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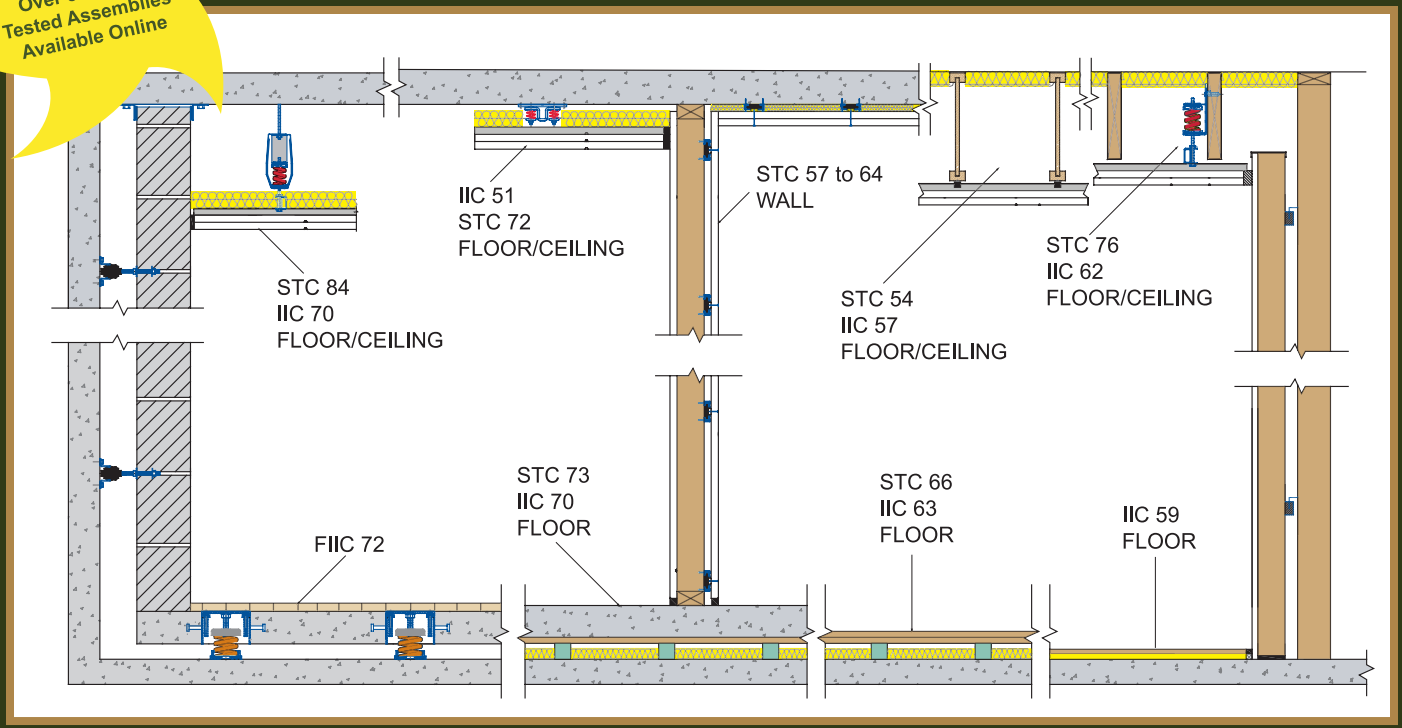
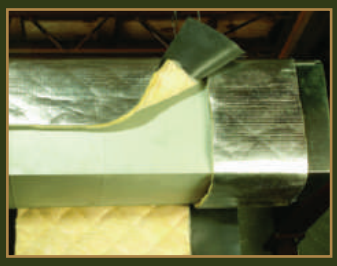
Over 80 Sound Tested Assemblies Available Online

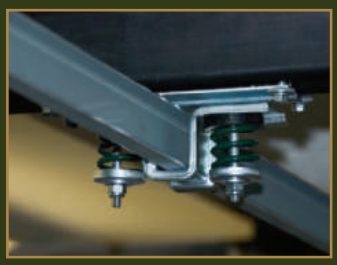


Noise Control Assemblies for Constructing Quiet Spaces










High STC Walls • Sound Control Ceilings • Floor Underlayments
Duct/Pipe Noise Wrap • Floating Floors • Structural Bearings

KINETICS Noise Control

Architectural and Structural Noise Control Solutions
www.kineticsnoise.com/arch/

Kinetics® Noise Control

Providing solutions to common noise and vibration problems since 1958.

Kinetics® composite construction reduces sound transmission

The Problem

Noise and vibration are major sources of occupant complaint in modern buildings. Floors, walls, and ceilings reduce noise according to the Mass Law, which states that doubling of building weight will reduce the transmission of sound by up to 6 decibels (dB). Example: a 4" concrete floor has a sound transmission loss (TL) of 42 dB at 250 Hz. Doubling of the floor to 8" only increases the TL to 48 dB. A 6 dB reduction is about 25% quieter.

