PROSOCOUSTIC

ACOUSTIC SOLUTION RECOMMENDATION

Project Proposal

Prepared for: Sample

Prepared by: Sample

January 1, 2021

Proposal number: Sample

PROJECT SUMMARY: SAMPLE

OBJECTIVE:

The objective of this proposal is to reduce first and second order reflections from the wall surfaces by utilizing ProSoCoustic WAVEPro Series acoustical panels which provide both absorption and diffusion in one product. ProSoCoustic 2" thick WAVEPro panels have been chosen for the training room as the panels will control a wider range of frequencies. ProSoCoustic BAT Series Baffles complement the WAVEPro 1" wall mounted panels to control and attenuate sound sources that buildup at the ceiling level and reflect back into the interior space. ProSoCoustic's BAT Series are best in class for acoustic absorption, allowing for more acoustical control with less product.

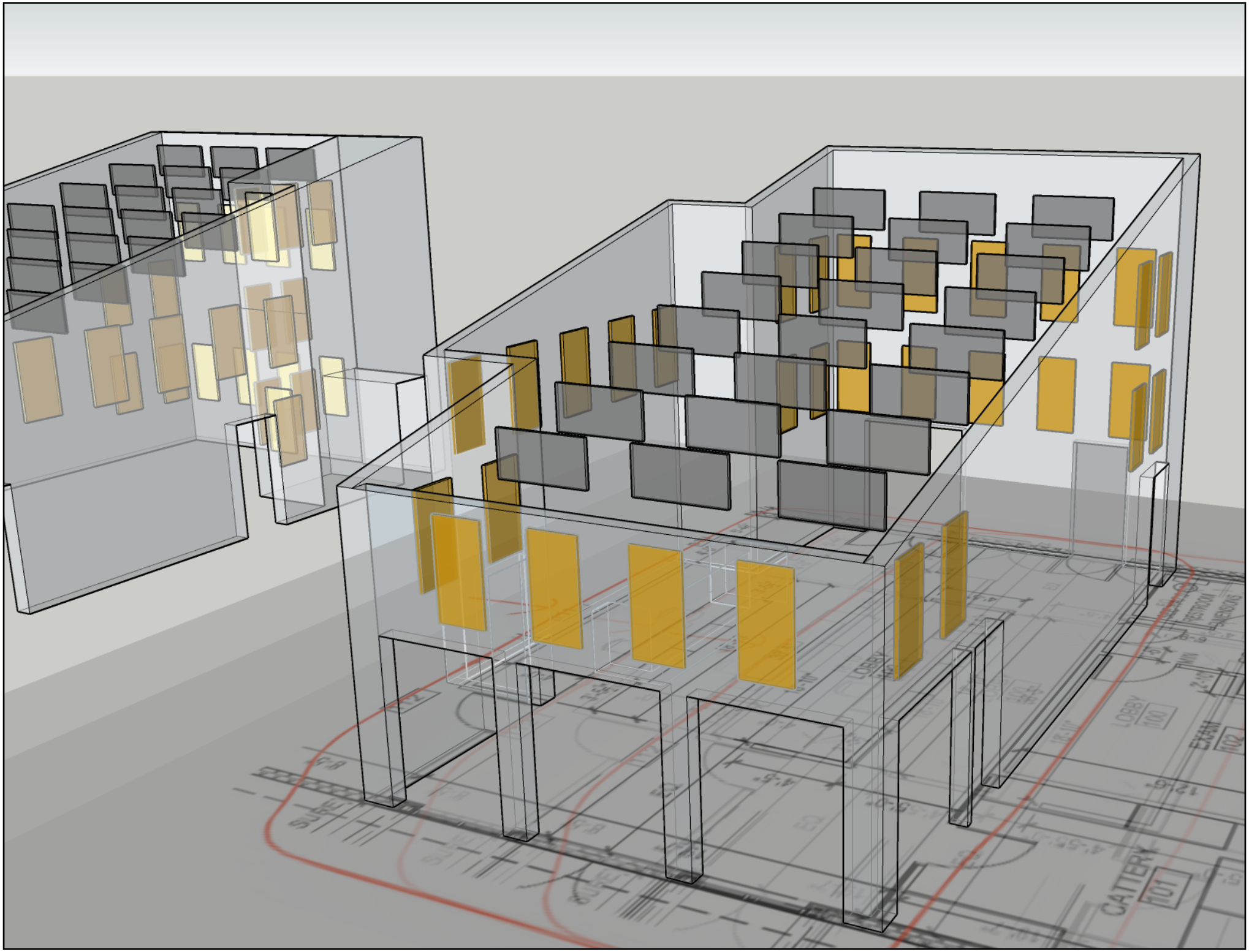
Target NRC reduction coefficient (RT60) calculations for ceiling height (less than 30') for Activity Centers, Rec Rooms, etc: 0.15 - 0.30 NRC at 500Hz center frequency.

