# 1 Scope

This specification covers the general requirements of corrugated high density polyethylene drainage tubing for use in various land drainage applications.

Pipe shall be manufactured from high density polyethylene resin, which shall meet or exceed the requirements of cell classification 324420C as defined in ASTM D3350. Resistant to a wide range of soil acidity: pH 1.25 to 14.

Material

# 3 Joining Systems

# 4 Pipe Stiffness

The pipe shall be joined with snap, insert or split couplers.

Drainage tubing shall have minimum pipe stiffness of 210 kPa at 5% deflection when tested in accordance when tested in accordance with ASTM D2412.

# 5 Hydraulics

# 6 Structural Design

The following Manning's 'n' values shall be used to calculate flow. See CPPA Technical Hydraulic booklet available from Ideal Pipe or the Plastics Pipe Institute.

I.D. 50 75 100 150 200 (2") (3")mm (4")(6")(8").016 .017 'n' .016 .017 .018 Structural design shall conform to the industry accepted procedures found in the Corrugated Polyethylene Pipe Association's technical booklets from Ideal Pipe or the Plastics Pipe Institute.

#### 7 Applicable Standards

# 8 Options

# ASTM F405. F667 OPSS 1840; 405

Ideal drainage tubing is available with a variety of perforation patterns and engineered geosynthetic filters for different soil types.

#### TILE CALCULATOR Spacing (ft.) 20 30 45 50 55 60 66 Feet/Acre 2205 1470 1320 1089 981 872 799 726 660 M/Ha 1661 1107 994 820 739 657 602 547 497

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# Ideal Subdrain Drainage Tubing



# 9 Pipe Dimensions

Ideal drainage tubing is available in diameters from 50 mm (2") to 375 mm (15") and shipped in selective coil sizes, 50 ft. to 4000 ft. or length sections of 20 ft. Nominal pipe size is based on inside diameter of the pipe. See below: