



When clearance is a problem, County Material's gasketed HE Pipe is the Solution

Gasketed HE Pipe

A Time-Tested & Trusted Drainage Solution

Reinforced concrete pipe offers an impressive record of strength and durability, and is the most economical and reliable choice for drainage materials available today. County Materials' HE concrete pipe is produced with tongue and groove joints for packing with butyl gaskets to keep silt or soil from passing through the joint. HE or horizontal elliptical concrete pipe is recommended for installations where:

- height or width restrictions exist
- greater capacity is required at shallow depths of flow (horizontal elliptical)
- higher flushing velocities are required at low flows (vertical elliptical)
- very high fills are encountered (vertical elliptical)

Proven Performance

County Materials' gasketed HE pipe meets ASTM C-507 specifications for low-clearance pipe and has been successfully used on numerous state, county and local municipal projects throughout Wisconsin, Minnesota, Illinois and Iowa.

Environmentally Friendly

Storm sewers carry rainwater, surface water, ground water, cooling water, or other similar flows to a point of safe discharge. They help protect much of the land we use for agriculture, industry, transportation, residences and recreation. Gasketed HE pipe prevents the infiltration of silts and sands in the storm sewer line and reduces costly maintenance issues by ensuring cleaner ponds, lakes and rivers.

Suitable for a variety of applications

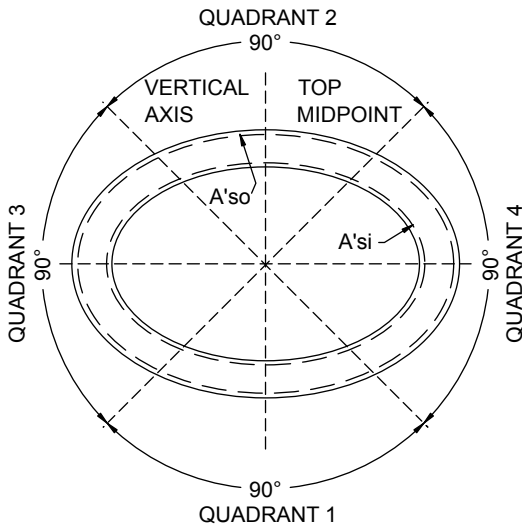
- storm drains
- culverts
- sanitary sewers
- underground stormwater retention structures
- pedestrian undercrossings (vertical elliptical)
- groundwater recharge systems
- jacked or tunneled installations

Improved Productivity & Efficient Handling

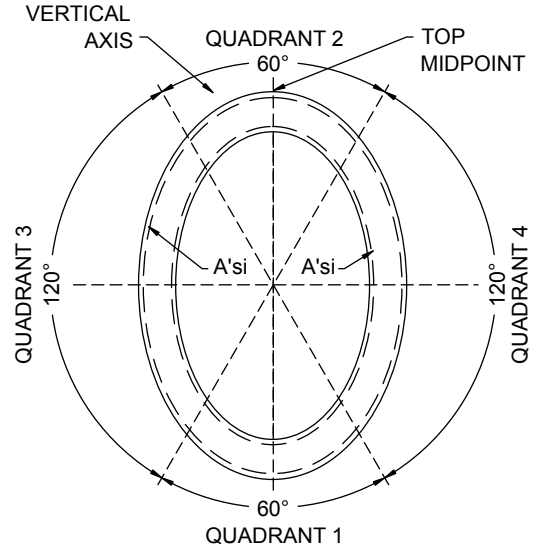
Work smarter, not harder. Gasketed elliptical pipe assures maximum joint security and allows workers to place pipe faster and with less effort by eliminating messy or time-consuming lubricant application.

Gasketed HE Pipe

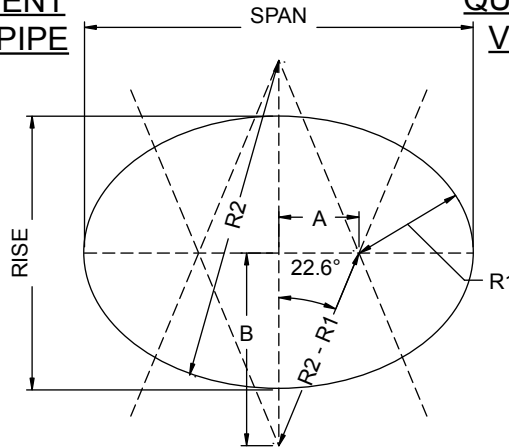
Meets ASTM C-507 specifications for low-clearance pipe.



**QUADRANT REINFORCEMENT
HORIZONTAL ELLIPTICAL PIPE**



**QUADRANT REINFORCEMENT
VERTICAL ELLIPTICAL PIPE**



SYMETRICAL ABOUT AXES

ASTM C-507 EQUIVALENT ELLIPTICAL PIPE - WITH GASKET JOINT

EQUIVALENT ROUND ID	RISE X SPAN, INCHES	FULL FLOW WATER AREA, FT	RISE, INCHES	SPAN, INCHES	A, INCHES	B, INCHES	R1, INCHES	R2, INCHES	DEGREES	WALL THICKNESS INCHES	WEIGHT PER FOOT
18"	14 X 23	1.83	14 $\frac{1}{4}$	22 $\frac{3}{4}$	5 $\frac{3}{8}$	12 $\frac{7}{8}$	6	20	22.6	2 $\frac{3}{4}$	195
24"	19 X 30	3.28	19 $\frac{1}{4}$	30 $\frac{1}{4}$	6 $\frac{7}{8}$	16 $\frac{5}{8}$	8 $\frac{1}{4}$	26 $\frac{1}{4}$	22.6	3 $\frac{1}{4}$	300
30"	24 X 38	5.10	24	37 $\frac{3}{4}$	8 $\frac{5}{8}$	20 $\frac{3}{4}$	10 $\frac{1}{4}$	32 $\frac{3}{4}$	22.6	3 $\frac{3}{4}$	430
36"	29 X 45	7.36	28 $\frac{3}{4}$	45 $\frac{1}{2}$	10 $\frac{1}{2}$	24 $\frac{7}{8}$	12 $\frac{1}{4}$	39 $\frac{1}{4}$	22.6	4 $\frac{1}{2}$	625
42"	34 X 53	10.2	34	53 $\frac{1}{4}$	12 $\frac{1}{8}$	29	14 $\frac{1}{2}$	46	22.6	5	850
48"	38 X 60	12.9	38 $\frac{1}{4}$	60	18 $\frac{1}{2}$	32 $\frac{3}{8}$	16 $\frac{1}{2}$	51 $\frac{1}{2}$	22.6	5 $\frac{1}{2}$	1090
54"	43 X 68	16.7	43 $\frac{1}{2}$	68	15 $\frac{1}{4}$	36 $\frac{3}{4}$	18 $\frac{3}{4}$	58 $\frac{1}{2}$	22.6	6	1350
60"	48 X 76	20.5	48 $\frac{1}{4}$	75 $\frac{1}{2}$	17	40 $\frac{7}{8}$	20 $\frac{3}{4}$	65	22.6	6 $\frac{1}{2}$	1475
72"	58 X 91	29.4	57 $\frac{3}{4}$	90 $\frac{1}{2}$	20 $\frac{1}{2}$	49 $\frac{1}{8}$	24 $\frac{3}{4}$	78	22.6	7 $\frac{1}{2}$	2040
90"	72 X 113	46.1	72 $\frac{1}{2}$	113	25 $\frac{1}{2}$	61	31	97 $\frac{1}{4}$	22.6	9	3050



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