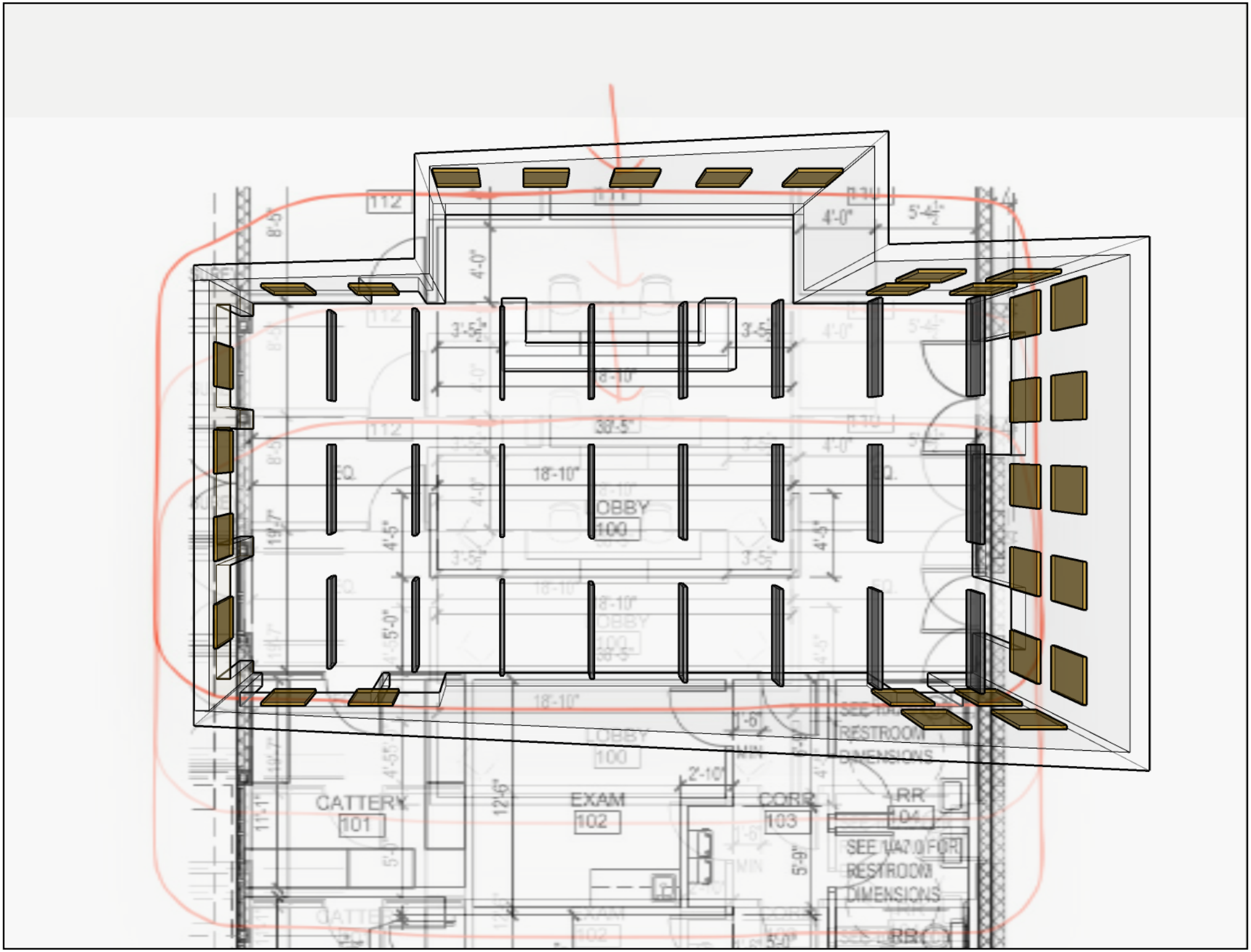
Calculated NRC Reduction: 0.25

*Design meets minimal accepted acoustical treatment

PARTS LIST - SAMPLE

QTY	Product	Description ** -xxxx denotes fabric color choice **
43	WAVEPRO-241-xxxx	24x48x1 inch Wave Pro panel - Single, w/ 1 Set of 18in Z-clips per panel.
40	WAVEPRO-242-xxxx	24x48x2 inch Wave Pro panel - Single w/ 1 Set of 18in Z-clips per panel.
61	BAT-422-2-xxxx	24in x 48in x 2in Baffle w/ 2 hanging grommets


