Installation of
IsoMax Sound Isolation Clips
Wall or Ceiling

**Step 1**
Attach clips per Kinetics layout guidelines for walls or ceilings.
See attached layout drawings.

**Step 2**
Secure clips with a single fastener on one end only.
- **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

**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.

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

**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.

<table>
<thead>
<tr>
<th>Design Load Maximum for Wall or Ceiling Application</th>
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<tbody>
<tr>
<td>2:1 safety factor</td>
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<tr>
<td>IsoMax clip with 25 ga steel furring channel</td>
</tr>
<tr>
<td>IsoMax clip with 22 ga steel furring channel</td>
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</tbody>
</table>

**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 Sealight 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.
DIMENSIONS SHOWN ARE TYPICAL. SEE ONLINE INSTALLATION GUIDELINES FOR MORE DETAIL.

6" (152) MAX

24" (610) MAX

CPT, PERIMETER ISOLATION WITH SEALANT

WOOD STUD OR METAL STUD (BY OTHERS)

ISOMAX CLIP

GYPSUM BOARD (BY OTHERS)

FURRING CHANNEL (BY OTHERS)

FIBERGLASS BATT USED ONLY FOR ACOUSTIC PURPOSES NOT SHOWN FOR CLARITY

TOP OF WALL

BOTTOM OF WALL

REFER TO DRAWING AA001808 FOR PLAN / AA001830 RCP VIEWS

DIMENSION FORMAT: IN (mm)

KINETICS Noise Control

TITLE
ISOMAX CLIPS
ISOLATED CEILINGS

LAST DATE REVISED
04/24/14

REVISED BY
MDV

DRAWING NO.
AA001805
DIMENSIONS SHOWN ARE TYPICAL. SEE ONLINE INSTALLATION GUIDELINES FOR MORE DETAIL.

FIBERGLASS BATT USED ONLY FOR ACOUSTIC PURPOSES NOT SHOWN FOR CLARITY

BASE BOARD MUST BE OFFSET FROM FLOOR BY 3/8" MIN.

3" TO CENTER OF ISOMAX CLIP FROM BOTTOM OF STUD

24" (610) MAX

ISOMAX CLIP

RWS (3/4"x3/4" or 1-3/4") WITH SEALANT

3" (76) MAX

24" (610) MAX

BOTTOM OF WALL

24" (610) MAX

ISOMAX CLIP

WOOD STUD OR METAL STUD (BY OTHERS)

GYPSUM BOARD (BY OTHERS)

FURRING CHANNEL (BY OTHERS)

TOP OF WALL

CPT, PERIMETER ISOLATION WITH SEALANT

ISOMAX CLIP

WOOD STUD OR METAL STUD (BY OTHERS)
WALL/FLOOR SECTION

NOTE: FOR ACOUSTICAL ISOLATION
BASE BOARD OR ANY OTHER
WALL ATTACHMENTS MUST NOT
TOUCH THE FLOOR.
DIMENSIONS SHOWN ARE TYPICAL. SEE ONLINE INSTALLATION GUIDELINES FOR MORE DETAIL.

PLAN VIEW
INTERSECTION AT
TWO ISOMAX WALLS

PLAN VIEW
INTERSECTION AT
ISOMAX & NON-ISOMAX WALL

PLAN VIEW
CORNER INTERSECTION

METAL STUD
(BY OTHERS)

ISOMAX CLIP

DRYWALL FURRING
CHANNEL
(BY OTHERS)

CPT AND SEALANT
(NON-ISOLATED SIDE)

METAL STUD
(BY OTHERS)

GYPSUM BOARD
(BY OTHERS)

ISOMAX CLIP

6" (152)
MAX.

METAL STUD
(BY OTHERS)

ISOMAX CLIP

DRYWALL FURRING
CHANNEL
(BY OTHERS)

CPT AND SEALANT
(TYPICAL EACH SIDE)

METAL STUD
(BY OTHERS)

GYPSUM BOARD
(BY OTHERS)

DIMENSION FORMAT: IN (mm)

KINETICS
Noise Control

TITLE
ISOMAX CLIPS
PLAN VIEW
TYPICAL WALL INTERSECTIONS
LAST DATE REVISED
01/09/14
REVISED BY
TJM
DRAWING NO.
AA001808

REFER TO DRAWINGS AA001805, 06, 07 FOR SECTIONS / AA001829 ELEVATION VIEWS
NOTE: ISOMAX CLIP
DESIGN CAPACITY
VARIES BASED ON
DIFFERENT FACTORS.
REFER TO INSTALLATION
GUIDELINES FOR MORE
INFORMATION.

*REFER TO AA001830 FOR CEILING SPACING