


**NOISE CONTROL BUILDING MATERIALS**  
FOR FLOORS, CEILINGS, AND WALLS



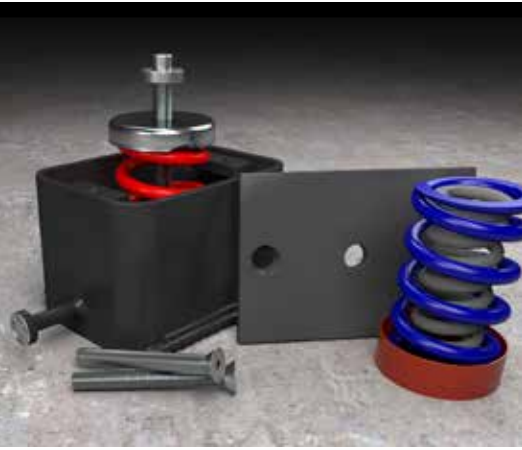
## LSM and LiftWrx // Spring Lift Slab Mounts

- Proven effective for impact and vibration mitigation in gyms, weight rooms, bowling alleys, sensitive equipment spaces, mechanical equipment rooms
- Shop drawings illustrate isolator spacing, loads/deflections, special details, structural floor flatness requirements, installation guidelines
- LiftWrx for 4-inch thick slabs; LSM custom-fabricated for concrete floors up to 12-inches thick

Description	STC	IIC	Sections
Wood Flooring 4" Concrete Slab <b>KINETICS LSM Isolator</b> 2" Air Space, Vented 6" Structural Slab		FIIC 72	

## FormWrx // Spring Isolation System


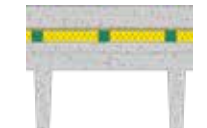

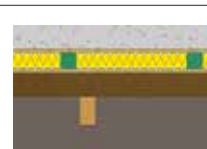
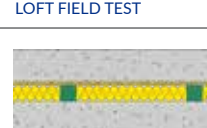
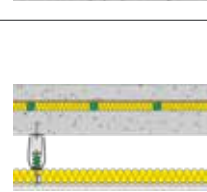
- Create spring-supported, pour-in-place concrete floor isolation systems; no lifting required
- Custom engineered and fabricated product solutions for deeper concealed airspaces, batt insulation requirements, thick concrete slabs, other critical design elements
- Coordinate design directly with Kinetics at SD/DD Phase; call factory for design assistance
- Allows optimal placement of isolators across structural floor framing members



## RIM // Roll-Out Isolation Material

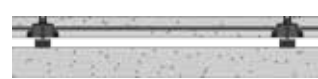


- Fast, simple, inexpensive installation
- Cast-in-place slab, no lifting required, fastest way to get trades back on the job
- System designs for wide load range
- Isolator natural frequency (Fn) constant over a wide load range
- Easy to create 1-inch, 2-inch, 3-inch, and 4-inch airspaces



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 SOLUTIONS

## FLM // KIP/Elastomer Lift Slab Mounts

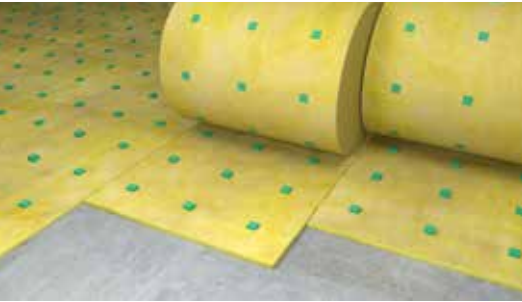
- Various load capacities offered using fiberglass or elastomeric isolators
- 4-inch thick concrete slab mounts in stock
- Low-cost adapters available for thicker concrete slabs; call your rep for assistance

Description	STC	IIC	Sections
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	





# ISOLATED WOOD FLOORS AND CONTINUOUS UNDERLAYMENT SYSTEMS



## RIM // Roll-Out Isolation Material

- Ideal for dance studios, loft style condominiums, music practice rooms, high performance noise control
- Creates critical airspace (up to 4-inches) for top performance from light floor construction
- Use under plywood flooring or concrete structural panels (greater mass)



## Ultra Quiet SR // High Performance Underlayment

- Withstands loads up to 1,000-psf
- High resilience and sound absorption in a single, 1-inch thick layer sheet
- Use with gypsum concrete, concrete, built-up wood floors
- Cut easily using standard construction knife



## SR Floorboard // Sound Rated Floor System

- Similar features as Ultra Quiet SR but only 5/8-inch thick
- Floor buildups with finished tile flooring can be under 2-inches thick



## Soundmatt // Low Profile for All Finish Floor Types



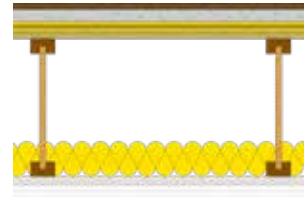



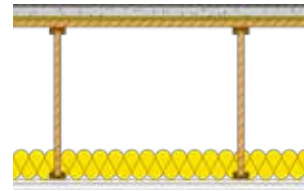

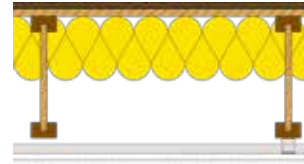
- Low cost continuous, molded fiberglass floor underlayment
- Only 5/16-inch thick for wood, tile, carpet floor buildups
- Fast, easy installation using tile backer boards



## ISOLayment QT // Lowest Profile Continuous Underlayment

- Low-cost, recycled crumb rubber noise control underlayment
- Install finish flooring directly on flat media up to 5mm thick; no extra buildup required
- Cement board buildup not required beneath ceramic tile

# ISOLATED WOOD FLOORS AND CONTINUOUS UNDERLAYMENT SYSTEMS

Description	STC	IIC	Sections
3/4" T&G Hardwood Floor 5/8" Plywood 1" KINETICS RIM 3-1/2" Timber Deck	ATSC 49	FIIC 48	
3/8" Plywood 2 Layers 3/4" Plywood 2" KINETICS RIM-I-2-16 6" Concrete Slab	66	63	
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	
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	
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 Strand Board (OSB) 18" I-Joist 3" Mineral Fiber Batts Resilient Channel 5/8" Gypsum Board		FIIC 51 +18	
3/4" Floating Engineered Hardwood Floor 1/8" ISOLayment Underlayment 6" Concrete Slab	50	50	
5/8" Engineered Hardwood Floor 3mm ISOLayment 23/32" OSB 6" Fiberglass Insulation 12" I-Joist at 24" OC WAVE Hanger 7/8" Drywall Furring Channel 2 Layers 5/8" Gypsum Board	60	57	



# ISOLATED CEILINGS: CONCRETE DECK

## KSCH // Low Profile Ceiling Hanger

Patent No. 7,028,432

- No more than 4-inches airspace using 7/8-inch drywall furring channel, fully deflected 1-inch spring
- Surpasses building code minimums of STC 50, IIC 50 with tightest airspace possible
- Increase acoustical performance by expanding airspace with APB Bracket
- Multiple mounting options



Description	STC	IIC	Sections
6" Concrete Slab KINETICS KSCH Ceiling Hanger Rock Wool Batts Cold Rolled Channel (CRC) Drywall Furring Channel 2 Layers 5/8" Gypsum Board	69	54	
6" Concrete Slab KINETICS KSCH-APB Ceiling Hanger Cold Rolled Channel (CRC) Drywall Furring Channel 3-5/8" Fiberglass Insulation 8" Air Space 2 Layers 5/8" Gypsum Board	80	64	

## MUTA // Spring Wire-Tie Ceiling Hanger

- Familiar wire-tie installation permits maximum flexibility during installation
- Ideal for ceiling system loads exceeding 210 lbs
- Use with cold-rolled channel or drywall grid system



# ISOLATED CEILINGS: CONCRETE DECK

## 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 / elastomeric cup combination improves performance against low-frequency noise



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	
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	

## IsoGrid // Quick-Attach Ceiling Hanger

- Dramatic labor savings compared to conventional ceiling hangers
- Meet code requirements while maximizing ceiling height
- Adaptable, easily installs on a variety of ceiling structures
- Known deflection rates ensure performance under design loads

Description	STC	IIC	Sections
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	







**ICW // Wood-Framed Ceiling Spring Coil Hanger**

- Exclusive UL design L581 offers 1-hour fire rating for typical wood structural framing members
- Maximum natural frequency of 4.4Hz under lightest typical loads
- Actual load can vary between 75% and 150% of rated load without significant impact to ceiling performance
- Unmatched noise control performance when floor underlayment cannot be installed