LOBBY
CATERY


LOBBY
100
CATTERY
101
EXAM
102
CORR
103
RR
104
SEE WA7.0 FOR RESTROOM DIMENSIONS
18'-10"
38'-5"
4'-0"
3'-5½"
4'-5"
5'-0"
12'-6"
2'-10"

Diamond Knit Fabric Options

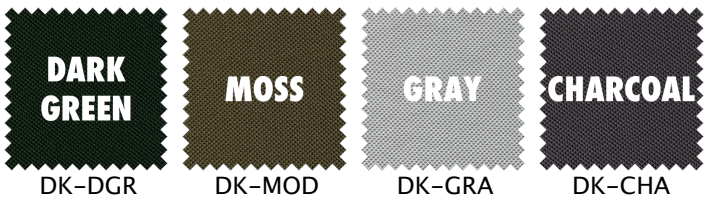
For Wave Pro Series or Standard Series

DK-BLK | DK-STO | DK-WHT | DK-KHA | DK-VGO

DK-GOL | DK-ORA | DK-TOR | DK-BRO | DK-PIN

DK-RED | DK-CAR | DK-MAR | DK-CBL | DK-ROY

DK-NAV | DK-DNA | DK-PUR | DK-DPU | DK-KEL



DK-DGR | DK-MOD | DK-GRA | DK-CHA

Diamond Knit fabric is 100% polyester with a moisture-wicking finish that keeps the fabric drier without affecting acoustical transparency.
This is the standard fabric for Wave Pro and Standard Series Panels.

Spacer Mesh Fabric Options

For BAT Series Baffles

SPACER-BLK | SPACER-WHT | SPACER-STO | SPACER-TAU | SPACER-MCK

SPACER-COY | SPACER-KEL | SPACER-SPR | SPACER-FOL | SPACER-OLI

SPACER-BRO | SPACER-LBL | SPACER-SLA | SPACER-ROY | SPACER-NAV

SPACER-DNA | SPACER-GRA | SPACER-CHA | SPACER-PIN | SPACER-RED

SPACER-CAR | SPACER-CHR | SPACER-FOR

Spacer Mesh is 100% polyester and is only available for BAT Series Baffles.

* Each color listed above is a representation of a color standard and the final product is subject to slight variation.

ProSoCoustic has Fabric Swatches available upon request.

WHY CHOOSE PROSOCOUSTIC?

ROCKWOOL Acoustic Material

Our acoustical absorption comes from the use of stone wool, which is non-toxic, resistant to moisture, non-combustible, and composed of 40% recycled material. Its non-directional fiber orientation gives our products superior sound absorption.

Class A Fire Rating

Made in the USA

ProSoCoustic is 100% designed, assembled, and sourced in the United States. Our manufacturing is done locally, and all raw material sourcing is done within a 200 mile radius. We meet the most stringent LEEDs qualifications for locally sourced materials.

WAVE PRO SERIES

Frame	Diffusion pattern is CNC machine-cut from UltraStock® FR MDF panels in collaboration with Georgia-Pacific.
Acoustic Material	ROCKWOOL ROCKBOARD® 40: random fiber orientation makes it more effective at absorbing sound than alternative materials.
Fabric	100% polyester acoustic grade fabric. Available in standard Diamond Knit and Diamond Pro.
Fabric Attachment	Screen Spline insert holds fabric in place and provides proper fabric tensioning. **Easy to remove for quick fabric replacement.**
Mounting	Panels include machine screw inserts complemented by 18" Z-Clips to provide **simple, sturdy, non-permanent installation**.

New Pro Features:

- Additional sizes (**up to 8'x4'**) and custom shapes can be created based on your needs.
- Diffusion pattern updated to better fit different panel sizes.
- Additional machine screw inserts are included to make horizontal installation easier.

Acoustic Performance

	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	Average NRC
1" Stone Wool	0.07	0.32	0.77	1.04	1.05	1.05	0.8
2" Stone Wool	0.26	0.68	1.12	1.1	1.03	1.04	1
1" Wave Pro*	0.12	0.42	0.90	1.09	1.13	1.05	**0.90**
2" Wave Pro*	0.36	0.84	1.22	1.17	1.14	1.16	**1.15**

*Denotes acoustic material thickness; actual panel dimensions greater than acoustic material.

