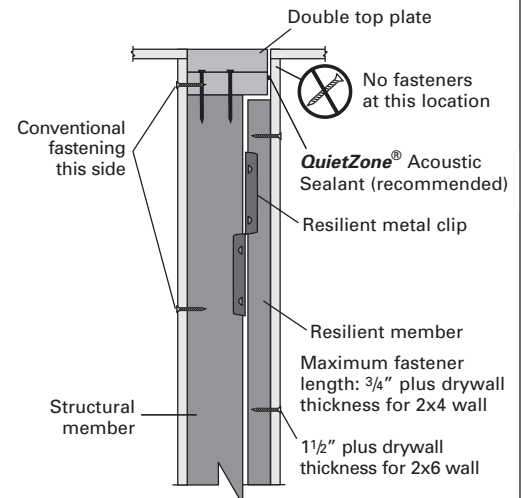
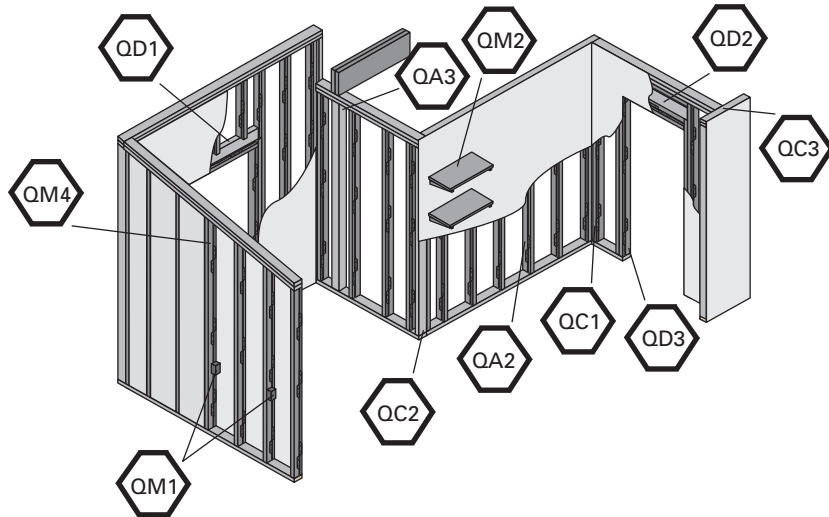


Design and Installation Guidelines

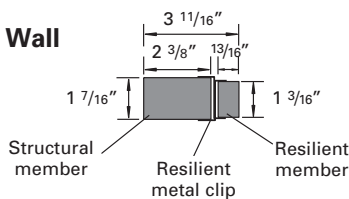


1 USA QuietZone® Acoustic Wall Framing

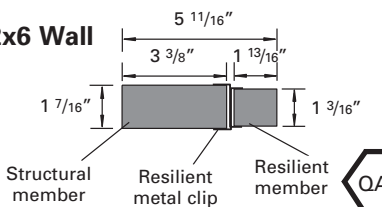


DIMENSIONS

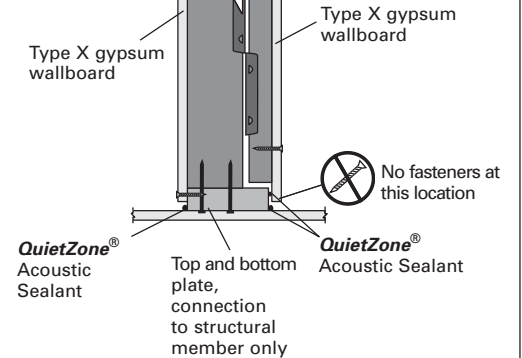
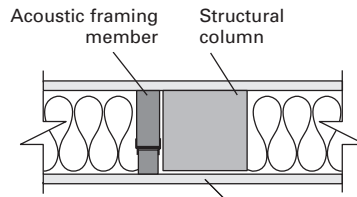
2x4 Wall



2x6 Wall



SUPPORT COLUMNS



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	E = 1.4 x 10 ⁶ psi
Bending at extreme fibre	F _b = 875 psi
Compression parallel to grain	F _c = 1150 psi
Compression perpendicular to grain	F _{cp} = 425 psi
Shear parallel to grain	F _v = 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 increased by a repetitive member factor (Cr) if applicable
 Values may be increase by a load duration factor (Cd) if applicable
 Values may be increased by a size factor (Cf)

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

Design and Installation Guidelines

2

QuietZone® Acoustic Wall Framing

<p>INSIDE CORNER</p> <p>QC1</p>	<p>OUTSIDE CORNER</p> <p>QC2</p>	<p>QUIETZONE® TO STANDARD WALL CONNECTION</p> <p>QC3</p>
<p>QUIETZONE® WALL TO QUIETZONE® WALL CONNECTION</p> <p>QC3a</p>	<p>STANDARD WALL TO 2X4 QUIETZONE® WALL CONNECTION</p> <p>QC3b</p>	<p>STANDARD WALL TO QUIETZONE® WALL CONNECTION</p> <p>QC3c</p>
<p>LOW HEADER (Install header flush to structural side of wall only)</p> <p>QD1</p>	<p>HIGH HEADER (Install header flush to structural side of wall only)</p> <p>QD2</p>	<p>DOOR ATTACHMENT</p> <p>QD3</p>

*Additional trimmers and/or king studs may be required to support header reaction.

Do not fasten gypsum wallboard to header

*Additional trimmers and/or king studs may be required to support header reaction.

Do not fasten gypsum wallboard to header

Design and Installation Guidelines

3

QuietZone® Acoustic Wall Framing

ELECTRICAL BOXES

Resilient 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.

Structural Side of Wall

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

ALLOWABLE HOLES AND NOTCHES

2x4 Walls

2x6 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!

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

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

QM3

CUTTING NON-STANDARD LENGTHS

QM4

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.

QM5