Description	STC	IIC	Sections
5 /16" Parquet Flooring 5/8" Plywood 2x10 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	
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 1" KINETICS ICW Ceiling Hanger 6" Fiberglass Insulation Cold Rolled Channel (CRC) Drywall Furring Channel 2 Layers 5/8" Gypsum Board	FSTC 57	FIIC 62	
3/8" Wood Floor 1-1/2" Concrete Slab 3/4" Plywood 2x10 Joists KINETICS ICW Ceiling Hanger Cold Rolled Channel (CRC) Drywall Furring Channel 3-1/2" Fiberglass Insulation 2 Layers 5/8" Gypsum Board	75	62	

**WAVE // Wood-Framed Ceiling Leaf Spring Hanger**

Patent No. 8,549,809

- Considerable improvement over resilient channel for controlling low frequency "thuds"
- Fire-rated assemblies (ESR-3207) for all typical wood structural framing members
- Seismic categories: A, B, C, D, E, F

Description	STC	IIC	Sections
Ceramic Tile KINETICS ISOLayment 5/8" Plywood Sheathing 3/4" Plywood Sheathing R-19 Batt Insulation 12" I-Joist at 24" O.C. KINETICS WAVE Hanger 7/8" Drywall Furring Channel 2 Layers 5/8" Type X Gypsum Board	61	56	
3/4" Oak Floor 1 Layer 0.69" Plywood Sheathing 6" Thick Fiberglass 0.60 PCF 14" Solid Wood I-Joist at 16" OC 2 Layers 5/8" Type X Gypsum Board	NNIC 44	FIIC 48	
3/4" (19) Oak Floor 1 Layer 0.69" (18) Plywood Sheathing 6" Thick Fiberglass 0.60 PCF 14" (356) Solid Wood I-Joist at 16" (406) OC 2 Layers 5/8" Type X Gypsum Board 2 2x4 Wood Studs, Stacked Horizontally Across Joists KINETICS WAVE Hanger 3-1/2" Thick Fiberglass 2 Layers 5/8" Type X Gypsum Board 7/8" Drywall Furring Channel	NNIC 63	FIIC 63	



# HIGH STC WALLS



## IsoMax™ // Sound Isolation Clips for Walls and Ceilings

Patent No. 7,093,814

- Exclusive UL design L583 offers 1-hour fire rating for typical wood structural framing members
- Effective sound control, low installation costs
- Error free installation of standard drywall furring channel
- Low-profile design; maximizes available occupied space

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 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 // Drywall Damping Compound

- Great for renovations, repurposing spaces
- Add to second layer of drywall for improved STC
- Tested up to STC 53
- Apply with paint roller, clean-up with water

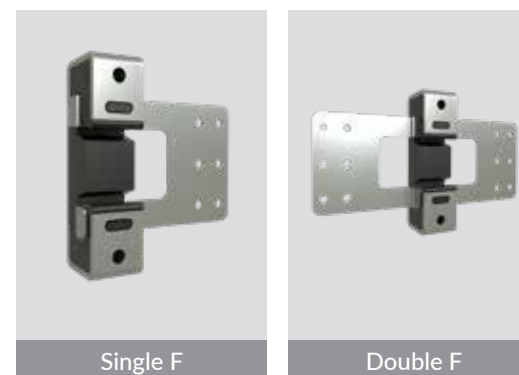
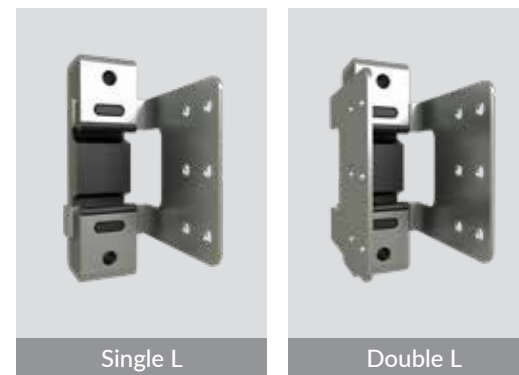
# HIGH STC WALLS



