



# QuietMatrix™ Floating Floor Systems

for concrete slabs and wood rafts

# QuietMatrix™ Systems

QuietMatrix™	CORE	CHANNEL	DECK	PREFAB
Cleansulation™	●	●	●	●
DOT Pads	●	●	●	●
Steel Channel		●	●	
Concrete Deck			●	

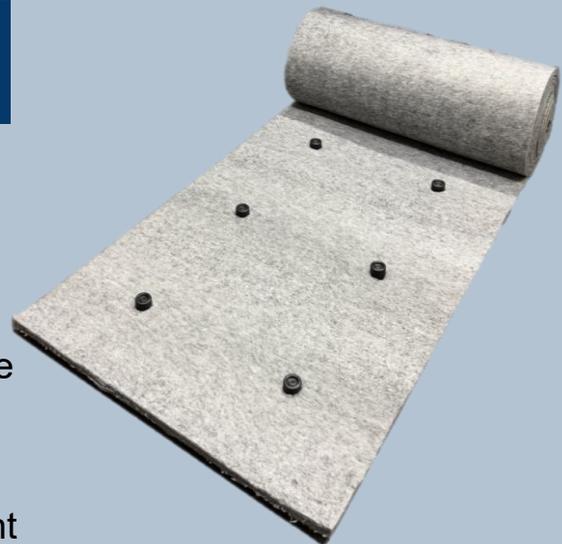
The discrete pad QuietMatrix™ systems feature our proprietary **DOT** bearing pads and our proprietary **Cleansulation™** batt insulation.

## Cleansulation™

Recycled Felt Batt Insulation

### Key Benefits

- ✓ Fiberglass-free; Formaldehyde-free
- ✓ Made from recycled materials
- ✓ 100% recyclable
- ✓ Water, mildew, and vermin resistant



# QuietMatrix™ DOT-2

2" Dual Ring Isolation Bearing Pad

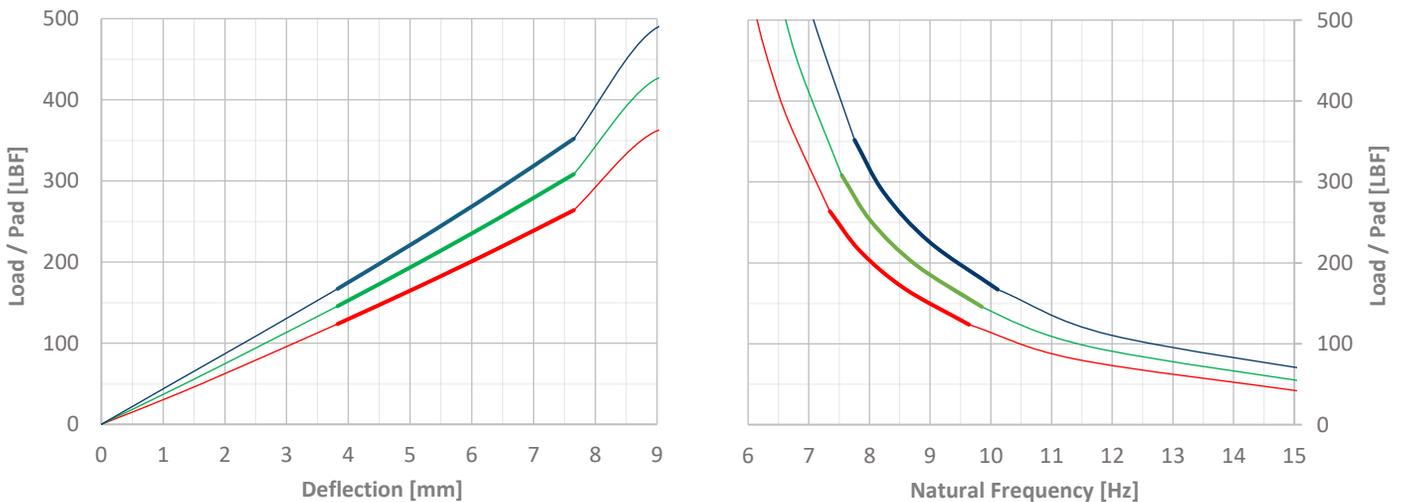
## Key Benefits

### Dual Ring Design for Optimum Performance



- ✓ Minimum Contact Area in Optimum Load Range
- ✓ Degressive Deflection when exceeding Optimum Load Range
- ✓ Low Natural Frequency at Low Deflection
- ✓ Natural Rubber for best Static/Dynamic Properties
- ✓ Color Coded Pads & Shop Drawings

