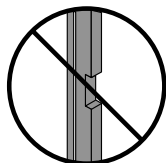
QuietZone® Acoustic Wall Framing

ALLOWABLE HOLES AND NOTCHES

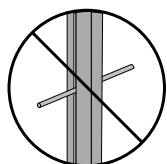
2x4 Walls



Holes shown may be cut anywhere along the length of the member, but no closer than 5/8" from the edge.

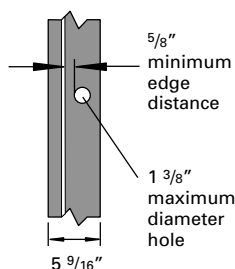


NO NOTCHES in the 2x4 wall assembly!

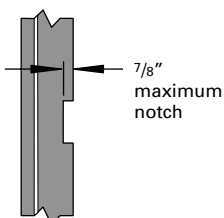


DO NOT run electrical wires or pipes through the gap between members for either 2x4 or 2x6 wall framing!

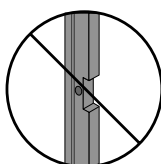
2x6 Walls



Holes shown may be cut anywhere along the length of the member, but no closer than 5/8" from the edge.



Notches shown may be cut in the 2x6 wall assembly anywhere except the middle 1/3 of the length of the member.

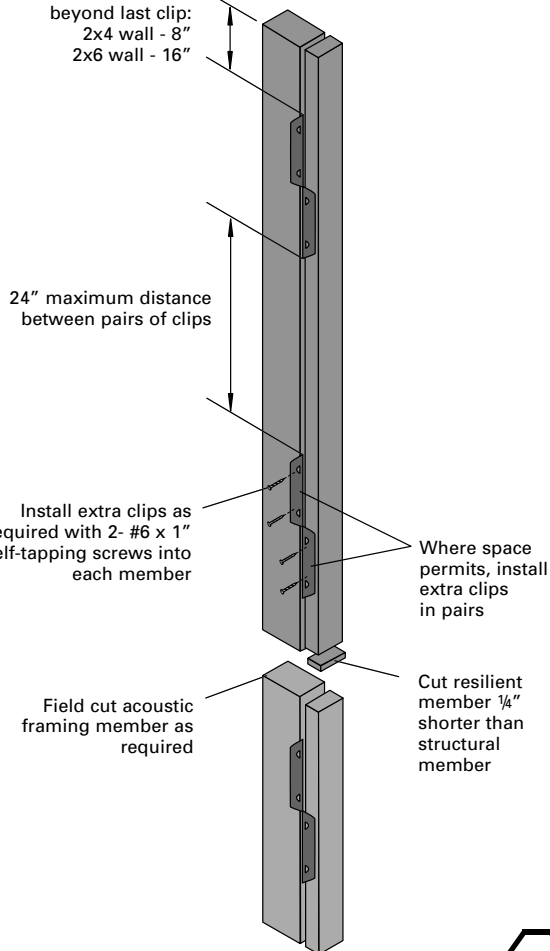


Notches and holes shall not occur in the same cross section!



CUTTING NON-STANDARD LENGTHS

Maximum extension beyond last clip:
2x4 wall - 8"
2x6 wall - 16"

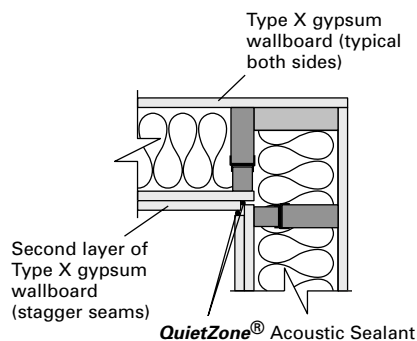


GENERAL NOTES

- **QuietZone®** Acoustic Wall Framing is intended for interior walls only. Contact Jager Building Systems at 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.

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.

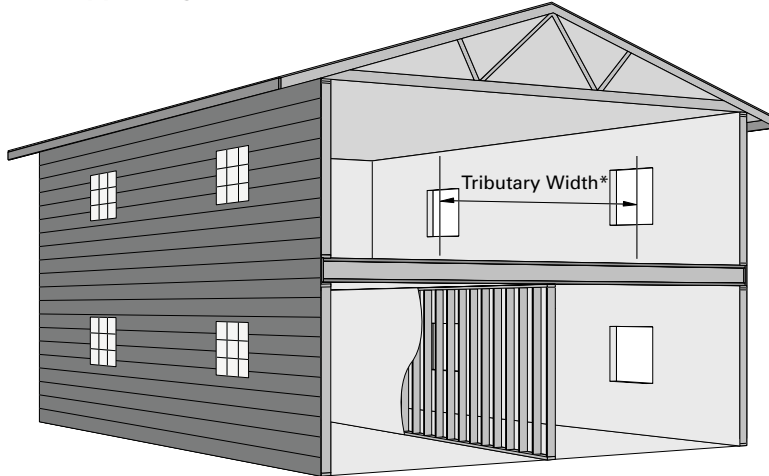


Design and Installation Guidelines

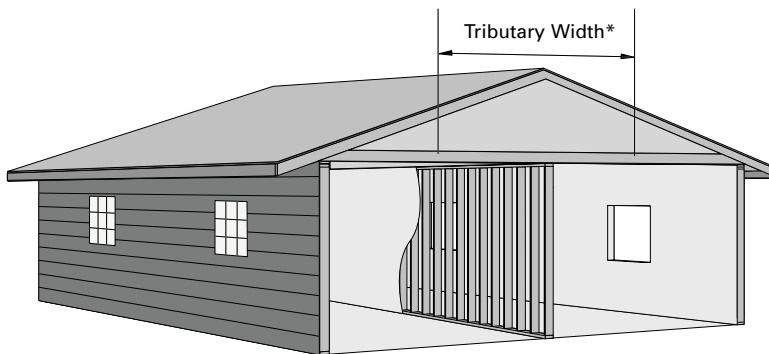
4

QuietZone® Acoustic Wall Framing

Walls supporting one floor only



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)

For more information on the QuietZone® Acoustic Wall Framing call Jager Building Systems at **1-866-864-5710**. For more information on other QuietZone® Products (QuietZone® Acoustic Batt & QuietZone® acoustic sealant) call **1-800-GET-PINK**, or visit www.owenscorning.com.



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FOREST PRODUCTS GROUP

www.tembec.com

Maximum Tributary Width* (ft) One Floor Only

Member Nominal Size	Wall Height	Member Spacing	Floor Load (psf unfactored)	
			40LL + 12DL	40LL + 25DL
2x4	8'	16" o.c.	13	10
		24" o.c.	11	9
	9'	16" o.c.	9	7
		24" o.c.	---	---
	10'	16" o.c.	---	---
		24" o.c.	---	---
2x6	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
	14'	16" o.c.	9	7
		24" o.c.	---	---

Maximum Tributary Width* (ft) Attic Framing Only

Member Nominal Size	Wall Height	Member Spacing	Attic Load (psf unfactored)
			20LL + 10DL
2x4	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.	---
2x6	8'	16" o.c.	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
	14'	16" o.c.	16
		24" o.c.	12

Maximum Vertical Load (plf factored) Interior Walls Only

Wall Height	Stud Length	2x4 Wall			2x6 Wall		
		On-Center Spacing			On-Center Spacing		
		12"	16"	24"	12"	16"	24"
8'	92 5/8"	1055	965	810	3715	3715	3470
9'	104 5/8"	735	655	520	3030	2875	2590
10'	116 5/8"	515	450	330	2335	2190	1925
12'	144"				1315	1195	980
14'	168"				815	715	535

Table is based upon:

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