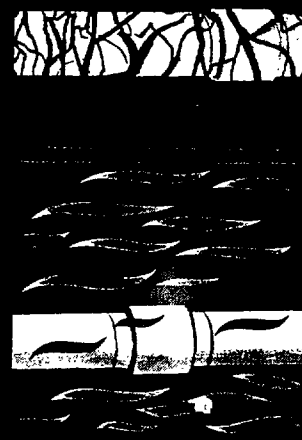


CERTAINTEED

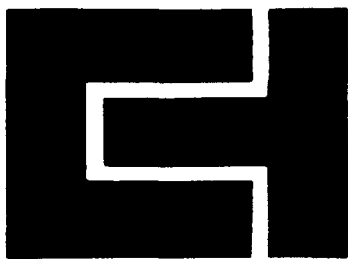
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PLAINTIFF'S EXHIBIT

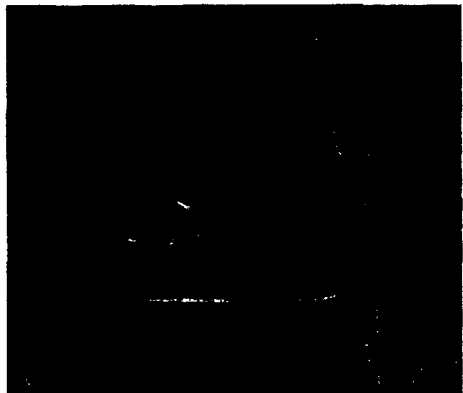
CT-804

CTD010430



CERTAINTEED

THE MODERN SEWER PIPE



you save in design

Certain-teed Sewer Pipe has a smooth bore with a Manning Factor of $n = 0.010$ allowing:

Flatter Grades • Smaller Pipe Diameters • Fewer Lift Stations • 5 Crushing Strengths.

5 crushing strengths of Certain-teed sewer pipe

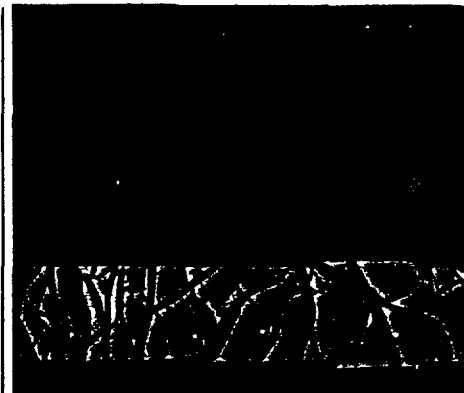
Size In.	Class 1500	Class 2400	Class 3300	Class 4000	Class 5000
6	1500	2400	3300		
8	1500	2400	3300		
10	1500	2400	3300	4000	5000
12	1500	2400	3300	4000	5000
14	1500	2400	3300	4000	5000
15	1500	2400	3300	4000	5000
16	1500	2400	3300	4000	5000
18		2400	3300	4000	5000
20		2400	3300	4000	5000
21		2400	3300	4000	5000
24		2400	3300	4000	5000



you save in installation

Certain-teed Sewer Pipe is light in weight . . . FLUID-TITE Coupling allows easy assembly. No stopping for bad weather or because of ground conditions.

No heavy machinery required • Fewer joints needed with 13' pipe lengths • Permanent watertight joints automatically, quickly • Fewer workers . . . quick installation • Factory-installed CERTA-SPACER® band spaces pipe ends automatically • Less expensive transportation and handling

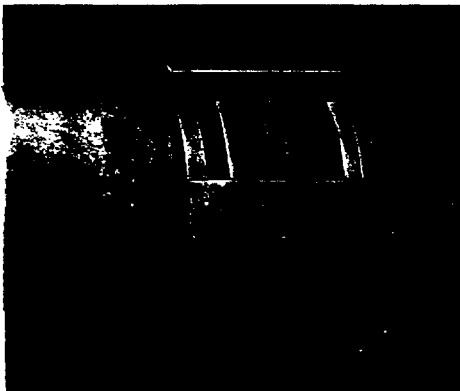


you save in operation

Certain-teed Sewer Pipe is strong and durable, available in 5 crushing classifications . . . corrosion resistant, non-electrolytic. Its smooth bore remains clean. Patented FLUID-TITE Coupling forms a completely tight seal.

