

IsoMax: Sound Isolation Clips Installation Guidelines

1. Attach clips per Kinetics layout guidelines for walls or ceilings.
 See attached layout drawings.
2. Secure clips with a single fastener on one end only. (Figure 2)
Wood - Use #8 x 2-1/2" coarse thread screws
Steel - Use #8, 10, or 12 x 1-5/8" self-tapping Type S screws
Concrete or Masonry* - Use 3/16" dia x 2-1/4" Tapcon or equal anchor
 *For Powder Actuated Fasteners see Appendix 1 on the third page of this document.

Optional

Alternate method for Step 2. Snap clips onto furring channel. Hand slide clips to proper location on the furring channel. Fasten both ends of the clip to secure the channel.

3. Grip unsecured rubber end, snap in channel.
 Secure with second screw/anchor.

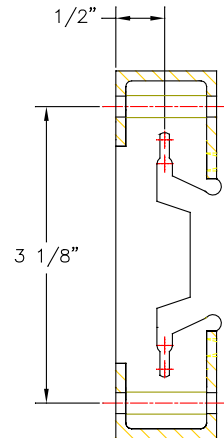


Figure 1

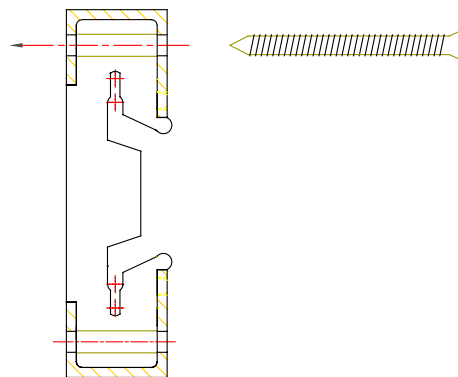


Figure 2

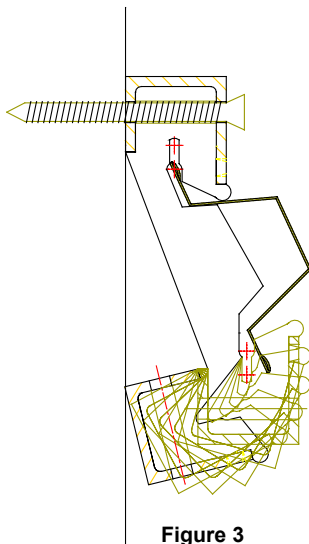


Figure 3

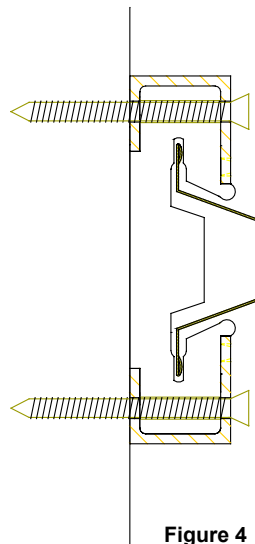


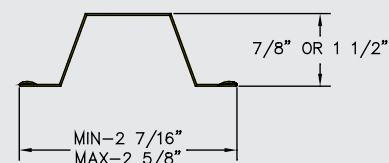
Figure 4

Furring Channel Requirements

Minimum 25 ga with hemmed edge.
 Standard - 7/8" deep channel
 Optional - 1-1/2" deep channel for additional furring space.

Splice furring channel with a 6-in overlap and secure overlapped pieces with wire or screws per standard industry practice.

Furring Channel Dimensions



Load Specification for IsoMax Clips

The IsoMax clip is designed to carry a drywall furring channel (hat track) with one or more layers of gypsum wallboard attached. THE LOAD CAPACITY OF THE CLIP DEPENDS ON THE GAGE OF FURRING CHANNEL USED. Lighter, 25 ga, furring channel carries less load than 22 ga channel. The maximum design load capacity for the IsoMax clip in shear (wall application) or in tension (ceiling application) is as follows. Design load calculations are based on tested loading to failure where the furring channel deforms and pulls out.

	Design Load Maximum for Wall or Ceiling Application	
	<u>2:1 safety factor</u>	<u>2.5:1 safety factor*</u>
IsoMax clip with 25 ga steel furring channel	45 lbs.	36 lbs.
IsoMax clip with 22 ga steel furring channel	60 lbs.	48 lbs.

Note: 5/8" thick gypsum wallboard weighs 2.3 lbs/sq ft. 1/2" thick gypsum wallboard weighs 1.85 lbs/sq ft.

* Suggested safety factor of 2.5:1 for more critical life safety applications; i.e., hospitals

Installation of IsoMax Sound Isolation Clips - Walls and Ceilings

- Spacing of clips on the furring channel shall be a maximum of 48 inches.
- Spacing between furring channels shall be a maximum of 24 inches.
- Use only the required size and gage of furring channel per the Furring Channel Requirements section and Load Specification section of this document.
- (Walls only) The first layer of gypsum wallboard shall align seams between sheets on the centerline of the horizontal furring channels.
- (Walls only) The bottom row of clips with furring channel(s) should be a maximum 3 inches to the center of the channel from the floor. The top row should be within 6 inches of the ceiling.
- (Walls only) The first row of gypsum wallboard sheets at the bottom of the wall shall be installed with the long dimension supported on a 1/4 inch thick continuous resilient isolation strip, Kinetics Model RWS.
- (Ceilings only) The IsoMax clips should be within 12 inches of the ceiling perimeter at the end of the furring channel run.
- (Ceilings only) The first row of channel at the ceiling perimeter should be a maximum 6" from the wall.
- Furring channels are installed perpendicular to the framing members.

General Information

All potential sound leaks; gaps around outlets, window, or door frames; pipe penetrations and the like should be sealed with a non-hardening acoustical sealant or resilient putty.

Note: See Kinetics Model Sealtight Outlet Backers.

