Specification Sheet



CrimpWrap™ Crimped Pipe and Tank Wrap

1. PRODUCT NAME

CertainTeed CrimpWrap™ Crimped Pipe and Tank Wrap

2. MANUFACTURER

CertainTeed Corporation P.O. Box 860

Valley Forge, PA 19482-0105 Phone: 610-341-7000

800-233-8990 Fax: 610-341-7571

Website: www.certainteed.com/insulation

3. PRODUCT DESCRIPTION

Basic Use: To insulate vessels, large diameter pipes and rectangular or round duct work with service temperatures from 35°F to 850°F (1.7°C to 454°C). Used in commercial and industrial construction projects. Helps control heat loss or gain, and provides hot surface personnel protection during system operation.

Benefits: The unique variably oriented fibers provide the thermal and compressible properties found in rigid fiber glass board products while remaining flexible enough to wrap vessels, and can be used as a costeffective substitute for pre-formed pipe insulation on large diameter pipes (see table at right for minimum pipe diameters for each thickness). This product eliminates the potential for strip delamination common in traditional tank wrap during fabrication and installation.

Composition and Materials: This product is made from a continuous fiber glass blanket. It is a unique flexible insulation composed of variably oriented glass fibers firmly bonded together with a thermosetting resin. Products are available either foil-faced or with a white-faced (ASJ) vapor retarder facing.

Sizes: See table at right for available sizes. Contact CertainTeed for availability and minimum order quantities.

Limitations: Installed insulation thickness should be sufficient to limit the facing temperatures to less than 140°F. For 850°F application temperatures, the maximum insulation thickness should not exceed 4". Faced insulation should not be installed in multiple layers. Insulation should be kept clean and dry during shipping, storage, installation and system operation.

4. TECHNICAL DATA

Applicable Standards:

- Material Standards:
 - ASTM C612: Type IA
 - ASTM C612: Type II, except for thermal conductivity at 75°F mean temperature
 - ASTM C1393: Type IIIA, Category 2

Fire Resistance:

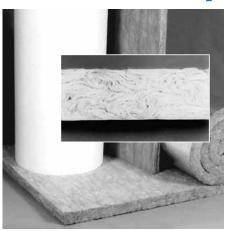
- Fire Hazard Classification:
 - ASTM E84

Max. Flame Spread Index: 25 Max Smoke Developed Index: 50

- Limited Combustible:
 - NFPA 259
 - < 3,500 Btu/lb

Physical/Chemical Properties:

- Thermal Performance:
 - ASTM C518, ASTM C177
 See table at right
- Operating Limits (Temperature):
- ASTM C411
- Max. 850°F (454°C)
- Corrosiveness:
- ASTM C665
 Meets requirements
- Fungi Resistance:
- ASTM C1338
 - Meets requirements
- Odor Emission:
 - ASTM C1304
 Meets requirements
- Moisture Vapor Transmission (facing only):
- ASTM E96; Method A Max. 0.02 perms
- Compressive Resistance (Min. load required to produce a 10% reduction in thickness, lb/ft² (kPA):
- ASTM C165 25 (1.2)



- Density
- ASTM C167
 - 2.5 pcf (40 kg/m³)

THIC	KNESS	MINIMUM NOMINAL PIPE (BLACK IRON PIPE) DIAMETER					
in.	mm	in.	mm				
1	25	6	152				
11/2	38	8	203				
2	51	10	254				
21/2	64	12	305				
3	76	16	406				
31/2	89	18	457				
4	102	20	508				

THERMAL PERFORMANCE									
		Apparent Thermal Conductivity							
Mean Tei	nperature	Btu•in h•ft²°F	W m²•°C						
°F	°C	°F	°C						
75	24	0.24	0.034						
150	66	0.27	0.038						
200	93	0.31	0.045						
300	149	0.39	0.056						
400	204	0.49	0.071						
500	260	0.62	0.089						

	AVAILABLE SIZES										
Thio	kness	Wi	dth	Length							
in.	mm	in.	mm	ft.	m						
1	25	48	1219	39'4" to 52'	12 to 15.85						
11/2	38	48	1219	25'9" to 30'	7.85 to 9.14						
2	51	48	1219	19'2" to 26'	5.84 to 7.92						
21/2	64	48	1219	15'2" to 20'	4.62 to 6.10						
3	76	48	1219	13'2" to 20'	4 to 6.10						
31/2	89	48	1219	13'2" to 15'	4 to 4.57						
4	102	48	1219	13' to 14'	3.96 to 4.27						

Quality Assurance: CertainTeed's commitment to quality and environmental management has ensured the registration of the Athens, Chowchilla and Kansas City plants to ISO 9001:2000 and ISO 14001:2004 standards.