Infiltration eliminated at the joints • Keeps roots out • Smooth bore means fewer periodic cleanings • Fewer inspections required • Reduces treatment load

CTD010431



Certain-teeed FLUID-TITE® coupling

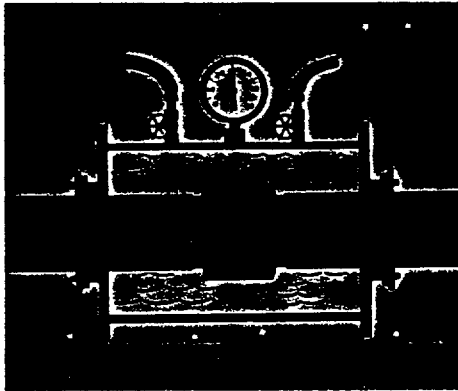
The exclusive patented coupling from Certain-teeed.

More pipe laid per hour with fewer men . . . labor required is drastically reduced.

Quicker installation • Permanent tight seal, automatically • Absorbs vibration • Eliminates infiltration at the joints • Keeps out roots •

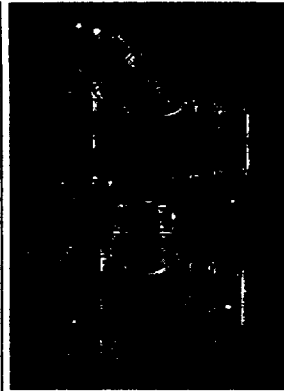
Two easy assembly steps:

Lubricate . . . Slide pipe in . . . That's all!



infiltration test

Here, FLUID-TITE Coupling and rings undergo external water-pressure tests from 0 to 25 psi (equivalent of 58-foot head, which far exceeds field conditions) with no pressure inside the pipe. No infiltration, even under this exacting test!



Certain-teeed connections

Sewer Pipe to Certain-teeed Building Sewer lateral branches.

Bell and Spigot Sewer Tees and Wyes are furnished in sizes 6" through 18" with 4", 5", or 6" building sewer pipe branches. A complete line of fittings is available for house to main connections.

Cut-in Branch Connections done quickly and easily, right on the job.

CTD010432

Check These Certain-teed Sewer Pipe Features...

Certain-teed Pipe and Couplings Meet Requirements of Specifying Agencies. Included among these are: American Society of Testing Materials Specification C428, American Society of Testing Materials Specification D1869, Federal Specification SS-P-331B.

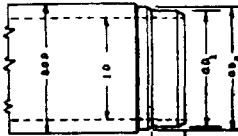
DIMENSIONS & TOLERANCES

ASBESTOS-CEMENT FLUID-TITE®
NON-PRESSURE SEWER PIPE

ASBESTOS-CEMENT FLUID-TITE®
NON-PRESSURE SEWER PIPE COUPLINGS

WEIGHT: LBS.-PER-FOOT OF SEWER PIPE WITH COUPLING					
SIZE	1500	2400	3300	4000	5000
6"	8.1	8.8	10.4		
8"	13.1	14.0	15.8		
10"	18.1	18.1	17.8	20.0	21.9
12"	23.0	23.0	24.9	26.6	29.8
14"	25.9	25.9	29.7	31.1	34.7
15"	28.4	28.4	33.1	35.2	39.3
16"	31.5	31.5	34.5	37.1	40.9
18"		40.3	45.1	50.7	53.4
20"		46.3	52.7	59.0	61.7
21"		50.1	56.7	66.3	72.5
24"		58.1	70.8	78.9	81.4