## Static & Dynamic Properties



— DOT-2-R — DOT-2-G — DOT-2-B

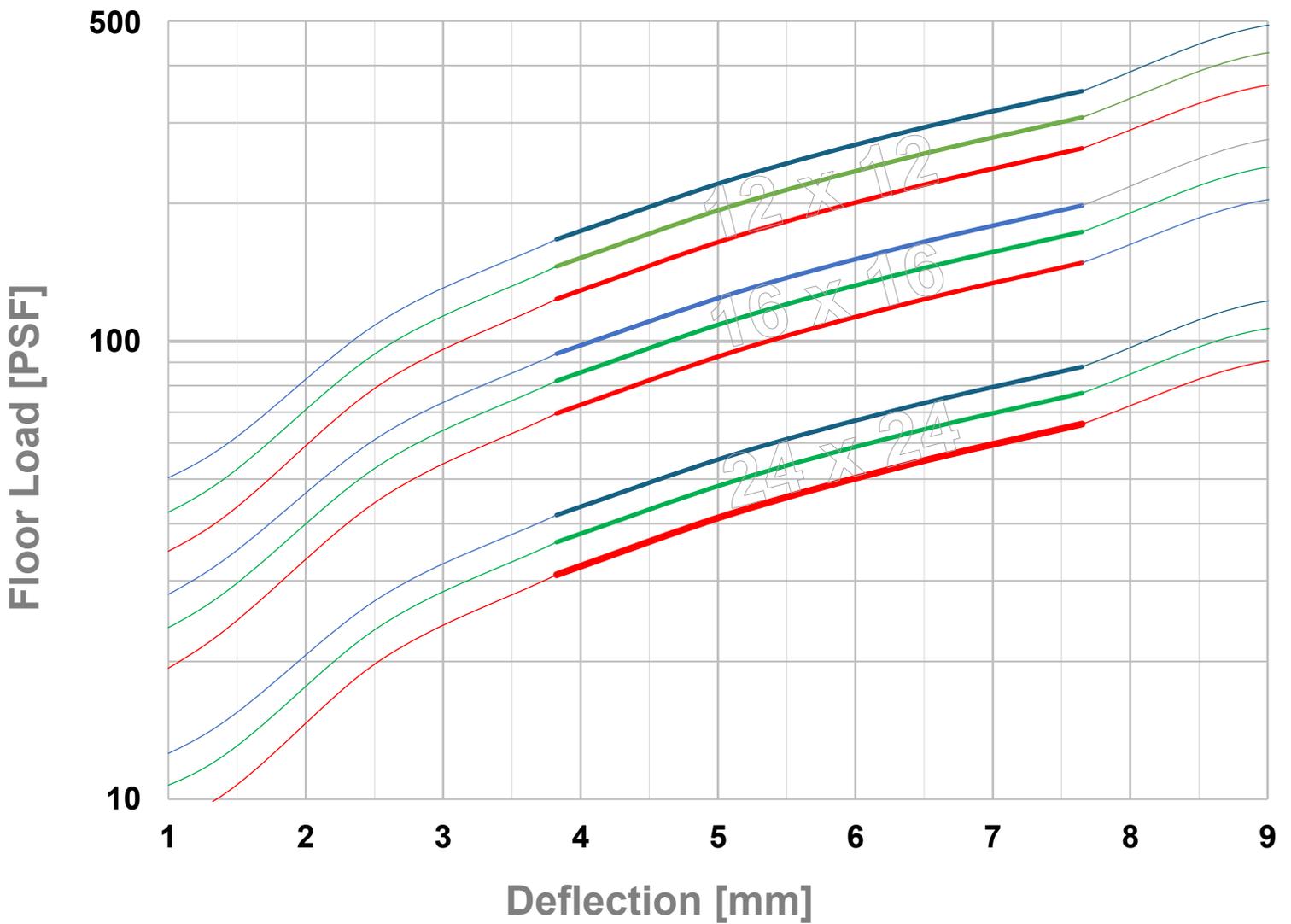
Thickened portions of graphs indicate optimum load range

