



ACOUSTICAL SYSTEMS - LLC

BROCHURE

ENGINEERED SOLUTIONS FOR SOUND ABSORPTION,
DIFFUSION AND REFLECTION

Cab Calloway Auditorium, Wilmington, DE
Architect: ABHA Architects
Acoustician: Acentech
Product Shown: Custom Dado™ 14/2 and Reflective 3D Panel Assemblies

Table of Contents

3—4	THE RPG DIFFERENCE
5—6	PERFECTO® [HOLES] MICRO
7—8	PERFECTO® [HOLES] MOTIF
9—10	PERFECTO® [HOLES] MOTIF - CONT'D
11—12	PERFECTO® [HOLES] FX & SHEEN
13—14	PERFECTO® [HOLES] OTHER
15—16	DADO™ [GROOVES]
17—18	EXPO™ [BINARY PATTERNS]
19—20	FLUTTERFREE®
21—22	WAVEFORM™ [CURVED] AND PLANARFORM™ - WOOD (W)
23—24	DIFFUSERS - WOOD [STEPPED 1D]
25—26	DIFFUSERS - WOOD [STEPPED 2D]
27—28	DIFFUSERS - ALUMINUM (A) [CURVED]
29—30	WAVEFORM™ - GFRG [1D]
31—32	DIFFUSERS - GFRG [2D]
33—34	DIFFUSERS- UTILITY GRADE (U) [STEPPED 2D]
35—36	FABRIC PANEL SOLUTIONS
37—38	CLEARSORBER™ PANELS
39—40	CLEARSORBER™ FX PANELS
41—42	CLEARSORBER™ CANOPi
43—44	CLEARSORBER™ FIXED
45—46	CLEARSORBER™ SLACK
47—48	CLEARSORBER™ GO
49—50	DIFFUSERS - POLYMERS
51—52	MODEX® PLATE 2.0
53—54	MODEX LF 2.0
55—56	OVERTURE® VR [STAGE PERFORMANCE]

WOOD

ALUM

GFRG

UTILITY

FABRIC

CLEAR

POLY

LOW HZ

STAGE

The RPG Difference...

ACOUSTICAL Research

Every RPG product begins its life with a dedication to fundamental acoustic research. Whether a surface is intended to absorb sound, diffuse sound or perhaps do both, the science behind the interaction between the sound and the surface guides our innovation. Our dedication to research produced the first commercially available sound diffuser and has led to dozens of patents and innovations.

ACOUSTICAL Design

The design process at RPG maintains the goal of merging art with science, bringing together form and function without compromising performance. Some of the approaches that have grounded the art in science at RPG include mathematical number theory, diffraction physics, fractal geometry, pulse code modulation, shape optimization combining boundary elements, multi-dimensional minimization techniques, computer analysis and laboratory testing.

ACOUSTICS & The Environment

At RPG, we strive for a sustainable approach to manufacturing by meeting present needs without compromising the future. We offer FSC®-certified wood products, ecologically friendly and recycled components where possible and strive for local component sourcing.

ACOUSTICAL Engineering

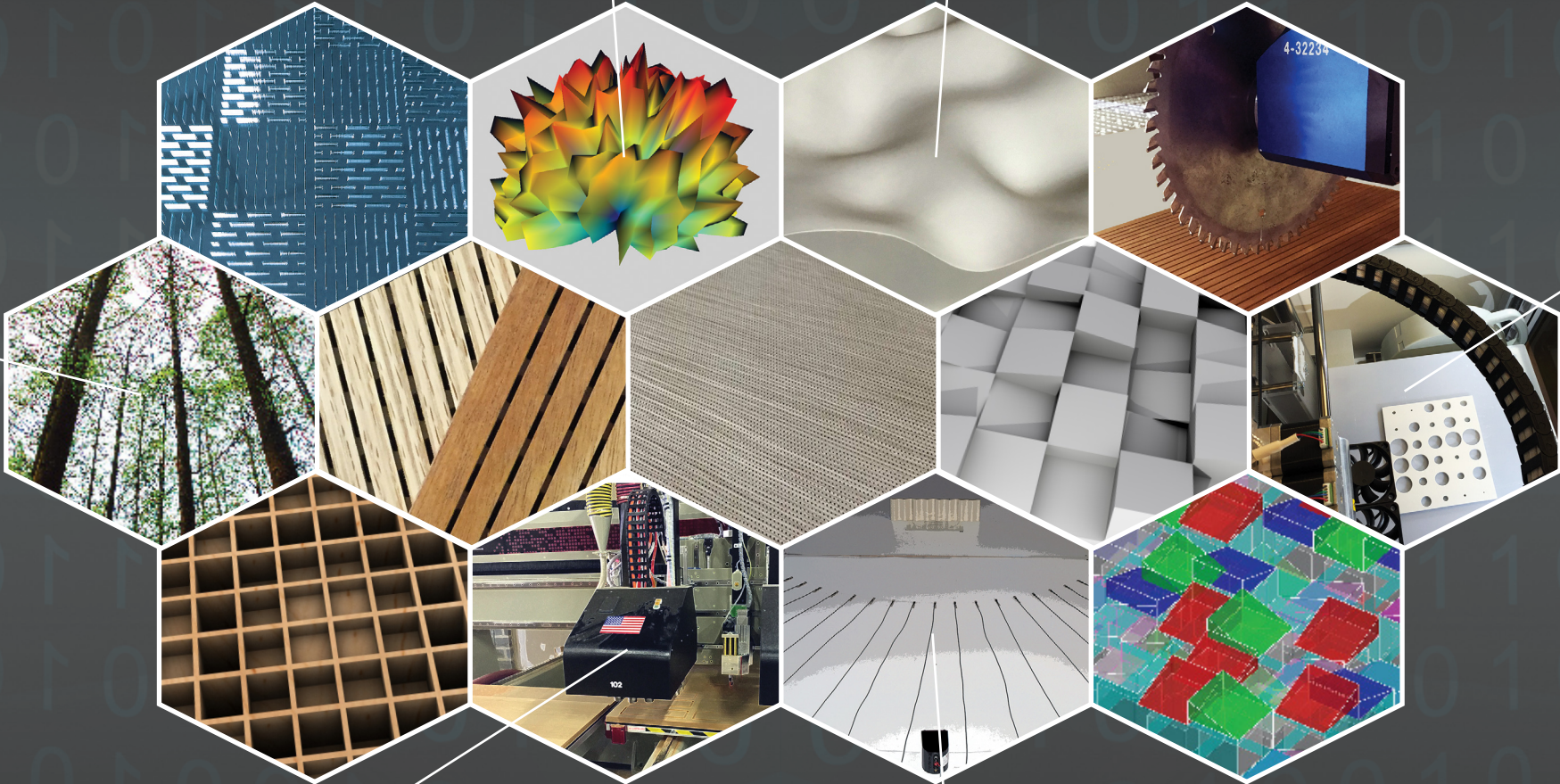
Each new product design must meet the performance and quality standards that RPG products are known for worldwide. RPG's quality assurance program includes computer modeling, scale modeling, a battery of acoustic testing and evaluation, full-scale prototyping and construction review stages. Every new product is expected to push the boundaries of excellence.

ACOUSTICAL Manufacturing

RPG manufactures the majority of its product lines at its 100,000-square-foot facility in Passaic, NJ, which houses state-of-the-art computerized production, handcrafted assembly and custom finishing under one roof.

ACOUSTICAL Testing

Without proof of performance, an acoustic product is simply artwork, millwork, cabinetry or upholstery. No other company tests its products to the exacting standards that RPG does in to provide transparency and documentation, giving the designer a complete specification for each product; Absorption (both random and normal incidence), Diffusion and Scattering Coefficients.



Perfecto® [Holes] Micro

Sound Absorbing, Wood Veneered Panels and Planks

SIZING
Maximum Panel Dimensions:
60" width x 144" length x 3/4" thick
Tongue and Groove Plank Dimensions:
3"-12" width x up to 144" length x 3/4" thick
Standard laser perforations:
Nominal 0.4 mm diameter holes on 2mm staggered centers

CORE FIRE RATING
Class A (per ASTM E-84)

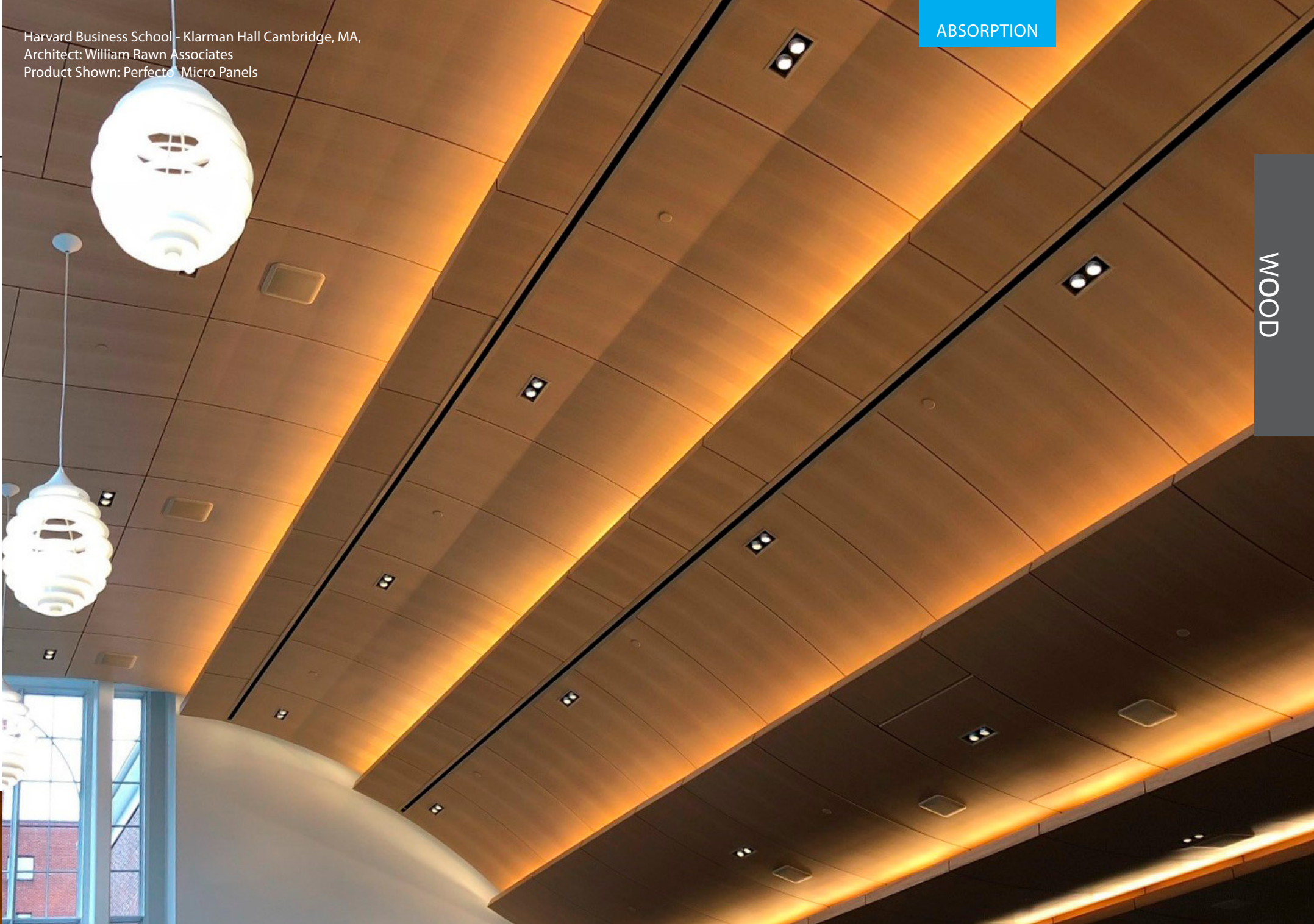
FINISH
The Perfecto® Micro panels and planks are available in various finishes, including natural and engineered wood veneers and laminates. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION
Mounting options include wall systems (Z-clips, direct screw attached), either surface mounted or with a variety of cavity depths starting a 1-3/4" total system depth and ceiling systems with options (Torsion Springs for downward access, RPG C-clips for lift and shift access, direct screw attached) for standard 15/16" HDT-grid.



Note: NRC varies depending on application, core type/thickness and insulation.

Harvard Business School - Klarman Hall Cambridge, MA,
Architect: William Rawn Associates
Product Shown: Perfecto® Micro Panels

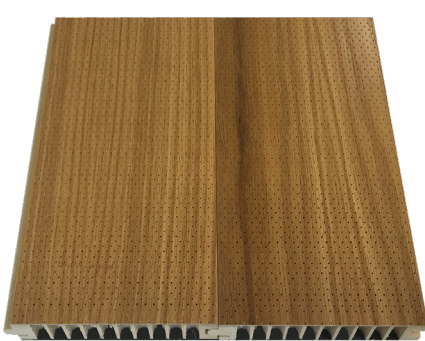


ABSORPTION

WOOD



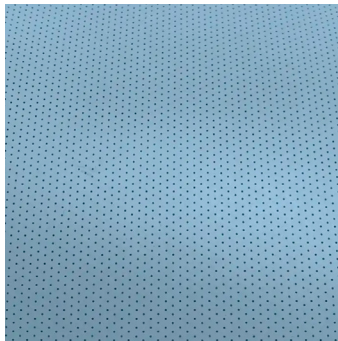
Caymus Suisun Winery, Fairfield, CA
Architect: Bowlin Cywinski Jackson
Product Shown: Perfecto® Micro Planks



Available in a tongue and groove plank



Panel



Painted



Microlo™ Breams & Baffles

Perfecto® [Holes] MOTIF

Sound Absorbing, Wood Veneered Panels and Planks

SIZING
Maximum Panel Dimensions:
60" width x 144" length x 3/4" thick
Tongue and Groove Plank Dimensions:
3"-12" width x up to 144" length x 3/4" thick
Custom patterns and non-perforated borders are available.

CORE FIRE RATING
Class A (per ASTM E-84)

FINISH
The Perfecto® Micro MOTIF is available on wood or painted panels. The species of wood veneer will determine how strong the MOTIF will read. For paint color, light or dark colors read the patterns the best. For light color panels, the panel is defined by the micro-perforation appearing darker; the dark color panels are defined by the micro-perforations appearing lighter.

INSTALLATION
Mounting options include wall systems (Z-clips, direct screw attached), either surface mounted or with a variety of cavity depths starting a 1-3/4" total system depth and ceiling systems with options (Torsion Springs for downward access, RPG C-clips for lift and shift access, direct screw attached) for standard 15/16".
HD T-grid.



Note: NRC varies depending on application, core type/thickness and insulation.

