

enviroflex
commercial

**GROUP 1
FIRE
CLASSIFICATION**
compliant to National
Construction Code (NCC)
AS ISO 9705 standard
full room fire test.

K-13[®]
Spray-on Systems

Spray-applied thermal
and acoustical finish

enviroflexcommercial.com.au

Technical Data Sheet

K-13[®]

Spray-on Systems

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

Sustainable Credit Categories

Material & Resources

Recycled content

80% Pre-Consumer. Natural-based fibres.

Regional materials

Manufactured by International Cellulose Corporation in Houston, TX.

Material ingredient reporting

Inventoried to 100 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 3.7

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

Manufacturer Information

International Cellulose Corporation

12315 Robin Boulevard, Houston, Texas 77045

Telephone (713) 433-6701 or (800) 444-1252

Fax (713) 433-2029

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 R1 per 38 mm. K-13 has a natural texture and is available in five standard colors and custom integral colors.

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 undercover carparks.

Material Colours

K-13 is available in five standard colours and can also be custom dyed to match the colours used for specific projects.



Black



Light Grey



White

Grey and Tan also available upon request.

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 pre-treatment such as a primer is required to seal older surfaces.

Application

Enviroflex Commercial is part of the ICC international network licensed to install their products, and is **the only licensed installer in Australia**.

All installations must be carried out using ICC specified equipment, base materials and protocols.

Test Standards and Certifications

All test methods and certifications quoted are based on American standards as a product developed and produced in the USA.

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: 0.67 per 25.4 mm

Avg. Application	R-Value (AU)
1" / 25.4 mm	0.67
2" / 50.8 mm	1.34
3" / 76.2 mm	2.01
4" / 101.6 mm	2.68
5" / 127.0 mm	3.35

ASTM D 2244 Light Reflectance

White 84+	Tan 46+
Light Grey 73+	Grey 45+
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 2015 section 803.12 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
1.0	.11	.32	.84	.99	1.01	.98	.80
1.75	.30	.74	1.14	1.06	.99	.98	1.00
2.0	.47	.90	1.06	1.06	1.08	1.07	1.00
3.0	.57	.99	1.04	1.03	1.00	.98	1.00
4.0	.84	1.06	1.01	1.03	1.00	.98	1.05
5.0	.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	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	0.39	0.63	0.96	0.99	1.04	1.06	0.90
2.0	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 fibres, or PCB's.



Moot Court, Bundoora
K-13® Black





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