

# Specialty Products & Insulation

## Absorption Plus® High NRC Panels

### Description

Absorption Plus High NRC Panels are made of environmentally sustainable mineral wool insulation produced from basalt rock and slag. The resulting non-combustible insulation provides exceptional acoustic and thermal insulation properties. The lightweight insulation board is water repellent yet vapor permeable. Also with a melt point of approximately 2150°F, panels offer enhanced fire resistance.

The durable black mat facing provides an interior finish product that is suitable for wall and ceiling and exposed deck applications where structural elements are exposed.

Panels are easily installed over precast and poured concrete, steel deck, drywall and other substrates using common tools and attachments.

### Uses

Absorption Plus High NRC Panels are installed to absorb and dampen sound transfer to adjacent space. The stable R Value can also save energy and improve occupant comfort. Typical applications include: restaurants, nightclubs, theaters, sound studios, performance space, retail and manufacturing environments. High NRC Panels can also be used in conjunction with other Absorption Plus acoustic products to further enhance space acoustics.

### Advantages

- Sound Absorption - Excellent acoustic performance
- Thermal Effectiveness - Stable R Value, 4.1 per inch
- Fire Resistance – Faced panels achieved a Class A fire exposure rating
- LEED® - Can earn LEED points across four key categories toward sustainable development.
- Finished Appearance - Attractive, smooth appearance
- Ease of Application - Prefinished panels install quick and easy.
- Availability - Typically 2-4 weeks ARO

### Standard Panel Dimensions

2, 2.5, 3, 3.5, 4, 5, 6, 7 and 8" thick, 24" x 48" panel standard  
(Custom cut to size panels available)

Learn more at [www.spi-co.com](http://www.spi-co.com)



Absorption Plus High NRC Panels provide superior sound absorption, thermal insulation and fire resistance.

### Performance Compliance Data

Absorption Plus High NRC Panels are produced with Rockwool® stone wool insulation and a high quality black mat facer under a quality controlled lamination process that is under accredited laboratory follow-up service.

**Base Board:** Semi-rigid stone wool insulation

**Maximum Service Temperature** (per ASTM C612) 1200°F

**Fire Performance:**

**ASTM E 136**, Behavior of Materials at 750°C (1382°F) Non-Combustible

**CAN4 S114**, Test for Non-Combustibility Non-Combustible

**ASTM E 84 (UL723)** Surface Burning Characteristics:

Flame spread 0, Smoke Development 0

**CAN/ULC S102** Surface Burning Characteristics:

Flame Spread 0, Smoke Development 0

**Thermal Resistance: ASTM C-518 (C177)**

R-value/inch @ 75°F, 4.1 hr.ft².F/Btu

**Moisture Resistance: ASTM C 1104**, Moisture Sorption, 0.03%

**Fungi Resistance: ASTM C1338**, Passed

**Sound Absorption: per ASTM C423, Coefficients at Frequencies**

Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
2" *	0.26	0.76	1.15	1.21	1.13	1.09	1.05
4"	1.07	1.01	1.07	1.06	1.07	1.06	1.05

\* As tested at an IAS accredited lab with black mat facing applied

**Black Mat Facing Material:**

Primary Composition: Bonded fiberglass/polyester

Maximum continuous use temperature 300° F

Halogen free flame retardants

EPA registered biocide

Mullen Burst 29 PSI

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