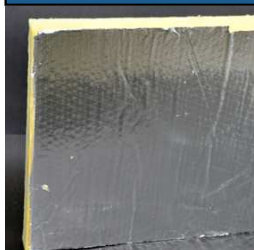




## FICHE TECHNIQUE



### FSK2

### ISOLANT FSK

#### AK BOARD™

Temperature Limit: 450° F (232° C)

##### DESCRIPTION

AK Board is a thermal and acoustical insulation product made from inorganic glass fibers preformed into boards bonded by a thermosetting resin. It is available plain or with factory applied FSK or ASJ facings.

##### ECOSE® TECHNOLOGY

ECOSE Technology is a revolutionary binder chemistry that enhances the sustainability of our products. The "binder" is the bond that holds our fiberglass product together and gives the product its shape and brown color. ECOSE Technology is a plant-based, sustainable chemistry that replaces the phenol/formaldehyde (PF) binder traditionally used in fiberglass products. Products using ECOSE Technology are formaldehyde-free and have reduced global warming potential when compared to our products of the past.

##### SUSTAINABILITY

Manson Insulation's products used for thermal insulating purposes recover the energy that it took to make them in just hours or days, depending on the application. Once installed, the product continues to save energy and reduce carbon generation as long as it is in place.

Fiberglass insulation with ECOSE Technology contains three key ingredients:

- Recycled glass content, verified annually by UL Environment
- Sand, one of the world's most abundant resources
- Our green chemistry initiative ECOSE Technology, which is validated to be formaldehyde-free

##### APPLICATION

Manson Insulation AK Board is a versatile product for thermal and acoustical applications such as heating and air conditioning ducts, power and process equipment, boiler and stack installations, metal and masonry walls, wall and roof panel systems, curtain wall assemblies and cavity walls.

##### SPECIFICATION COMPLIANCE

- ASTM C612;
  - Type IA (1.6, 2.25, 3.0, 4.25, 6.0 PCF) (26, 36, 48, 68, 96 kg/m³)
  - Type IB (3.0, 4.25, 6.0 PCF) (48, 68, 96 kg/m³)
- ASTM C1136 (facings); Type II, IV (FSK), Type I, II (ASJ)
- California Title 24
- CGSM 51-GP-10M

##### PRODUCT FEATURES

###### UL Environment

- GREENGUARD certified
- GREENGUARD Gold certified
- Validated to be formaldehyde-free

###### EUCB

- Tested and certified to meet EUCB requirements

##### FIBERGLASS AND MOLD

Fiberglass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold, it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced.

##### NOTES

The chemical and physical properties of Manson Insulation AK Board insulation represent average values determined in accordance with accepted test methods. The data is subject to normal manufacturing and testing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Check with your Manson Insulation Area Manager to ensure information is current.



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## FICHE TECHNIQUE

### FSK2

#### TECHNICAL DATA

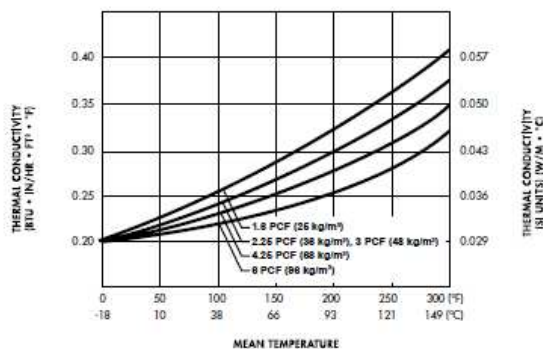
| PROPERTY (UNIT)                                                   | TEST                                             | PERFORMANCE                            |
|-------------------------------------------------------------------|--------------------------------------------------|----------------------------------------|
| Corrosiveness                                                     | ASTM C665                                        | Does not accelerate corrosion of steel |
| Linear Shrinkage                                                  | ASTM C356                                        | Less than 0.3%                         |
| Maximum Service Temperature                                       | C411                                             | 450° F (232° C)                        |
| Water Vapor Sorption (by weight)                                  | ASTM C1104                                       | Less than 5%                           |
| Water Vapor Permeance                                             | ASTM E96, Procedure A                            | 0.02 perms                             |
| Puncture Resistance                                               | TAPPI T803, Beach Units                          | FSK facing: 25, ASJ facing: 50         |
| Microbial Growth                                                  | ASTM C1338                                       | Pass                                   |
| Surface Burning Characteristics<br>(flame spread/smoke developed) | ASTM E84, UL 723, CAN/ULC S102, NFPA 90A and 90B | UL/ULC Classified FHC 25/50            |

#### FORMS AVAILABLE\*

| DENSITY                  | THICKNESS   | R-VALUE | (R-SI) |
|--------------------------|-------------|---------|--------|
| 1.6 PCF<br>(26 kg/m³)    | 1½" (38 mm) | R-6.3   | (1.1)  |
|                          | 2" (51 mm)  | R-8.3   | (1.5)  |
|                          | 3" (76 mm)  | R-12.5  | (2.2)  |
| 2.25 PCF<br>(36 kg/m³)   | 1" (25 mm)  | R-4.3   | (0.8)  |
|                          | 1½" (38 mm) | R-6.5   | (1.1)  |
|                          | 2" (51 mm)  | R-8.7   | (1.5)  |
|                          | 3" (76 mm)  | R-13    | (2.3)  |
| 3.0 PCF<br>(48 kg/m³)    | 4" (102 mm) | R-17.4  | (3.1)  |
|                          | 1" (25 mm)  | R-4.3   | (0.8)  |
|                          | 1½" (38 mm) | R-6.5   | (1.1)  |
|                          | 2" (51 mm)  | R-8.7   | (1.5)  |
|                          | 2½" (64 mm) | R-10.9  | (1.9)  |
| 4.25 PCF †<br>(68 kg/m³) | 3" (76 mm)  | R-13    | (2.3)  |
|                          | 4" (102 mm) | R-17.4  | (3.1)  |
|                          | 1" (25 mm)  | R-4.3   | (0.8)  |
|                          | 1½" (38 mm) | R-6.5   | (1.1)  |
| 6.0 PCF †<br>(96 kg/m³)  | 2" (51 mm)  | R-8.7   | (1.5)  |
|                          | 2½" (64 mm) | R-10.9  | (1.9)  |
|                          | 1" (76 mm)  | R-4.5   | (0.8)  |
|                          | 1½" (89 mm) | R-6.8   | (1.2)  |
|                          | 2" (102 mm) | R-9.1   | (1.6)  |

\*Available in widths of 24" (610 mm) and 48" (1,219 mm)  
and lengths from 36" to 120" (915 mm to 3,048 mm).  
†Cartons only.

#### THERMAL EFFICIENCY | ASTM C177



| MEAN<br>TEMPERATURE | 1.6 PCF |       | 3.0 PCF |       | 6.0 PCF |       |
|---------------------|---------|-------|---------|-------|---------|-------|
|                     | K       | K(SI) | K       | K(SI) | K       | K(SI) |
| 75° F (24° C)       | 0.24    | 0.035 | 0.23    | 0.033 | 0.22    | 0.032 |
| 100° F (38° C)      | 0.25    | 0.036 | 0.24    | 0.035 | 0.23    | 0.033 |
| 200° F (93° C)      | 0.33    | 0.048 | 0.29    | 0.042 | 0.27    | 0.039 |
| 300° F (149° C)     | 0.42    | 0.061 | 0.37    | 0.053 | 0.34    | 0.049 |