ENTRY LOBBY



MOTIF - Stripes



MOTIF - Squares



MOTIF - Cascade

CORPORATE LOBBY

ABSORPTION



MOTIF - Cubes



MOTIF - Web



MOTIF - Tiles

WOOD

Perfecto® [Holes] MOTIF - Cont'd

Sound Absorbing, Wood Veneered Panels and Planks

OFFICE LOBBY



MOTIF - Connect



MOTIF - Yoga



MOTIF - Pulse

RESTAURANT

ABSORPTION



MOTIF - Droplets



MOTIF - Vines



MOTIF - Strike

Perfecto® Micro MOTIF
Standard Pattern - Vines

WOOD

Perfecto® [Holes] Micro FX & Sheen

Sound Absorbing, Wood Veneered Panels and Planks

SIZING
Maximum Panel Dimensions:
60" width x 144" length x 3/4" thick
Tongue and Groove Plank Dimensions:
3"-12" width x up to 144" length x 3/4" thick

CORE FIRE RATING
Class A (per ASTM E-84)

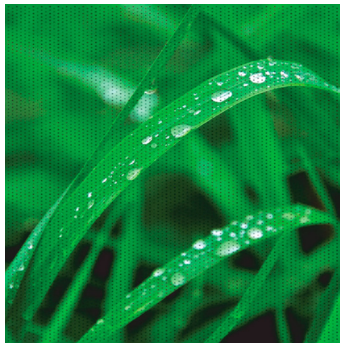
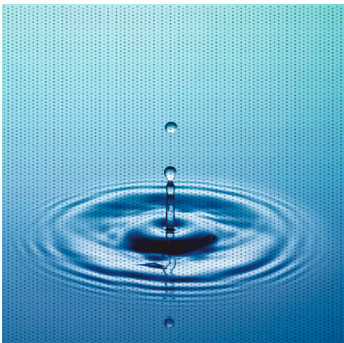
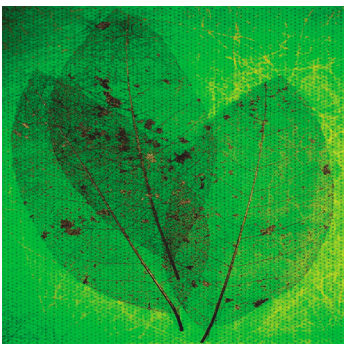
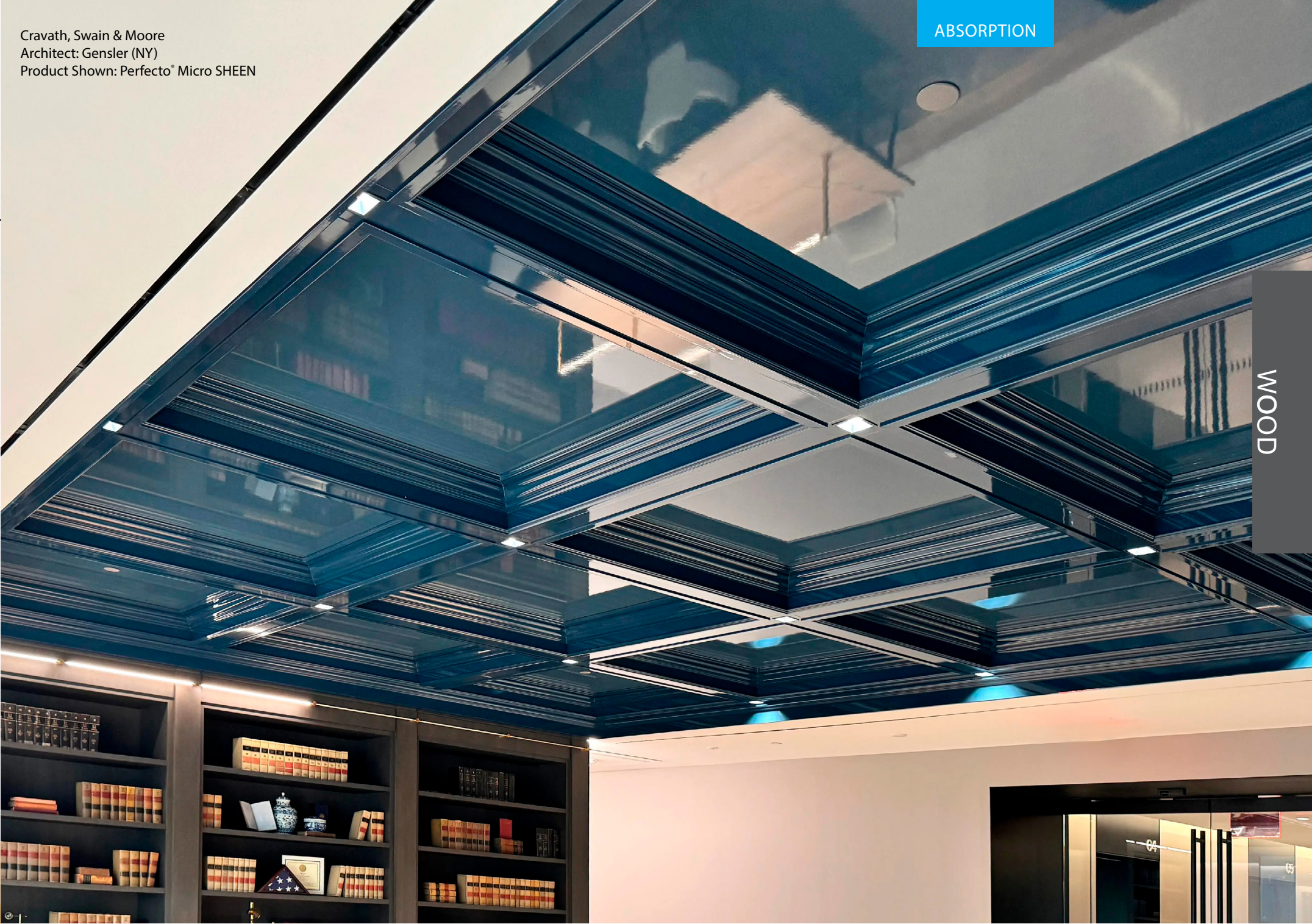
FINISH
The Perfecto® Micro FX Panel is available in custom-printed multi-colored graphics provided by the Architect or Interior Designer. The graphic can be single or multiple panels.

The Perfecto® Micro SHEEN Panel is a hand-rubbed, hand-polished clear polyester finish with 100% sheen.

INSTALLATION
Mounting options include wall systems (Z-clips, direct screw attached), either surface mounted or with a variety of cavity depths starting a 1-3/4" total system depth and ceiling systems with options (Torsion Springs for downward access, RPG C-clips for lift and shift access, direct screw attached) for standard 15/16" HD T-grid.



Note: NRC varies depending on application, core type/thickness and insulation.



Perfecto® Micro FX - High resolution image applied to panels prior to micro-perforating

ABSORPTION

WOOD

Perfecto® [Holes] Other

Sound Absorbing, Wood Veneered Panels and Planks

SIZING

Maximum Panel Dimensions:
60" width x 144" length x 3/4" thick
Standard Tongue and Groove Plank Dimensions:
3"-12" width x up to 144" length x 3/4" thick
Multiple standard and custom perforation patterns and sizes are available.

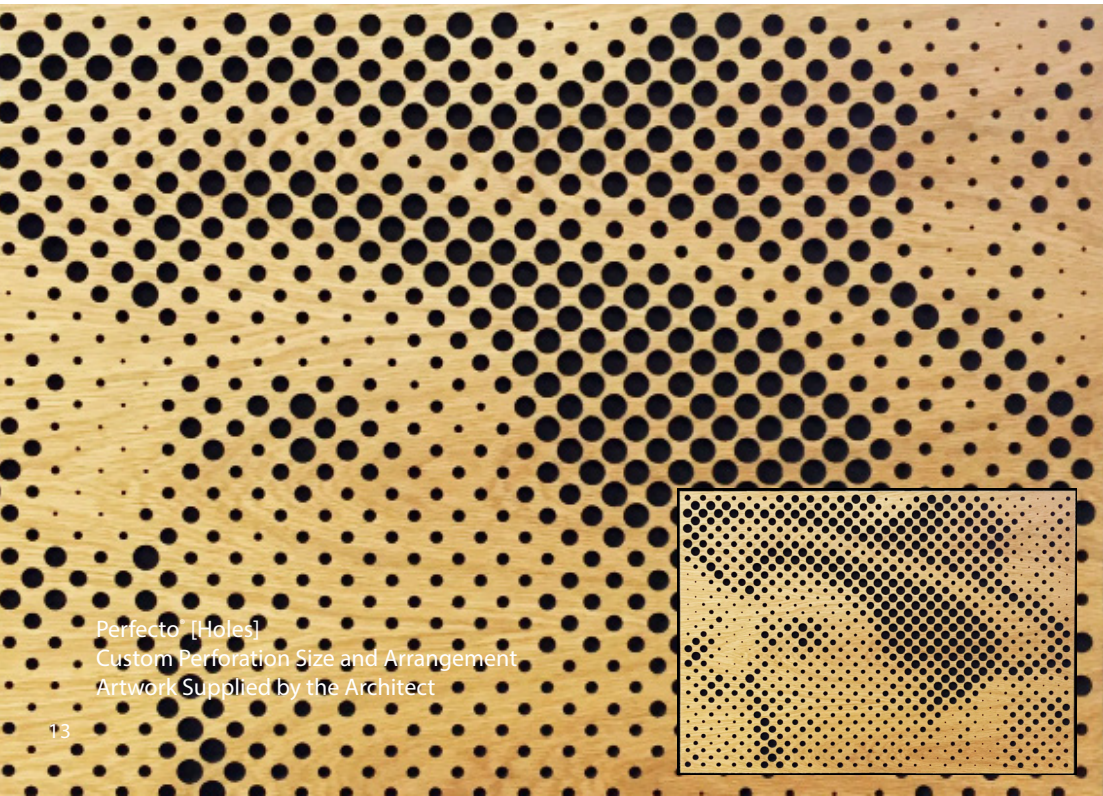
CORE FIRE RATING
Class A (per ASTM E-84)

FINISH
The Perfecto® panels and planks are available in various finishes, including natural and engineered wood veneers and laminates. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION
Mounting options include wall systems (Z-clips, direct screw attached), either surface mounted or with a variety of cavity depths starting a 1-3/4" total system depth and ceiling systems with options (Torsion Springs for downward access, RPG C-clips for lift and shift access, direct screw attached) for standard 15/16" HD T-grid.

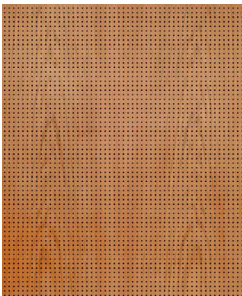


Note: NRC varies depending on application, core type/thickness and insulation.

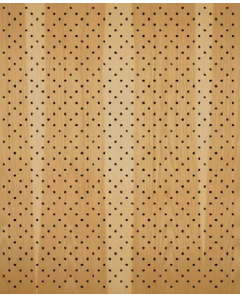


Perfecto [Holes]
Custom Perforation Size and Arrangement
Artwork Supplied by the Architect