Fire-rated wall and ceiling assemblies and the specific construction requirements are listed at:

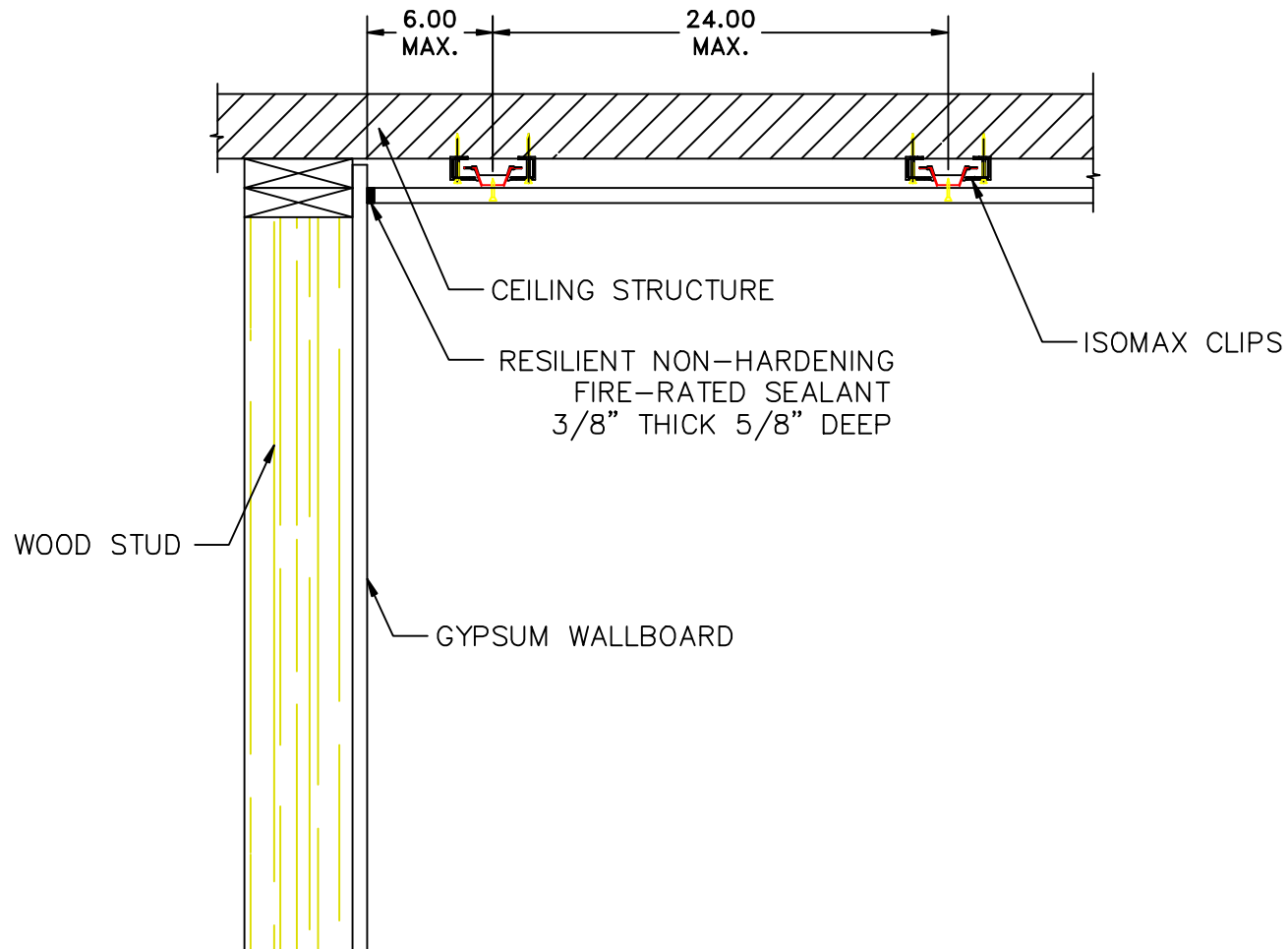
Go to www.ul.com.

On-line Certification Directory - Type **Kinetics Noise Control** in Search by Company.

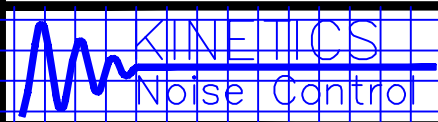
Links to Listings will be displayed.

PAF Attachment of IsoMax

IsoMax hangers may be attached to concrete using the Hilti X-U powder actuated fastener (PAF). To ensure sufficient fastener embedment depth, fasteners shall be limited to the X-U 57 and X-U 62 of the X-U product line. Fasteners are to be installed in accordance with Hilti installation instructions and ICC-ES ESR 2269 guidelines.



RESILIENTLY MOUNTED CEILING
WITH DIRECT ATTACHED WALL



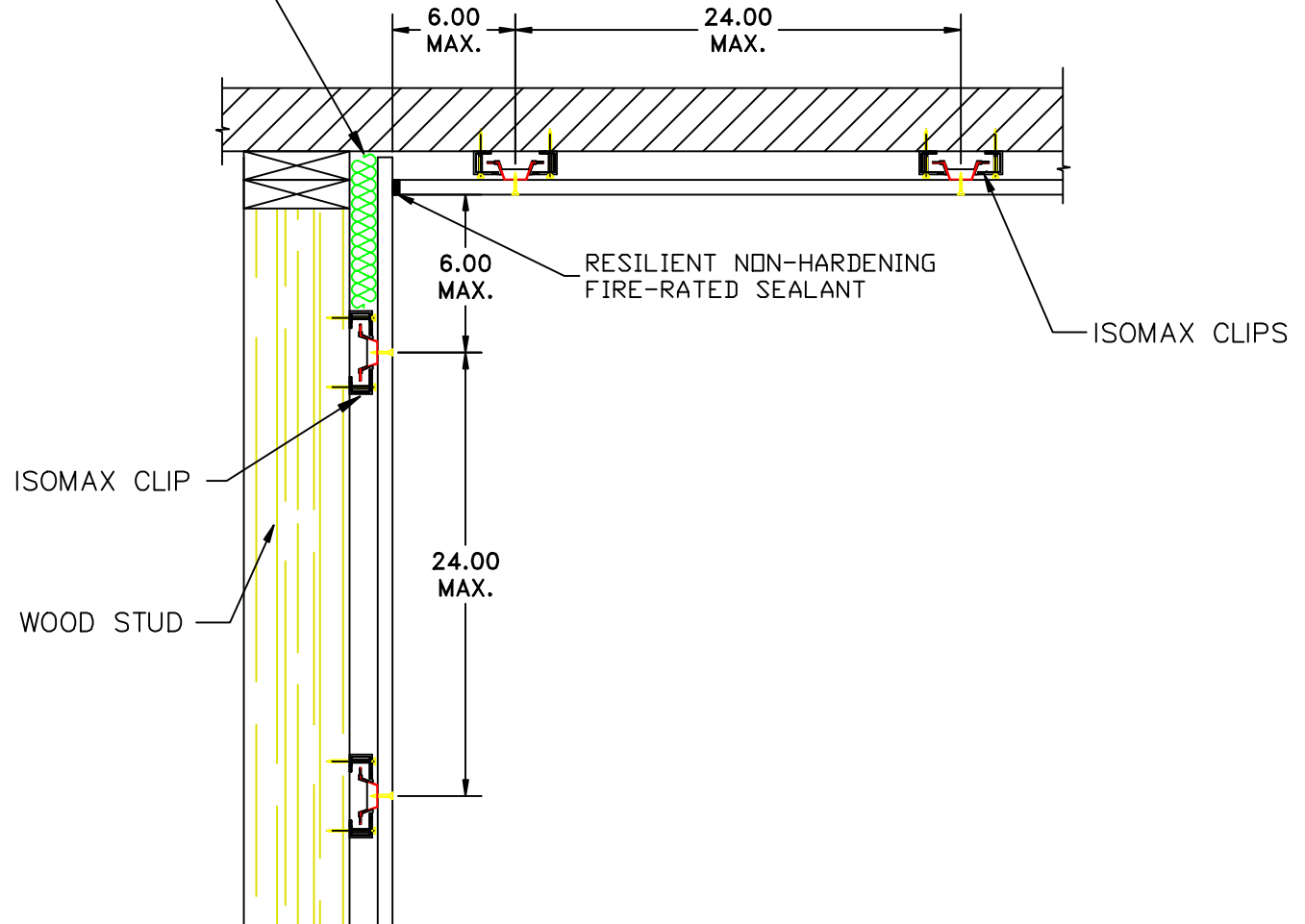
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KINETICS NOISE CONTROL
ISOMAX CLIP INSTALLATION 1

