

## TECHNICAL DATA SHEET

FEBRUARY 2019

### CSI MasterFormat® Filing:

#### Division 7: Thermal & Moisture Protection

07 21 00 Thermal Insulation  
07 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 applied to metal decking 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 specially-matched custom colors.

### 2. BASIC USE:

K-13 is used as an exposed finish over metal decking for its acoustic and thermal benefits.

### 3. MATERIAL COLORS:

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

#### STANDARD COLORS:



Color selection will affect the final price.

### 4. SURFACE PREPARATION:

K-13 adheres to properly prepared substrates and conforms to any ceiling configuration including metal decking and other complex surfaces. Metal decking 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.

### SUSTAINABLE CREDIT CATEGORIES:

#### MATERIALS + RESOURCES:

**RECYCLED CONTENT:** 80% Pre-Consumer

**REGIONAL MATERIALS:** 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



# SPRAY-APPLIED THERMAL & ACOUSTICAL FINISH METAL DECK APPLICATION

## 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 423: Sound Absorption

#### 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	<b>1.05</b>
3"	0.97	1.04	1.13	0.99	0.95	0.98	<b>1.05</b>

#### 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	<b>0.90</b>
2"	0.55	0.99	1.13	1.06	1.05	1.10	<b>1.05</b>

#### 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	<b>1.00</b>
2.75"	0.69	0.98	1.17	1.03	0.97	1.04	<b>1.05</b>

### 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.**

### 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.**

