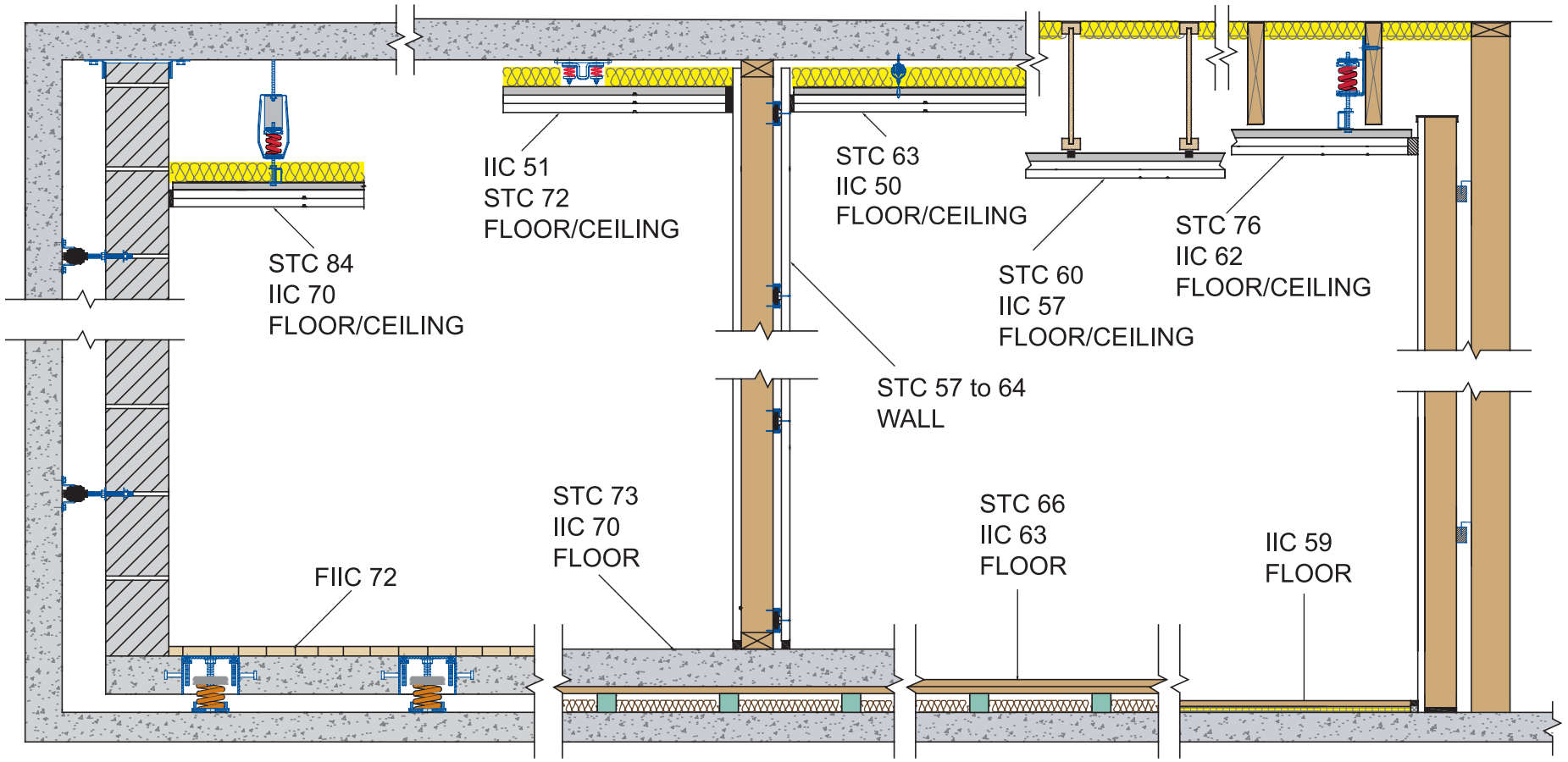
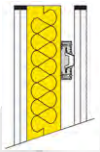
KINETICS
Noise Control



Noise Control Solutions for Floors, Walls, Ceilings, and Structures

IsoMax: Resilient Sound Isolation Wall and Ceiling Clip Patent No. 7,093,814

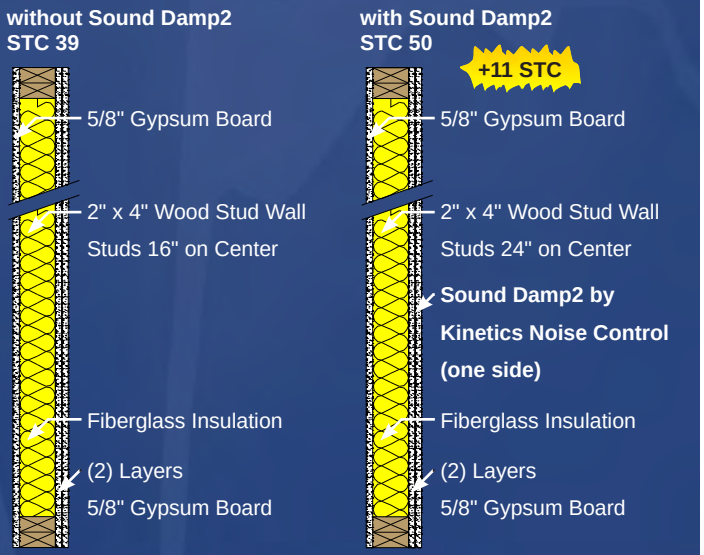
- Effective sound control at low installed cost
- Error free installation of standard drywall furring channel
- Low-profile design; maximizes available occupied space
- Best performance for the fewest dollars spent to build noise control ceilings and walls
- Exclusive UL design L583 offers 1-hour fire rating for typical wood-framed ceiling composites

Description	STC	Sections
5/8" Gypsum Board 2x4 **Wood Stud** Fiberglass Insulation **KINETICS™ IsoMax Clips** 7/8" Drywall Furring Channel 5/8" Gypsum Board	57	
2 Layers of 5/8" Gypsum Board 2x4 **Wood Stud** Fiberglass Insulation **KINETICS™ IsoMax Clips** 7/8" Drywall Furring Channel 2 Layers of 5/8" Gypsum Board	64	
2 Layers of 5/8" Gypsum Board 1-5/8" x 3-5/8" **Steel Stud** Fiberglass Insulation **KINETICS™ IsoMax Clips** 7/8" Drywall Furring Channel 2 Layers of 5/8" Gypsum Board	63	

Sound Damp2

Add to second layer of drywall for improved STC

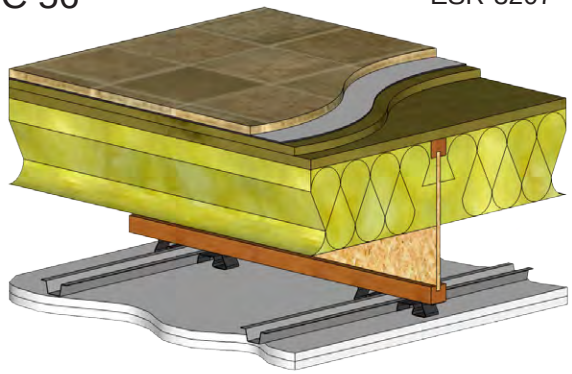
- Great for renovations
- Tested up to STC 53
- Easy to apply
- Water Cleanup



CERAMIC TILE

STC 61
IIC 56

ESR-3207



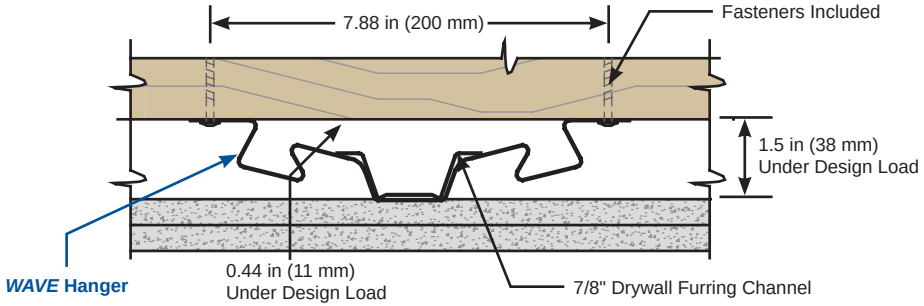
WAVE Hanger

Worldwide Patents Pending

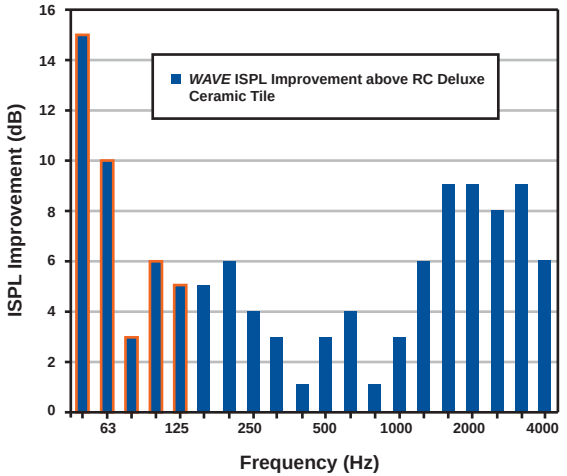
Quick and Easy Wood-Framed Installations

Don't design mixed use or multi-family projects without KINETICS™ *WAVE* Hanger!

- Outperforms resilient channel and sound clips
- Highest performance-to-cost value for wood-framed floor/ceilings
- Fast and simple - No more pinching furring channel into clips!



ISPL Improvement vs. Resilient Channel



Concrete and Wood-Framed Ceiling Isolation Systems

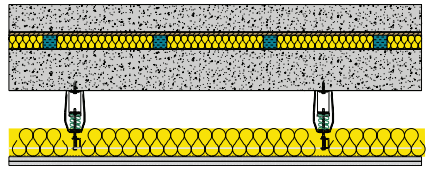
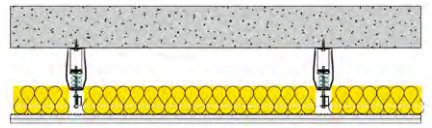
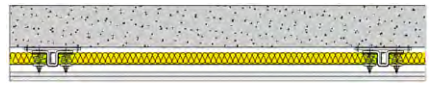
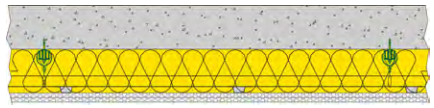
ICC: Deck-Suspended Ceiling Hanger

- Maximum natural frequency of 4.4 Hz under lightest typical load conditions
- Multiple features incorporated into the design ensure inexpensive installation; eliminates tying wire
- Spring/neoprene cup combination improves performance against low-frequency noise

Contact your local sales rep for wire-tie and other hanger options

IsoGrid: Quick-Connect Ceiling Hanger

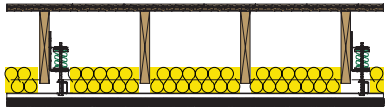
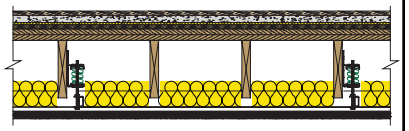
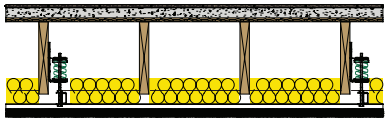
- Dramatic labor savings over conventional ceiling hangers
- Meet code requirements while maximizing ceiling height
- Various attachment methods allow for installation on a variety of ceiling structures
- Known deflection rates ensure performance under design loads

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	 ***THE ULTIMATE SOLUTION***
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	
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/ Insulation Cold Rolled Channel (CRC) Drywall Furring Channel 2 Layers 5/8" Gypsum Board	63	50	

KSCH: Super-Compact Ceiling Hanger

Patent No. 7,028,432

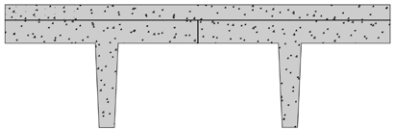
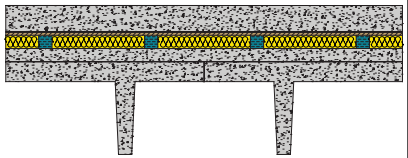
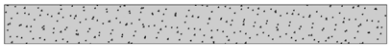
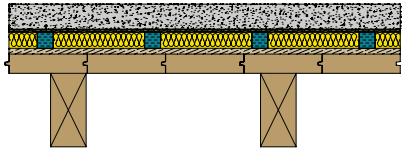
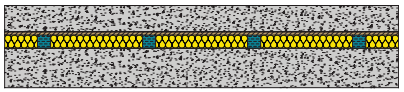
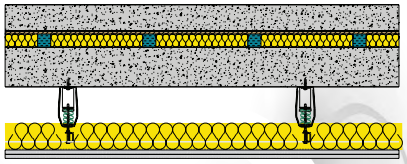
- Low ~4" airspace using 7/8" drywall furring channel with full 1-inch spring deflection; Multiple mounting options
- Meets building code for STC/IIC 50 in smallest possible space

Description	STC	IIC	Sections
5/16" Parquet Flooring 5/8" 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	59	52	 (UL Design 581)
Hardwood Floor Over Vapor Barrier Mat 1-1/4" AccuCrete Slab 3/8" AccuQuiet Underlayment 3/4" Plywood 2 Layers Existing 1" x 6" Wood Subfloor 2x10 Joists 16" OC **KINETICS™ ICW Ceiling Hanger** 6" Fiberglass Insulation Cold Rolled Channel (CRC) Drywall Furring Channel 2 Layers 5/8" Gypsum Board	FSTC 57	FIIC 62	 (UL Design 581)
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	 (UL Design 581)

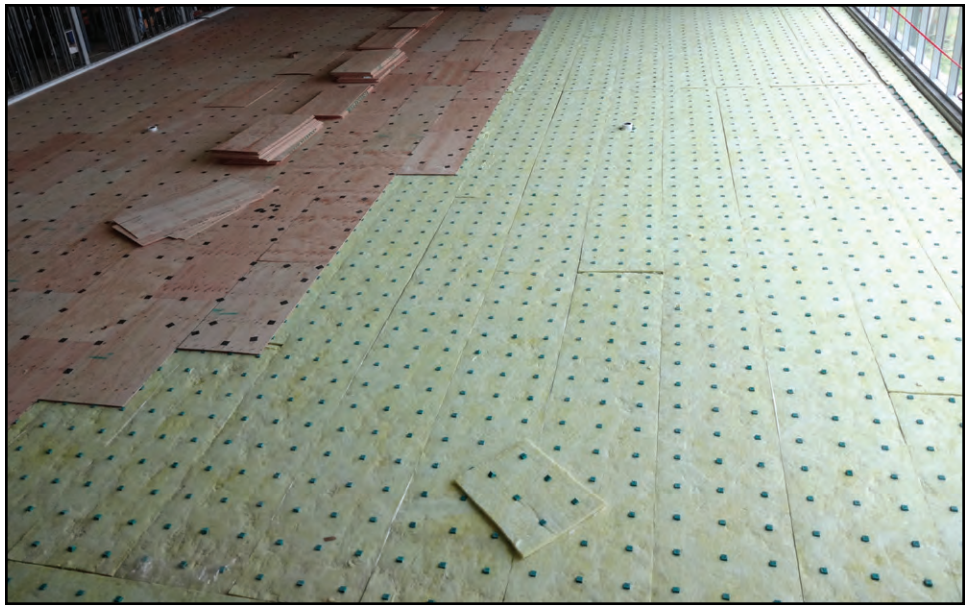
ICW: Wood-Framed Ceiling Hanger

- ***Exclusive*** UL design L581 offers 1-hour fire rating for typical wood-framed ceiling composites
- Maxium natural frequency of 4.4Hz under lightest typical loads
- Actual installed load can vary between 75% and 150% of rated load without significant impact to ceiling performance
- Superior noise control for wood-framed construction without floor underlayment
- Ideal solution for new-build and renovations

Concrete Floating Floor Systems

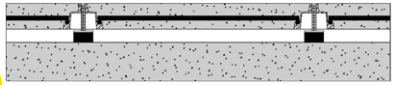
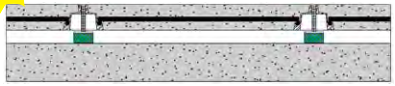
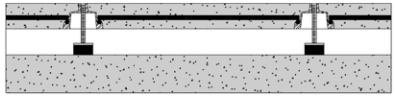
Description	STC	IIC	Sections
2" Topping Slab Precast Concrete 14" Tee	54	24	
4" Concrete Slab 1/2" Plywood **2" KINETICS™ RIM L-2-12** 2" Topping Slab Precast Concrete 14" Tee	73	70	
4" Concrete Structural Floor 6" Concrete Structural Floor	49 53	25 27	
3" Lightweight Concrete (polished) 1/2" Plywood **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	 *LOFT FIELD TEST*
4" Concrete Slab 1/2" Plywood **2" KINETICS™ RIM-Q-2-16** 6" Concrete Slab	72	62	
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	 *THE ULTIMATE SOLUTION*

*Normalized Noise Isolation Class, field test for airborne noise reduction



RIM: Roll-Out Isolation Mat System

- Design for any load range
- Easy to create 1", 2", 3", and 4" airspaces
- Fast, simple, inexpensive installation
- Installation and supervision available
- RIM System successfully installed for over 45 years
- Natural Frequency constant over a wide load range
- Slab cast-in-place with no lifting required; trades back on the job as soon as concrete cures

Description	STC	IIC	Sections
Wood Flooring 4" Concrete Slab **KINETICS™ LSM Isolator** 2" Air Space, Vented 6" Structural Slab		FIIC 72	
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	
4" Reinforced Concrete Slab **KINETICS™ FLM Isolator** **w/ Neoprene Pad** 4" Air Space 6" Structural Slab	71	63	

Which is better? Ask for full report.

KSSM: Spring Formwork Isolation System

- Optimal placement of isolation system across low capacity structural floor designs
- Pre-loaded assemblies eliminate long wait to lift concrete slab
- Coordinate design directly with Kinetics at SD/DD Phase

LSM: Spring Lift Slab Concrete Floating Floor System

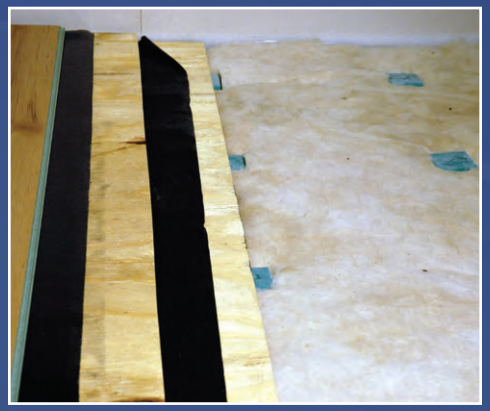
- Proven effective for vibration mitigation of intense impact noises, in gyms, weight rooms, bowling alleys, and sensitive instrumentation spaces. Concrete floors only.
- In-field acoustical testing yielded results of FIIC 72, FSTC 61 for a vented floating floor.

FLM: Neoprene/KIP Lift Slab Concrete Floating Floor System

- Various load capacities offered in either fiberglass or neoprene isolators
- Easy to adapt for wide range of air spaces
- Standard mounts available for 4" thick concrete slabs
- Low-cost adapters available for thicker concrete slabs

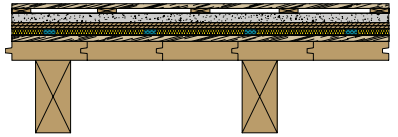
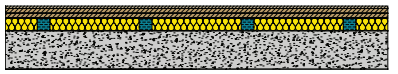
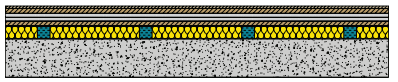
Low Profile Floating Floors and Continuous Underlayent Systems

RIM: Roll-out Isolation Material



Highest Performance for Demanding Applications

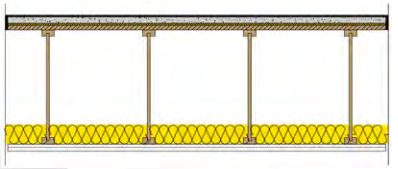
Ideal for dance studios, loft style condominiums, music practice rooms, and other applications requiring high performance noise control. Surpasses performance of continuous underlayments due to the airspace and lower natural frequency created by KINETICS™ KIP isolators.

Description	STC	IIC	Sections
1" Oak Hardwood Floor 3" Subfloor		FIIC 15	
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	

Soundmatt: Low Profile for All Finish Floor Types

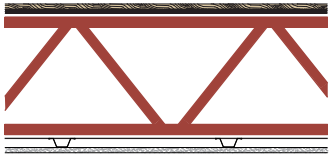
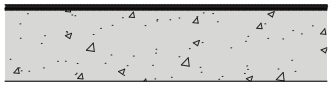
Economical and Effective

- Low cost continuous floor underlayment
- Low-profile underlayment for wood, tile, and carpet
- Fast, easy installation - no bonding required

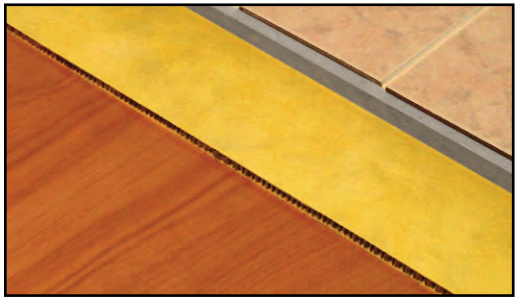
Description	STC	IIC	Sections
Ceramic Tile 1/2" Wonderboard **5/16" KINETICS™ Soundmatt** 6" Concrete Slab	60	53	
Vinyl Floor Covering 1" Gypsum Concrete **5/16" KINETICS™ Soundmatt** 3/4" Oriented Stand Board (OSB) 18" I-Joist 3" Mineral Fiber Batts Resilient Channel 5/8" Gypsum Board		FIIC 51 **+18**	
without Soundmatt		FIIC 33	

*ISO*Layment QT: Lowest Profile for Wood Floors and Ceramic Tile

- Low-cost, recycled rubber noise control underlayment
- Extensively tested at the top labs in the USA
- Two (2) Styles: Flat (F) and Bumpy (B) in full rolls

Description	STC	IIC	Sections
Engineered Wood **KINETICS™ IsoLayment QT-F** 4" Concrete Hambro 500D System 1 Layer 1/2" GWB on furring channel	54	51	
Ceramic Tile **KINETICS™ IsoLayment QT-F** 8" PT Slab		FIIC 59	

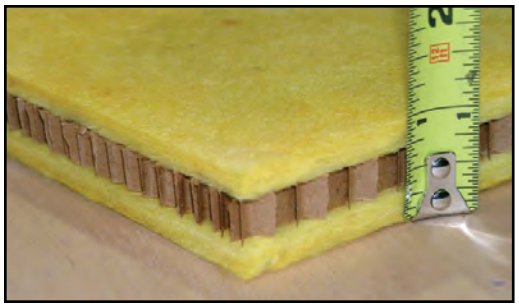
SR Floorboard: Sound Rated Floor System



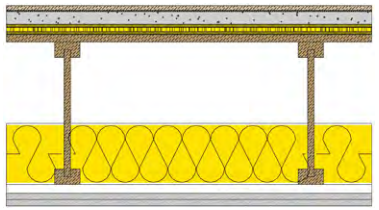
- Withstands live loads up to 1000 psf
- Cuts easily using standard construciton knife
- Floor composites with finished tile flooring can be under two-inches (2") high

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 +38	
5/8" Hardwood Floor 3/4" Plywood Subfloor **5/8" KINETICS™ SR Floorboard** 7" Concrete Slab		FIIC 54	

Ultra Quiet SR Floorboard: High Performance Sound Rated Floor System



- Same features as SR Floorboard with higher performance capabilities
- High resilience and sound absorption in a single layer

Description	STC	IIC	Sections
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	
No Resilient Channel	53	51	

- Approved for use with gypsum concrete, standard concrete, and built-up wood floors

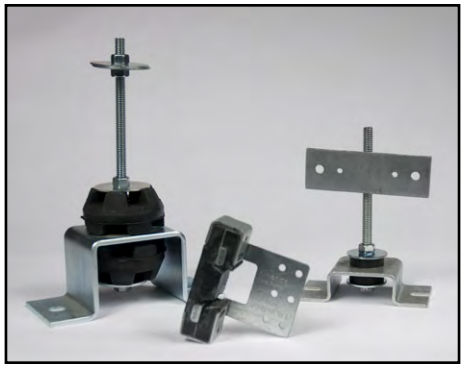
Wall Isolation

Wallmat: Resilient Partition Isolation Pad

- Easy to install pre-cut strips
- Field cut to length with a utility knife
- Continuous resilient support of the partition
- Engineered for a wide range of studwall loads
- Use for both top and bottom plate installation

IsoBacker: Acoustical Fire Rated Outlet Backer Pad

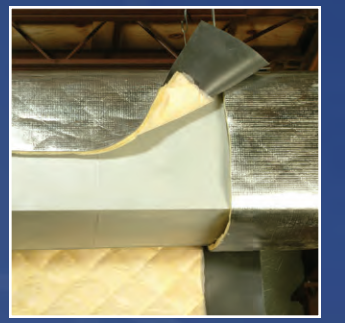
- Underwriters Laboratories classified
- Maintains acoustical ratings per ASTM C 919 and ASTM E 497
- Testing to UL 263 (ASTM E119) and UL 1479 (ASTM E814)
- Outstanding adhesion to outlet boxes and other substrates
- UL listed for metallic and non-metallic outlet boxes



PSB and UniBrace L Resilient Sway Braces

When an isolated masonry or stud partition requires bracing to the adjacent vertical structure, this sway brace acoustically decouples the two walls.

Pipe/Duct Lagging Barrier Model KNM-100ALQ



Composite material designed to reduce the sound transmission from ductwork, piping, and equipment housings by combining a fire-rated limp mass barrier with a decoupling quilted fiber glass lining.
(*KNM-100AL is available without the quilted fiberglass lining*)

- Fire Rated Indoor or Outdoor Noise Barrier Material
- Barrier Overlap Tab for Fast, Noise-Tight Installation

Insertion Loss

Tested as a duct wrap over 2" fiberglass board (ASTM E1222-90)

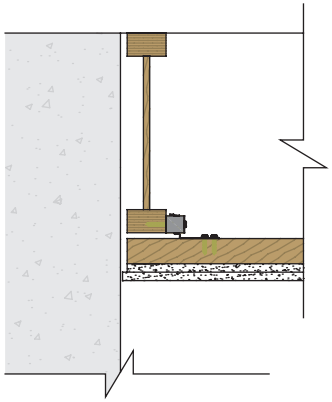
Frequency, Hz	63	125	250	500	1000	2000	4000
KNM-100ALQ	2	10	16	27	35	34	33

Tested as a duct wrap directly over duct (ASTM E1222-90)

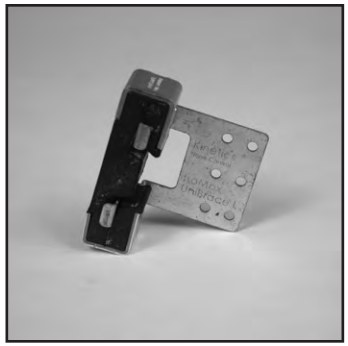
Frequency, Hz	63	125	250	500	1000	2000	4000
KNM-100ALQ	3	6	7	18	24	27	28

UniBrace

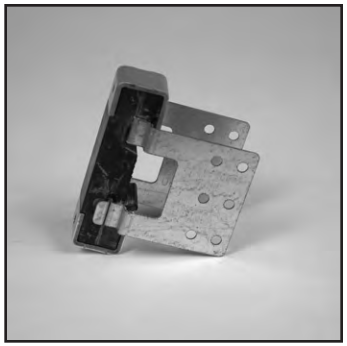
Quick and easy solutions to challenging isolation hurdles.



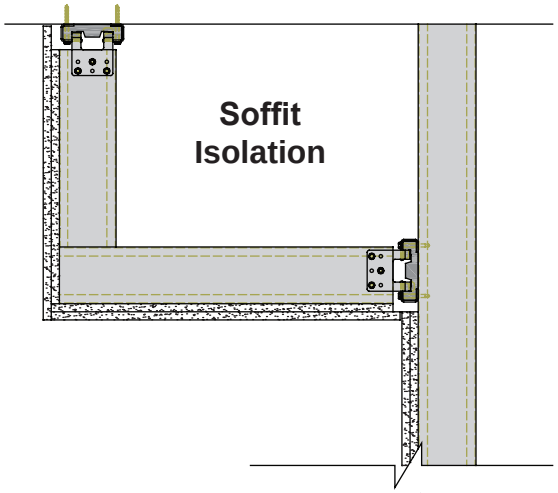
Head of Wall Isolation



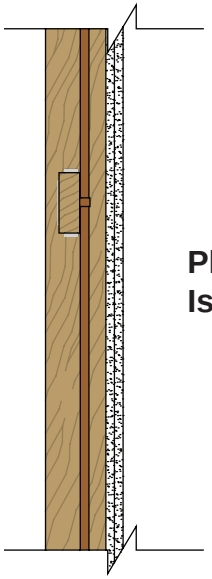
Single L



Double L

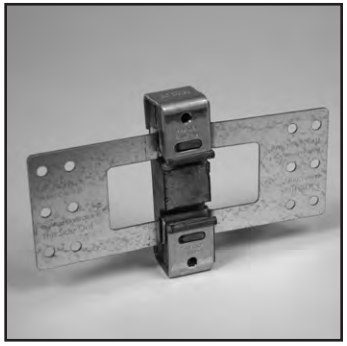


Soffit Isolation



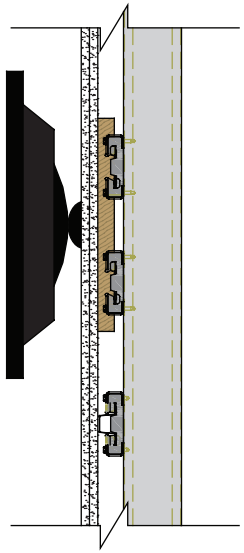
Plumbing Isolation

Single F



Double F

TV Isolation



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