

SPRAY-APPLIED THERMAL & ACOUSTICAL FINISH TECHNICAL DATA SHEET

AUGUST 2018

CSI MasterFormat® Filing:

Division 7: Thermal & Moisture Protection

O7 21 00 Thermal Insulation O7 21 29 Sprayed Insulation

Division 9: Finishes

09 81 00 Acoustic Insulation

09 81 29 Sprayed Acoustic Insulation

09 83 00 Acoustic Finishes

09 83 16 Acoustic Ceiling Coating





MANUFACTURER INFORMATION:

International Cellulose Corporation

12315 Robin Boulevard | Houston, Texas 77045

(713) 433-6701 or (800) 444-1252 | FAX: (713) 433-2029

1. PRODUCT DESCRIPTION:

K-13 is a **Thermal** and **Acoustical** cellulose insulation is used as an insulation/exposed finish for its acoustic and thermal benefits. K-13's monolithic coating absorbs excess noise and provides an R-value of 3.75 per inch. K-13 has a **Natural Texture** and is available in seven standard colors and custom integral colors.

2. BASIC USE:

K-13 is typically used as an exposed ceiling finish for its acoustic and thermal benefits. It is appropriate in both interior and covered exterior applications such as parking decks.

3. MATERIAL COLORS:

K-13 is available in seven standard colors can also be specified in specially-matched custom colors.

STANDARD COLORS:

Black	Gray	Lt. Gray	White	Beige	Tan	Cocoa

Color selection will affect the final price.

SUSTAINABLE CREDIT CATEGORIES:

MATERIALS + RESOURCES:

RECYCLED CONTENT: 80% Pre-Consumer

<u>REGIONAL MATERIALS:</u> Manufactured by International Cellulose Corporation in Houston, TX.

MATERIAL INGREDIENT REPORTING: Inventoried to 1,000 PPM in accordance with the HPD Collaborative.

INDOOR ENVIRONMENTAL QUALITY:

INDOOR AIR QUALITY: UL GREENGUARD Gold Certified May Contribute Towards:

LEED v4: Indoor Air Quality Assessment

LEED v4: Enhanced Indoor Air Quality Strategies

THERMAL COMFORT: K-13 has exceptionally low heat-loss characteristics with an R-Value of 3.75

ACOUSTICAL PERFORMANCE

LOW-EMITTING MATERIALS:

M1 Classified as a Low-Emitting Building Material Compliant With:

LEED v4: Low-Emitting Materials CDHP/ California Section 01350

SCAQMD Rule 1168

CHPS- Acoustical Ceiling

4. SURFACE PREPARATION:

K-13 adheres to properly prepared substrates and conforms to any ceiling configuration including metal decking, barrel-vaults, concrete "T" corrugated decks, and other complex surfaces. Surfaces to receive K-13 are to be inspected prior to installation to determine if pretreatment is required.

5. 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. 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.



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TECHNICAL DATA:

ASTM STANDARDS COMPLIANCE

ASTM C 423 Sound Absorption
ASTM C 518 Thermal Conductivity
ASTM C 739 Cellulosic Fiber

ASTM C 1149 Spray-Applied Cellulose Insulation

ASTM D 2244 Light Reflectance

ASTM E 84 Surface Burning Characteristics

ASTM E 90 Sound Transmission

ASTM E 736 Cohesion/Adhesion - Bond Strength

ASTM E 759 Bond Deflection **ASTM E 859** Air Erosion

ASTM E 1042 Acoustical Absorption

ASTM C 518: Thermal Conductivity

R-Value: 3.75 PER INCH

AVG. APPLICATION THICKNESS	R-VALUE		
1"	3.75		
2"	7.5		
3″	11.25		
4"	15		
5"	18.75		
6"	22.5		
7"	26.25		
8"	30		
9"	33.75		
10"	37.5		

ASTM D 2244: Light Reflectance

White: 84+	Tan: 46+
Light Gray: 73+	Gray: 45+
Beige: 71+	Black: 17+

ASTM E 84: Surface Burning Characteristics

CLASS 1, CLASS A RATED per ASTM E-84, UL-723, NFPA-255, & UBC-42

Flame Spread 5
Smoke Development 5

K-13 has been rated and approved by Factory Mutual Research Corporation for use in categories: I, II, III, & IV.

ASTM E 736: Cohesion/Adhesion - Bond Strength **Bond Strength** >100psf

K-13 meets IBC 2009 Section 803.10 Stability requirements for Interior Finish materials.

ASTM C 423: Sound Absorption

K-13 APPLIED ON SOLID BACKING

Inches	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
.625"	.05	.16	.44	.79	.90	.91	.55
1"	.11	.32	.84	.99	1.01	.98	.80
1.75"	.30	.74	1.14	1.06	.99	.98	1.00
2"	.47	.90	1.06	1.06	1.08	1.07	1.00
3"	.57	.99	1.04	1.03	1.00	.98	1.00
4"	.84	1.06	1.01	1.03	1.00	.98	1.05
5"	.99	.89	1.05	1.03	1.00	1.00	1.00

K-13 APPLIED ON 1.5" METAL DECK

Inches	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.5"	0.36	0.89	1.26	1.07	1.01	1.00	1.05
3"	0.97	1.04	1.13	0.99	0.95	0.98	1.05

K-13 APPLIED ON 2" METAL DECK

Inches	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1"	0.39	0.63	0.96	0.99	1.04	1.06	0.90
2"	0.55	0.99	1.13	1.06	1.05	1.10	1.05

K-13 APPLIED ON 3" METAL DECK

Inches	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.5"	0.55	0.92	1.11	1.02	0.95	0.99	1.00
2.75"	0.69	0.98	1.17	1.03	0.97	1.04	1.05

MISCELLANEOUS CODE APPROVALS & SPECIFICATIONS

- Underwriters Laboratories Classified Code Compliance Report UL ER 5499
- Factory Mutual Research Report Nos. 19678, 20399, and 24703
- Federal Defense Logistics Agency Cage Code: ONJU2
- Federal Specification SS-S-111C
- Corps of Engineers Guide Specifications CE-201.01
- Department of the Navy Guide Specifications NFGS-07218
- EPA 40 CFR Part 248
- Miami-Dade County, FL. NOA #18-0122.09 Expires Sept. 4, 2020
- Los Angeles RR-24311
- New York MEA 65-96-M
- Meets California Bureau of Home Furnishings Standards
- Resource Conservation and Recovery Act

K-13 does not contain silica dust, asbestos, mineral or glass fibers, or PCB's.