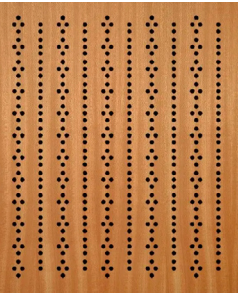
ABSORPTION



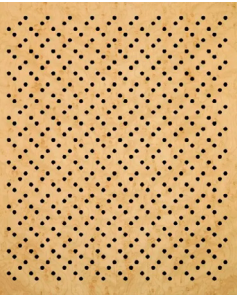
Perfecto Mini (6%),
NRC = 0.85



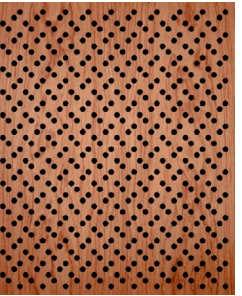
Diamond (4%),
NRC = 0.70



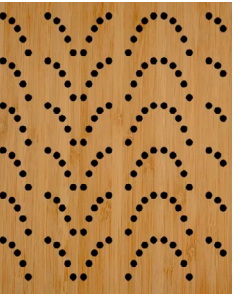
Classic (9%),
NRC = 0.80



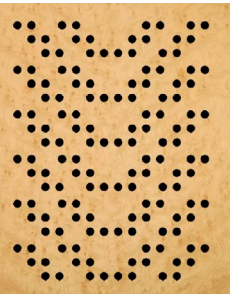
Matrix 3 (9%),
NRC = 0.80



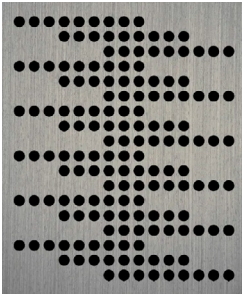
Matrix 4 (16%),
NRC = 0.85



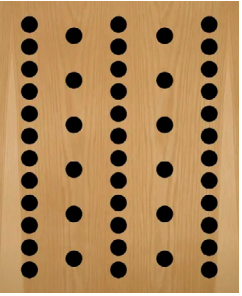
Bounce (9%),
NRC = 0.80



Victory (11%),
NRC = 0.80



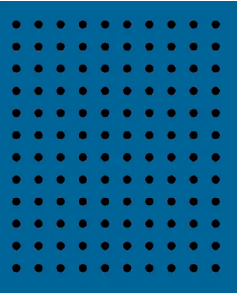
Corkscrew (22%),
NRC = 0.85



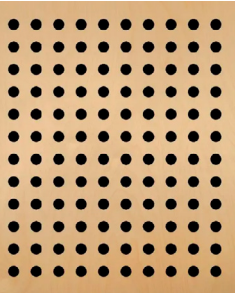
Lanes (15%),
NRC = 0.85



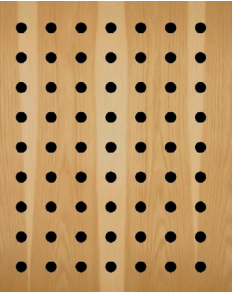
Drops (11%),
NRC = 0.75



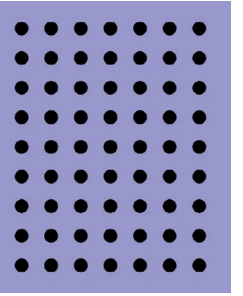
16/16/6 (12%),
NRC = 0.85



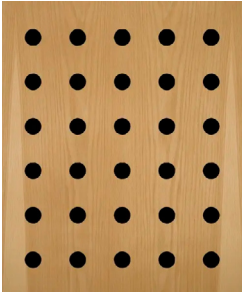
16/16/8 (21%),
NRC = 0.95



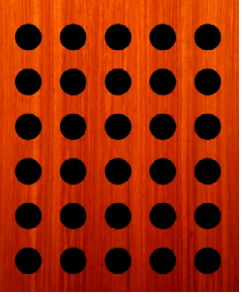
21/21/8 (11%),
NRC = 0.85



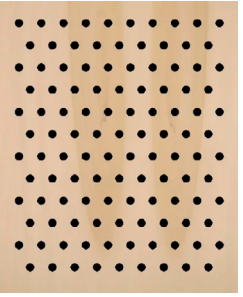
21/21/10 (17%),
NRC = 0.80



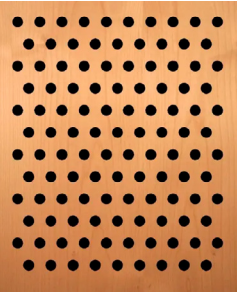
32/32/12 (12%),
NRC = 0.75



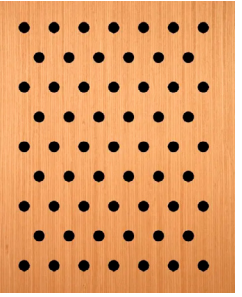
32/32/19 (29%),
NRC = 0.75



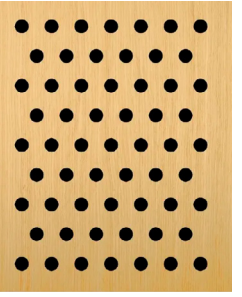
16/16/6s (11%),
NRC = 0.85



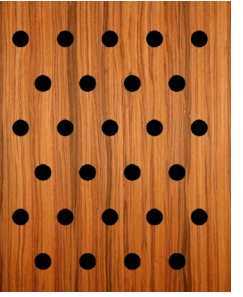
16/16/8s (20%),
NRC = 0.95



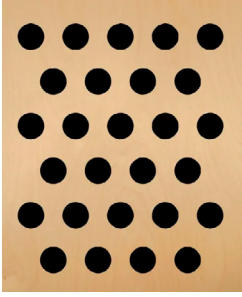
21/21/8s (10%),
NRC = 0.85



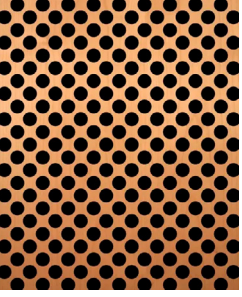
21/21/10s (16%),
NRC = 0.80



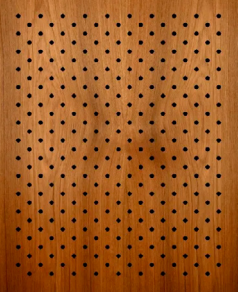
32/32/12s (11%),
NRC = 0.75



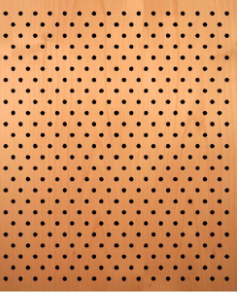
32/32/19s (26%),
NRC = 0.75



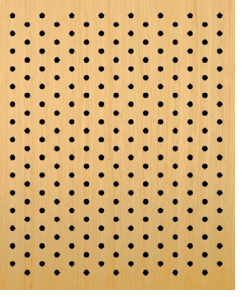
16/8/9cs (49%),
For Vents & Returns



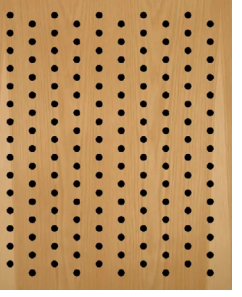
16/16/3cs (8%),
NRC = 0.80



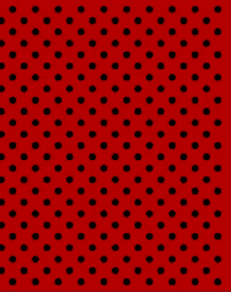
11/8/3cs (8%),
NRC = 0.80



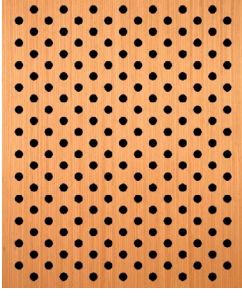
21/6/4cs (10%),
NRC = 0.85



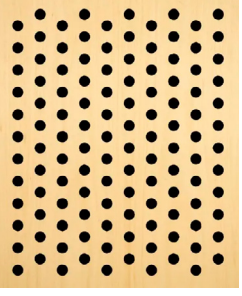
32/6/5cs (10%),
NRC = 0.80



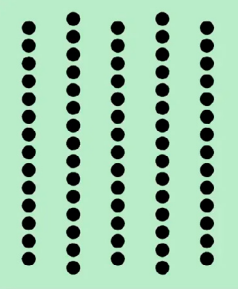
16/8/5cs (17%),
NRC = 0.85



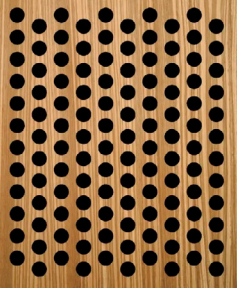
21/8/6cs (21%),
NRC = 0.85



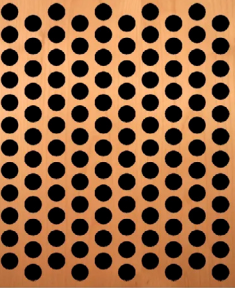
32/8/8cs (21%),
NRC = 0.85



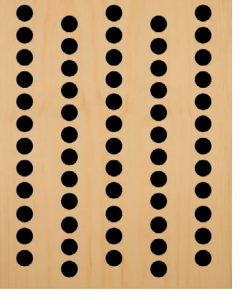
64/6/10cs (20%),
NRC = 0.85



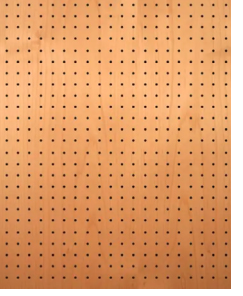
32/8/11cs (30%),
NRC = 0.70



32/8/12cs (36%),
NRC = 0.70



64/8/12cs (21%),
NRC = 0.75



8/8/1.2dp (2%),
NRC = 0.60

s = Staggered
cs = Compressed Staggered
dp = Dual Process

Perfecto® Perforation Style Options

See RPG's [Visualize Perforated Finishes \(VIPR\)](#) for additional information.

WOOD

Dado™ [Grooves]

Sound Absorbing, Wood Veneered Panels and Planks

SIZING
Maximum Panel Dimensions:
60" width x 144" length x 3/4" thick
Standard Tongue and Groove Plank Dimensions:
5" width x 96" length 3/4" thick
(other widths and lengths up to 144" are available)

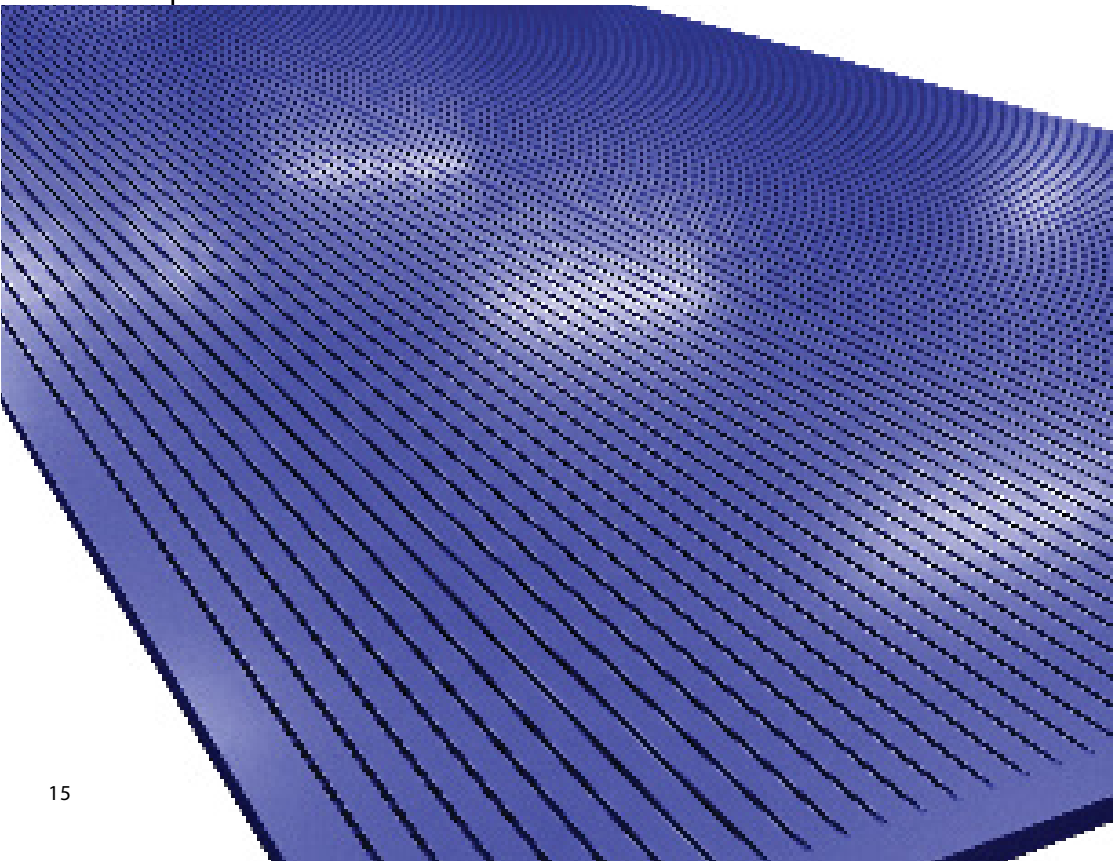
CORE FIRE RATING
Class A (per ASTM E-84)

FINISH
The Dado™ panels and planks are available in various finishes, including natural and engineered wood veneers and laminates. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

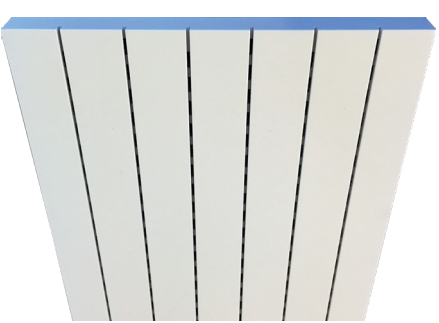
INSTALLATION
Mounting options include wall systems (Z-clips, direct screw attached), either surface mounted or with a variety of cavity depths starting a 1-3/4" total system depth and ceiling systems with options (Torsion Springs for downward access, RPG C-clips for lift and shift access, direct screw attached) for standard 15/16" HD T-grid.



Note: NRC varies depending on application, core type/thickness and insulation.



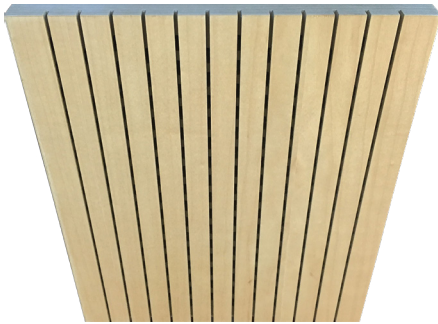
Cab Calloway Auditorium, Wilmington, DE
Architect: ABHA Architects
Acoustician: Acentech
Product Shown: Dado™ 14/2 Custom Panel Assemblies



30/2, NRC = 0.70



28/4, NRC = 0.80



14/2, NRC = 0.90



6/2, NRC = 0.80



5/3, NRC = 1.00

Expo™ [Binary Patterns]

Hybrid Acoustic Technology, Wood Veneered Panels

SIZING
Maximum Standard Panel Dimensions:
60" width x 144" length x 3/4" thick

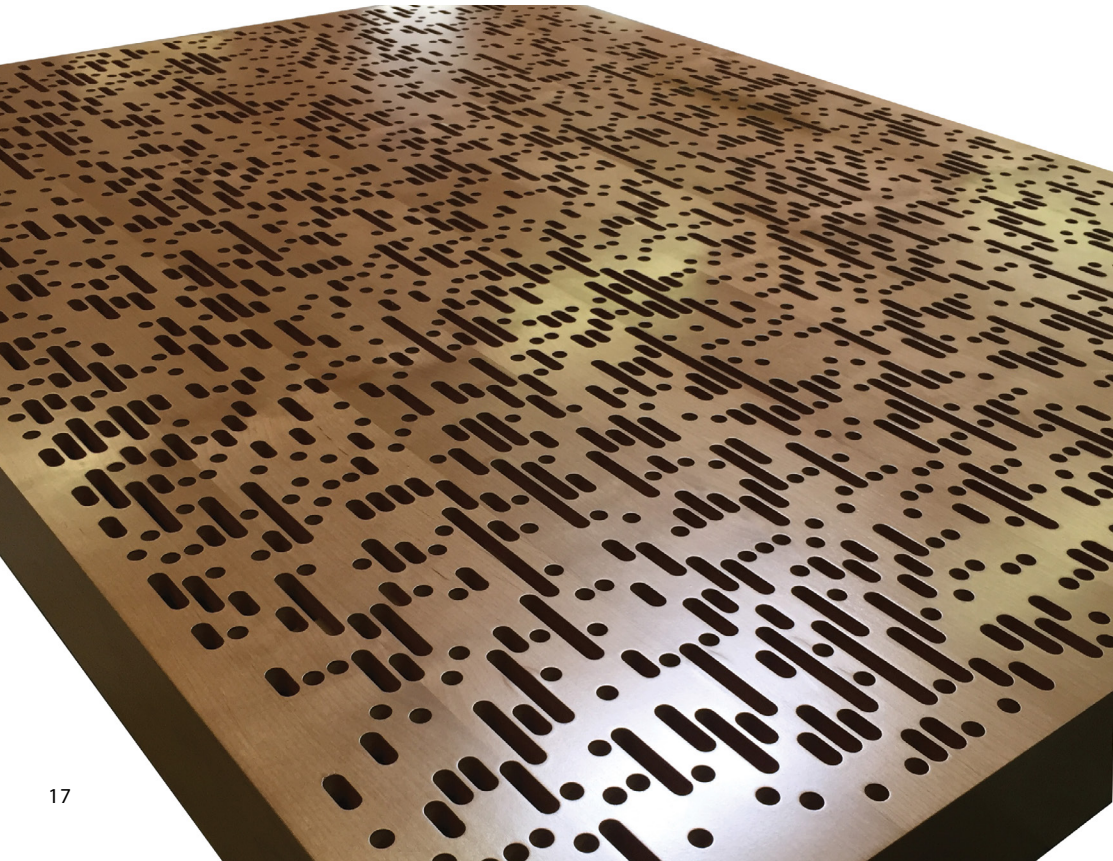
CORE FIRE RATING
Class A (per ASTM E-84)

FINISH
The Expo™ panels and planks are available in various finishes, including natural and engineered wood veneers and laminates. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

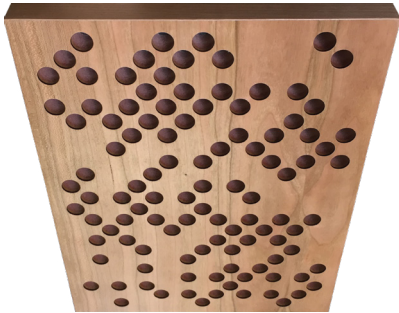
INSTALLATION
Mounting options include wall systems (Z-clips, direct screw attached), either surface mounted or with a variety of cavity depths starting a 1-3/4" total system depth and ceiling systems with options (Torsion Springs for downward access, RPG C-clips for lift and shift access, direct screw attached) for standard 15/16" HD T-grid.



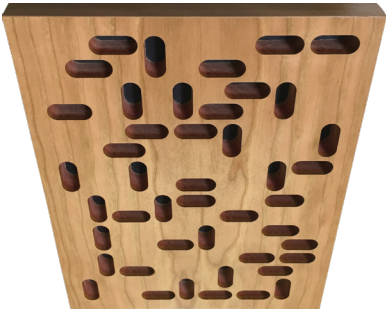
Note: NRC varies depending on application, core type/thickness and insulation.



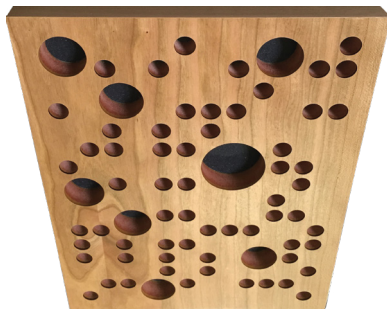
Standard
NRC = 0.80



Forty-Five
NRC = 0.80



Cells
NRC = 0.80



Galaxy
NRC = 0.80



Code
NRC = 0.80

ABSORPTION

WOOD

FlutterFree®

Sound Diffusing, Solid Wood Planks

SIZING
Standard Plank Dimensions:
FlutterFree® » 3-29/32" width x 120" length x 1-1/32" thick
FlutterFree® T » 4-15/16" width x 120" length x 1-1/16" thick
FlutterFree® W » 2-11/16" width x 120" length x 1-1/16" thick

FIRE RATING
Standard product not rated
Class A (per ASTM E-84) finish available if specified

FINISH
FlutterFree® is available in various finishes, including solid woods (Cherry, Mahogany, Maple, Red Oak, Walnut, White Oak) and painted surfaces. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION
FlutterFree® is best mounted perpendicular to wood battens for wall or ceiling mounting. Batten spacing should be no more than 16" on center. The mounting can be configured to integrate both mid and low-frequency absorption to further enhance the acoustical attributes for more demanding applications.



Hofstra Auditorium (JC Adams Playhouse?),
Scranton, PA
Architect: Highland Associates
Acoustician: The Sextant Group, Inc.
Product Shown: FlutterFree® W



WOOD



Residential Home Theater
Product Shown: FlutterFree® W



FlutterFree® T



FlutterFree® W



FlutterFree®, Slotted

Waveform® and Planarform™ - Wood

Curvilinear and Reflective Wall and Ceiling Elements

SIZING
Standard Panel Dimensions:
Waveform® Gaussian W » 47-3/4" width x 47-3/4" length x 6" or 12" depth
Waveform® Monoradial W » 47-3/4" width x 95-3/4" length x 12" depth
Waveform® Spline W » 47-3/4" width x 95-3/4" length x 10" depth
Planarform™ Reflector W » 47-3/4" width x 95-3/4" length x 3/4" depth

CORE FIRE RATING
Class A (per ASTM E-84)

FINISH
The Waveform® and Planarform™ canopy elements are available in various finishes, including natural and engineered wood veneers and laminates. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION
The Waveform® and Planarform™ canopies are hung by suspending units from integrated hairpin loops using RPG-supplied engineered cables and hardware. Each panel can be hung as a "cloud" or screwed together to create a canopy. Units can also be mounted directly onto walls using RPG-provided integrated cleats.



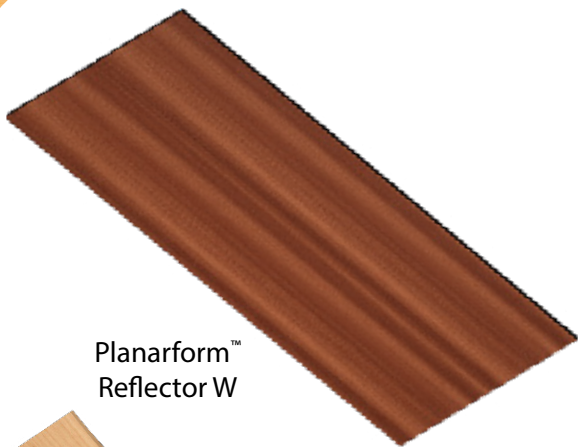
Massry Center for the Arts,
The College of Saint Rose, Albany, NY
Architect: Saratoga Associates
Acoustician: AVL Designs, Inc.
Product Shown: Waveform® Gaussian W,
Monoradial W and Spline W, Modfusor™



WOOD



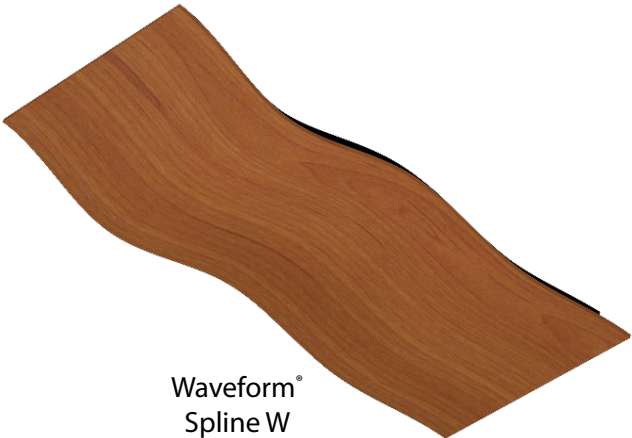
Massry Center for the Arts, Albany, NY
The College of Saint Rose, Albany, NY
Architect: The Saratoga Associates
Acoustician: AVL Designs, Inc.
Product Shown: Waveform® Gaussian W



Planarform™
Reflector W



Waveform® Gaussian W



Waveform®
Spline W



Waveform®
Monoradial W

Diffusors [Stepped 1D]

Sound Diffusing and Hybrid, Wood Veneered Units

SIZING

Standard Panel Dimensions:

- Difftractal® » 23-5/8" width x 47-1/4" height x 9-1/8" depth
- Modffractal™ » 23-5/8" width x 47-1/4" height x 7-7/8" depth
- Modffusor™ » 23-5/8" width x 47-1/4" height x 7-7/8" depth
- Optistep™ W » 16" width x 47-1/4" height x 8" depth
- QRD® 734 » 23-5/8" width x 23-5/8" height x 9-1/8" depth
- QRD® 734F » 19-3/8" width x 47-1/4" height x 4-1/4" depth

CORE FIRE RATING

Class A (per ASTM E-84)

FINISH

RPG's Stepped 1D Diffusors are available in various finishes, including natural and engineered wood veneers and laminates. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION

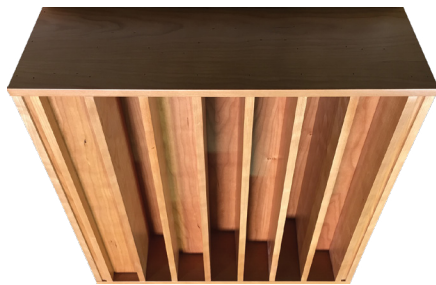
RPG's Stepped 1D Diffusors are designed to be flush-mounted to a wall or ceiling surface with factory-integrated blocking. They can be installed singularly or in an array across walls and ceilings.



Marine Band Barracks, Washington, DC
Architect: BBGM
Acoustician: Miller Beam & Paganelli, Inc.
Product Shown: QRD® 734



IDEAS Disney Studio, Orlando, FL
Acoustician: Alacronics
Product Shown: Difftractal®, Slotted, Custom Array



Modffusor



Optistep W



Modffractal



QRD® 734-F

Diffusers [Stepped 2D]

Sound Diffusing, Wood Veneered Units

SIZING

Standard Panel Dimensions:

- Omniffusor™ W58 » 23-5/8" width x 23-5/8" height x 8" depth
- Omniffusor™ W76 » 23-5/8" width x 23-5/8" height x 6" depth
- Omniffusor™ W84 » 23-5/8" width x 23-5/8" height x 4" depth
- Omniffusor™ W113 » 23-5/8" width x 23-5/8" height x 3" depth
- Omniffusor™ W113 » 23-5/8" width x 16-7/8" height x 3" depth
- Skyline® W764 » 12" width x 12" height x 4-1/2" depth
- Skyline® W9612 » 11-1/4" width x 23-5/8" height x 12-1/2" depth

CORE FIRE RATING

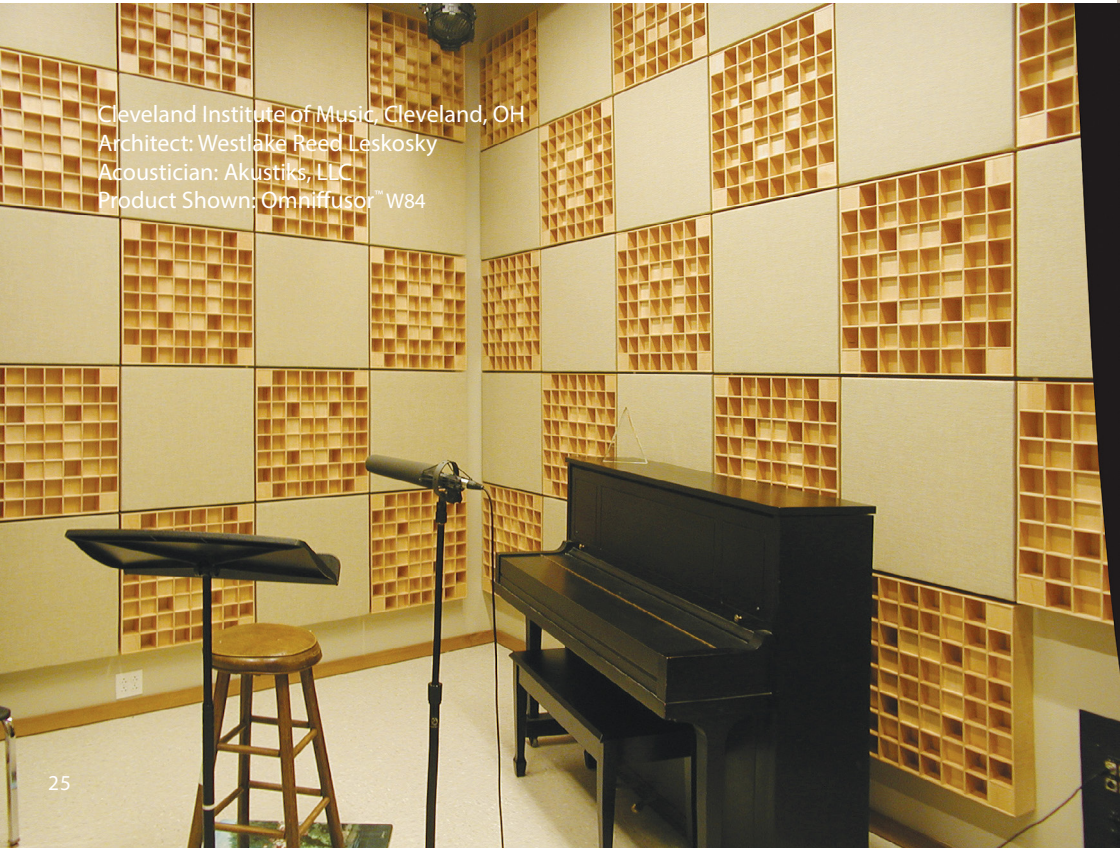
Class A (per ASTM E-84)

FINISH

RPG's Stepped 2D Wood Diffusers are available in various finishes, including natural and engineered wood veneers and laminates. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION

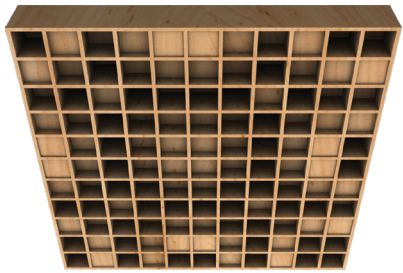
RPG's Stepped 2D Wood Diffusers are designed to be flush-mounted to a wall or ceiling surface with factory-integrated blocking. They can be installed singularly or in an array across walls and ceilings.



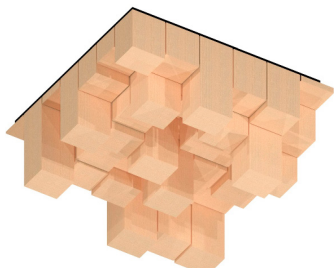
Cleveland Institute of Music, Cleveland, OH
Architect: Westlake Reed Leskosky
Acoustician: Akustiks, LLC
Product Shown: Omniffusor™ W84



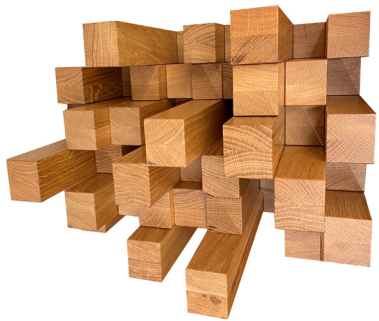
Omniffusor™ W58



Omniffusor™ W113



Skyline® W764



Skyline® W6912

Grand Piano Room, BERG Contemporary, Reykjavik, Iceland
Architect: Arkitekt Faj
Acoustician: Silfurberg ehf
Product Shown: Omniffusor™ W76, Omniffusor™ W84,
Omniffusor™ W113, Modfractal™ & Perfecto™ Micro

DIFFUSION

WOOD

Waveform® A and Planarform™ A - Aluminum

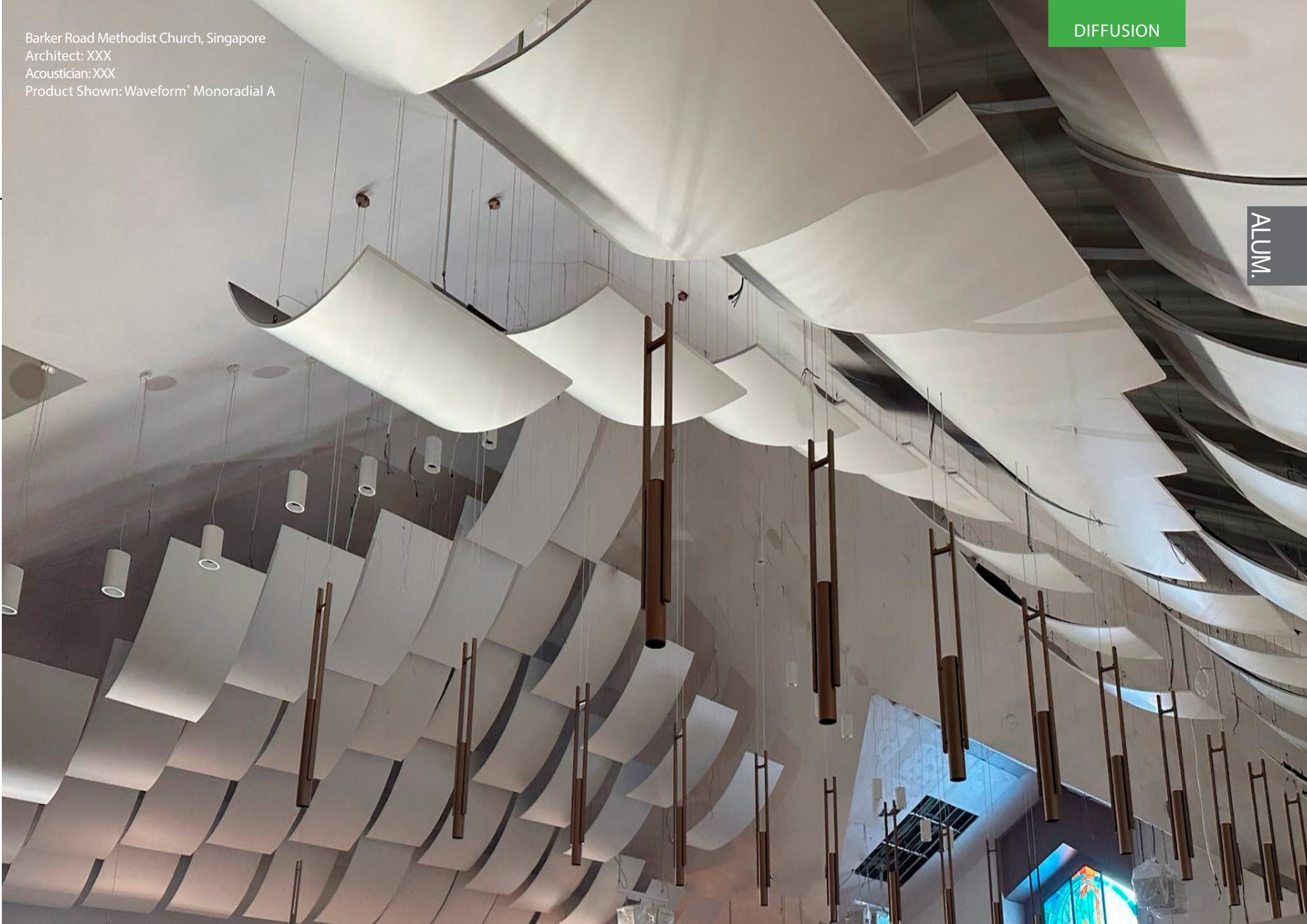
Curvilinear and Reflective Wall and Ceiling Elements

