

CS INSULATION

7 FLUID APPLIED | Membrane Waterproofing



DESCRIPTION

CS Insulation stands for Crawl Space Insulation. This commercial quality product is brought to you by GMX, Inc. primarily for use in the construction of closed crawlspaces. CS Insulation is faster and easier to install than other insulation board products and provides superior performance inside the crawlspace. Use CS Insulation to insulate and reduce mechanical noise inside the crawlspace, give a clean finished look, cut down on installation time, get more system flexibility due to the flame retardancy rating, and lower material costs.

USES

CS Insulation's primary function is as insulation for the construction of closed crawlspaces (sealed crawlspaces, conditioned crawlspaces). CS Insulation is used where board stiffness properties are not required and also functions as an exterior insulation when covered with a weather barrier. CS Insulation is used in exterior curtain walls, interior walls, floor/ceiling assemblies and as an exterior insulation on HVAC ducts and plenums or in constructions where framing is not present. It is also used as thermal insulation on tanks and vessels.

MATERIALS

The product is composed of glass fibers bonded together with a thermoset binder with a reinforced skim face.

INSTALLATION

Exterior Walls – Install a vapor barrier towards the interior side of the structure, except in warm and humid areas where local code regulations may require a vapor retarder to face toward the exterior.

Curtain Walls – CS Insulation is applied to spandrel and precast concrete panels with approved adhesives or mechanical fasteners. It may also be installed using hat channels or Z-studs. Where a vapor retarder is required, all joints, seams and penetrations shall be sealed. Exterior applications require the insulation to be covered with appropriate weather barrier finish. Choice of finish depends on mechanical abuse, weather exposure, and appearance requirements.

HVAC/Mechanical – All fabrication, application and installation steps should be in accordance with the requirements of the National Commercial and Industrial Installation Standards (current edition) published by the Midwest Insulation Contractors Association (MICA).

These installation recommendations are general in nature. Other methods are acceptable. Please consult your contractor or GMX, Inc. barriers for recommendations best suited to the applications.

MAINTENANCE

An inspection and preventative maintenance program for the insulation and vapor retarder system is recommended to ensure optimum performance.

QUALITY ASSURANCE

CS Insulation is manufactured according to ISO 9000 standards.

APPLICABLE STANDARDS

Model Building Codes:	Material Standards:
(BOCA, ICBO, SBCCI, CABO, ICC)	(ASTM C 553) CB 150, Type I, II & III
New York City MEA 35-79-M	(ASTM C 612) CB 150 & CB 225, Type IA CB 300 & CB 600, Types IA & IB
California Quality Standards.Reg. No. CA-T024 (PA)	(CAN/CGSB-51.10-92) CB 150 & CB 225, Type II, Class II CB 300 & CB 600, Types I, Class II
City of Los Angeles, RR 8148	Regional Materials: 20% Extracted, Processed and Manufactured Regionally

FIRE RESISTANCE

Fire Hazard Classification:	Limited Combustible:
ASTM E 84, UL 723, NFPA 255)	(NFPA 259) 3,500 Btu/lb
(CAN/ULC-S102-M88)	
Max. Flame Spread Index; 25	
Max Smoke Developed Index; 50	

PHYSICAL/CHEMICAL PROPERTIES

Thermal Performance:	Water Vapor Sorption:
(ASTM C 177 or ASTM C 518) See available size table	(ASTM C 1104) 3% by weight
Acoustical Performance:	Corrosiveness:
(ASTM C 423) See table on reverse	(ASTM C 665)
Operating Limits:	Pass
Temperature: (ASTM C 411)	Fungi Resistance:
Max. 250°F (121°C) (Faced)	(ASTM C 1338)
Max. 450°F (232°C) (Unfaced)	Pass
Water Vapor Permeance:	Odor Emission:
(ASTM E 96, Dessicant Method)	(ASTM C 1304)
Max. 0.02 perms	Pass
(1.15 x 10 ⁻⁹ g/Pa-s-m ²)	
(ASJ & FSK Facing)	

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FIBERGLASS TECH DATA									
Fiberglass Properties		Thermal Resistance	Sound Absorption Coefficients @ Frequency (Hz)						
Thickness	Density	R-Value	125	250	500	1000	2000	4000	NRC
2.5 in	1.66	11	0.13	0.77	1.12	1.09	1.04	1.04	1

SCRIM TECHNICAL DATA		
Facing Composition	Description	Values
White Film	Polypropylene	0.0015 inch
Adhesive	Flame Resistant	
Reinforcing	Tri-directional fiberglass	4/inch (MD), 4/inch (XD)
Film	Metalized Polyester	0.0005 inch
Physical Properties	Test Method	Values
Basis Weight	Scale	14 lbs./1000 ft. ²
Permeance (WVTR)	ASTM E 96 Procedure A	0.02 perm (grains/hr ft. ² in Hg)
Bursting Strength	ASTM D 774	100 psi
Tensile Strength	ASTM C 1136	35 lbs/inch width (MD) 35 lbs/inch width (XD)
Caliper/Thickness	Micrometer	0.007 inch

May help to contribute to LEED® credits:	
EA Credit 1:	Optimize Energy Performance
EQ Credit 3.1:	Construction IAQ Management Plan: During Construction
EQ Credit 4.2:	Low Emitting Materials: Paints and Coatings
MR Credit 5.1:	Regional Materials: 10% Extracted, Processed and Manufactured Regionally
MR Credit 5.2:	Regional Materials: 20% Extracted, Processed and Manufactured Regionally



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Results may differ based upon statistical variations depending upon mixing methods and equipment, temperatures, application methods, test methods, actual site conditions and curing conditions. Installation conditions and methods can impact product performance. Consult your local GMX Sales Representative for Questions.

PRIOR TO EACH USE OF ANY GMX PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS & INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT WWW.GMXCO.COM OR BY CALLING GMX AT 866-228-7743. NOTHING CONTAINED IN ANY GMX MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH GMX PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.