



**STATE OF DELAWARE
OFFICE OF THE STATE FIRE MARSHAL**

**JOHN W. RUDD
STATE FIRE MARSHAL**

**DOVER OFFICE
HEADQUARTERS**

Material and Test Certificate for Underground Pipe

Upon completion of work, inspection and tests are to be witnessed by the owner's representative. All defects are to be corrected and the system is to be left in service before contractor's personnel leaves the job site. This certificate is to be completed, signed by the installing contractor and the owner's representative, and submitted to the State Fire Marshal's Office prior to the final inspection.

Project name		Date:
Project address		
Piping supplies what buildings:		
Underground pipe and joints	Pipe conforms to what standard?	
	Fittings conform to what standard?	

Flushing: Flow the required rate until water is clear as indicated by no foreign matter collecting in burlap bags at the flow outlets. Flow at the maximum available or that rate shown below, whichever is less.

Pipe Size	4 inch	6 inch	8 inch	10 inch	12 inch
Flow Rate	390 GPM	880 GPM	1560 GPM	2440 GPM	3520 GPM

Flushing Tests	Underground piping flushed according to what standard?					
	How was flushing flow obtained			Through what type opening		
	Public water <input type="checkbox"/>	Tank or reservoir <input type="checkbox"/>	Fire pump <input type="checkbox"/>	Hydrant butt <input type="checkbox"/>	Open pipe <input type="checkbox"/> Size	
	Lead-ins flushed according to what standard?					
	How was flushing flow obtained			Through what type opening		
	Public water <input type="checkbox"/>	Tank or reservoir <input type="checkbox"/>	Fire pump <input type="checkbox"/>	Y connection to flange and spigot <input type="checkbox"/>	Open pipe <input type="checkbox"/>	

Hydrostatic test is to be made for 2 hours at 200 psi or 50 psi above the normal static pressure, whichever is greater.

Hydrostatic Test	All new underground piping hydrostatically tested at:		joints covered	
	___ psi for ___ hours		Yes <input type="checkbox"/>	No <input type="checkbox"/>

Leakage: New pipe laid with rubber gasketed joints shall have little or no leakage at the joints. Leakage at the joints limited to 1/2 gal. per hour per 100 joints irrespective of pipe diameter. If leakage is not distributed over all joints, installation is unacceptable and the necessary repairs made. Allowable leakage can be increased 1 ounce per inch valve diameter for each metal seated valve isolating the test section.

Leakage tests	Total amount of leakage measured	gallons	hours
	Allowable leakage	gallons	hours

Hydrants	Number installed	Type and Make	Operated satisfactorily	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>

Control Valves	Water control valves left fully opened?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Hose threads of the fire department connection and hydrants compatible with fire department?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Tests witnessed by:

Signature of property owner or designee:	Title	Date:
Name of installing contractor and signature:	Title	Date: