

CertainTeed

Specification Sheet

Universal Blanket

1. PRODUCT NAME

Universal Blanket

2. MANUFACTURER

CertainTeed Corporation
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3. PRODUCT DESCRIPTION

Basic Use: Universal Blanket is utilized in general purpose applications where a flexible thermal, acoustical insulation is required. Available in 5 different densities, Universal Blanket can be fabricated into a variety of shapes and sizes to fit almost any application. Additionally it will withstand temperatures up to 450°F.

Benefits: Universal Blanket reduces heat transfer through equipment walls, which lowers energy consumption, thereby reducing fuel bills. The product absorbs the level of equipment noise and when installed with a suitable vapor retarder, helps reduce condensation from forming on the surface of cooling equipment. Properly installed, Universal Blanket is unaffected by aging and temperature changes. The inorganic fibers will not rot or decompose and will maintain thermal and acoustical efficiency under normal conditions.

Composition and Materials: CertainTeed Universal Blanket is composed of glass fibers bonded together with a thermosetting resin and formed into a blanket-type insulation.

Limitations: Insulation should be kept clean and dry during shipping, storage, installation and system operation.

Sizes: Rolls are available in 24" and 48" standard widths. For other widths, contact your CertainTeed representative.

4. TECHNICAL DATA

Applicable Standards:

- Model Building Codes:
 - ICC
 - California Quality Standards. Reg. No. CA-T024 (PA)
- Material Standards
 - (ASTM C553), Type I, II & III
 - (ASTM C1139), Type I, Grades 1, 2, 3 & 4, Type II, Grades 1, 2, 3 & 4.
 - MIL-I-22023D, Type I & Type II
- Fire Safety Standards:
 - (NFPA 90A, NFPA 90B)

Fire Resistance:

- Fire Hazard Classification:
 - (UL 723, ASTM E84, NFPA 255)
 Max. Flame Spread Index; 25
 Max. Smoke Developed Index; 50

Physical/Chemical Properties:

- Thermal Performance:
 - See table on back page.
- Acoustical Performance:
 - See table on below.
- Operating Limits:
 - Temperature: (ASTM C411)
 Max. 450°F (232°C)
- Corrosion Resistance: (ASTM C665)
 - Pass



- Vibration Resistance (ASTM C1139)
 - <0.5% weight loss & no thickness reduction
- Water Vapor Sorption: (ASTM C1104)
 - < 5% by weight

Quality Assurance: CertainTeed was the first fiber glass insulation manufacturer to have its manufacturing plants, R&D center and corporate headquarters registered to ISO 9000 standards.

5. INSTALLATION

All fabrication, application and installation steps shall be in accordance with the requirements of the

ACOUSTICAL PERFORMANCE									
Product			Absorption Coefficients @ Octave Band Center Frequencies (Hz)						NRC
Type	Thickness		125	250	500	1000	2000	4000	
	in.	mm							
501	1½	38	0.21	0.49	0.71	0.79	0.80	0.80	0.70
	2	51	0.23	0.62	0.84	0.87	0.85	0.87	0.80
	4	102	0.51	0.92	1.01	0.93	0.95	1.06	0.95
751	1	25	0.14	0.33	0.64	0.77	0.83	0.86	0.65
	1½	38	0.17	0.45	0.78	0.84	0.92	0.93	0.75
	3	76	0.36	0.82	1.02	1.00	0.96	1.01	0.95
1001	1½	38	0.21	0.53	0.79	0.85	0.85	0.87	0.75
	2	51	0.28	0.69	0.94	0.91	0.90	0.93	0.85

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795

National Commercial and Industrial Installation Standards (current edition) published by the Midwest Insulation Contractors Association (MICA). These installation requirements are general in nature. Other methods may be acceptable, please consult your contractor for recommendations best suited to the applications.

6. AVAILABILITY AND COST

Manufactured and sold throughout the United States. For availability and cost contact your local distributor, or

call CertainTeed Sales Support Group in Valley Forge, PA at 800-233-8990.

7. WARRANTY

Inasmuch as CertainTeed has no control over the installation design, installation workmanship, accessory materials, or conditions of application, CertainTeed does not warrant the performance or results of any installation containing its products.

8. MAINTENANCE

An inspection and preventative maintenance program for the insula-

tion and any applied jacketing, lagging or cladding system is recommended to ensure optimum performance.

9. TECHNICAL SERVICES

Technical assistance can be obtained either from the local CertainTeed sales representative, or by calling CertainTeed in Valley Forge, PA at 800-233-8990.

10. FILING SYSTEMS

Additional product information available upon request.

THERMAL PERFORMANCE										
Type	Density		Thickness		K-Value		C-Value		R-Value	
	pcf	kg/m ³	in.	mm	Btu•in	W	Btu	W	R	RSI
					h•ft. ² •°F	m ² •°C	h•ft. ² •°F	m ² •°C		
501	0.60	9.6	1½	38	0.32	0.046	0.21	1.21	4.7	0.83
			2	51			0.16	0.91	6.3	1.10
			3	76			0.11	0.61	9.4	1.65
			4	102			0.08	0.45	12.5	2.20
751	0.75	12.0	1½	38	0.29	0.042	0.19	1.10	5.2	0.91
			2	51			0.15	0.82	6.9	1.21
			3	76			0.10	0.55	10.3	1.82
			4	102			0.07	0.41	13.8	2.43
1001	1.00	16.0	1	25	0.26	0.037	0.26	1.48	3.8	0.68
			1½	38			0.17	0.98	5.8	1.02
			2	51			0.13	0.74	7.7	1.35
			3	76			0.09	0.49	11.5	2.03
			4	102			0.07	0.37	15.4	2.71
1501	1.50	24.0	1	25	0.24	0.035	0.24	1.36	4.2	0.73
			1½	38			0.16	0.91	6.3	1.10
2001	2.00	32.0	1	25	0.23	0.033	0.23	1.31	4.3	0.77

Thermal conductance (C) and resistance (R) values are derived from the material thermal conductivity (k) value. Tested in accordance with ASTM C 518 and/or ASTM C 177 at 75° F (24° C) mean temperature.



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