SOUND SEAL®

Noise Stop Consulting
Say no to noise
3830 Valley Centre Dr. Suite 705-451 San Diego, CA 92130

DATA SHEET

NOISE BLOCKER 2 + 2

A. Product Description

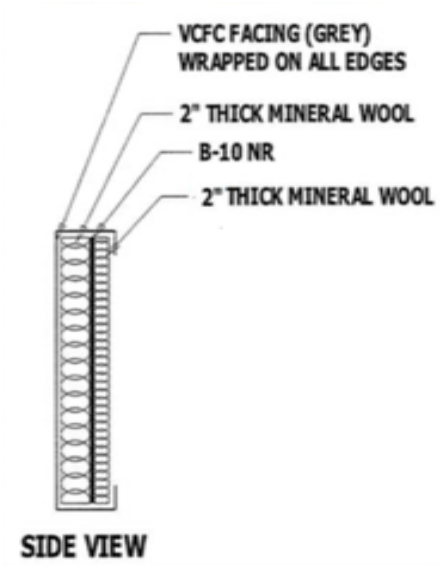
Multilayer acoustic panel covered with reinforced polyester fabric, composed of three acoustic elements:

1) **Decoupler** - This element decouples the panel from the surface where it is attached. Consists of 2" thick mineral wool board made of inorganic fibers derived from basalt or volcanic rock. It is fire-resistant and suitable for use in high-temperature environments.

2) **High Density Noise Barrier** - Mass loaded vinyl (1 psf), Sound Seal model B10-NR. Thickness 2" Sound Transmission Coefficient: 26 dB.

3) **Absorption** - Consists of 2" thick mineral wool board made of inorganic fibers derived from basalt or volcanic rock. Noise Reduction Coefficient (NRC) = 1.10. In addition to noise reduction, mineral wool is fire-resistant and suitable for use in high-temperature environments.

B. Product Photo and Multilayer Diagram



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C. Component Specifications

B 10 – NR Mass Loaded Vinyl

Noise Barrier 10NR is a flexible non-reinforced mass loaded vinyl barrier that is designed to reduce the transmission of noise through walls, ceilings, and floors. Also used as a noise --barrier component in acoustical composites.

-Rolls are available 54” wide up to 60’ long
-Limp, flexible, formable, versatile
-High tear and tensile strength

APPLICATIONS

Typically used as a noise barrier in gypsum wallboard and stud construction to substantially improve transmission loss between rooms. Also, utilized as a barrier septum material in acoustical curtain construction to form multilayer composites.

Property	**Specification**
Description	1 lb-psf non reinforced loaded vinyl barrier
Nominal thickness	0.10 inches
Standard width	54”
Roll length	30’ or 60’
Weight	1.0 lb psf
Tensile (PSI)	220
Elongation	140%
Service Temperature	-20°F to +180°F

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B 10 – NR

ACOUSTICAL PERFORMANCE

Frequency (Hz)	Sound Transmission Loss (dB)
125	13
250	17
500	22
1k	26
2k	32
4k	37

STC 26dB
Tested in accordance to ASTM E90

MINERAL WOOL 2” THICK DENSITY 128 kg/m3

DESCRIPTION

Mineral wool board made of inorganic fibers derived from basalt, a volcanic rock, with a thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance in high temperature thermal control and fire resistance applications.

ADVANTAGES

Acoustic and Thermal. Good acoustic absorption and thermal conductivity values help maximize control of unwanted noise and heat loss, contributing to reduced operating costs and greater energy savings.

Lightweight, Low Dust.

Low Smoke & Flame Spread. When tested in accordance with ASTM E84, UL 723, CAN/ULC-S102-M, these unfaced insulation boards have a flame spread rating of 5 and a smoke developed rating of 0. The faced insulation has a flame spread rating of 25 and a smoke developed rating of 5.

Noncombustible. MinWool-1200 Industrial Board is rated as noncombustible in accordance with ASTM E136 and CAN4-S114-M.

Mold Resistant. Mineral Wool does not support growth of fungi.

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APPLICATIONS

Provides excellent acoustical and thermal insulation performance for mechanical, power and process systems operating from sub-ambient to 1200˚F(650˚C). Very low in-service shrinkage helps prevent gaps from forming at joints, preventing costly thermal leaks. The insulation is designed to be field- jacketed. It may be installed directly on hot surfaces; system shut-down and staged heat-up are not required.

SPECIFICATION COMPLIANCE

ASTM C356	In-Service Shrinkage: 0% at 1050°F (566°C); <2% at 1200°F (650°C)
ASTM C447	Maximum Service Temperature: 1200°F (650°C)
ASTM C665	Corrosivity to Steel: Passes
ASTM C795/C871/C692	Stainless Steel: Passes
ASTM C1104	Water Vapor Absorption: <1% by Weight, <0.02% by Volume @ 120°F (50°C), 95% RH
ASTM C1335	Shot Content: <25%
ASTM C1338	Fungi Resistant: Passes
ASTM E84	Flame Spread/Smoke Developed: Unfaced 5/0 or less; Faced 25/5 or less
ASTM E136	Noncombustible: Passes
UL 723, CAN/ULC-S102-M	Flame Spread/Smoke Developed: Unfaced 5/0 or less; Faced 25/5 or less
NOMINAL DENSITY	128 Kg/m3 or 8 lb/ft3

D. NOISE BLOCKER 2 + 2 ACOUSTICAL PERFORMANCE

Tested in accordance to ASTM E90 and ASTM C423

Frecuency (Hz)	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Sound transmission loss (Db)	21	27	38	48	58	67	66
Sound Absorption Coefficients	0.89	1.20	1.16	1.09	1.01	1.03	93

STC 40 dB **NRC 1.10**