SIZING
Standard Panel Dimensions:
Waveform® Gaussian A6 » 4'width x 4' height x 6" depth
Waveform® Gaussian A12 » 4'width x 4' height x 12" depth
Waveform® Monoradial A » 4'width x 8' height x 12" depth
Waveform® Spline A » 4'width x 4' height x 12-3/4" depth
Planarform™ Reflector A » 4'width x 8' height x 3/4" depth

FIRE RATING
Non-Combustible

FINISH
The Waveform® and Planarform™ A Panels are available standard in a white powder-coated finish. Units can be painted in custom colors or have a matte, architectural wood-grain film applied to the face

INSTALLATION
Overhead mounting of the Waveform® and Planarform™ A Panels is achieved by suspending units from embedded eye-bolts using RPG-supplied engineered cables and hardware. Each panel is designed to hang freely as a separate "cloud" or tied together with brackets along the long or short edge to create a canopy.



Attachment points - 6 per panel



Waveform® Gaussian A6



Waveform® Gaussian A12



Waveform® Monoradial A



Waveform® Spline A

Waveform® Spline A
Back of panel

Waveform® GFRG [1D]

Sound Diffusing, GFRG Wall & Canopy Elements

SIZING

Standard Panel Dimensions:
Waveform® Gaussian G » 47-3/4" width x 47-3/4" length x 6" or 12" depth
Waveform® Monoradial » 4' width x 8' length x 12" depth
Waveform® Spline G » 47-3/4" width x 95-3/4" length x 12-3/4" depth
Waveform® Spline G3 » 48" width x 48" length x 9-3/4" depth
Waveform® Wiggle G » 2' width x 8' length x 12" depth

FIRE RESISTANCE

Non-combustible

FINISH

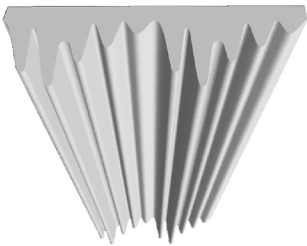
The Waveform® GFRG units are typically provided with a paint ready surface for onsite application, however units can be factory finished to meet any paint manufacturer's color specification.

INSTALLATION

Waveform® GFRG elements are designed to hang freely, each unit a separate "cloud," or bolted together to create a canopy. They can also be direct mounted to a wall or ceiling using appropriate wood blocking. Smaller units, such as the Harmonix™ G, are designed to integrate with a standard T-bar grid.



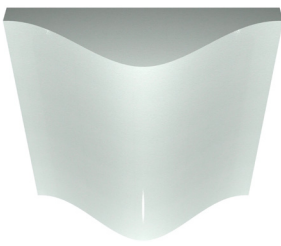
John Harris High School
Acoustician: AVL Design
Product Shown: Waveform® Spline G



Wiggle G



Monoradial G



Spline G



Spline G3

Diffusers GFRG [2D]

Sound Diffusing, GFRG Wall and Ceiling Elements

SIZING

Standard Panel Dimensions:

- Golden Pyramid™ G 2x2 » 23-3/4" width x 23-3/4" length x 8-1/8" depth
- Golden Pyramid™ G 4x4 » 47-7/8" width x 47-7/8" length x 12" depth
- Harmonix™ G » 23-3/4" width x 23-3/4" length x 4-1/2" depth
- Omniffusor® G74 » 25-3/8" width x 23-5/8" length x 4-1/4" depth
- Planarform™ Wrinkle G » 47-3/4" width x 47-3/4" length x 8-1/2" depth
- Skyline® Brix G » 25-3/8" width x 46-1/2" length x 4-1/2" depth
- Skyline® G768 » 56" width x 48" length x 10" depth
- Waveform® Bicubic G » 48" width x 48" length x 8-3/8" depth
- Waveform® Biradial G » 48" width x 48" length x 8" depth

FIRE RESISTANCE

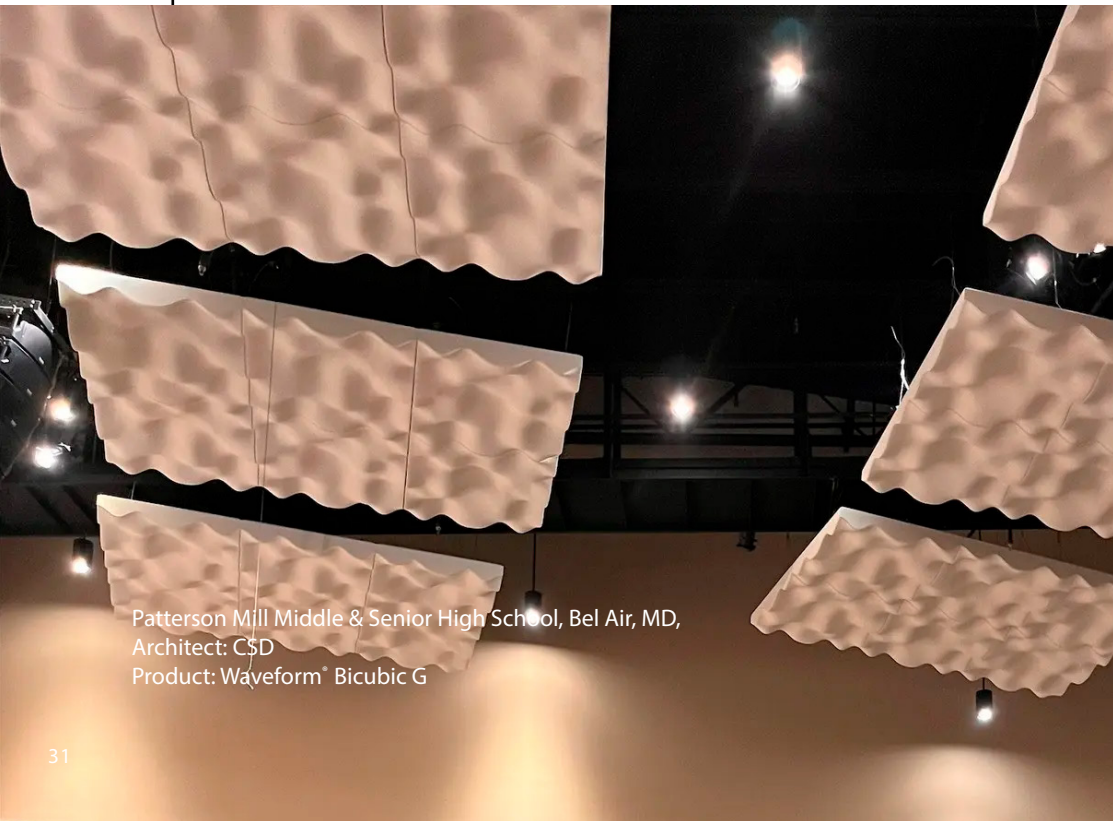
Non-Combustible

FINISH

The Diffusor GFRG [2D] units come in a natural/raw GFRG finish to be painted on-site of factory color-matched to any paint color specification.

INSTALLATION

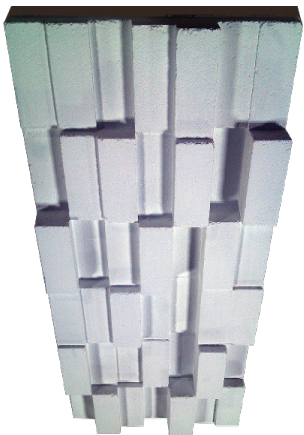
The Diffusor GFRG [2D] units are designed to mount directly to a wall or ceiling with provided cleats. The Golden Pyramid™ and Omniffusor® G74 units; however, may be suspended in a standard 15/16" HD T-grid.



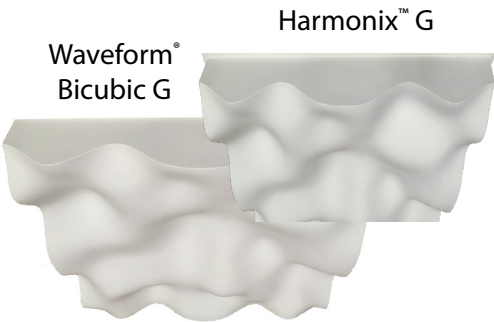
Patterson Mill Middle & Senior High School, Bel Air, MD,
Architect: CSD
Product: Waveform® Bicubic G



Duke Ellington School of the Arts, Washington, DC, Choral Rehearsal
Architect: Cox Graae Spack
Acoustician: Polysonics
Product: Omniffusor™ G74

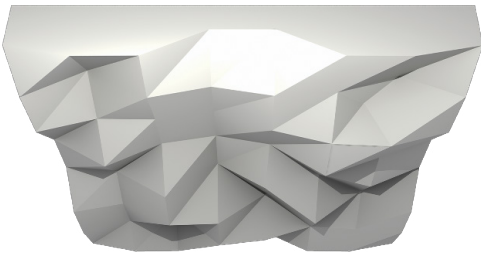


Skyline® Brix G

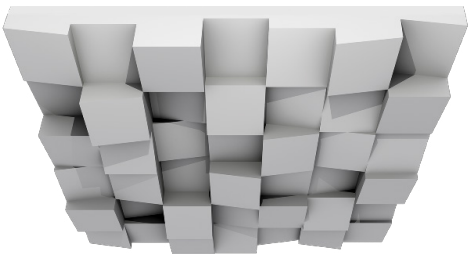


Waveform®
Bicubic G

Harmonix™ G



Planarform™ Wrinkle G



Skyline® G768

Diffusers [Stepped 2D] - Utility Grade

Sound Diffusing, Utility Grade Units

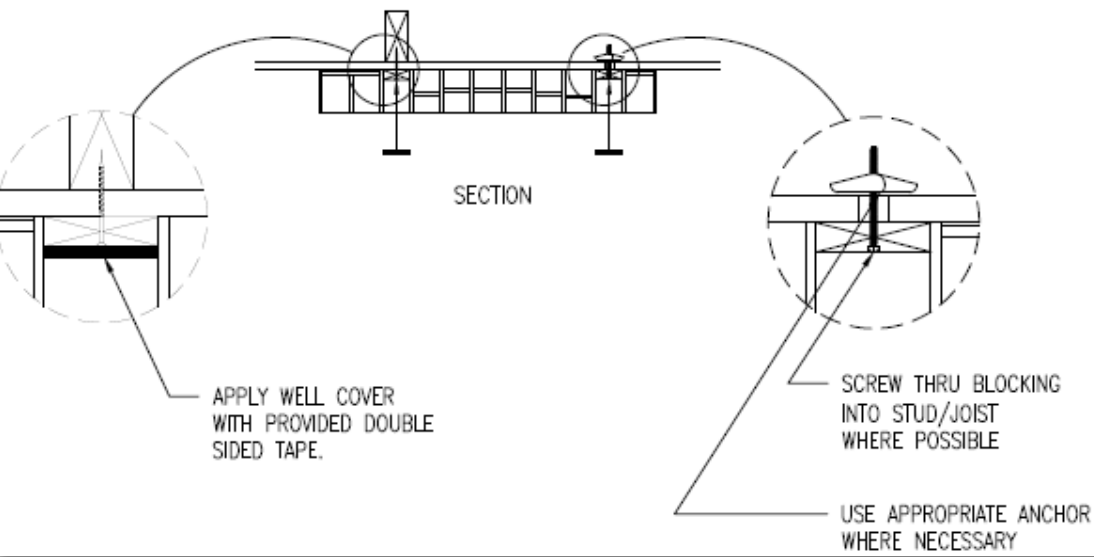
SIZING
Standard Panel Dimensions:
23 5/8" width x 23-5/8" height

Standard Panel Depths:
Omniffusor® U58 » 8"
Omniffusor® U76 » 6"
Omniffusor® U84 » 4"
Omniffusor® U113 » 3"

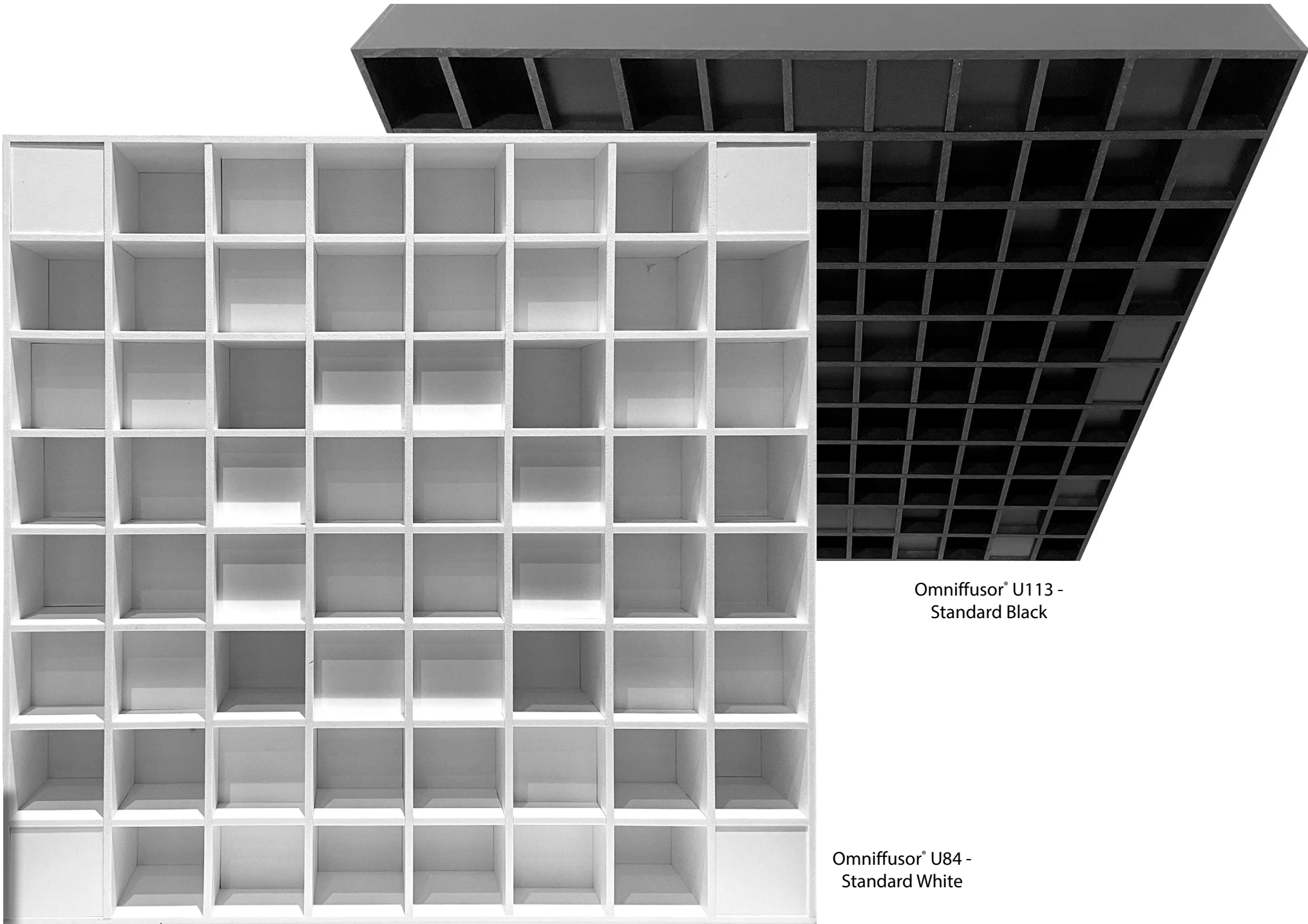
CORE FIRE RATING
Class A (per ASTM E-84)

FINISH
For use in applications where performance is critical, but the finish/color is less so. Units are available standard in white or black.

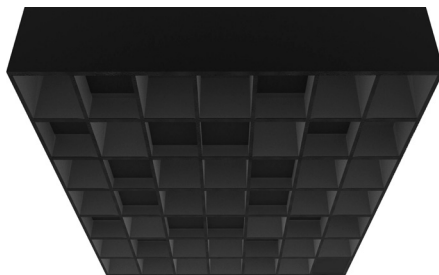
INSTALLATION
RPG's Stepped 2D Wood Diffusers are designed to be flush-mounted to a wall or ceiling surface with factory-integrated blocking. They can be installed singularly or in an array across walls and ceilings.



Typical Wall Installation Details
Product Shown: Omniffusor U113



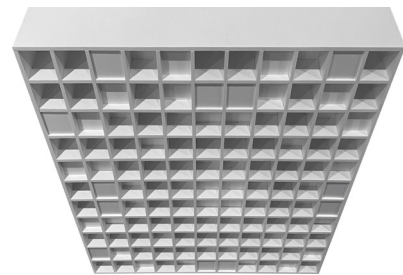
Omniffusor® U58



Omniffusor® U76



Omniffusor® U84



Omniffusor® U113

Fabric Panel Solutions

Peak Performance™ Sound Absorbing and Hybrid Panels

SIZING
Maximum Standard Panel Dimensions:
48" width x 120" length
Available Thicknesses: 1-3/8", 2-3/8", 3-3/8", and 4-3/8"

FIRE RATING
All Class A Components

FINISH
All Peak Performance™ 2.0 fabric panels can be wrapped with the same fabric; choose from a selection of industry-standard or custom offerings. Send RPG your fabric selection for evaluation if you would like to confirm its suitability.

INSTALLATION
The Peak Performance™ 2.0 fabric panels can be quickly and easily hung on any wall surface using RPG's Impalit™ clip. For ceiling applications, the panels can be either direct mounted with Z-bar attachments or suspended using a cloud anchor kit. Panels can also be configured to install in a standard 15/16" HD T-grid supplied by others.



ABSORPTION

HYBRID

FABRIC

All RPG fabric wrapped acoustical panels are available in a high resolution graphic print.

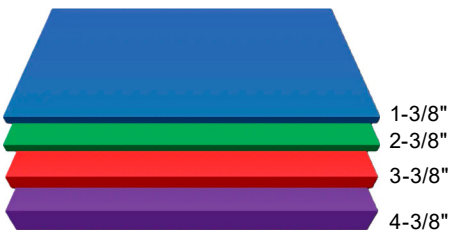


BAD™ 2.0



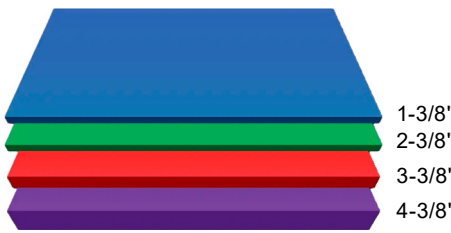
Redesigned to reduce high-frequency absorption in order to make room for improved diffusion performance. Subsequently offers improved low-frequency absorption.

Broadsorbor™ 2.0



Redesigned to improve low-frequency performance while maintaining the already excellent mid- and high-frequency performance.

Modsorbor™ 2.0



Redesigned to increase and broaden its lower-mid and upper base resonances in a larger format, now up to 4' x 10'.

Clearsorber® Panels

Sound Absorbing + Light Transmitting Panels

SIZING
Maximum Panel Dimensions are recommended based upon panel thicknesses:
1/8" thick » 24" width x 48" length
3/16" thick » 24" width x 72" length or 36" width x 48" length
1/4" thickness » 24" width x 96" length or 48" width x 48" length

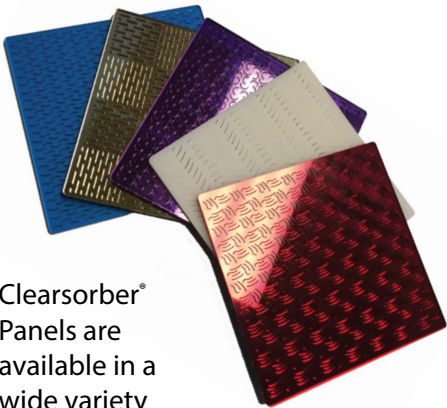
FIRE RATING
Class C (per ASTM E-84)

FINISH
Clearsorber® Panels are available in matte, high-gloss and textured surfaces and from clear to translucent and opaque finishes. There are various micro-slit patterns to choose from, and additional custom patterns may be available.

INSTALLATION
Clearsorber® Panels are best mounted using standoffs, tensioned cable systems or integrated directly into an existing mullion. Several different options are available for each mounting type.



Discovery STEM Academy,
Duke Ellington School of the Arts,
Washington, DC
Architect: Cox Graae Spack
Acoustician: Polysonics
Product: Clearsorber® PET g Panels,
Translucent, 'Pour' Pattern, Wire Cable
and Magnetic Stand-off Mounting



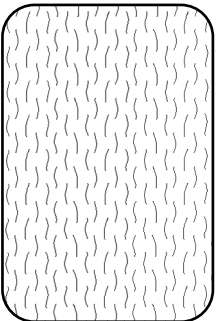
Clearsorber® Panels are available in a wide variety of materials, colors and textures.



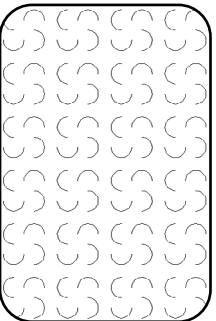
Thistle



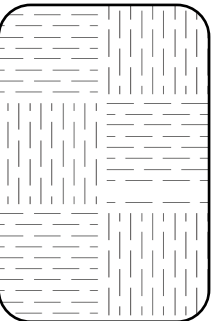
Rain



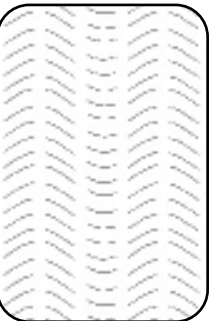
Flow



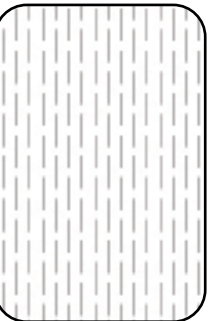
Clover



Parquet



Wave



Pour

All Clearsorber® Panels have an NRC up to 0.60.



Call Center, Philadelphia, PA
Acoustician: Acentech
Product: Clearsorber® PETg Panels, Transparent, 'Pour' Pattern,
Custom Partition Integration

ABSORPTION

CLEAR

Clearsorber® FX Panels

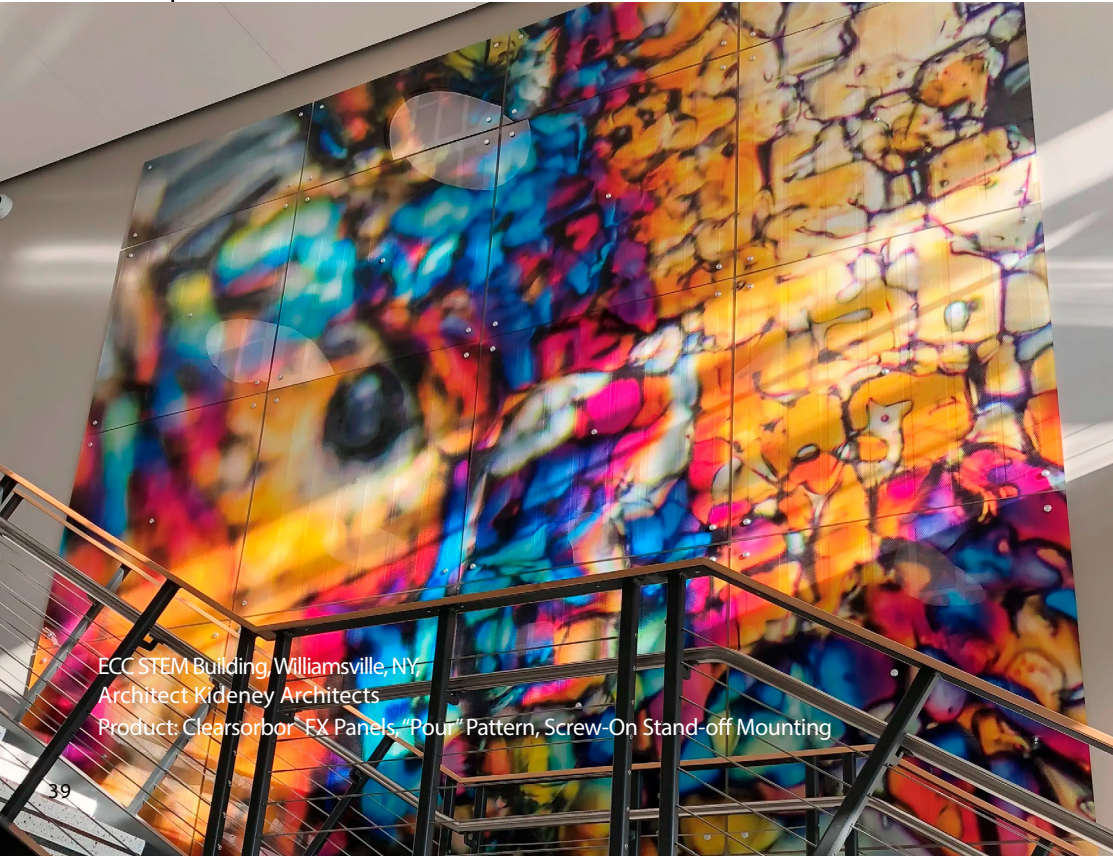
Sound Absorbing + Light Transmitting Panels

SIZING
Maximum Panel Dimensions are recommended based upon panel thicknesses:
1/8" thick » 24" width x 48" length
3/16" thick » 24" width x 72" length or 36" width x 48" length
1/4" thickness » 24" width x 96" length or 48" width x 48" length

FIRE RATING
Class C (per ASTM E-84)

FINISH
Clearsorber® Panels are available in matte, high-gloss and textured surfaces and from clear to translucent and opaque finishes. There are various micro-slit patterns to choose from, and additional custom patterns may be available.

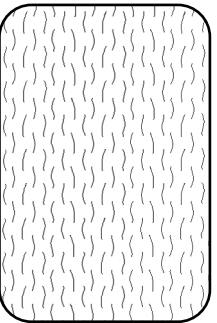
INSTALLATION
Clearsorber® Panels are best mounted using standoffs, tensioned cable systems or integrated directly into an existing mullion. Several different options are available for each mounting type.



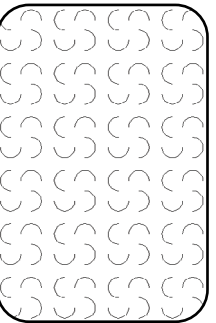
Thistle



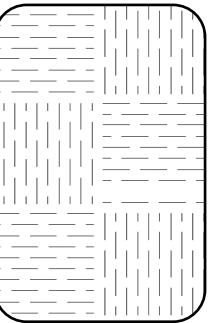
Rain



Flow



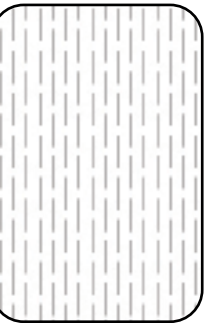
Clover



Parquet



Wave



Pour

All Clearsorber® Panels have an NRC up to 0.60.

CLEAR

Clearsorber® CANOPI

Sound Absorbing + Light Transmitting Film System

SIZING

Maximum Width:

48"

Recommended length varies by application.

Available in single or dual layers.

FIRE RATING

Class A per ASTM E-84

FINISH

Clearsorber® CANOPI has a chemically resistant, UV-stable, glossy finish with approximately 92% light transmission, single layer, or 85% light transmission, dual layer.

INSTALLATION

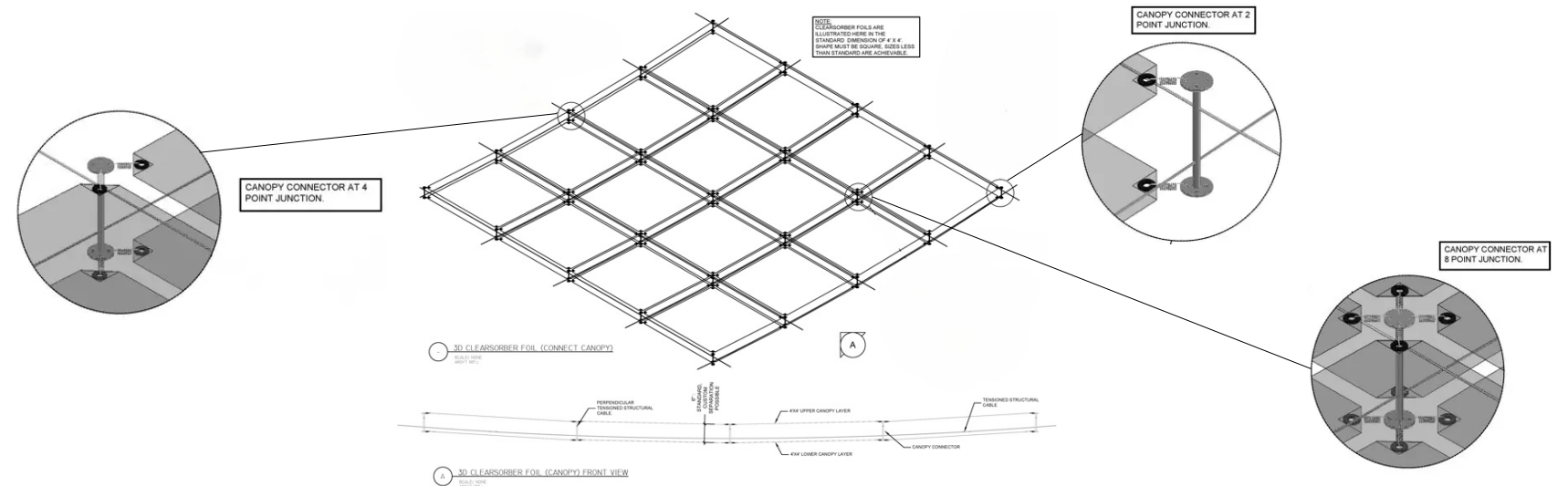
Clearsorber® CANOPI is best mounted under tension for clean lines and maximum transparency. The simplest and most cost-effective tensioned mounting system utilizes stainless steel grommets at each corner of the Foil panel which is captured by a spring and stretched to an attachment point. A hem bar mounting is also available and is recommended when longer spans are required. The Foil can be mounted in a draped fashion across the ceiling (best performance) or incorporated into most roller blind assemblies for operable functionality.



Ceiling Before



Ceiling AFTER Clearsorber® CANOPI Suspension - Single or Dual Layer



CLEAR

Clearsorber® FIXT

Sound Absorbing + Light Transmitting Film System

SIZING
Maximum Width:
48"
Recommended length varies by application.
Available in single or dual layers.

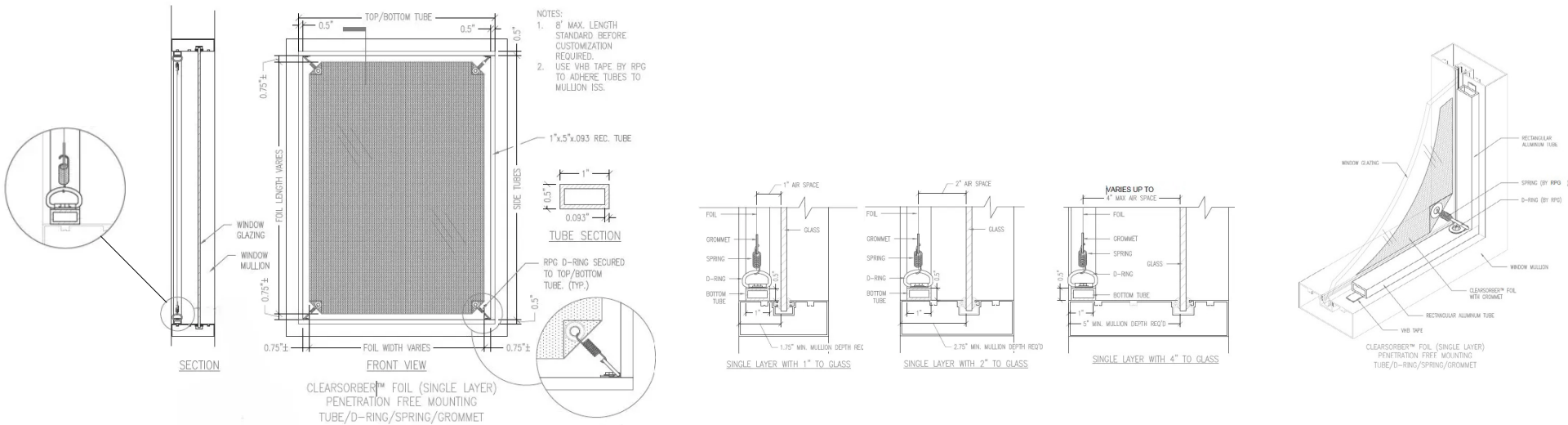
FIRE RATING
Class A per ASTM E-84

FINISH
Clearsorber® FIXT has a chemically resistant, UV-stable, glossy finish with approximately 92% light transmission, single layer, or 85% light transmission, dual layer.

INSTALLATION
Clearsorber® FIXT is best mounted under tension for clean lines and maximum transparency. The simplest and most cost-effective tensioned mounting system utilizes stainless steel grommets at each corner of the Foil panel which is captured by a spring and stretched to an attachment point. A hem bar mounting is also available and is recommended when longer spans are required. The Foil can be mounted in a draped fashion across the ceiling (best performance) or incorporated into most roller blind assemblies for operable functionality.



CLEAR



Clearsorber® SLACK

Sound Absorbing + Light Transmitting Film System

SIZING

Maximum Width:

48"

Recommended length varies by application.

Available in single or dual layers.

FIRE RATING

Class A per ASTM E-84

FINISH

Clearsorber® SLACK has a chemically resistant, UV-stable, glossy finish with approximately 92% light transmission, single layer, or 85% light transmission, dual layer.

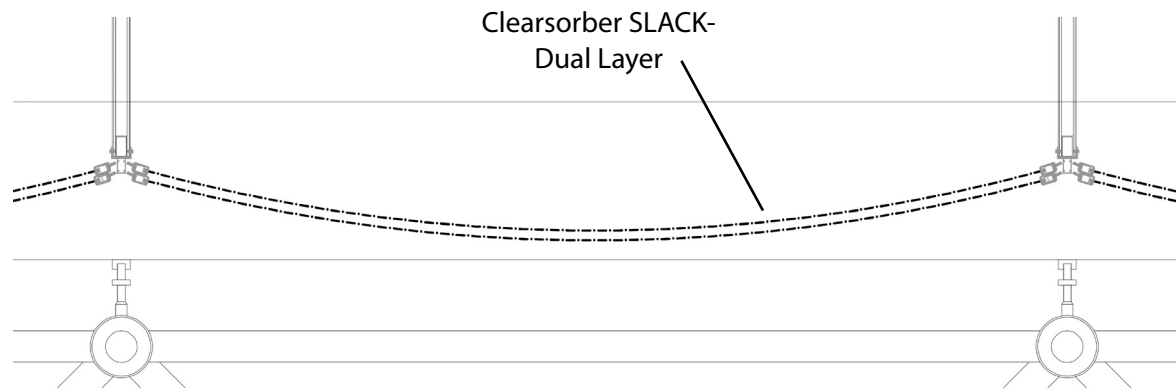
INSTALLATION

Clearsorber® SLACK is best mounted under tension for clean lines and maximum transparency. The simplest and most cost-effective tensioned mounting system utilizes stainless steel grommets at each corner of the Foil panel which is captured by a spring and stretched to an attachment point. A hem bar mounting is also available and is recommended when longer spans are required. The Foil can be mounted in a draped fashion across the ceiling (best performance) or incorporated into most roller blind assemblies for operable functionality.



Ceiling AFTER Clearsorber® SLACK -
Single or Dual Layer

CLEAR



Ceiling BEFORE

Clearsorber® GO

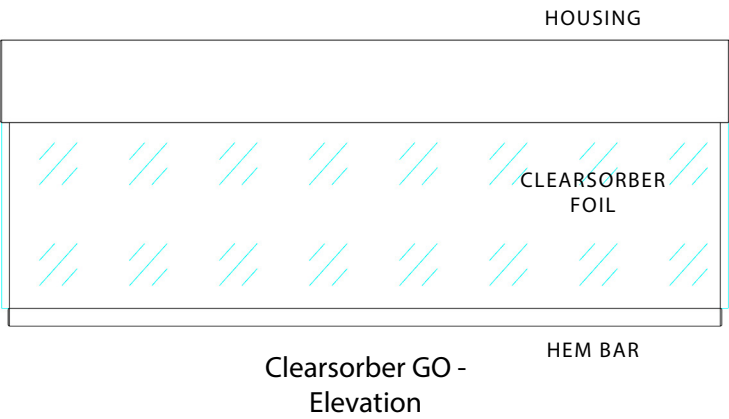
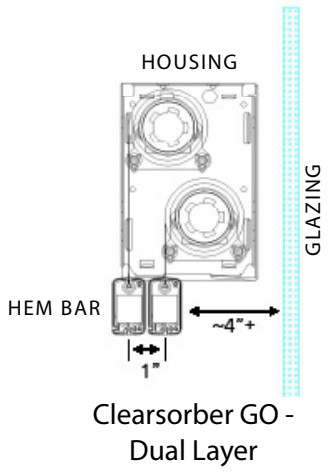
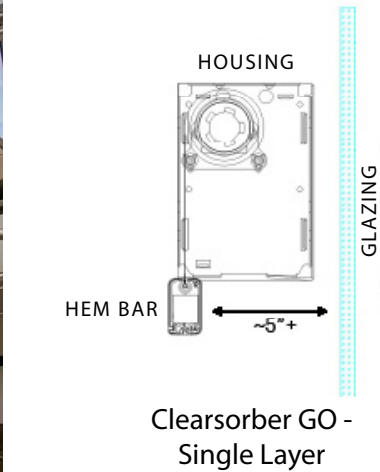
Operable Sound Absorbing + Light Transmitting Panels

SIZING
Maximum Width:
48"
Recommended length varies by application.
Available in single or dual layers.

FIRE RATING
Class A per ASTM E-84

FINISH
Clearsorber® GO has a chemically resistant, UV-stable, glossy finish with approximately 92% light transmission, single layer, or 85% light transmission, dual layer.

INSTALLATION
Clearsorber® Foil GO operable housing is typically head-mounted above the window/opening, either exposed or recessed - refer to manufacturer's instructions. They can be hardwired, rechargeable battery-operated or manually raised and lowered.



Inova, CPH
Fairfax, VA
Acoustician: SM&W
Product: Clearsorber® GO - Dual Layer

ABSORPTION

CLEAR

Diffusors - Polymers

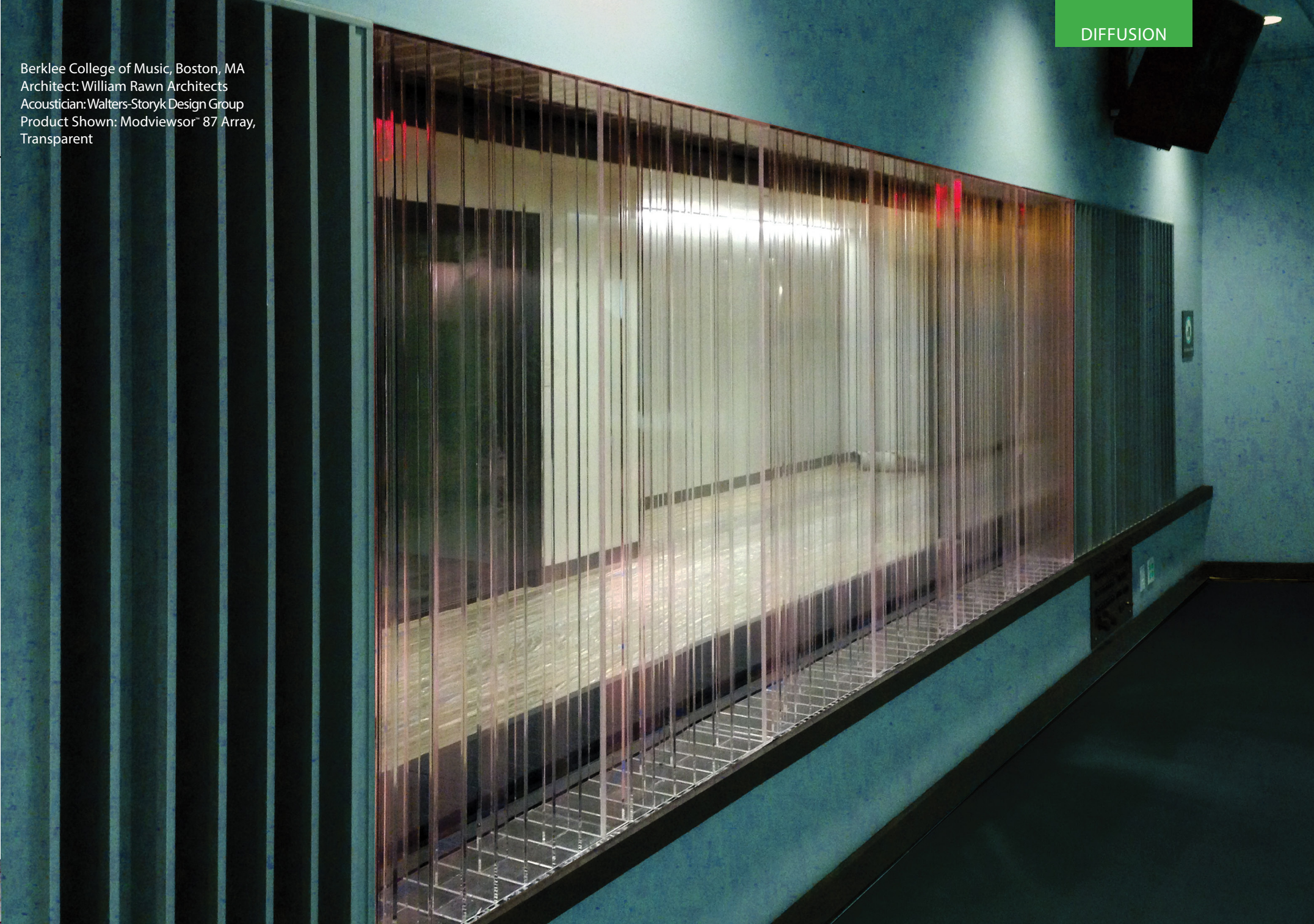
Sound Diffusing + Light Transmitting Panels

SIZING
Omniffusor® T112 & Formedffusor™ T (Nominal) Panel Dimensions:
24" width x 24" height x 4" depth
Skyline® T894 (Nominal) Panel Dimensions:
24" width x 24" height x 4-1/4" depth
Diviewsor® 79 (Nominal) Panel Dimensions:
24" width x 24" height x 9-1/8" depth (Longer panels may be available)
Modviewisor® 87 (Nominal) Panel Dimensions:
24" width x 24" height x 6-7/8" depth (Longer panels may be available)
Omniviewsor® 84 (Nominal) Panel Dimensions:
24" width x 24" height x 4" depth

MATERIAL FIRE RATING
Class A » Omniffusor T112 & Formedffusor T
Class C » Diviewsor 79, Modviewisor 87 & Omniviewsor 84

FINISH
RPG's Plastic Diffusors, whether moulded, assembled or thermo-formed, are available in a wide variety of finishes—please contact RPG to confirm available options.

