K-13® Technical Data & Submittal Package

Application

K-13 is installed by an international network of professional contractors licensed by ICC. These contractors are required to install K-13 using approved equipment, materials and procedures. Surfaces to receive K-13 are to be inspected prior to installation to determine if pre-treatment is required. Due to the inherent texture of the material and application techniques, the installed material will have thickness variances. Compliance with applicable building codes and project requirements is the responsibility of the user and/or installing contractor.

Acoustical Performance

K-13 SPRAYED THERMAL AND ACOUSTICAL INSULATION APPLIED TO SOLID BACKING[1]

THICKNESS[1]	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
0.63"	0.05	0.16	0.44	0.79	0.90	0.91	.55
0.75"	0.06	0.19	0.55	0.89	0.91	0.93	.65
1.00"	0.08	0.29	0.75	0.98	0.93	0.96	.75
1.25"	0.11	0.40	0.85	1.02	0.96	0.97	.80
1.50"	0.15	0.51	0.95	1.06	0.99	0.98	.90
1.75"	0.19	0.60	1.05	1.11	1.03	0.98	.95
2.00"	0.26	0.68	1.05	1.10	1.03	0.98	.95
2.25"	0.33	0.76	1.05	1.08	1.02	0.98	1.00
2.50"	0.41	0.84	1.05	1.07	1.02	0.99	1.00
2.75"	0.49	0.91	1.05	1.05	1.01	0.99	1.00
3.20"	0.57	0.99	1.04	1.03	1.00	1.00	1.00

K-13 SPRAYED THERMAL AND ACOUSTICAL INSULATION APPLIED TO 1.5" RIBBED METAL DECK[1]

THICKNESS[1]	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.62"	0.36	0.89	1.26	1.07	1.01	1.00	1.05
2.00"	0.56	0.94	1.22	1.04	0.99	0.99	1.05
2.50"	0.77	0.99	1.17	1.02	0.97	0.99	1.05
3.06"	0.97	1.04	1.13	0.99	0.95	0.98	1.05

[1]Some values interpolated. Listed thicknesses are average.

Fire Performance Ratings

Surface Burning Characteristics

K-13 has a Class 1, Class A flame spread rating per ASTM E-84, UL-723, NFPA-255 and UBC-42.

Flame Spread 5
Smoke Developed 5
Underwriters' Laboratories Ref #R5499

CERTIFIED
APPLICATOR
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Code Approvals & Certifications

- ISO 9002 Certified
- ICBO- No. 2262
- CBO – No. 2262
- SBCCI – No. 9566
- Underwriters Laboratories – Ref. No. R5499
- Los Angeles – RR-24311
- New York – 79-73-SM
- Dade County – 92-0107.8
- Factory Mutual Research – Report Nos. 19678, 20399, and 24703
- Meets California Bureau of Home Furnishings Standards
- Resource Conservation and Recovery Act
- EPA 40 CFR Part 24

ASTM Standards Compliance

- ASTM-C-177 Thermal Conductivity
- ASTM E-119 Full Scale Fire Wall Test, including Hose Stream Test
- ASTM E-84 Surface Burning Characteristics
- ASTM C-423 Noise Reduction Coefficients
- ASTM C-523 Light Reflectance
- ASTM E-736 Bond Strength
- ASTM E-859 Air Erosion
- ASTM C-739 Moisture Absorption
- ASTM E-90 Sound Transmission Loss
- ASTM E-413 Sound Transmission Loss
- ASTM E-1042 Acoustical Absorption
- ASTM C-1149 Spray-applied Cellulose Insulation

Test reports available upon request.

Federal Specifications

- Federal Defense Logistics Agency Cage Code: ONJU2
- Department of the Navy Guide Specifications – NFGS-07218
- Corps of Engineers Guide Specifications – CE-201.01
- Federal Specification – SS-S-111C

Standard Colors

- White
- Beige
- Tan
- Lt. Grey
- Grey
- Black

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Factory Mutual Approvals

K-13 has been rated and approved by Factory Mutual Research Corporation for use in the following categories:

- **Category I:** As an interior finish material of low fire hazard (Class I Building Material) over noncombustible surfaces not requiring automatic sprinkler protection in and of itself. Minimum installed thickness of 1".
- **Category II:** As a protective coating to delay the ignition and reduce the surface burning rate of combustible wood and cellulosic fiber building materials. Minimum installed thickness of 1".
- **Category III:** As a protective coating to delay the ignition and reduce the surface burning rate of low melting, combustible cellular plastic building materials and to protect their dimensional stability for a brief period. Minimum installed thickness of 1¼".
- **Category IV:** As a protective coating for building structural steel to supplement automatic sprinkler protection in preventing structural failure temperatures of the steel in high fire hazard occupancies. Minimum installed thickness of 1".
- **Category V:** As a protective coating to the underside of Class II insulated steel roof deck construction to sufficiently lower the rate of fuel contribution from the Class II deck components to qualify the construction as Class I allowing automatic sprinkler protection to be omitted where permissible under Factory Mutual Standards. Minimum installed thickness of 1".