# QuietMatrix™ DOT-2

2" Dual Ring Isolation Bearing Pad

## Static Properties under Floor Load

with various on-center pad spacing



— DOT-2-R — DOT-2-G — DOT-2-B

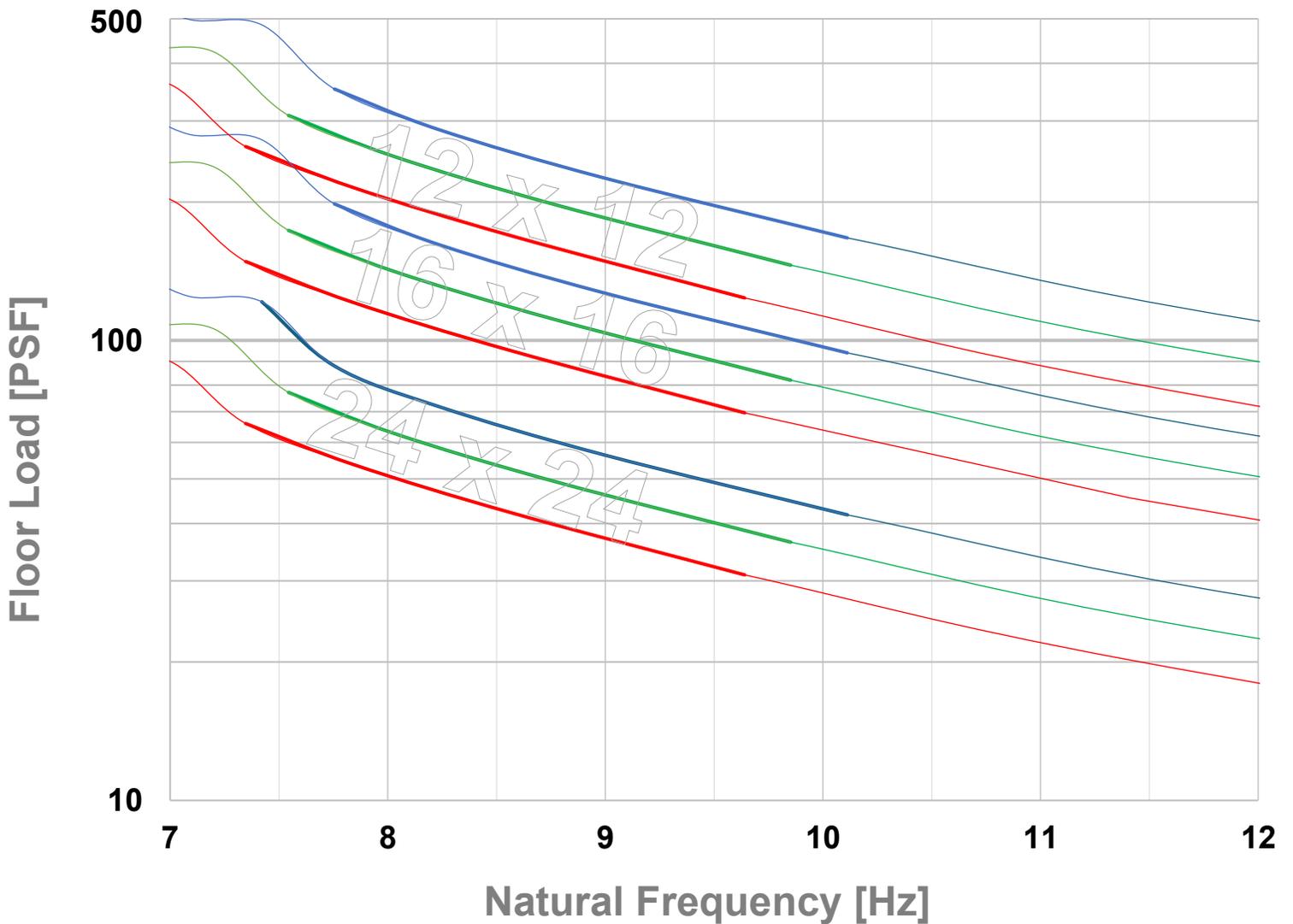
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# QuietMatrix™ DOT-2

2" Dual Ring Isolation Bearing Pad

## Dynamic Properties under Floor Load

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— DOT-2-R — DOT-2-G — DOT-2-B

Thickened portions of graphs indicate optimum load range

# QuietMatrix™ CORE

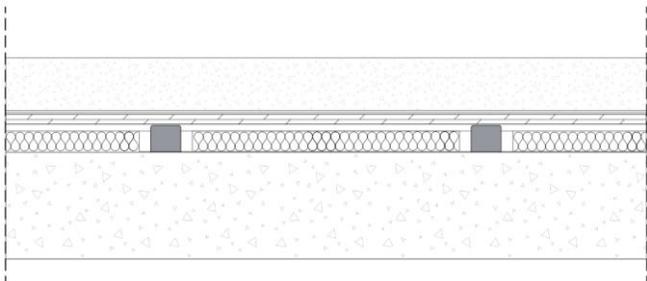
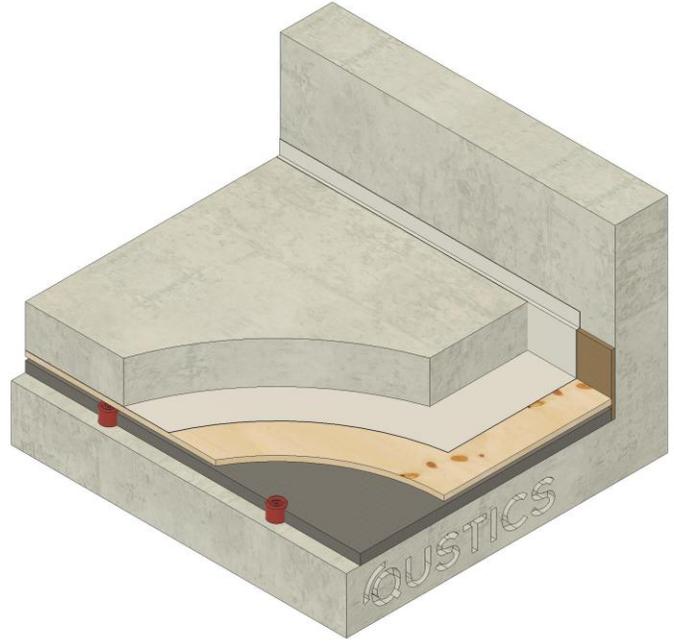
## Discrete Pad Floating Floor System

A roll-out isolation system for applications that require a high degree of isolation efficiency.

