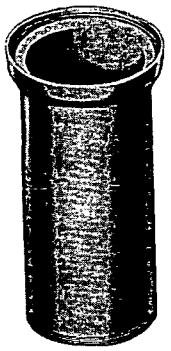
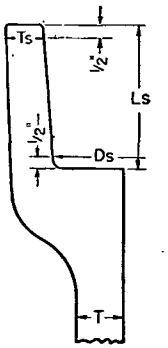
National Clay Pipe Manufacturers, Inc.

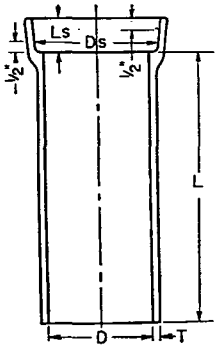
Washington 6, D. C.

VITRIFIED CLAY PIPE FOR UNDERFLOOR HEATING DUCTS

Conforming to *ASTM* Specifications C-13







Size, in. (D)	Laying Length (L)		Maximum Difference in Length of Two Opposite Sides, in.	Outside Diameter of Barrel, in.		Inside Diameter of Socket at ½ in. Above Base, in. (Ds)		Depth of Socket, in. (Ls)		Thickness of Barrel, in. (T)		Thickness of Socket at ½ in. from Outer End, in. (Ts)	
	Nominal, ft	Limit of Minus Variation,* in. per ft of length		Min.	Max.	Min.	Max.	Nominal	Min.	Nominal	Min.	Nominal	Min.
4	2, 2½, 3	¼	5/16	4 7/8	5 1/8	5 3/4	6 1/8	1 3/4	1 1/2	½	7/16	7/16	3/8
6	2, 2½, 3	¼	3/8	7 1/16	7 1/16	8 3/16	8 5/8	2 1/4	2	5/8	9/16	½	7/16
8	2, 2½, 3	¼	7/16	9 1/4	9 3/4	10 ½	11	2 ½	2 1/4	3/4	1 1/16	9/16	½
10	2, 2½, 3	¼	7/16	11 ½	12	12 3/4	13 1/4	2 5/8	2 3/8	7/8	1 3/16	5/8	9/16

* There is no limit for plus variation.

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Storage

There are no storage problems, because vitrified clay pipe heating ducts can be exposed to weather in any season.

Performance in Use

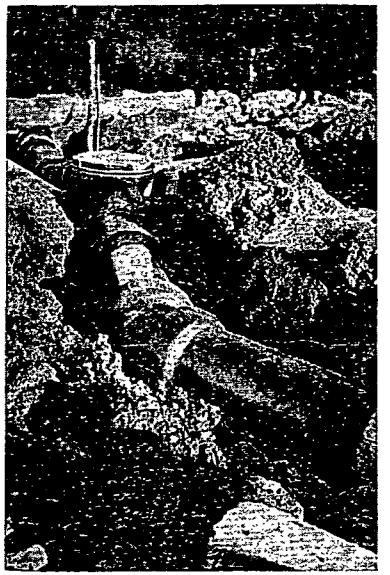
Clay pipe ducts have such advantages as permanence, resistance to shock loads, and resistance to corrosion from lime in the concrete. They create no odor as warm air flows through them during furnace operation. The smooth inner surface eliminates turbulence and minimizes register noise. The clean smooth surface of the Vitrified Clay Duct is free from dust.

Design Data

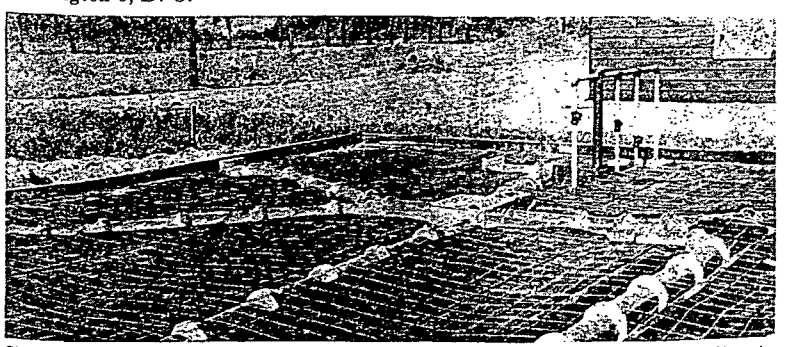
Detailed design recommendations have been prepared by the *National Warm Air Heating and Air Conditioning Association* and are contained in the new revised edition of *Manual 4* (*$1.50*) and *Manual 9* (*$.75*), which are available from the association's offices, 145 Public Square, Cleveland 14, Ohio. Manual No. 4 describes warm air perimeter heating systems as applied to structures without basements. Manual No. 9 contains detailed information on design and installation of warm air winter air conditioning systems and all necessary engineering data, tables, and recommendations for selection of the proper heating equipment.

Case Histories

For data on actual case histories of Clay Pipe heating, ventilating, and air conditioning duct installations in homes, schools, churches, hospitals, factories, gasoline stations, garages, stores, and theaters, write the National Clay Pipe Manufacturers, Inc., 1820 "N" St., N.W., Washington 6, D. C.



Large diameter clay pipe heating duct and plenum connection used in commercial structure. This type of duct, when installed in garages and maintenance or repair shops, can be used for heating, ventilating, air conditioning, and removal of exhaust gases. When the registers are located under the windows, the warm air will blanket the glass area and eliminate frosted and wet windows, sills, and walls.



Clay Pipe Heating Ducts ready for the concrete pouring. Wire mesh may be installed at the contractor's discretion to reinforce the floor slab.