**Acoustic testing for Wave Pro provided by Riverbank Acoustical Laboratories.

Fire and Burn Information		
ROCKBOARD® 40 (Absorption) - ASTM E84 Class A; UL 273 Class 1		
ASTM E 136	Behavior of Materials at 750° C (1382°F)	Non-Combustible
ASTM E84 (UL 273)	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN4 S114	Test for Non-Combustibility	Non-Combustible
CAN/ULC S102	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN/ULC S129	Smolder Resistance	0.09%
UltraStock® FR Frame (Diffusion) - ASTM E84 Class A; UL 273 Class 1		
ASTM E84 (UL 273)	Surface Burning Characteristics	Flame Spread:20 Smoke Developed: 3

Physical Properties		
ROCKBOARD® 40 (Absorption)		
Thermal Resistance ASTM C518 (C177)	R-value/inch @ 75°F RSI value/25.4mm @ 24°C	4.2 hr.ft².F/BTU 0.74 m² K/W
Moisture Resistance ASTM C1104	Moisture Sorption	<0.08%
Fungi Resistance ASTM C1338	Determination of Fungi Resistance	Passed
UltraStock® FR Frame (Diffusion)		
☐ Eco-Certified	☐ FSC® Certified	☐ MR10 Moisture Resistance
☐ TSCA Title VI Compliant	☐ Formaldehyde Emissions CARB II Compliant	☐ Produced with 100% NAF Resin

STANDARD SERIES

Acoustic Material	ROCKWOOL ROCKBOARD® 40: random fiber orientation is up to 60% more effective at absorbing sound than foam and up to 10% more effective than fiberglass.
Frame	Backing and sides made with rugged lauan plywood.
Fabric	100% polyester acoustic grade fabric. Available in standard Diamond Knit, Diamond Pro, and Suede.
Mounting	18" Z-Clips and wood screws are included to provide **simple, sturdy, non-permanent installation**.

Edge Options

*1/4 Round is standard unless specified

Acoustic Performance

	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	Average NRC
1" Panel*	0.07	0.32	0.77	1.04	1.05	1.05	0.8
2" Panel*	0.26	0.68	1.12	1.1	1.03	1.04	1

*Denotes acoustic material thickness; actual panel dimensions greater than acoustic material.

**Acoustic testing for ProSoCoustic provided by Riverbank Acoustical Laboratories.

Fire and Burn Information		
ROCKBOARD® 40 (Absorption) - ASTM E84 Class A; UL 273 Class 1		
ASTM E 136	Behavior of Materials at 750° C (1382°F)	Non-Combustible
ASTM E84 (UL 273)	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN4 S114	Test for Non-Combustibility	Non-Combustible
CAN/ULC S102	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN/ULC S129	Smolder Resistance	0.09%

Physical Properties		
ROCKBOARD® 40 (Absorption)		
Thermal Resistance ASTM C518 (C177)	R-value/inch @ 75°F RSI value/25.4mm @ 24°C	4.2 hr.ft².F/BTU 0.74 m² K/W
Moisture Resistance ASTM C1104	Moisture Sorption	<0.08%
Fungi Resistance ASTM C1338	Determination of Fungi Resistance	Passed

BAT SERIES CEILING BAFFLES

Acoustic Material	ROCKWOOL ROCKBOARD® 40: random fiber orientation is up to 60% more effective at absorbing sound than foam and up to 10% more effective than fiberglass.
Frame	Upper and lower rib bracing on the 48 inch sides prevent baffles from folding or waving.
Fabric	100% polyester acoustic grade fabric. Spacer Mesh material offers superior acoustic transparency compared to typical vinyl ceiling baffles.
Attachment	Sewn edges; 2 or 4 grommet holes available for mounting.

Grommet Options

*On 2 grommet baffles, horizontal is standard unless specified

Acoustic Performance

	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	Average NRC
2″ BAT Baffle*	0.30	0.66	1.52	1.95	1.98	1.89	1.55
2″ Fiberglass	0.45	0.83	1.07	1	1.01	1	1

*Denotes acoustic material thickness; actual baffle dimensions greater than acoustic material.

**Acoustic testing for ProSoCoustic provided by Riverbank Acoustical Laboratories.

Fire and Burn Information		
ROCKBOARD® 40 (Absorption) - ASTM E84 Class A; UL 273 Class 1		
ASTM E 136	Behavior of Materials at 750° C (1382°F)	Non-Combustible
ASTM E84 (UL 273)	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN4 S114	Test for Non-Combustibility	Non-Combustible
CAN/ULC S102	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN/ULC S129	Smolder Resistance	0.09%