This system features **QuietMatrix™ DOT** Dual Ring Isolation Bearing Pads. Their special geometry and rubber compound maximize isolation efficiency and reduce differential deflection in the field

**Cleansulation™** batt insulation provides extremely low VOC emissions, is fiberglass- and formaldehyde-free.

- Utilizes **QuietMatrix™ DOT** bearing pads.
- Standard System Thickness: 2"



### QuietMatrix™ CORE Benefits

- ✓ Convenient Installation with Roll-Out Batt
- ✓ Low Dynamic Stiffness Isolators
- ✓ Low Natural Frequency at Low Deflection
- ✓ Cleansulation™ Ecofriendly Felt Batt
- ✓ Minimum Contact Area (≥ 1%)

### Features QUSTICS® Cleansulation™

Fiberglass- and formaldehyde-free; 100% recyclable; water, mildew, and vermin resistant.

Good for the environment. Good for healthy spaces.

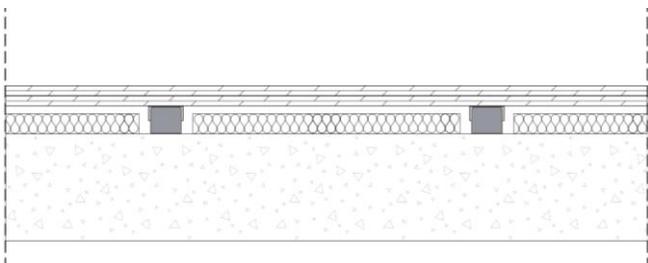
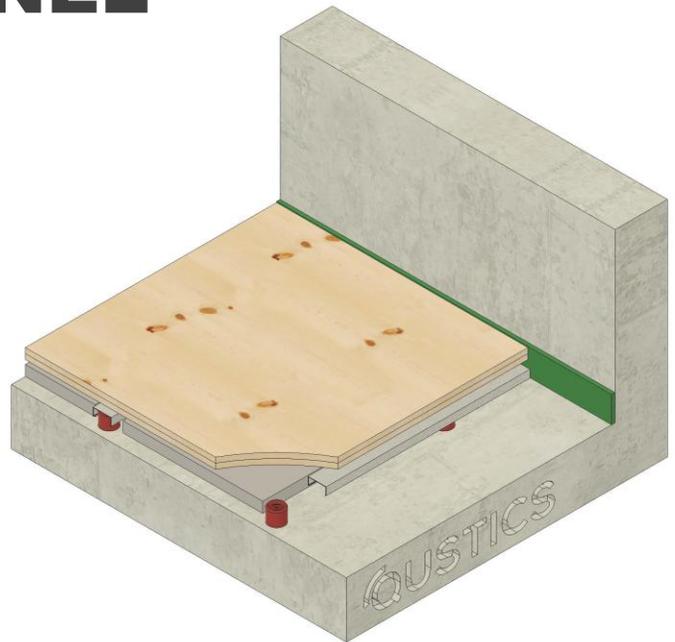
# QuietMatrix™ CHANNEL

## Reinforced Discrete Pad System

For floating floors with wood or wood/cement board rafts, this system provides a reinforced base to increase the stiffness of the supported structure and to minimize differential deflection in the field.

The strong steel channels grab and connect the QuietMatrix™ DOT bearing pads, providing better load distribution and more reliable structural and acoustical performance.

- Utilizes QuietMatrix™ DOT bearing pads.
- Standard System Thickness: 2"



### QuietMatrix™ CHANNEL Benefits

- ✓ Reinforced for low differential deflection
- ✓ Low Dynamic Stiffness Isolators
- ✓ Low Natural Frequency at Low Deflection
- ✓ Cleansulation™ Ecofriendly Felt Batt
- ✓ Minimum Surface Contact Area (>0.69%)

### Features QUSTICS® Cleansulation™

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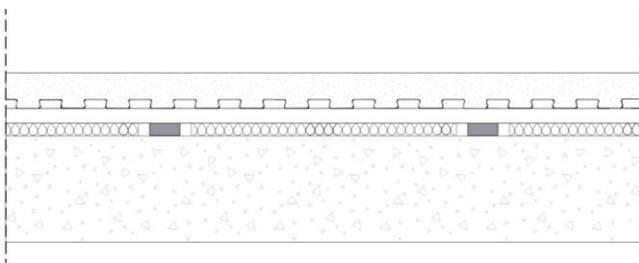
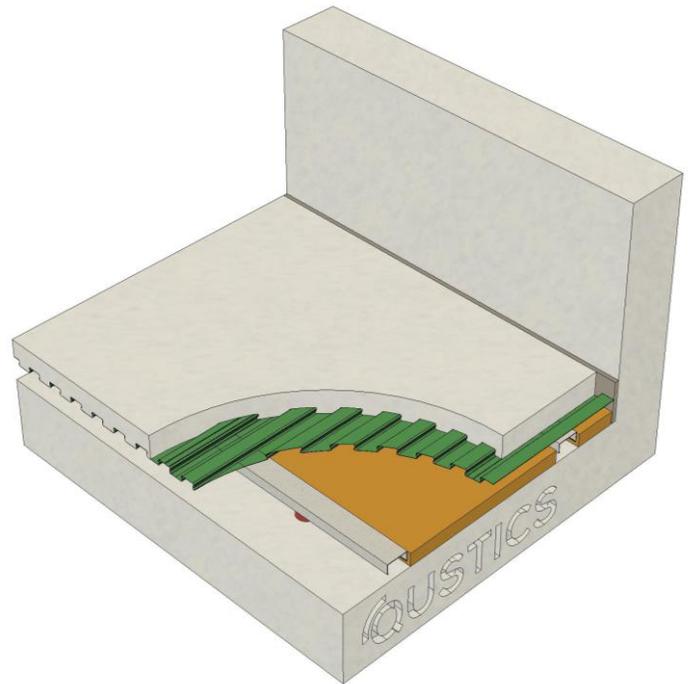
# QuietMatrix™ DECK

## 2" Concrete Floor System

When a project does not provide enough elevation or load bearing capacity for a 4" floating concrete slab plus wooden formwork, QuietMatrix DECK allows the use of concrete floating floors as thin as 2".

This system does not require any wooden formwork. The deck's special geometry provides formwork and reinforcement in one.

- Utilizes **QuietMatrix™ DOT** bearing pads.
- Standard System Thickness: 2"  
(+ Concrete)



### QuietMatrix™ DECK Benefits

- ✓ Allows thin Concrete Toppings ( $\geq 2"$ )
- ✓ Low Dynamic Stiffness Isolators
- ✓ Low Natural Frequency at Low Deflection
- ✓ Cleansulation™ Ecofriendly Felt Batt
- ✓ Minimum Surface Contact Area ( $>0.69\%$ )

#### Features QUSTICS® Cleansulation™

Fiberglass- and formaldehyde-free; 100% recyclable; water, mildew, and vermin resistant.

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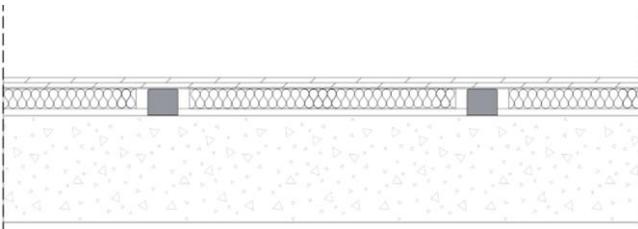
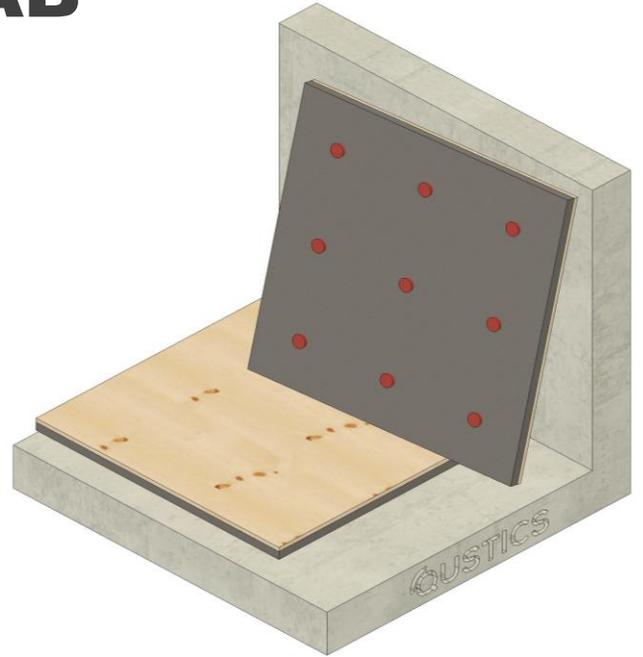
# QuietMatrix™ PREFAB

## Prefabricated Discrete Pad System

Factory-prefabricated panels for convenient installation. It is most suitable for small retrofit projects.