LAST DATE
REVISED
7/24/07

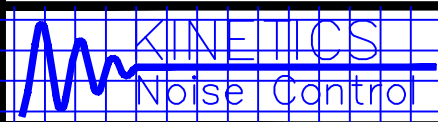
REVISED BY
J.FARRAR

DRAWING NO.
ISOMAX INSTALL 1

MINERAL FIBER INSULATION
FOR FIRE STOPPING



RESILENTLY MOUNTED WALL & CEILING

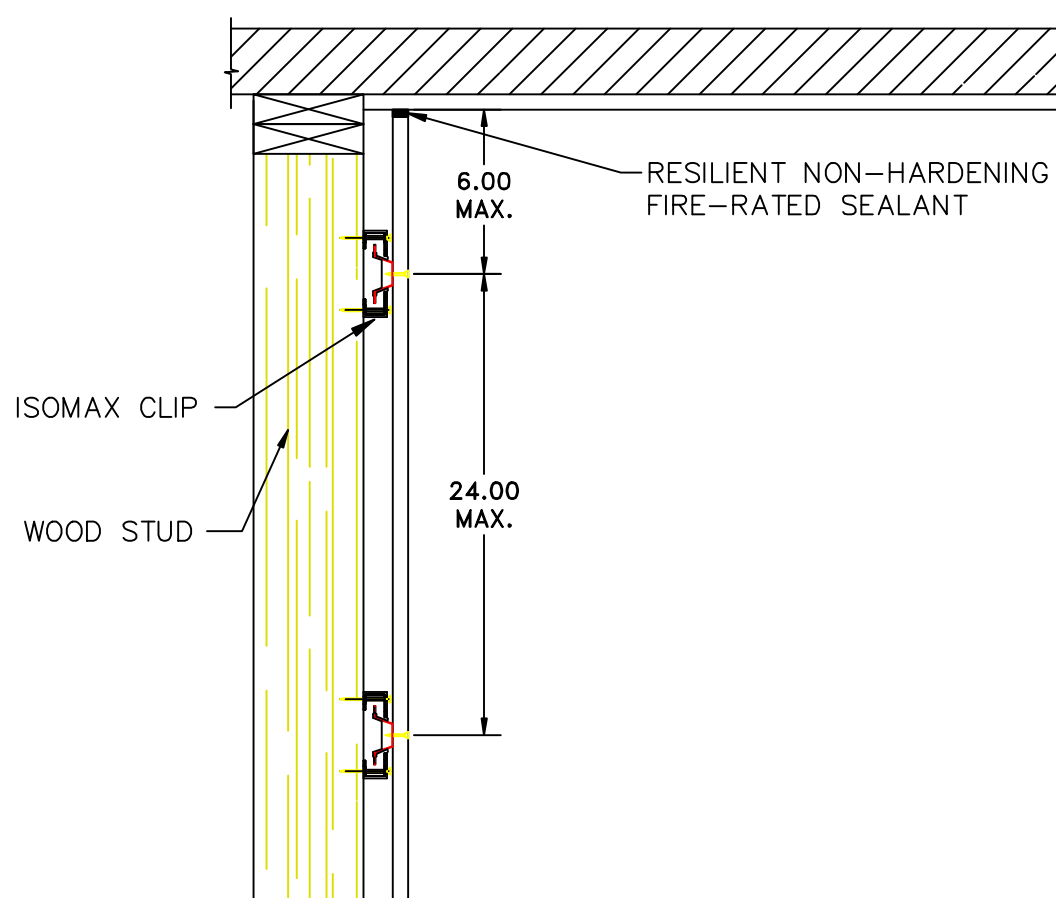


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ISOMAX CLIP INSTALLATION 2

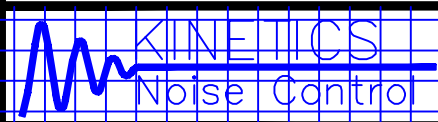
LAST DATE
REVISED
7/24/07

REVISED BY
J.FARRAR

DRAWING NO.
