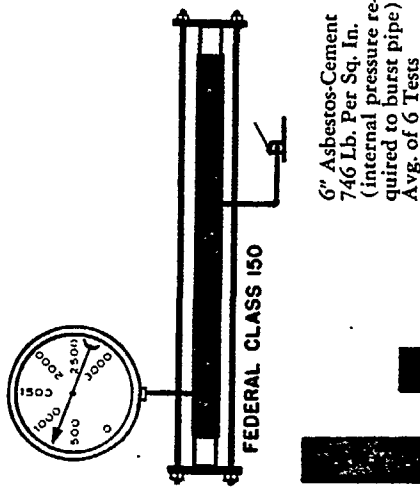


give you
adequate
bursting
pressure?

6" ASBESTOS-CEMENT
pipe, when subjected to the same test,
failed at a far lower pressure than cast
iron.



C.I. A-C.

Ratio of Cast Iron to Asbestos-Cement: 4 to 1

(2)

CAST IRON PIPE

THE MARK OF THE 100-YEAR PIPE

**CAST IRON PIPE
RESEARCH ASSOCIATION**
3440 Prudential Plaza, Chicago 1, Ill.

can the pipe in
your present
water supply system
pass a

**Comparison
Test ?**

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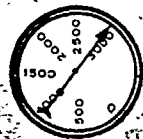
**CAST IRON PIPE
RESEARCH ASSOCIATION**
3440 Prudential Plaza, Chicago 1, Ill.

PLAINTIFF'S
EXHIBIT
JNMC-222

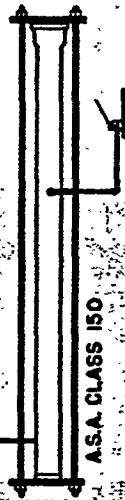
do your water mains

6" CAST IRON PIPE

When tested by an independent research laboratory (name given upon request), cast iron pipe showed remarkable ability to withstand internal pressures—its capacity was three to four times that of asbestos-cement pipe of comparable size.



6" Cast Iron 2988 Lb.
Per Sq. In. (internal
pressure required to burst
pipe) Avg. of 6 Tests



The pressure used in this test was far greater than any pipe will ever experience. But it should be noted that internal pressure alone seldom causes pipes to burst. Rather, a combined internal pressure plus external stresses may cause failure. That's why cast iron pipe is so superior: its reserve strength resists other forces, such as traffic loads and earth loads.

(1)

give you.....

6" CAST IRON PIPE

Under heavy loads, cast iron again showed its superiority. Acting as a beam, it was almost seven times as strong as asbestos-cement.

6" Cast Iron
Load 20,790 Lb.
Avg. of 6 Tests
Deflection 2.320"



Where pipe is unevenly supported or where bedding has been disturbed by underground construction, the bendability of pipe is a desirable feature. Cast iron pipe's flexibility makes it versatile enough to perform under almost any underground condition.

(3)

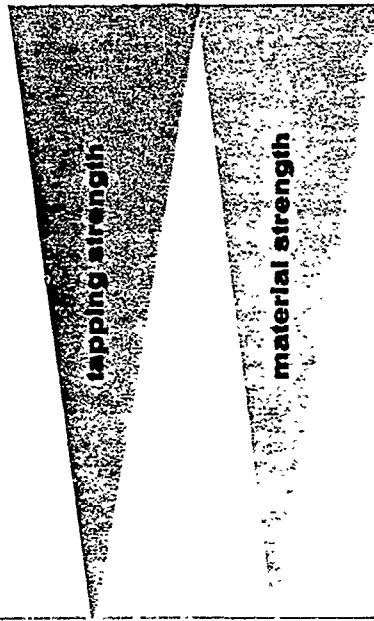
ATL

6" CAST IRON PIPE

Cast iron pipe is a standard pipe and fitting. It is made of a single piece of pipe, with no joints or seams. It is made of a single piece of pipe, with no joints or seams. It is made of a single piece of pipe, with no joints or seams.



“plus features?” the
leakproof
protection
you need?

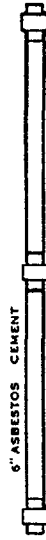


joint strength

ring strength

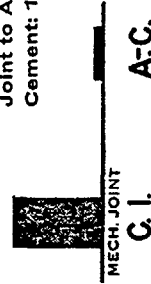
6" ASBESTOS-CEMENT

pipe joints, given the same test as cast iron's mechanical joints, withstood a pressure of only 22.6 lb. per sq. in. before movement occurred.



6" Asbestos-Cement
22.6 Lb. Per Sq. In.
Avg. of 6 Tests

Ratio of Mechanical
Joint to Asbestos-
Cement: 10 to 1



(6)

(8)

adequate
deflection?

6" ASBESTOS-CEMENT
PIPE JOINTS
WITHSTOOD A
PRESSURE OF ONLY
22.6 LB. PER SQ. IN.
BEFORE MOVEMENT
OCCURRED.



C.I. A.C.
MECH. JOINT
A.C.

(4)

of these advantages

6" CAST IRON PIPE

When shifting or settling soils cause stress on a service connection, the corporation stop may be pulled out. With asbestos-cement, this happened because the pipe failed. With cast iron pipe, the corporation stop failed—*not* the pipe!

6" CAST IRON PIPE

Beam loads were applied to strips cut from cast iron and asbestos-cement pipe to determine the strength of the material of which the pipe was made. Cast iron withstood a load of 494 lb., compared to 72 lb. for asbestos-cement.

6" CAST IRON PIPE

Under ordinary working conditions (pipe restrained from movement), pipe joints must resist failure. Cast iron's mechanical joint solved this problem, taking a pressure of 2870 lb. per sq. in.—or more than five times that of asbestos-cement.

6" CAST IRON PIPE

When pipe rests on supports such as rock, blocking or a vault wall, it must resist crushing. A 12" length of 6" cast iron pipe withstood an average of 17,900 lb. over 12 tests; asbestos-cement averaged only 6480 lb.

Cast iron's record of dependability and long, maintenance-free service remains a challenge to all other kinds of water pipe. In fact, a survey of the 50 largest cities in the United States just concluded shows that over 90% of the total footage in service is cast iron pipe.

"Bottle-tight" joints . . . ability to withstand heavy traffic loads . . . and ease of installation are just a few of the reasons that cast iron stands so far above other pipe.

Can your present water supply pipe meet **EVERY** requirement necessary for dependable, trouble-free service? If not, you will want to consider the pipe that **DOES** . . . the pipe for which there is no substitute: cast iron!

All test data in this folder are based on independent research laboratory tests of cast iron and asbestos-cement pipe of comparable size. Name of laboratory given upon request.

*See if your present
water mains can measure up
TO CAST IRON'S STANDARDS!*

- ✓ Assured, proven long life
- ✓ Corrosion resistance
- ✓ Rugged, inherent toughness
- ✓ Strong, permanent tight joints
- ✓ Assured high flow capacity
- ✓ Low maintenance
- ✓ Low annual cost
- ✓ Safety factors
- ✓ Ease of installation
- ✓ Ability to thaw when frozen

[illegible]