

## ALPHASORB<sup>®</sup> FLAT FOAM TECHNICAL DATA SHEET



### DESCRIPTION

Our AlphaSorb<sup>®</sup> Flat Foam provides acoustic absorption for applications seeking a flat, smooth appearance with no pattern. AlphaSorb<sup>®</sup> Flat Foam is available in a range of sizes and thicknesses. Consisting of a lightweight, acoustical foam core, these panels are for use in just about any direct mount wall or ceiling applications. Flat acoustic foam is a great choice for projects that require form fitting absorption. Its melamine acoustic foam core trims easily using a smooth blade utility knife and installs with a foam construction adhesive.

AlphaSorb<sup>®</sup> Flat Foam delivers a versatile foam panel for use in open offices, recording studios, lobbies, as well as in tougher industrial applications. The fiber-free core makes this an excellent acoustical substrate to absorb sound in a multitude of systems, including fabric track stretch wall systems. There is no itchy fiberglass to cut or clean up. Similarly, use AlphaSorb<sup>®</sup> Flat Foam to line noisy enclosures like HVAC ducting, speaker boxes or machine housings. Additionally, you can create interesting dimensional patterns by utilizing the various thicknesses of this foam.

### TECHNICAL CHARACTERISTICS

**SIZE:** 2' x 2', 2' x 4', 4' x 4', 4' x 8'

**THICKNESS:** 1/2", 1", 1 1/2", 2", 3", 4"

**MATERIAL:** Open-cell melamine based foam

**DENSITY:** 0.56 +/- 0.09 lb/ft<sup>3</sup> (Grey)  
0.47 +/- 0.13 lb/ft<sup>3</sup> (White)

**COLOR:** Natural Grey, Natural White

**FIRE RATING:** Class 1 or A per ASTM E 84

### SOUND ABSORBING PERFORMANCE (TYPE A MOUNT)

| Color         | Thickness | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | NRC  |
|---------------|-----------|--------|--------|--------|---------|---------|---------|------|
| Natural White | 1"        | 0.11   | 0.16   | 0.53   | 0.85    | 0.99    | 1.04    | 0.65 |
|               | 1 1/2"    | 0.17   | 0.28   | 0.84   | 0.99    | 1.03    | 1.04    | 0.80 |
|               | 2"        | 0.23   | 0.48   | 1.08   | 1.19    | 1.16    | 1.11    | 1.00 |
|               | 3"        | 0.45   | 0.87   | 1.26   | 1.07    | 1.06    | 1.10    | 1.05 |
|               | 4"        | 0.58   | 1.19   | 1.45   | 1.38    | 1.29    | 1.24    | 1.34 |
| Natural Grey  | 1"        | 0.07   | 0.18   | 0.55   | 0.83    | 0.96    | 1.01    | 0.65 |
|               | 1 1/2"    | 0.17   | 0.28   | 0.86   | 0.99    | 1.02    | 1.02    | 0.80 |
|               | 2"        | 0.20   | 0.51   | 1.05   | 1.05    | 1.03    | 1.05    | 0.90 |
|               | 3"        | 0.36   | 0.90   | 1.24   | 1.04    | 1.02    | 1.09    | 1.05 |
|               | 4"        | 0.63   | 1.19   | 1.47   | 1.37    | 1.31    | 1.25    | 1.35 |