ISOMAX INSTALL 2



RESILIENTLY MOUNTED WALL
WITH DIRECT ATTACHED CEILING

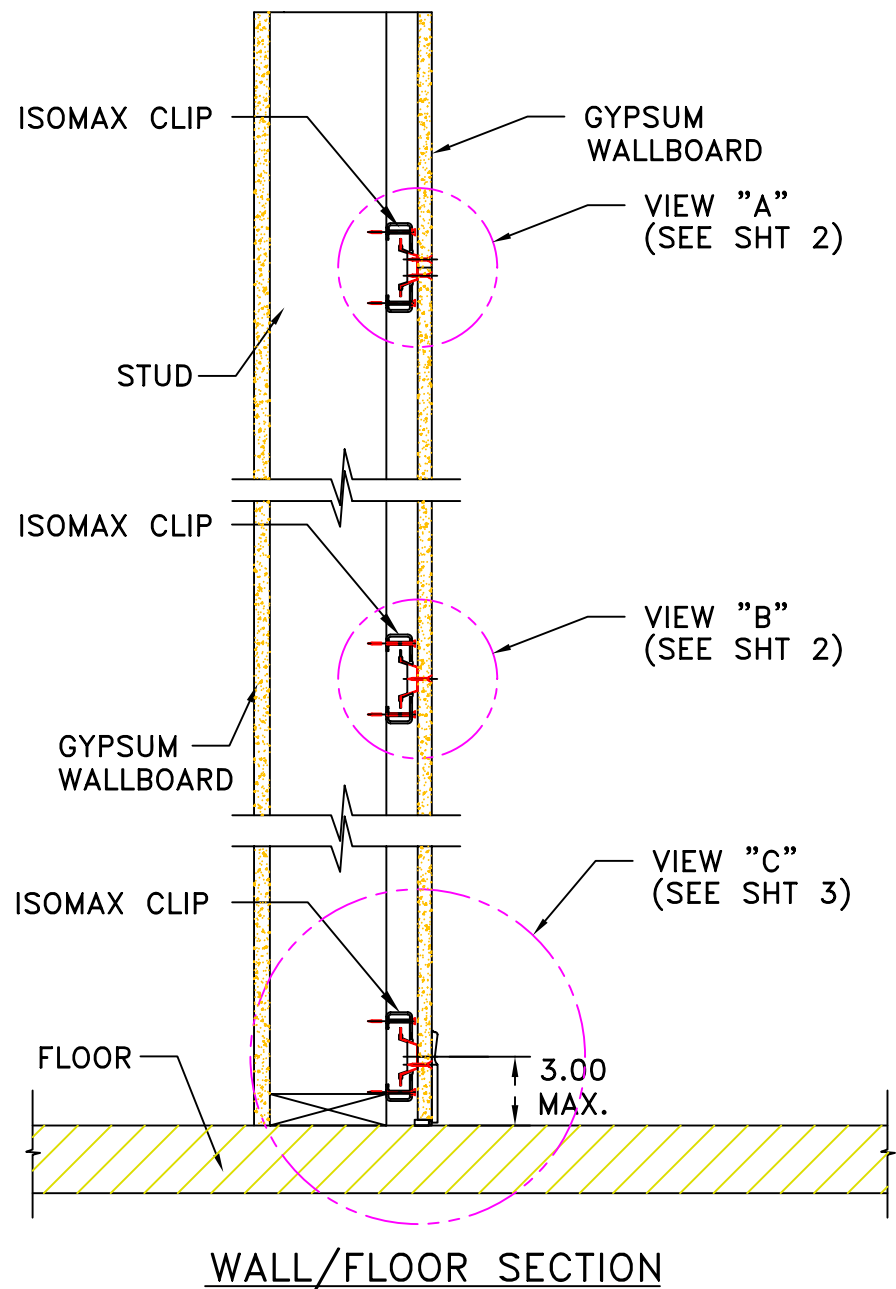


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ISOMAX CLIP INSTALLATION 3

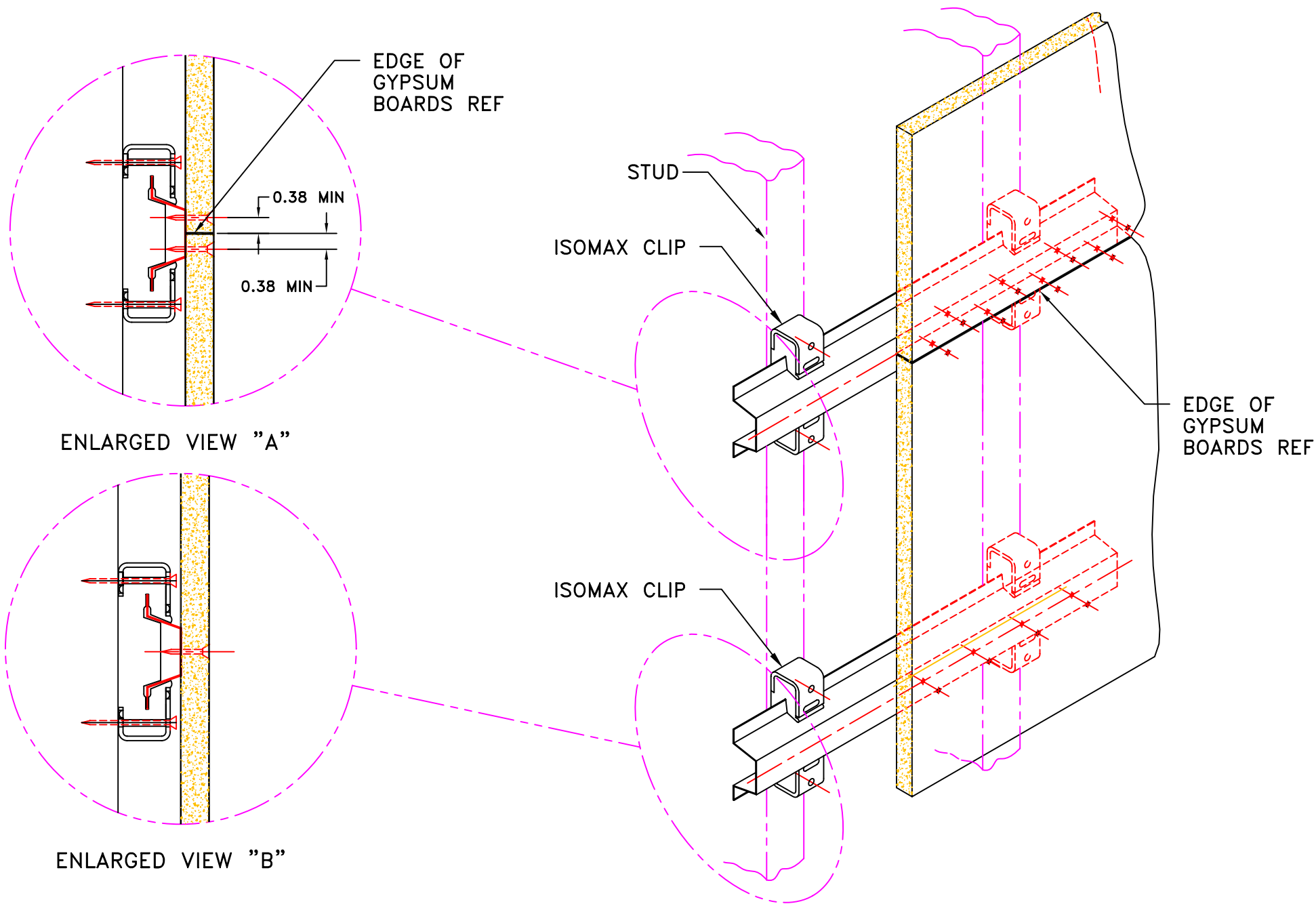
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REVISED
7/24/07

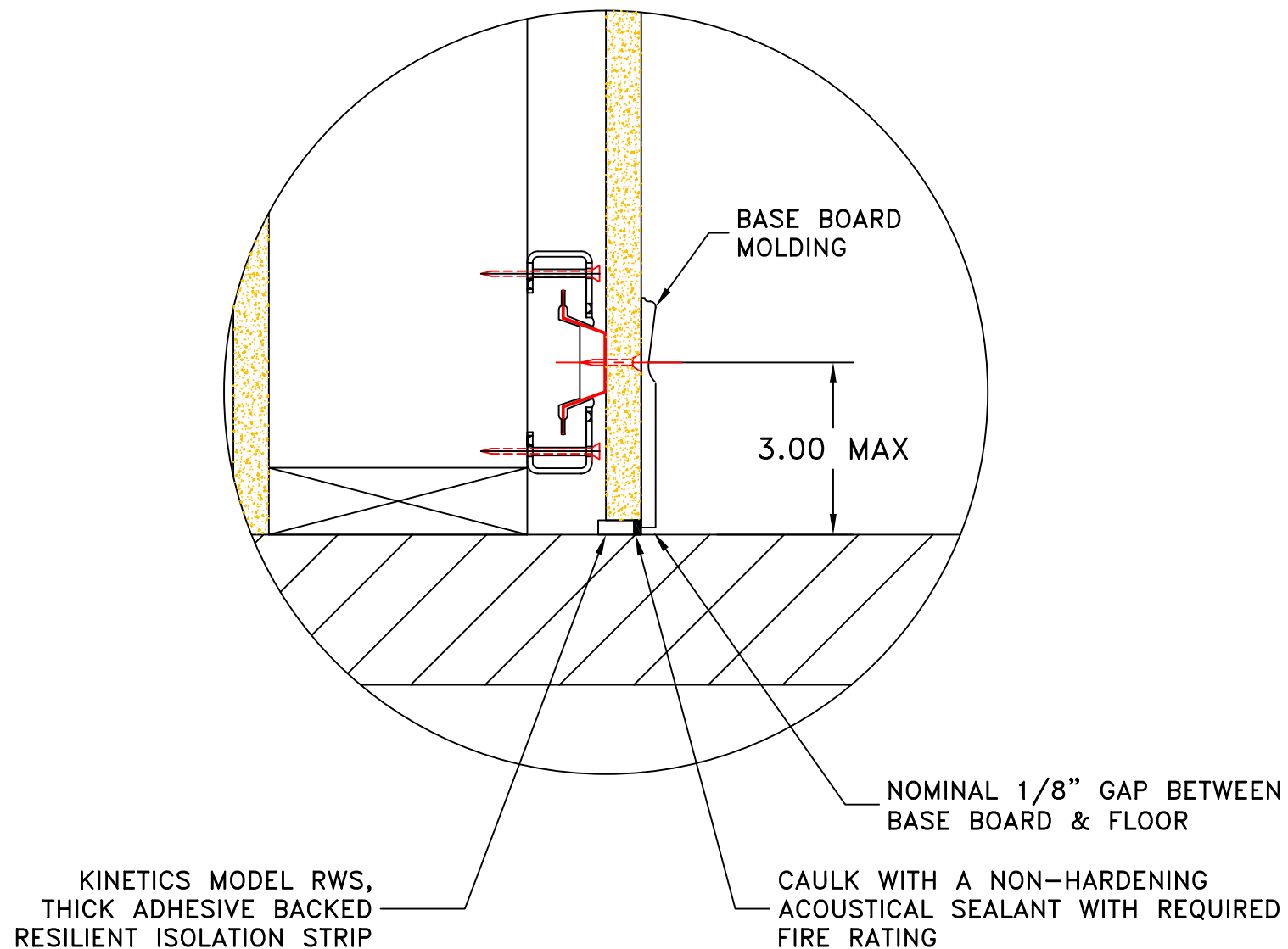
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J.FARRAR