QuietMatrix™ PREFAB panels are installed following a project-specific layout plan. It is recommended to install at least one additional layer of plywood on top for overlapping joints and structural integrity.

- Utilizes **QuietMatrix™ DOT** bearing pads
- Typical panel size: 48" x 48" x 2-3/4"



### QuietMatrix™ PREFAB Benefits

- ✓ Suitable for small retrofit projects
- ✓ Ease and speed of installation
- ✓ Custom but affordable solution
- ✓ Cleansulation™ Ecofriendly Felt Batt
- ✓ Minimum Surface Contact Area (>0.69%)

#### Features QUSTICS® Cleansulation™

Fiberglass- and formaldehyde-free; 100% recyclable; water, mildew, and vermin resistant.

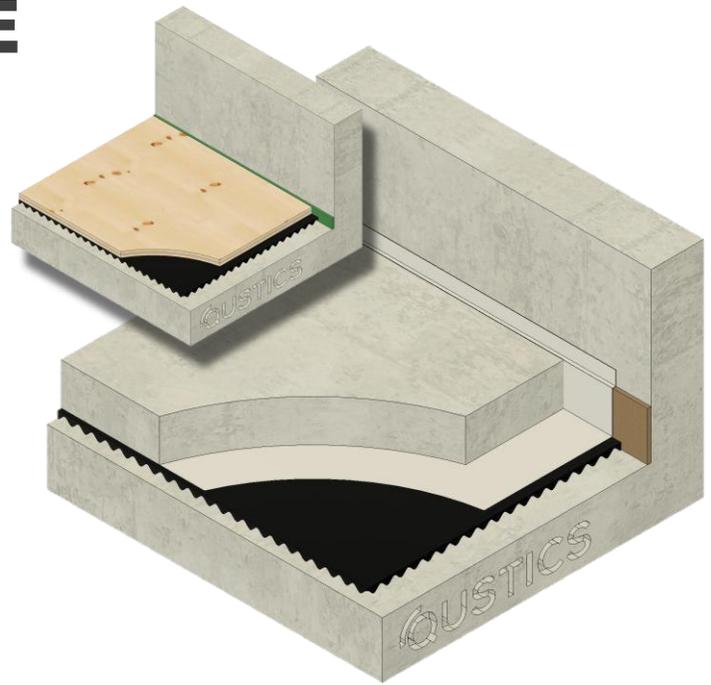
Good for the environment. Good for healthy spaces.

# QuietMatrix™ WAVE

Heavy-Duty Rubber Roll-Out Mat

Dimpled rubber underlayment for floating concrete slabs and wood rafts.

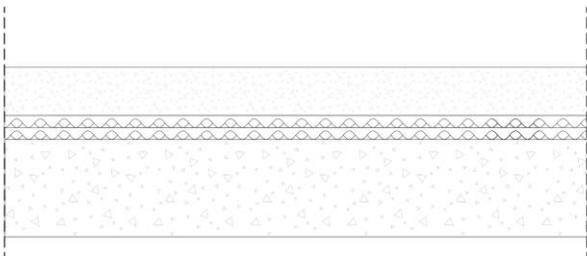
QuietMatrix™ Wave is most suitable when the floor is subject to high point loads and when no air cavity is required, such as slab-on-grade applications.



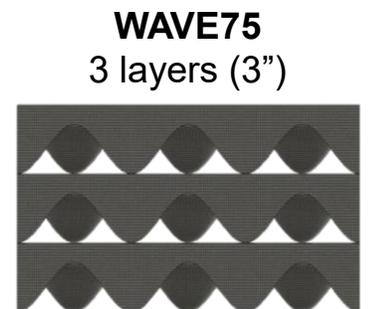
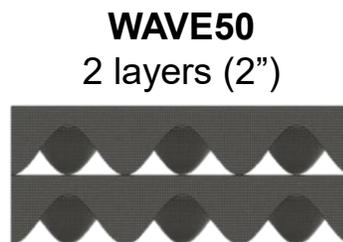
Rolls: 48" x 15' x 11/16"  
48" x 15' x 1"

## QuietMatrix™ WAVE Benefits

- ✓ Continuous structural support
- ✓ Economical
- ✓ No formwork required
- ✓ Resistant to water, mold, bacteria, fungi
- ✓ Made from 92% recycled materials



