

# KINETICS®

## Fiberglass Absorbers Model PA

### Description

Model PA Fiberglass absorbers are molded 4' x 8' (1.2 x 2.4 m) fiberglass boards which are designed to provide sound absorption over a broad frequency range. KINETICS™ PA absorbers can be glued, attached with nails or “stick pins”, or supported by a framework and are available unfaced or faced in 1" (25 mm) thickness.

The unfaced absorber, PA 410 GO, exhibits very good absorption at mid and high frequencies, but may exhibit dusting and some deterioration if foreign objects come into contact with the surface.

The faced absorber, PA 410 GB, exhibits very good absorption at low and mid frequencies. The protective facing, however, allows use in a wide variety of applications with minimum risk of damage or moisture absorption.

Facing on PA 410 GB is rated Class 1, and can be used in applications up to 450°F (232°C).



### Application

Model PA Fiberglass absorbers are recommended for direct attachment to the interior of noisy equipment enclosures. They are effective in controlling reflective airborne noise in a high temperature environment.

For applications where airborne dust, dirt, or oil are present, it is suggested that the model PA 410 GB be used in order to protect the fiberglass core from contamination.

#### Typical applications include:

- Interior lining of engine compartments
- Sheet metal equipment guards
- Light gauge aluminum or metal ducts
- Pump or other electric-motor driven equipment enclosures
- Portable engine-generator cabinets
- Air compressor enclosures
- In-Plant personnel booths

## Specifications

Unfaced fiberglass noise control absorbers shall be 3 pcf (48 kg/m<sup>3</sup>) density molded board with a nominal thickness of 1" (25 mm). The fiberglass shall be rated at NRC 0.70 for 1" (25 mm) thickness. Faced fiberglass absorber shall be 3 pcf (48 kg/m<sup>3</sup>) density molded board with a nominal thickness of 1" (25 mm), faced with a black vinyl-coated fiberglass cloth. The facing shall be factory bonded to the fiberglass absorber on one side.

## Physical Properties

| Product  | PA 410 GO             | PA 410 GB                    |
|--|-----------------------|------------------------------|
| Density #/ft <sup>3</sup> (kg/m <sup>3</sup> ) | 3 (48)                | 3 (48)                       |
| Product Thickness                              | 1" (25mm)             | 1" (25mm)                    |
| Board Size                                     | 4' x 8' (1.2 x 2.4 m) | 4' x 8' (1.2 x 2.4 m)        |
| Facing Material                                | None                  | Vinyl Impregnated Fiberglass |
| Facing Color                                   | None                  | Black                        |
| High Temperature Limit                         | 350°F                 | 450°F                        |
| Facing Flame Resistance                        | (177°C)               | (232°C)                      |
| Flame out, See, max                            | -                     | 2.0                          |
| Afterglow, See, max                            | -                     | 2.0                          |
| Char length inches, max                        | -                     | 2.0                          |

## Sound Absorption Coefficients

(Frequency, Hz)

| Product   | 125  | 250  | 500  | 1000 | 2000 | 4000 | NRC         |
|-----------|------|------|------|------|------|------|-------------|
| PA 410 GO | 0.03 | 0.22 | 0.69 | 0.91 | 0.96 | 0.99 | <b>0.70</b> |
| PA 410 GB | 0.22 | 0.56 | 0.70 | 0.71 | 0.51 | 0.28 | <b>0.62</b> |

## Fire ratings

### Maximum Temperature

PA 410 GO = 350°F (177°C)

PA 410 GB = 450°F (232°C)

### Component Breakdown

- Fiberglass Core  
K factor per ASTM C-177 = 230  
Surface Burning  
Characteristics per ASTM E-84  
Flame Spread = 15  
Smoke Development = 0  
Fuel Contribution = 15
- Black vinyl impregnated fiberglass facing on PA 410 GB, rated UL-84 Class 1  
Flame Resistance  
Flame Out = 2.0 Sec. max.  
After Glow = 2.0 Sec max.  
Char Length = 2.0 In. max.

Noise control materials shall be Model PA, as manufactured by Kinetics Noise Control, Inc.



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