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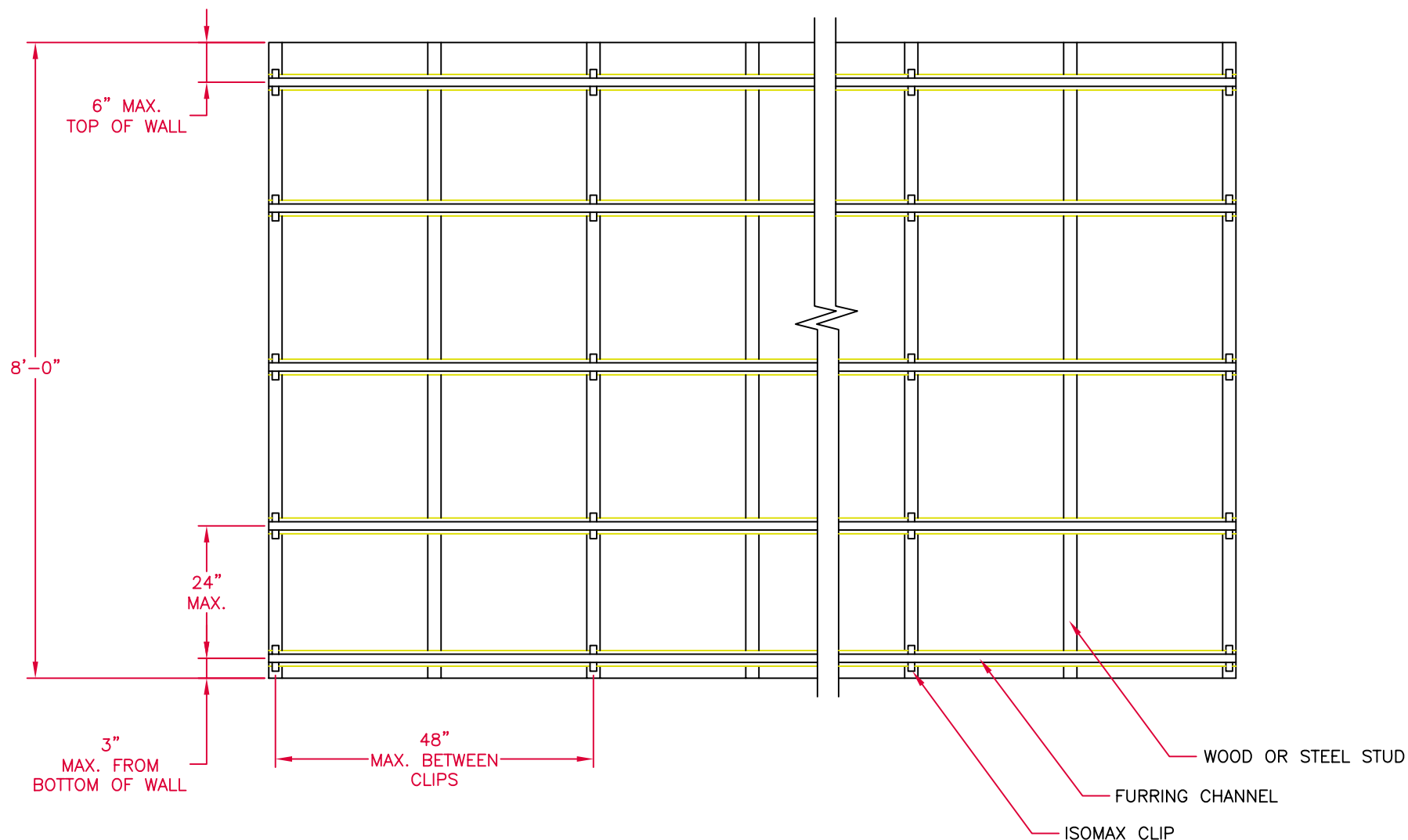


NOTE: FOR ACOUSTICAL ISOLATION
BASE BOARD OR ANY OTHER
WALL ATTACHMENTS MUST NOT
TOUCH THE FLOOR.





ENLARGED VIEW "C"



CLIP TO BE 12" MAXIMUM
FROM THE END OF CHANNEL
AT CEILING PERIMETER

24"
O.C. MAX.

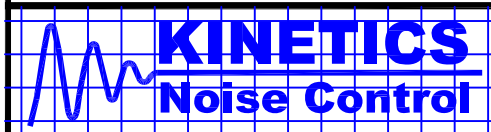
6"
MAX. FROM
EDGE OF CEILING

48"
MAX. BETWEEN
CLIPS

WOOD OR STEEL JOIST/TRUSS

FURRING CHANNEL

ISOMAX CLIP



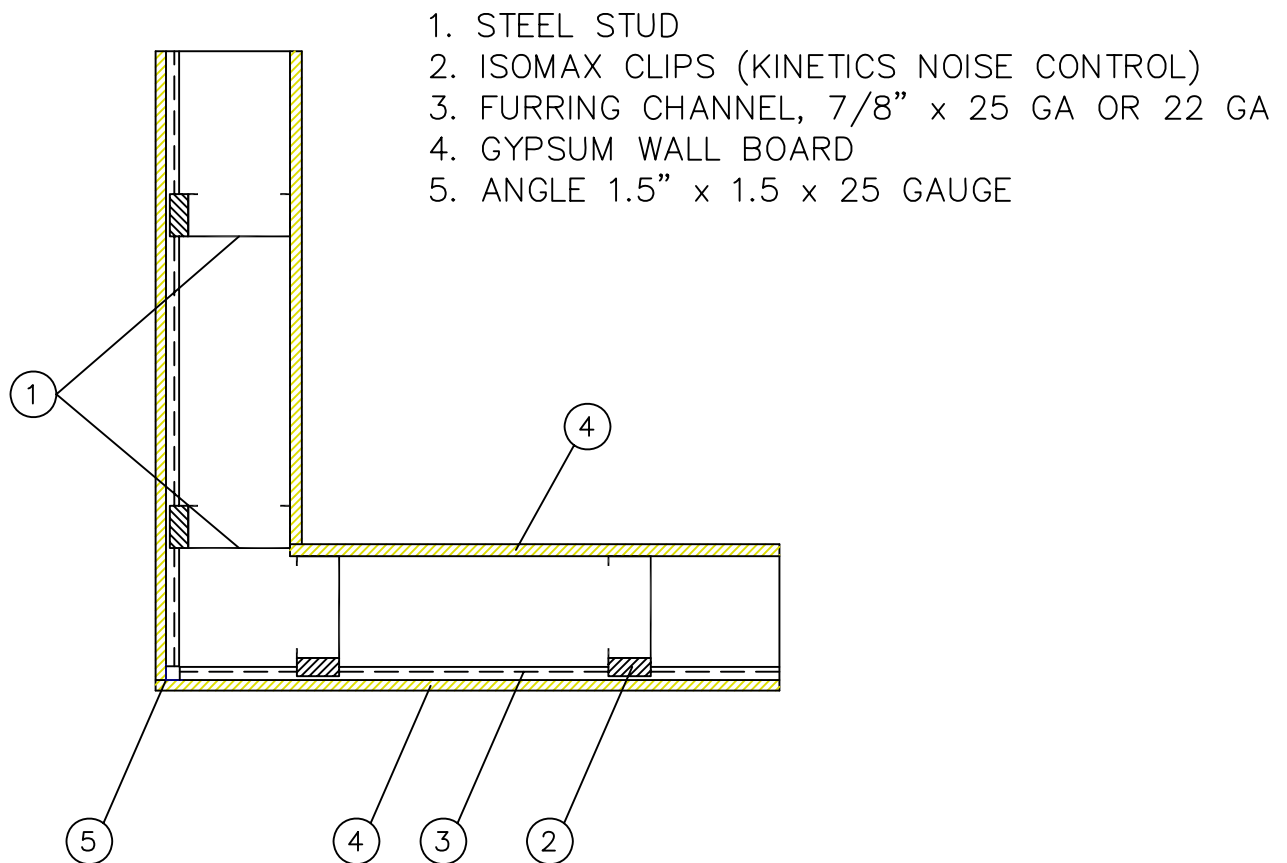
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CHANNEL LAYOUT-TYPICAL
CEILING PLAN

LAST DATE
REVISED
10/25/06

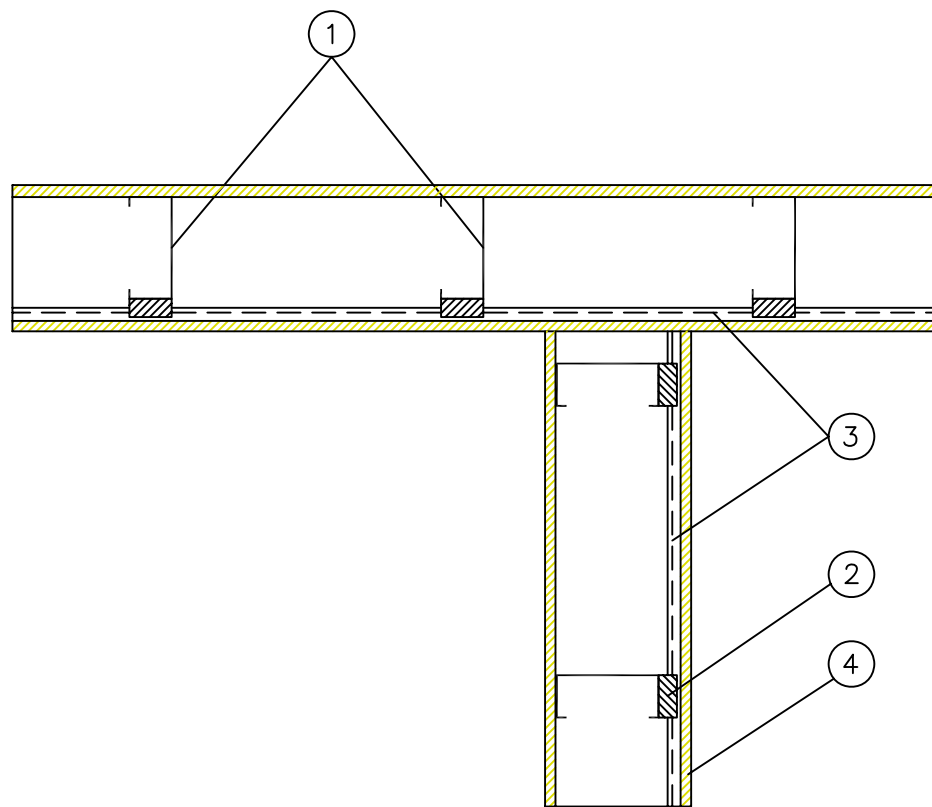
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JEF