WEIGHT TABLES: PLUS OR MINUS 7%



PIPE OD 1 & OD 2
6" - 16" $\pm 0.025"$
18" - 24" $\pm 0.030"$

TOLERANCES

PIPE					
PIPE SIZE	S.O.D. INCHES	I.D. INCHES	O.D. 1 INCHES	O.D. 2 INCHES	C $\pm 1/16$ INCHES
CLASS 1500					
6"	6.96	6.00	6.66	6.80	2-3/32
8"	9.16	8.00	8.80	8.96	2-7/16
10"	11.14	10.00	10.88	11.05	2-13/16
12"	13.24	12.00	12.99	13.15	2-13/16
14"	15.32	14.00	15.07	15.23	3-1/16
15"	16.36	15.00	16.11	16.27	4.0
16"	17.42	16.00	17.15	17.31	3-1/16
CLASS 2400					
6"	7.04	6.00	6.66	6.80	2-3/32
8"	9.24	8.00	8.80	8.96	2-7/16
10"	11.14	10.00	10.88	11.05	2-13/16
12"	13.24	12.00	12.99	13.15	2-13/16
14"	15.32	14.00	15.07	15.23	3-1/16
15"	16.36	15.00	16.11	16.27	4.0
16"	17.42	16.00	17.15	17.31	3-1/16
18"	19.60	18.00	19.23	19.48	3-13/16
20"	21.66	20.00	21.29	21.54	3-13/16
21"	22.74	21.00	22.37	22.53	4-7/8
24"	25.88	24.00	25.51	25.76	3-13/16
CLASS 3300					
6"	7.22	6.00	6.66	6.80	2-3/32
8"	9.40	8.00	8.80	8.96	2-7/16
10"	11.24	10.00	10.88	11.05	2-13/16
12"	13.34	12.00	12.99	13.15	2-13/16
14"	15.44	14.00	15.07	15.23	3-1/16
15"	16.48	15.00	16.11	16.27	4.0
16"	17.52	16.00	17.15	17.31	3-1/16
18"	19.80	18.00	19.23	19.48	3-13/16
20"	21.88	20.00	21.29	21.54	3-13/16
21"	23.03	21.00	22.37	22.53	4-7/8
24"	26.12	24.00	25.51	25.76	3-13/16
CLASS 4000					
10"	11.40	10.00	10.88	11.05	2-13/16
12"	13.44	12.00	12.99	13.15	2-13/16
14"	15.56	14.00	15.07	15.23	3-1/16
15"	16.68	15.00	16.11	16.27	4.0
16"	17.64	16.00	17.15	17.31	3-1/16
18"	20.00	18.00	19.23	19.48	3-13/16
20"	22.10	20.00	21.29	21.54	3-13/16
21"	23.29	21.00	22.37	22.53	4-7/8
24"	26.36	24.00	25.51	25.76	3-13/16
CLASS 5000					
10"	11.58	10.00	10.88	11.05	2-13/16
12"	13.68	12.00	12.99	13.15	2-13/16
14"	15.82	14.00	15.07	15.23	3-1/16
15"	16.94	15.00	16.11	16.27	4.0
16"	17.90	16.00	17.15	17.31	3-1/16
18"	20.20	18.00	19.23	19.48	3-13/16
20"	22.32	20.00	21.29	21.54	3-13/16
21"	23.66	21.00	22.37	22.53	4-7/8
24"	26.60	24.00	25.51	25.76	3-13/16

NOTE: All above dimensions are subject to manufacturing tolerances.



COUPLING ID (O)
6" - 14" $\pm 0.025"$
15" - 24" $\pm 0.040"$

TOLERANCES

COUPLINGS			
PIPE SIZE	S.O.D. INCHES	I.D. INCHES	S.O.D. INCHES
CLASS 1500			
6"	6.75	4.50	8.12
8"	8.80	5.50	10.50
10"	11.05	6.25	12.75
12"	13.10	6.25	15.00
14"	15.15	6.75	16.89
15"	16.25	6.75	17.90
16"	17.27	6.75	19.08
18"	19.41	8.00	21.61
20"	21.47	8.00	24.19
21"	22.50	10.50	24.79
24"	25.69	8.00	28.08
CLASS 2400			
6"	6.75	4.50	8.12
8"	8.80	5.50	10.50
10"	11.05	6.25	12.75
12"	13.10	6.25	15.00
14"	15.15	6.75	16.89
15"	16.25	6.75	17.90
16"	17.27	6.75	19.08
18"	19.41	8.00	21.61
20"	21.47	8.00	24.19
21"	22.50	10.50	24.79
24"	25.69	8.00	28.08
CLASS 3300			
6"	6.75	4.50	8.20
8"	8.80	5.50	10.50
10"	11.05	6.25	13.13
12"	13.10	6.25	15.37
14"	15.15	6.75	17.59
15"	16.25	6.75	18.04
16"	17.27	6.75	19.81
18"	19.41	8.00	21.97
20"	21.47	8.00	24.19
21"	22.50	10.50	25.08
24"	25.69	8.00	28.49
CLASS 4000			
10"	11.05	6.25	13.13
12"	13.10	6.25	15.31
14"	15.15	6.75	17.59
15"	16.25	6.75	18.23
16"	17.27	6.75	19.81
18"	19.41	8.00	22.23
20"	21.47	8.00	24.43
21"	22.50	10.50	25.30
24"	25.69	8.00	28.75
CLASS 5000			
10"	11.00	6.25	13.13
12"	13.10	6.25	15.31
14"	15.15	6.75	17.59
15"	16.25	6.75	18.48
16"	17.27	6.75	19.81
18"	19.41	8.00	22.55
20"	21.47	8.00	24.75
21"	22.50	10.50	25.60
24"	25.69	8.00	29.13

NOTE: All above dimensions are subject to manufacturing tolerances. The 15" and 21" coupling is of different design than shown above.



PIPE DIVISION

Certain-teed Products Corporation, 25 Skippack Pike, Ambler, Pa. 19002

CTD010433