CS INSULATION

7 FLUID APPLIED | Membrane Waterproofing

FESIDENTIAL RESIDENTIAL

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 skrim 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-m²)		
(ASJ & FSK Facing)		

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	FIBERGLASS TECH DATA								
Fiberglass Pr	operties	Thermal Resistance		Sound A	bsorption	Coefficier	nts @ Frequ	uency (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 TECHINCAL 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	Micometer	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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