DRAWING NO.
SP-INT-05

STEEL STUD WALL CORNER JUNCTION

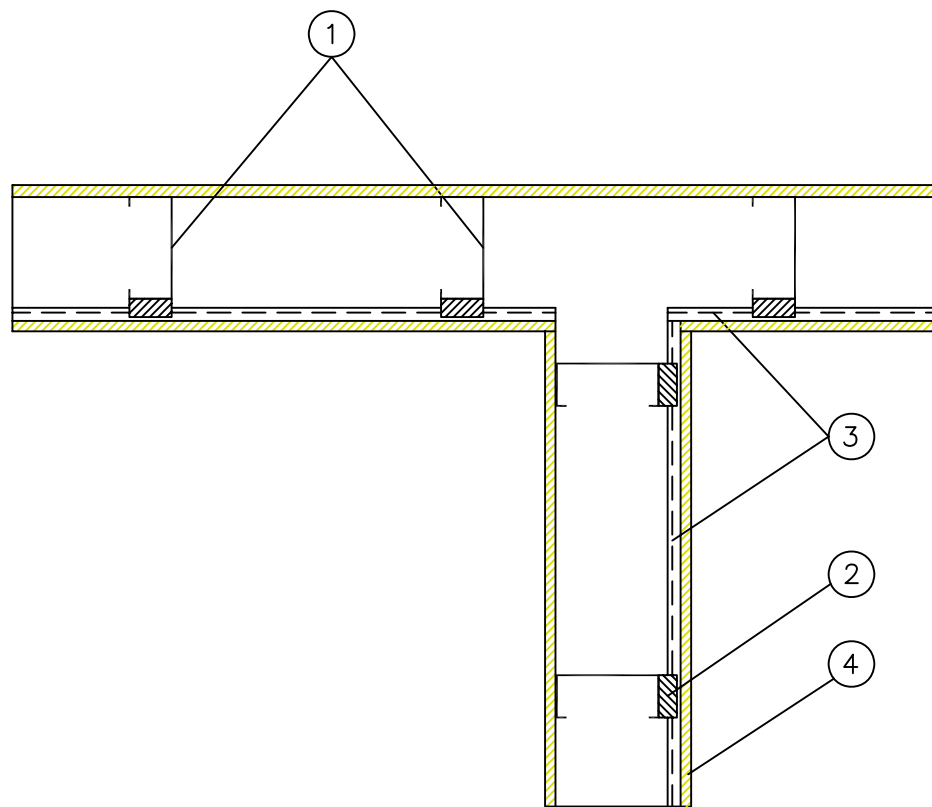


STEEL STUD
WALL INTERSECTION
DETAIL 1, BOTH WALLS ISOLATED



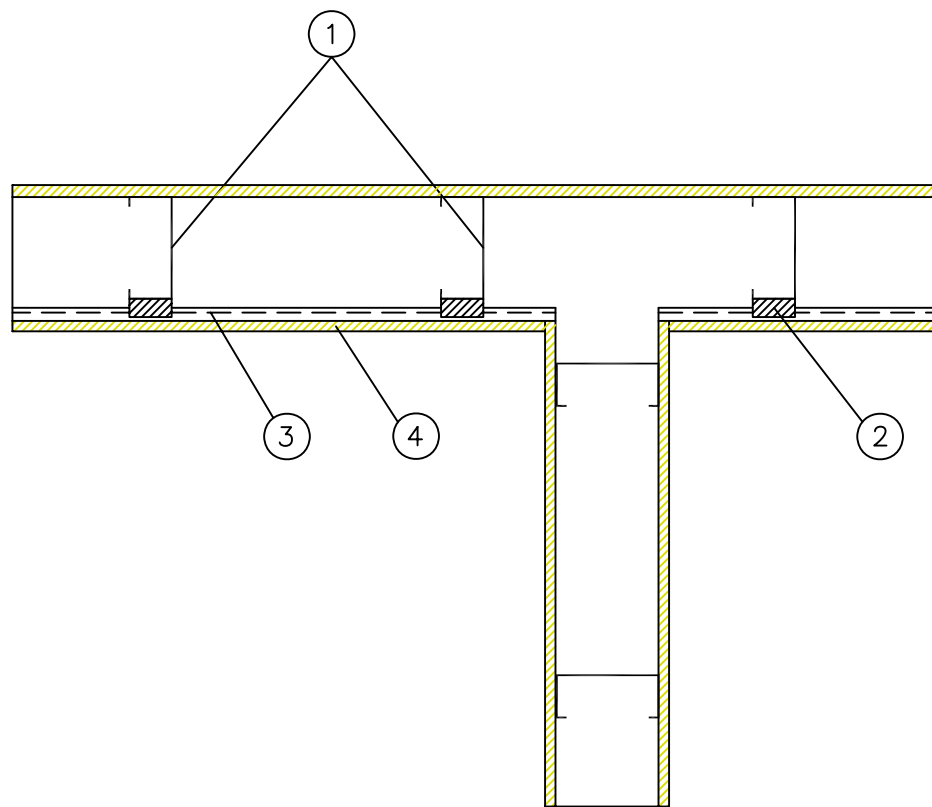
1. STEEL STUD
2. ISOMAX CLIPS (KINETICS NOISE CONTROL)
3. FURRING CHANNEL, 7/8" x 25 GA OR 22 GA
4. GYPSUM WALL BOARD

STEEL STUD
WALL INTERSECTION
DETAIL 2, BOTH WALLS ISOLATED



1. STEEL STUD
2. ISOMAX CLIPS (KINETICS NOISE CONTROL)
3. FURRING CHANNEL, 7/8" x 25 GA OR 22 GA
4. GYPSUM WALL BOARD

STEEL STUD
WALL INTERSECTION
DETAIL 3, ISOLATED WALL
INTERSECTS NON-ISOLATED WALL



1. STEEL STUD
2. ISOMAX CLIPS (KINETICS NOISE CONTROL)
3. FURRING CHANNEL, 7/8" x 25 GA OR 22 GA
4. GYPSUM WALL BOARD