QuietMatrix™ WAVE50 with concrete topping

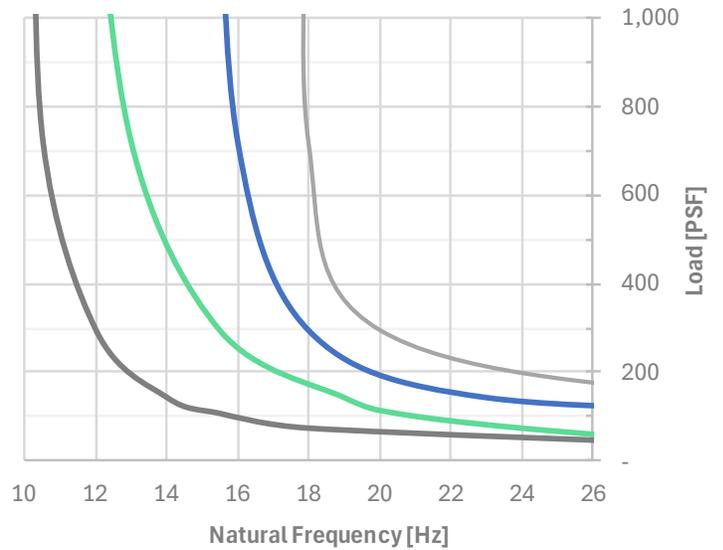
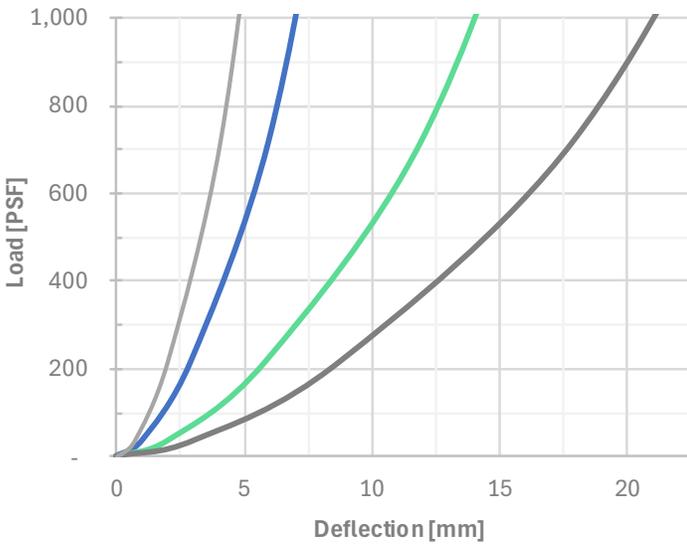


# QuietMatrix™ WAVE

Heavy-Duty Rubber Roll-Out Mat

## Specification:

- Content: 92% recycled rubber content
- Weight: 2.6 psf
- Density: 50 pcf (ASTM D297)
- Tensile Strength: 45 psi (ASTM D412, Die C)
- Compression: 47% at 100 psi (ASTM F36)
- Roll Dimensions: 48" x 15' x 1"
- Poly Covering: optional; on flat topside



— QuietMatrix™ WAVE17   
 — QuietMatrix™ WAVE25   
 — QuietMatrix™ WAVE50   
 — QuietMatrix™ WAVE75

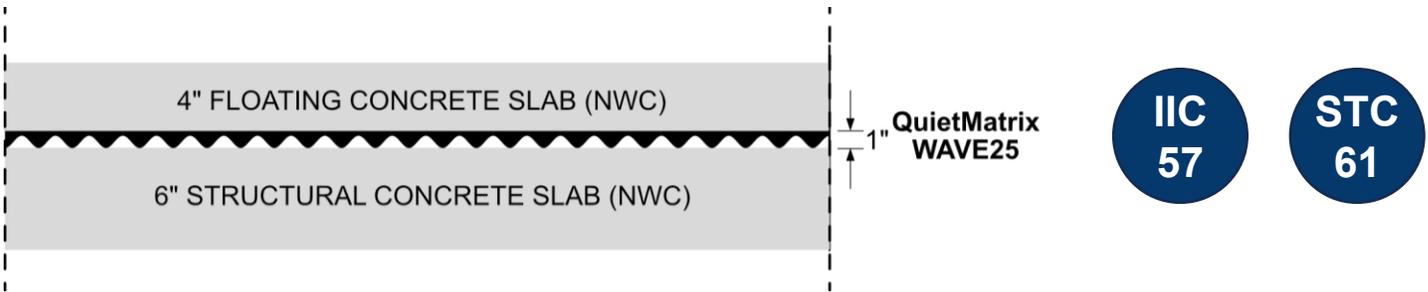
# QuietMatrix™ WAVE

Heavy-Duty Rubber Roll-Out Mat

## Acoustical Performance

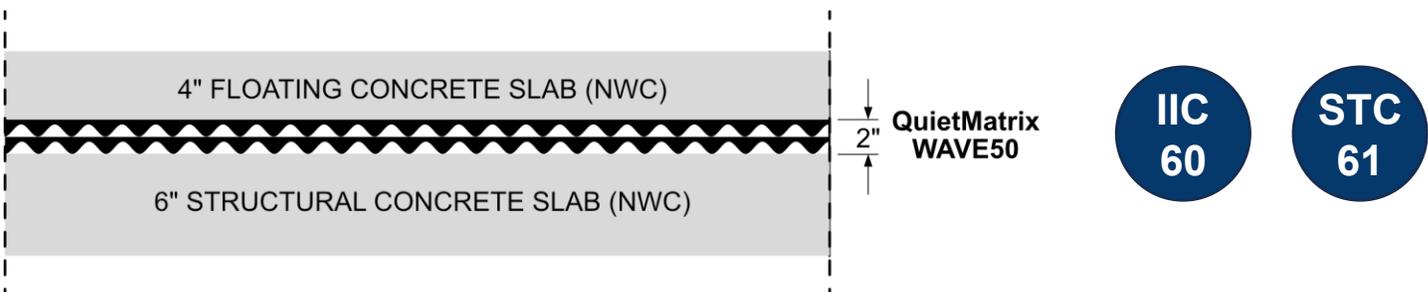
### QuietMatrix™ WAVE25 (1")

tested with a 6-inch structural concrete slab (normal weight concrete and a 4-inch floating concrete slab; tests conducted at an NVLAP-accredited acoustical laboratory in the United States



### QuietMatrix™ WAVE50 (2")

tested with a 6-inch structural concrete slab (normal weight concrete and a 4-inch floating concrete slab; tests conducted at an NVLAP-accredited acoustical laboratory in the United States



# QuietMatrix™ JACK-S

## Spring Jack-Up Floating Floor System

An engineered spring jack-up system for floating floors with a standard 1" (3.2 Hz) or 2" (2.2 Hz) nominal deflection.

This system can be installed with our specialty batt insulation inside the cavity to avoid standing waves.

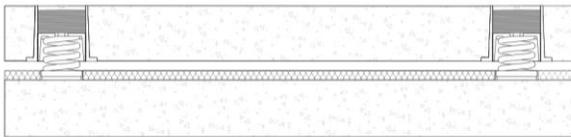
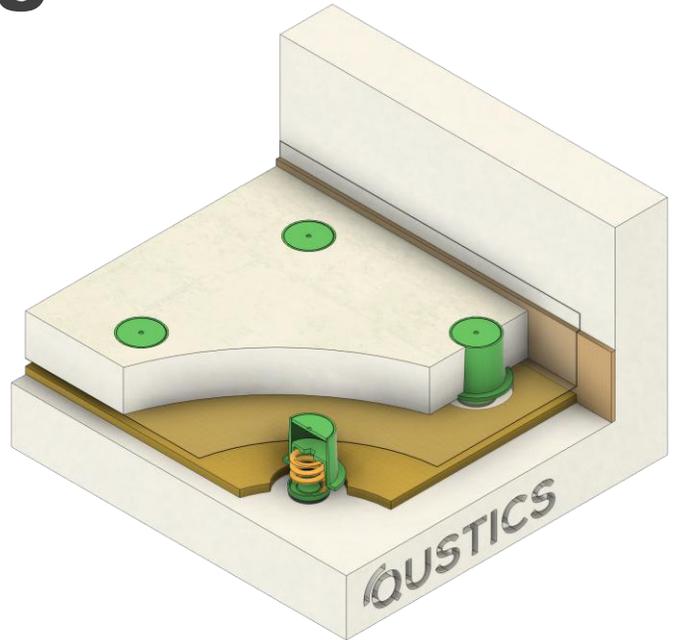
Supplemental damping can be added for applications that would benefit from higher damping ratios (up to 20% damping ratio possible).

Spring housings are accessible from above, allowing retroactive spring tuning and replacement, as well as leveling of the raised floor.

QuietMatrix™ JACK-S-100: 4" Jack-up System

QuietMatrix™ JACK-S-150: 6" Jack-up System

(other system heights available upon request)



### QuietMatrix™ JACK-S Benefits

- ✓ Low-Frequency Isolation
- ✓ 4 to 20" System Height (as needed)
- ✓ Up to 20% Supplemental Damping (optional)
- ✓ Insulation in Cavity (optional)
- ✓ Replaceable Springs

### Features QUSTICS® Cleansulation™

Fiberglass- and formaldehyde-free; 100% recyclable; water, mildew, and vermin resistant.

Good for the environment. Good for healthy spaces.

## Who Are We

We are a team of passionate individuals that care about good building acoustics and healthy environments. Our backgrounds range from former acoustical consultant, to project manager for manufacturers, to installer, to technical leader. This wide level of experience is reflected in the solutions we develop.

## What We Do

“Create Quiet” is our mission. We aim to provide solutions that perform better than conventional products – while being environmentally friendly, good for people and installers, and allow for good indoor air quality.

As part of our mission, we aim to avoid fiberglass, chemical binders, and other materials that contain significant amounts of formaldehyde and volatile organic compounds.

## What Sets Us Apart

QUSTICS® has developed acoustical solutions that are formaldehyde-free, do not use chemical binders, do not contain fiberglass, and are convenient to handle and to install. We care about the environment, people, and indoor air quality.

Knowing that the best product only performs well when properly installed, we strive to provide on-site installation support for every project.

### QUSTICS LLC

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