INSTALLATION
RPG's Plastic Diffusors can be mounted to a wall or ceiling using appropriate blocking and trim. Transparent or translucent assembled units are typically mounted into a wall or ceiling opening much like a window assembly. Tile units are designed to drop into a standard T-bar grid and can be modified to integrate with a lighting assembly.



DIFFUSION



Omniffusor® T112

Formedffusor™ T

Skyline® T894

Diviewsor® 79

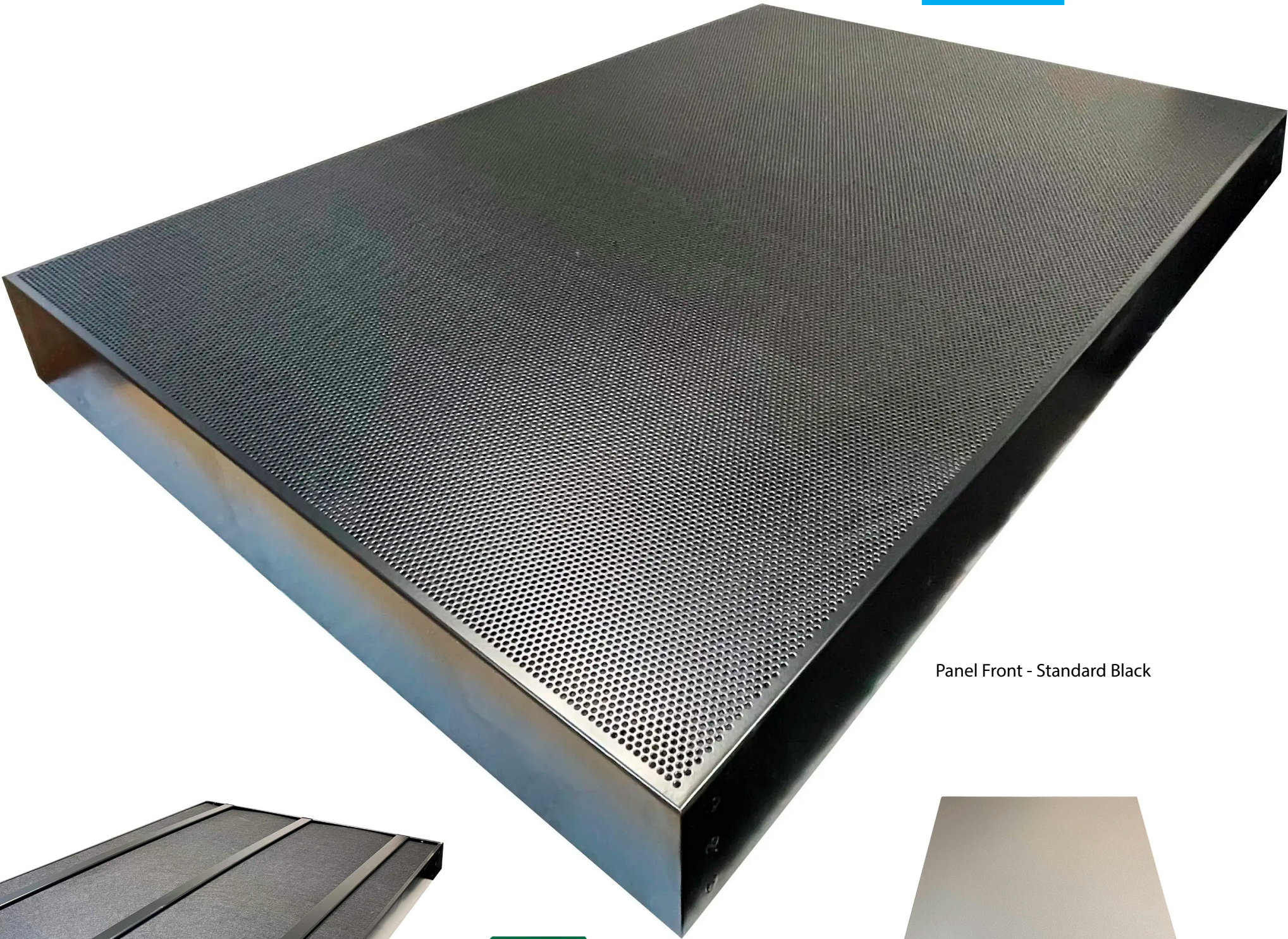
Omniviewsor® 84

POLY

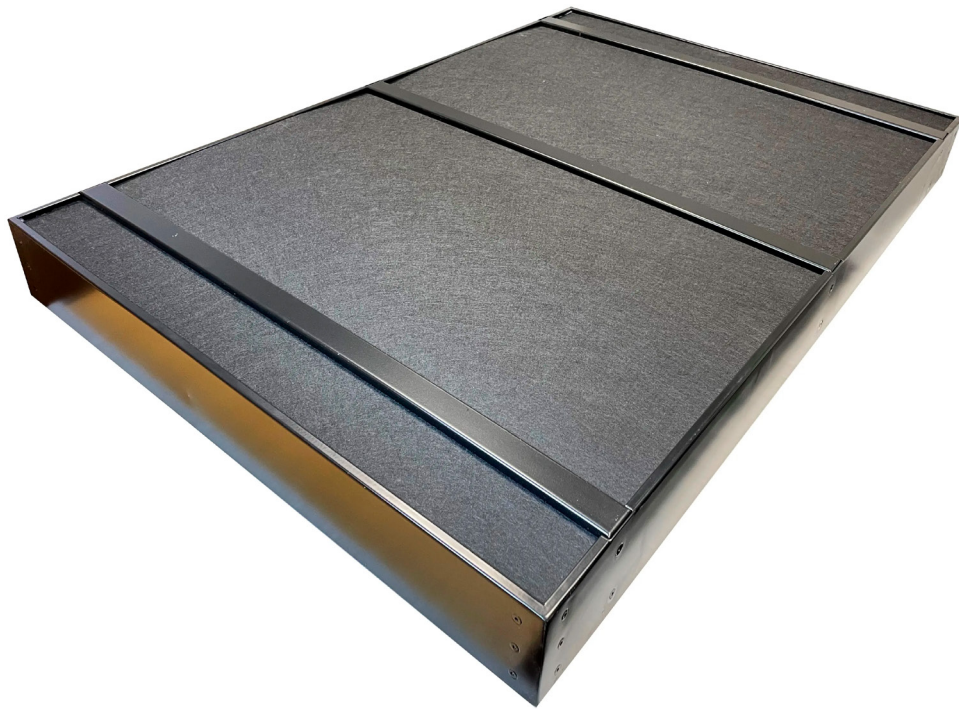
Modex™ Plate 2.0

Targeted and Comprehensive Bass Trapping Elements

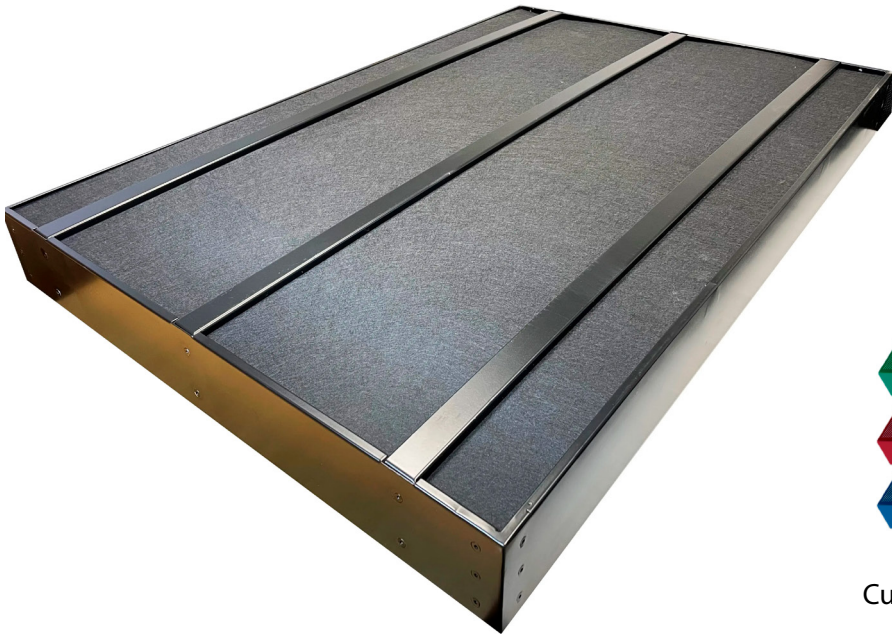
- SIZING**
Standard Module Dimensions:
Modex™ Plate 2.0 » 32-1/2 width x 48-1/2" height x 4-1/4" depth
- FIRE RATING**
All Class A Components
- FINISH**
The Modex™ Plate 2.0 comes in a standard utility-grade low-sheen black finish. Custom paint colors are available. They can also be wrapped with RPG-reviewed industry-standard and custom fabrics for installations where appearance is a priority. Fabrics with acoustical performance data preferred.
- INSTALLATION**
The Modex™ Plate 2.0 is manufactured for either horizontal or vertical installation and can be quickly and easily hung on any wall with the integrated Z-bracket. Panels can be surface-mounted to the ceiling with additional blocking.



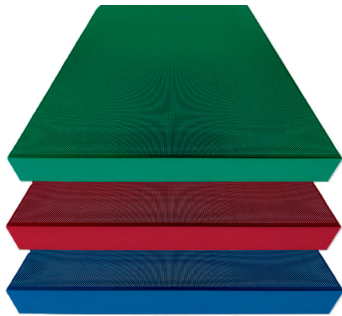
Panel Front - Standard Black



Back - Vertical Mount



Back - Horizontal Mount



Custom Paint Colors Available



Fabric Wrapped

LOW HZ

Modex™ LF 2.0

Targeted and Comprehensive Bass Trapping Elements

SIZING
Standard Module Dimensions:
Modex™ LF 2.0 » 4’ width x 48” height x 5-7/8 depth
(Custom panel widths and lengths are available)

FIRE RATING
All Class A Components

FINISH
The Modex™ LF 2.0 Panel has a 3/4” removable face , which allows for easy repair or replacement should the face get damaged or to change to a different fabric. The sides of the unit are painted matte black standard, however they can be wrapped with fabric to match the face. The faces can be wrapped with most industry standard acoustical fabrics as well as RPG reviewed custom fabrics. Fabrics with acoustical performance data are preferred.

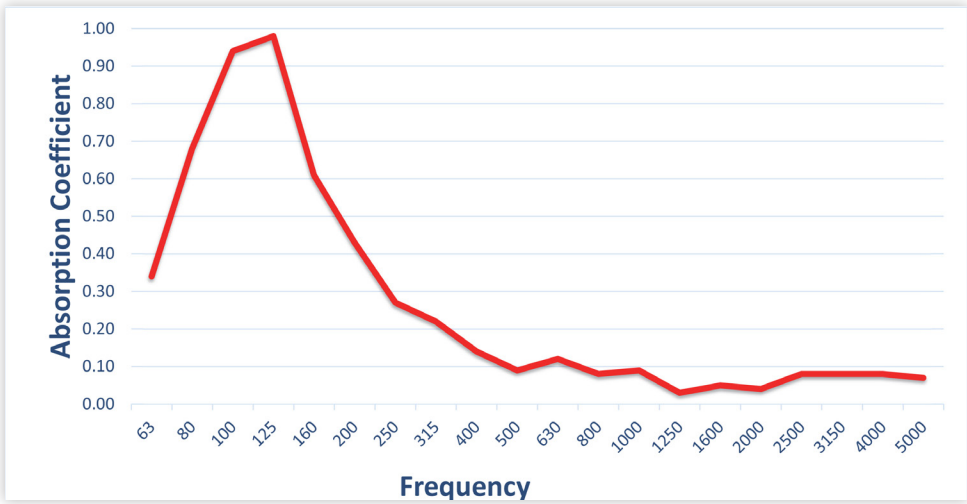
INSTALLATION
The Modex™ LF 2.0 Panel can be quickly and easily hung on any wall or ceiling surface using the RPG-provided wall cleats.

Additional test data is available – please see the Supplementary Acoustical Data Charts online or contact your local RPG Sales Representative.

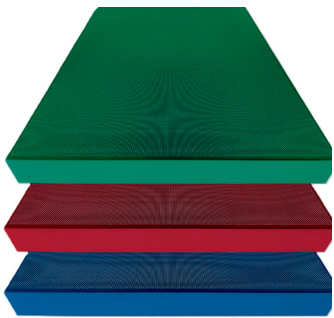
Frequency (Hz)	W/1” 6lb/ft³ Fiberglass Insul.
63	0.34
80	0.68
100	0.94
125	0.98
160	0.61
200	0.43
250	0.27
315	0.22
400	0.14
500	0.09
630	0.12
800	0.08
1000	0.09
1250	0.03
1600	0.05
2000	0.04
2500	0.08
3150	0.08
4000	0.08
5000	0.07
NRC	0.15
SAA	0.14



Modex LF 2.0 Full Depth Panel



The sound absorption chart above represents the octave band performance of the Modex™ LF in a reverberation chamber per ISO 354.



Custom Fabrics Available



Fabric Wrapped

LOW HZ

Overture® VR

[Stage Performance]

Rollable | Nestable | Sound Diffusing Tower
for Stage and Audience Support

SIZING
Standard Tower Dimensions (Nominal):
4' width x 16' height x 5' depth
Diffusive Module Dimensions:
2' width x 2' height and 4' width x 4' height
4" depth standard (other depths available depending
on module type)
(see thumbnail images for standard module options,
more options available)

DIFFUSIVE MODULES
CORE FIRE RATING
Class A (per ASTM E-84)

FINISH
RPG's Overture® VR frames are typically painted black, however they
can be painted in any color. The wooden diffusive modules applied to
the face of the frames are available in various finishes, including nat-
ural and engineered wood veneers and laminates. RPG offers clear
lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION
Overture® VR units arrive ready to roll onto the stage in their
collapsed position. The units are raised into their performance
position with a hand crank. Two people should work together to
move the units, one person can crank the unit into performance
position. Prior to moving or raising, the operation guide should be
studied and understood by all participants.



Storage Configuration

Transitioning from
Storage to Stage
Configuration

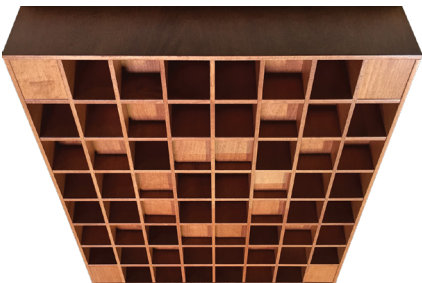
Stage Configuration



Waveform® Gaussian W



QRD® 734-F



Omniffusor® W84



Optistep™ W

Module options for sound diffusion surface:

Rainey-McCullers School of the Arts, Columbus, GA
Architect: Hecht Burdeshaw Architects, Inc.
Acoustician: Siebein Associates, Inc.
Products: Custom Waveform® Monorail W, Both Solid and
with Perfecto® Perforations





ACOUSTICAL SYSTEMS - LLC

RPG Acoustical Systems LLC
99 South Street, Passaic, NJ 07055

P: (973) 916-1166 F: (973) 836-5249
info@rpgacoustic.com

www.rpgacoustic.com