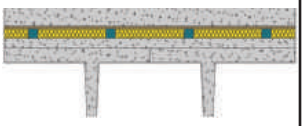
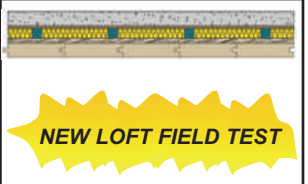
The Solution

By introducing Kinetics® composite construction systems, one can achieve substantially higher sound transmission loss. Kinetics® Floating Floors, Isolated Ceilings, Isolated Partitions, and Composite Barrier Materials all far exceed the Mass Law capability and provide greater airborne and structure-borne noise control.

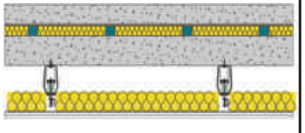
Certification

Kinetics Noise Control provides certified engineering drawings upon request for its products to assure compliance with job specifications. Copies of independent test reports on specific systems are available to architects, engineers, and acoustical consultants upon request, or can be downloaded from our web site www.kineticsnoise.com/arch/.

Concrete or Wood Floating Floors

Description	STC	IIC	Sections
4" Concrete Slab 1/2" Plywood **2" Kinetics® RIM L-2-12** 2" Topping Slab Precast Concrete 14" Tee	73	70	
3" Lightweight Concrete (polished) 1/2" Plywood **2" Kinetics® RIM L-2-16** 3-1/2" Wood Deck Subfloor Steel Beam and Glue Lam Joist Support **No Ceiling**	NNIC 62	FIIC 54	
3/4" Oak Hardwood Floor 3/4" Sleepers 1-1/2" Gypsum Concrete 2 Layers 1/2" OSB **1" Kinetics® RIM-L-1-16** 1" Oak Hardwood Floor 3" Subfloor	FSTC-50	FIIC-45	
3/8" Plywood 2 Layers 3/4" Plywood **2" Kinetics® RIM-I-2-16** 6" Concrete Slab	66	63	
Add 2 Layers 5/8 Gypsum Board between 2 Layers 3/4" Plywood	71	64	
Shredded Rubber Flooring 4" Concrete Slab **Kinetics® LSM Isolator** 2" Air Space, Vented 6" Structural Slab		FIIC 73	
4" Reinforced Concrete Slab **Kinetics® FLM Isolator** **w/ Neoprene Pad** 2" Air Space 6" Structural Slab	69	61	
4" Reinforced Concrete Slab **Kinetics® FLM Isolator** **w/ Model KIP Pad** 2" Air Space 6" Structural Slab	69	61	

Floor and Ceiling Isolation

Description	STC	IIC	Sections
4" Concrete Slab 1/2" Plywood **2" Kinetics® RIM-Q-2-16** 6" Concrete Slab **Kinetics® ICC Isolation Hanger** Cold Rolled Channel (CRC) Drywall Furring Channel 3-1/2" Fiberglass Insulation 2 Layers 5/8" Gypsum Board	94	82	

Kinetics® Sound Isolation Products for Floor and Ceiling Composite Construction Systems

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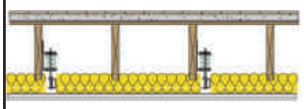
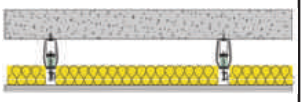
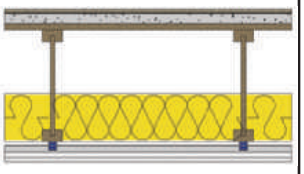
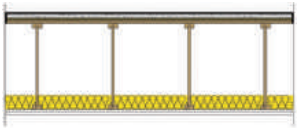
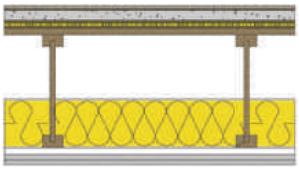
Ceiling Isolation

Description	STC	IIC	Sections
3/8" Wood Floor 1-1/2" Concrete Slab 3/4" Plywood 2 x 10 Joists **Kinetics® ICW Ceiling Hanger** Cold Rolled Channel (CRC) Drywall Furring Channel 3-1/2" Fiberglass Insulation 2 Layers 5/8" Gypsum Board	76	62	 CLASSIFIED UL (see complete marking on product)
Without Concrete	59	52	
6" Concrete Slab **Kinetics® KSCH Ceiling Hanger** Rock Wool Batts Cold Rolled Channel (CRC) Drywall Furring Channel 2 Layers 5/8" Gypsum Board	72	51	
6" Concrete Slab **Kinetics® IsoGrid Ceiling Hanger** 6" Airspace Filled w/ Fiberglass Insulation Cold Rolled Channel (CRC) Drywall Furring Channel 2 Layers 5/8" Gypsum Board	63	50	
6" Concrete Slab **Kinetics® ICC Isolation Hanger** Cold Rolled Channel (CRC) Drywall Furring Channel 3-1/2" Fiberglass Insulation 2 Layers 5/8" Gypsum Board	84	70	
Hardwood Floor with 1/8" Pad Gypsum Concrete 3/4" Plywood 14" I-Joist 6" Fiberglass Insulation **Kinetics® IsoMax Clips** 7/8" Drywall Furring Channel 2 Layers of 5/8" Gypsum Board	54 CLASSIFIED UL (see complete marking on product)	57	

Sound Rated Floors

Description	STC	IIC	Sections
Ceramic Tile 7/16" Glass Mesh Mortar Unit/Bond Coat **5/8" Kinetics® SR Floorboard** 8" Flexicore Precast Subfloor	59	59	
Vinyl Floor Covering 1" Gypsum Concrete **5/16" Kinetics® Soundmatt** 3/4" Oriented Stand Board (OSB) 18" I-Joist 3" Mineral Fiber Batts Resilient Channel 5/8" Gypsum Board		FIIC 51	
Hardwood Floor with 1/8" Pad 1-1/4" Gypsum Concrete **1" Kinetics® Ultra Quiet SR Floorboard** 3/4" Plywood 14" I-Joist 6" Fiberglass Insulation Resilient Channel 2 Layers of 5/8" Gypsum Board	54	59	

Sound Design and Construction Practice

The following items should be considered in order to achieve full benefit from Kinetics products.

1) **An acoustical consultant should be retained whenever possible.**

2) Holes or any openings through partitions, ceilings, or floors should be caulked or sealed. Sound leaks of any kind will significantly reduce the effectiveness of any noise control product.

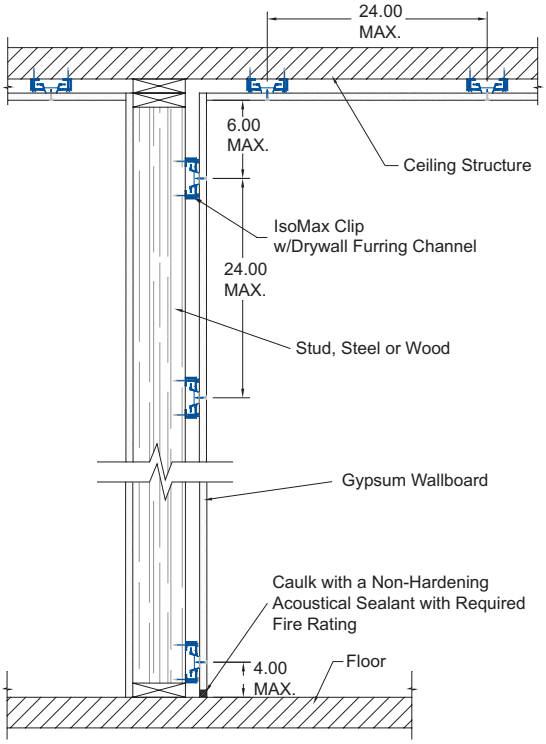
3) Doors and windows in the partitions should exhibit high STC ratings to maintain high performance.

4) Electric outlets, thru-the-wall cabinets, etc., should not be placed back-to-back in order to prevent potential excessive transmission of noise or treated with Kinetics™ Sealtite Putty Pads.

5) Acoustical treatment and absorptive finishes may be used in noisy rooms to reduce the reverberation and overall noise level within these rooms.

6) All floating floors, partitions, and ceilings should be constructed with care. Construction errors such as rigid ties, fastener short-circuiting, improper floor reinforcing, etc., can create a sound flanking conduit and should be avoided. Supervision by a representative of the isolation material manufacturer can minimize field errors.

Resilient Sound Isolation Wall and Ceiling Clip
Model IsoMax



- IsoMax cost effectively sound isolates gypsum board and furring channel from the steel and wood framing or concrete/masonry structure.
- Superior to conventional resilient channel in performance. Lower installed cost than double stud wall assemblies with similar performance.

Description	STC	Sections
2" x 4" Single **Wood Stud** 1 Layer 5/8" Gypsum Board, each side. **IsoMax** with Furring Channel, one side. Fiberglass Insulation	57	
Add 2nd Layer 5/8" Gypsum Board, on one side.	61	 CLASSIFIED UL (see complete marking on product)

See all 11 acoustical tests for IsoMax Wall, Floor and Ceiling assembilies at www.kineticsnoise.com/arch/tests/isomax.aspx

Floor Underlayment for Green Buildings
Model IsoMat:Green

- Made with Recycled Rubber
- Meet Impact Noise Code Requirements
- Allows Direct Bonding of Finish Wood and Tile Floors
- Lowest Profile Floor Build Up

Quick-Connect Ceiling Hanger
Model IsoGrid

- Dramatic labor savings over conventional ceiling hangers
- Meet code requirements while maximizing ceiling height
- Various attachment methods allow for installation on a variety of ceiling structures
- Known deflection rates ensure performance under design loads

KINETICS Noise Control

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