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## FICHE TECHNIQUE

### FSK2

| SOUND ABSORPTION COEFFICIENTS   ASTM C423, TYPE A MOUNTING |                       |                        |                                              |      |      |      |      |      |      |
|------------------------------------------------------------|-----------------------|------------------------|----------------------------------------------|------|------|------|------|------|------|
|                                                            |                       |                        | ½ OCTAVE BAND CENTER FREQUENCY (CYCLES/SEC.) |      |      |      |      |      |      |
| DENSITY                                                    | FACING                | THICKNESS              | 125                                          | 250  | 500  | 1000 | 2000 | 4000 | NRC  |
| 1.6 PCF<br>(26 kg/m³)                                      | Plain                 | 1½" (38 mm)            | 0.19                                         | 0.44 | 0.86 | 0.98 | 1.00 | 1.02 | 0.80 |
|                                                            |                       | 2" (51 mm)             | 0.31                                         | 0.57 | 0.96 | 1.04 | 1.03 | 1.03 | 0.90 |
|                                                            |                       | 2½" (64 mm)            | 0.43                                         | 0.82 | 1.12 | 1.07 | 1.04 | 1.03 | 1.00 |
|                                                            |                       | 3" (76 mm)             | 0.47                                         | 0.92 | 1.17 | 1.06 | 1.06 | 1.04 | 1.05 |
| 2.25 PCF<br>(36 kg/m³)                                     | Plain                 | 1" (25 mm)             | 0.05                                         | 0.24 | 0.59 | 0.86 | 0.97 | 1.00 | 0.65 |
|                                                            |                       | 1½" (38 mm)            | 0.17                                         | 0.49 | 0.93 | 1.03 | 1.03 | 0.99 | 0.85 |
|                                                            |                       | 2" (51 mm)             | 0.26                                         | 0.62 | 1.05 | 1.07 | 1.04 | 1.05 | 0.95 |
|                                                            | FSK                   | 1" (25 mm)             | 0.14                                         | 0.69 | 0.81 | 0.99 | 0.55 | 0.27 | 0.75 |
| 2" (51 mm)                                                 |                       | 0.63                   | 0.76                                         | 1.11 | 0.75 | 0.42 | 0.22 | 0.75 |      |
| 3.0 PCF<br>(48 kg/m³)                                      | Plain                 | 1" (25 mm)             | 0.08                                         | 0.23 | 0.62 | 0.88 | 0.96 | 0.99 | 0.65 |
|                                                            |                       | 1½" (38 mm)            | 0.09                                         | 0.39 | 0.89 | 1.03 | 1.06 | 1.01 | 0.85 |
|                                                            |                       | 2" (51 mm)             | 0.29                                         | 0.65 | 1.11 | 1.13 | 1.06 | 1.03 | 1.00 |
|                                                            |                       | 3" (76 mm)             | 0.54                                         | 1.01 | 1.18 | 1.07 | 1.07 | 1.04 | 1.10 |
|                                                            | FSK                   | 4" (102 mm)            | 0.95                                         | 1.11 | 1.17 | 1.07 | 1.07 | 1.06 | 1.10 |
|                                                            |                       | 1" (25 mm)             | 0.21                                         | 0.63 | 0.84 | 0.93 | 0.51 | 0.22 | 0.75 |
|                                                            |                       | 1½" (38 mm)            | 0.45                                         | 0.60 | 0.99 | 0.73 | 0.53 | 0.27 | 0.70 |
|                                                            |                       | 2" (51 mm)             | 0.67                                         | 0.77 | 0.93 | 0.74 | 0.47 | 0.28 | 0.75 |
|                                                            | ASJ                   | 1" (25 mm)             | 0.15                                         | 0.71 | 0.65 | 0.82 | 0.41 | 0.16 | 0.65 |
|                                                            |                       | 1½" (38 mm)            | 0.42                                         | 0.55 | 0.91 | 0.69 | 0.40 | 0.23 | 0.65 |
|                                                            |                       | 2" (51 mm)             | 0.75                                         | 0.71 | 0.80 | 0.66 | 0.41 | 0.24 | 0.65 |
|                                                            |                       | 4.25 PCF<br>(68 kg/m³) | 1" (25 mm)                                   | 0.06 | 0.24 | 0.69 | 0.99 | 1.05 | 1.02 |
| ASJ                                                        | 2½" (64 mm)           | 0.75                   | 0.63                                         | 0.63 | 0.62 | 0.41 | 0.25 | 0.55 |      |
|                                                            | 6.0 PCF<br>(96 kg/m³) | 1" (25 mm)             | 0.05                                         | 0.26 | 0.77 | 1.04 | 1.04 | 1.03 | 0.80 |
| 6.0 PCF<br>(96 kg/m³)                                      | Plain                 | 1½" (38 mm)            | 0.61                                         | 0.47 | 0.78 | 0.61 | 0.51 | 0.35 | 0.60 |
|                                                            |                       | 2" (51 mm)             | 0.13                                         | 0.58 | 1.01 | 1.05 | 1.00 | 1.01 | 0.90 |
|                                                            |                       | 1" (25 mm)             | 0.23                                         | 0.65 | 0.39 | 0.48 | 0.47 | 0.32 | 0.50 |
|                                                            | FSK                   | 1½" (38 mm)            | 0.61                                         | 0.47 | 0.78 | 0.61 | 0.51 | 0.35 | 0.60 |
|                                                            |                       | 2" (51 mm)             | 0.77                                         | 0.50 | 0.72 | 0.58 | 0.53 | 0.41 | 0.60 |
|                                                            |                       | 1½" (38 mm)            | 0.60                                         | 0.46 | 0.62 | 0.48 | 0.47 | 0.31 | 0.50 |
|                                                            | ASJ                   | 2" (51 mm)             | 0.77                                         | 0.44 | 0.60 | 0.50 | 0.41 | 0.30 | 0.50 |



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| ARCHITECTE :  |
| CONTRACTEUR : |