5. INSTALLATION

Preparatory Work: Determine the stretchout length of the CrimpWrap required by measuring the outside perimeter of the pipe or tank to be insulated. Add an allowance of 6.28 times the insulation thickness (6.28t) to the circumference to obtain the stretch-out dimension. For pipes and tanks of known diameters, the stretchout (SO) can be calculated by the following equation: SO = 3.14x(d+2t)

In the above equation, d equals pipe or tank diameter and t equals product thickness. If a staple flap is required, an additional 3" (76mm) should also be added to the stretch-out dimension. For common pipe sizes, select the stretch-out length from the table below.

To prepare the staple flap, cut off the stretch-out length from the insulation roll. At 3" from the end of this piece, cut the insulation parallel to the end and down to, but not

through, the facing. Strip off the 3" wide piece of insulation to form the staple flap.

Method: To install, wrap the insulation around the surface(s) to be insulated to verify the length. The insulation should be butted and secured with staples and vapor barrier mastic or adhesive, or by applying staples and a pressure sensitive vapor retarder tape that is compatible with the facing. Adjacent sections should be butted together and sealed with the pressure sensitive tape. When service temperature is below ambient, special care must be given to seal all joints and facing penetrations. Use of bands or impalement pins for securement purposes is permitted. Consult the National Commercial and Industrial Insulation Standards, published by the Midwest Insulation Contractors Association (MICA), or the Thermal Insulation Association of Canada (TIAC) specification for additional details on installation and weatherproofing for outdoor applications.

Precautions: The application diameter of the insulation should not be less than the diameter indicated. Insulation should be kept clean and dry during shipping, storage, installation and system operation.

6. AVAILABILITY AND COST

Distributed 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 insulation and vapor retarder 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 Sales Support Group in Valley Forge, PA at 800-233-8990.

10. FILING SYSTEMS

- CertainTeed Pub. No. 30-36-081
- Additional product information available upon request.

STRETCH-OUT LENGTHS																
Nominal			CrimpWrap Thickness													
Pipe Size			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
in.	in.	mm	1	25	11/2	38	2	51	21/2	64	3.00	76	31/2	89	4.00	102
6	6.63	168	271/8	689	_	_	_		_	_	_		_	_	_	_
8	8.63	219	333/8	848	361/2	928	_		_	_	_		_	_	_	_
10	10.75	273	40	1017	431/4	1097	463/8	1177	_	_	_		_	_	_	_
12	12.75	324	461/8	1177	491/2	1257	525/8	1337	553/4	1416	_		_	_	_	_
14	14	356	501/4	1277	533/8	1357	561/2	1436	593/4	1516	_		_	_	_	_
16	16	406	561/2	1436	593/4	1516	627/8	1596	66	1676	691/8	1756	_	_	_	_
18	18	457	627/8	1596	66	1676	691/8	1756	721/4	1835	753/8	1915	781/2	1995	_	_
20	20	508	691/8	1756	721/4	1835	753/8	1915	781/2	1995	815/8	2075	847/8	2155	88	2234
22	22	559	751/8	1915	781/2	1995	815/8	2075	847/8	2155	88	2234	911/8	2314	941/4	2394
24	24	610	815/8	2075	847/8	2155	88	2234	911/8	2314	941/4	2394	973/8	2474	1001/2	2553
26	26	660	88	2234	911/8	2314	941/4	2394	973/8	2474	1001/2	2553	1035/8	2633	1067/8	2713
28	28	711	941/4	2394	973/8	2474	1001/2	2553	1035/8	2633	1067/8	2713	110	2793	1131/8	2873
30	30	762	1001/2	2553	1035/8	2633	1067/8	2713	110	2973	1131/8	2873	1161/4	2952	1193/8	3032
32	32	813	1067/8	2713	110	2793	1131/8	2873	1161/4	2952	1193/8	3032	1221/2	3112	1255/8	3192
34	34	864	1131/8	2873	1161/4	2952	1193/8	3032	1221/2	3112	125%	3192	1283/4	3272	132	3351
36	36	914	1193/8	3032	1221/2	3112	1255/8	3192	1287/8	3272	132	3351	1351/8	3431	1381/4	3511
The lengths shown in this table do not have a 3" staple flap incorporated into the calculated dimensions. If a staple flap is desired, add 3" to the number shown.																





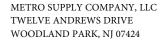






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