



SMU Approved Gravity Storm Pipe

Pipe ⁽⁷⁾	Material ⁽⁵⁾	Joints	Installation	Bedding	Rating	Allowable Cover (feet)												
						Min.	Maximum											
						Size - inches												
						6" ⁽¹⁾	8" ⁽¹⁾	10" ⁽¹⁾	12"	18"	24"	30"	36"	42"	48"	54"	60" ⁽⁶⁾	
DIP	ASTM A746	AWWA C111 Push On	AWWA C600 Type 4	SMU Detail	Class 50 Class 51	3 ⁽²⁾					22	20	19	18	17	17		
RCP	ASTM C76 ODOT 706.02	ASTM C443 Elastomeric seals	ASTM C1479	SMU Detail	Class III Class IV	3	47	34	28	28	28	28	25	24	23	22		
PVC SDR 35 ⁽³⁾	ASTM D3034	ASTM D3212 Elastomeric seals	ASTM D2321	ODOT CMS Class II		4	14	14	14	14								
PVC SDR 35 ⁽³⁾	ASTM F679	ASTM D3212 Elastomeric seals	ASTM D2321	ODOT CMS Class II		4				14	14							
PVC "Ultra Rib" ⁽³⁾	ASTM F794	ASTM D3212 Elastomeric seals	ASTM D2321	ODOT CMS Class II		4				14	14	14						
PVC "Vylon" ⁽³⁾	ASTM F1803	ASTM D3212 Elastomeric seals	ASTM D2321	ODOT CMS Class II		4					14	14	14	14	14	14	14	14
HDPE ⁽⁴⁾	ASTM F2648	ASTM D3212 Elastomeric seals	ASTM D2321	ODOT CMS Class II		4					14	14	14	14	14	14	14	14
HDPP ⁽⁴⁾	ASTM F2764	ASTM D3212 Elastomeric seals	ASTM D2321	ODOT CMS Class II		4						14	14	14	14	14	14	14
SRPE ⁽⁴⁾	ASTM F2562	ASTM D3212 Elastomeric seals	ASTM D2321	ODOT CMS Class II		4							25	25	25	25	25	25

Acronyms

ASTM = American Society of Testing & Materials
 AWWA = American Water Works Association
 CMS = Construction & Materials Specifications
 DIP = Ductile Iron Pipe
 HDPE = High Density Polyethylene
 HDPP = High Density Polypropylene
 ODOT = Ohio Department of Transportation
 PVC = Polyvinyl Chloride
 SRPE = Steel Reinforced Polyethylene

Footnotes

(1) Minimum allowable storm main size is 12" unless approved by SMU.
 (2) Below three (3) feet of cover shall be designed for loading requirements per manufacturer standards.
 (3) PVC pipe not permissible for driveway or bikeway uses.
 (4) HDPE, HDPP, & SRPE pipe not permissible for use within the right-of-way or under pavement.
 (5) Other pipe materials must be approved on a case-by-case basis by the City Stormwater Management Engineer prior to their use.
 (6) Pipe sizes larger than 60" must be approved by SMU on a case-by-case basis.
 (7) The use of curved or elliptical storm sewer pipe is not permitted unless permission is given by the City Stormwater Management Engineer or the engineer's designee.