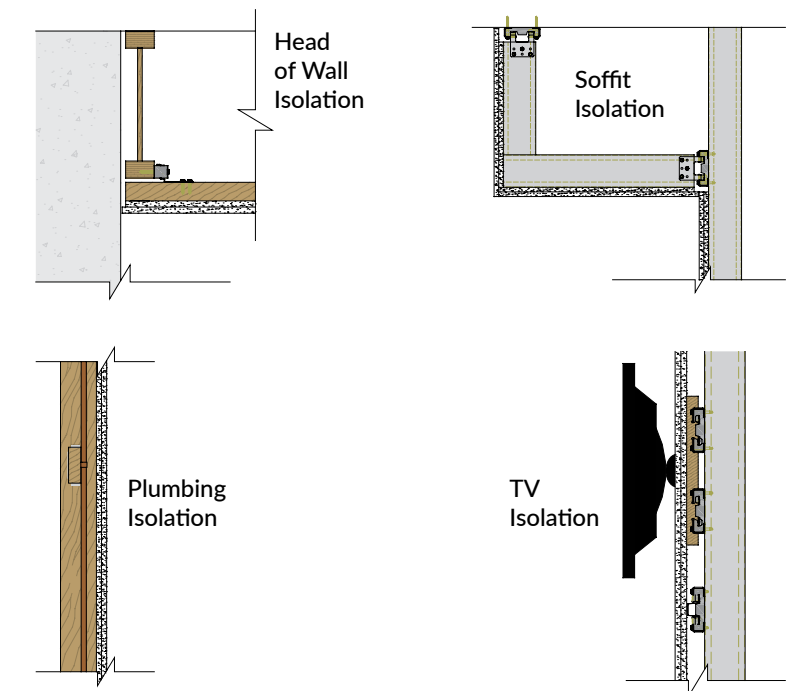
## IsoBacker // Acoustical Fire Rated Outlet Backer Pad

- Maintains acoustical ratings per ASTM C 919 and ASTM E 497
- Testing to UL 263 (ASTM E119) and UL 1479 (ASTM E 814)
- UL listed for metallic and non-metallic outlet boxes
- Exceptional adhesion to outlet boxes and other substrates

# SPECIALTY ISOLATION



## UniBrace // Easy Solutions to Challenging Isolation Hurdles







## WALLMAT // Resilient Stud Wall Partition Isolation Pad

- Engineered KIP Isolation media for a wide range of stud wall loads
- Continuous resilient support of the partition
- Use KAI anchor isolators to secure track and slip channel through Wallmat
- Easy to install strips, standard widths are 3-inch and 5-inch

## NAFP-10 and PC-10 // Resilient Masonry Wall Isolation Pads

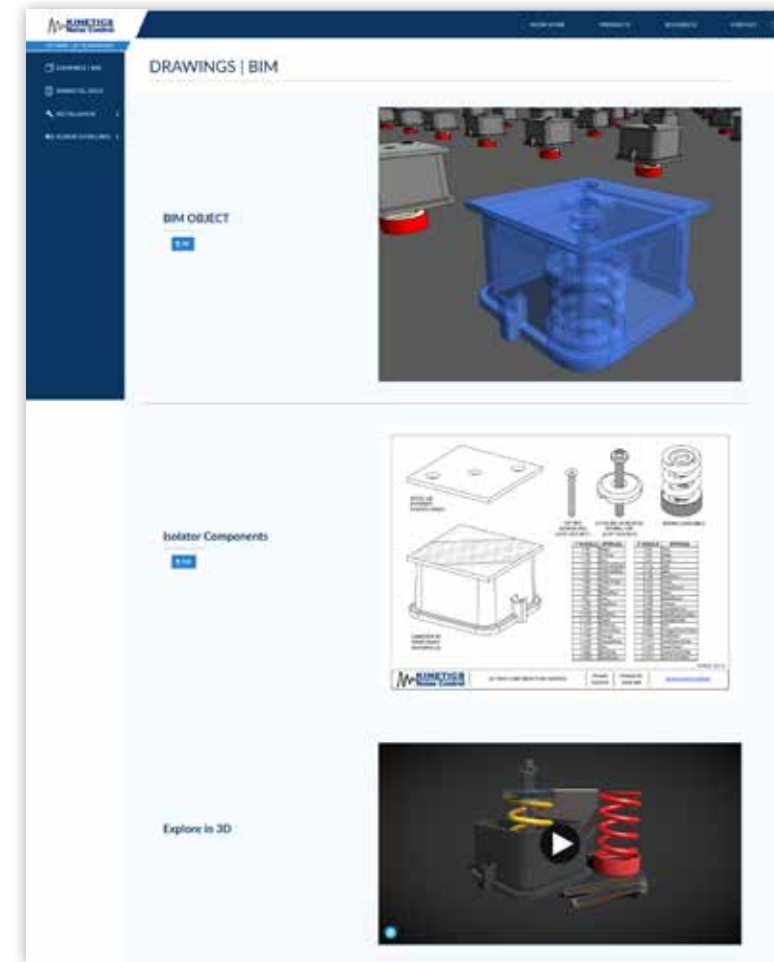
- Used continuously under masonry walls to prevent sound flanking to area below
- Engineered KIP Isolation media for a wide range of loads
- Custom capacities available
- Design with PSB-M and IPRB for complete masonry wall isolation



## PSB-M and PSB-S // Resilient Wall Attachment

### UNIBRACE L // Low-Profile Resilient Wall Attachment

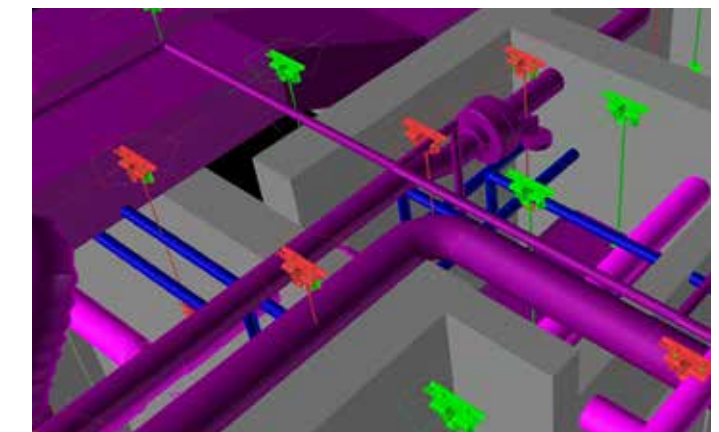
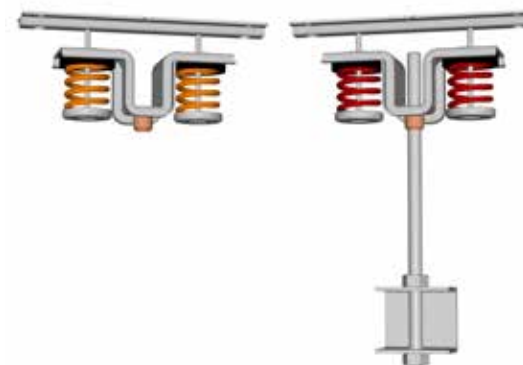
- When an isolated masonry or stud partition requires bracing to the adjacent vertical structure, this lateral brace acoustically decouples the two walls
- Prevent stud wall buckling of non-structural partitions



Each product has its own webpage organized to help you find information fast. You will find drawings to help prepare project documents, complete and downloadable acoustical tests, installation sequences to better understand what is required for construction, and much more.

Among the many online resources are BIM models. These models have been set up to remain small in file size, but still allow the designer to select spring capacities.

Here is an example of how to set up a Revit® model using KSCH Hangers. If the hangers came into contact with ductwork or piping, they are set to turn red. This can save substantial time and money during coordination.





# create quiet

## products

Noise Control Building Materials Group (NCBM) together with our local Representatives are focused on helping you create quiet. Whether you are an acoustics expert reviewing sound test reports for our products, an architect looking for a CAD detail of a fire-rated assembly, or a contractor securing lost closeout documents, NCBM is your Kinetics Noise Control resource offering products and documentation covering a wide range of floor, ceiling, and partition isolation requirements.

## design

From everyday noise concerns treated with products readily assembled from in-stock components to severe structural isolation challenges requiring a custom product solution, acoustics professionals rely on NCBM's expertise to design and deliver the right product solution.

## implement

NCBM produces industry-leading shop drawings which include acoustic, structural, and product location information. Potential acoustical design concerns are brought to light even if not directly related to our products, giving peace of mind that the noise control composite will be installed correctly and function as intended.

## support

Previously unknown job conditions requiring design changes can be responded to quickly and effectively. Our proprietary AutoCAD plug-ins coupled with information gathered from our local representative team assures contractors they are not left on their own after product is delivered to the jobsite.

**NCBM invites you to work with us on your next project that requires product solutions for noise control applications.**



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