## Vitrified Clay Pipe gladdingmcbean.com



Today’s Clay Pipe Built For Tomorrow

# "Vitrified Clay Pipe is the only pipe which offers both a design and service life exceeding 100 years." 

## Introduction

Gladding, McBean is a specialty manufacturer of Vitrified Clay Pipe products which are used by contractors and agencies throughout the world.Our state-of-the-art manufacturing processes and technology produces aceramic product which has great strength, high density and water tightjointing. Vitrified Clay Pipe is the most inert of all sanitary sewer pipe materials. It does not have gradual reduction in strength over time as withresin type products. Chemical resistance likewise does not deteriorate.Vitrified Clay Pipe is the only pipe which offers both a design and service life exceeding 100 years. We have shown standard stock items herein. We typically manufacture nonstock items and non-standard sizes by special order.

Please contact our staff for specific dimension information as all dimensions shown herein aresubject to change without notice. Our mission is to provide the optimum level of value, service and qualityproducts to our customers. Our experienced and knowledgeable staff are here to assist in the design and/or installation of your projects.

## Standard Bell \& Spigot

| D1 | L | Weight plf | D2 | D3 | D4 | D5 | T1 | T2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4" | $1^{\prime}, 2^{\prime}, 4^{\prime}$ | 11 lb | 5.3125" | 6.5" | 7.625" | 1.5" | .6875" | .5" |
| $6{ }^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 21 lb | 7.87" | 9.05" | 10.43" | 2.33" | 7.87" | 0.67" |
| 8" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 30 lb | 10.02" | 11.49" | 13.09" | 2.31" | .98" | 0.78" |
| $10^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 44 lb | 12.47" | 14.07" | 15.87" | 2.61" | 1.10" | 0.92" |
| 12" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 54 lb | 14.52" | 15.96" | 18.51" | 2.84" | 1.26" | 0.99" |
| $15^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 90 lb | 18.30" | 20.30" | 22.96" | 2.81" | 1.71" | 1.28" |
| 18 " | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 141 lb | 21.87" | 23.90" | 24.47" | 3.22" | 2.03" | 1.50" |
| 21" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 168 lb | 25.78" | 27.78" | 30.78" | 3.73" | 2.36" | 1.60" |
| 24 " | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 230 lb | 28.85" | 30.78" | 34.06" | 3.67" | 2.47" | 1.71" |
| 27" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 290 lb | 32.77" | 34.92" | 38.26" | 3.97" | 2.99" | 1.76" |
| $30^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 333 lb | 36.06" | 38.26" | 42.18" | 3.90" | 3.13" | 2.02" |
| $33^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 415 lb | 39.52" | 41.74" | 46.43" | 4.14" | 3.23" | 2.27" |


| MINIMUM 3-EDGE BEARING STRENGTH |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Nominal Pipe Size | Standard Lengths | ASTM C-700 <br> Extra Strength <br> lb.f/ <br> (kN/ <br> linear ft . linear m ) | SSPWC "Green Book" <br> Extra Strength <br> lb.f/ <br> (kN/ <br> linear ft . linear m ) | SSPWC "Green Book" <br> High Strength <br> lb.f/ <br> (kN/ <br> linear ft . linear m) |
| 4" | $1^{\prime}, 2^{\prime}, 4^{\prime}$ | 2000 (29.2) | 2000 (29.2) | 2000 (29.2) |
| 6" | $1^{\prime}, 2^{\prime}, 5^{\prime}$ | 2000 (29.2) | 2000 (29.2) | 2200 (32.1) |
| 8" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 2200 (32.1) | 2200 (32.1) | 2400 (35.0) |
| 10" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 2400 (35.0) | 2400 (35.0) | 2600 (37.9) |
| 12" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 2600 (37.9) | 2600 (37.9) | 2900 (41.7) |
| 15" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 2900 (42.3) | 3100 (45.2) | 3400 (49.7) |
| 18" | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 3300 (48.2) | 3600 (52.5) | $4000 \quad$ (57.8) |
| 21 " | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 3850 (56.2) | 4200 (61.3) | 4600 (67.4) |
| 24 " | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | $4400 \quad$ (64.2) | 4800 (70.2) | 5300 (77.2) |
| $27^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | $4700 \quad$ (68.6) | 5200 (75.9) | 5700 (83.3) |
| $30^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | $5000 \quad$ (73.0) | 5500 (80.3) | 6100 (88.3) |
| $33^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | $5500 \quad$ (80.3) | 5800 (84.6) | 6400 (93.0) |
| $36 "$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 6000 (87.6) | 6300 (91.9) | 6900 (101.1) |
| 39" | $1^{\prime}, 2^{\prime}, 5.5^{\prime}$ | 6600 (96.3) | 6600 (96.3) | 7300 (105.9) |
| 42" | $1^{\prime}, 2^{\prime}, 5.5{ }^{\prime}$ | 7000 (102.2) | 7000 (102.2) | 7700 (112.4) |

NOTE: 1. The above dimensions are average measurements and do not reflect the actual tolerances. 2 . The above weights are average weights and do not reflect the actual tolerances. 3. The above pipe lengths are standard stock lay lengths. We also regularly manufacture custom lengths.

## Standard Perforated Pipe

Cross Section For Perforation Location



Note: Perforated pipe 10 " or larger, available with full bell only.

| MINIMUM 3-EDGE BEARING STRENGTH |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Nominal <br> Pipe Size | Standard <br> Lengths | Approximate <br> Weight | ASTM C-700 <br> lb.f/linear ft. | Extra Strength <br> (kN/linear m) |
| $4^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 4^{\prime}$ | 11 lb | 2000 | $(29.2)$ |
| $6^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 5^{\prime}$ | 21 lb | 2000 | $(29.2)$ |
| $8^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 30 lb | 2200 | $(32.1)$ |
| $10^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 44 lb | 2400 | $(35.0)$ |
| $12^{\prime \prime}$ | $1^{\prime}, 2^{\prime}, 6^{\prime}$ | 54 lb | 2600 | $(37.9)$ |

## Bends

Available in $4 "-42 "$. Mitered bends having a $1 / 16$ bend (or $22-1 / 2^{\circ}$ ) are available in $6^{\prime \prime}-42$ ".


| D | A | B | C | E | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $6{ }^{\prime \prime}$ | 6-1/4" | 8-1/2" | 3-1/4 | 4" | 7-7/8" | 7-1/2" | 9-1/4" | 8" | 8" | 12" |
| 8" | 7-5/8" | 8" | 3-5/8" | 4" | $10 "$ | 8" | 9-1/4" | 8" | 9-1/4" | 14-1/4" |
| 10" | 8-5/8" | $9{ }^{\prime \prime}$ | 3-5/8" | 4" | 12-1/2" | 11-1/2" | 10-1/4" | 8-5/8" | 10-1/4" | 16-1/4" |
| 12" | 9-3/4" | 9-3/4" | 3-7/8" | 4" | 14-1/2" | 12-5/8" | 11-3/4" | 9-3/4" | 11-3/4" | 19-1/4" |
| 15" | 12-3/4" | 11-5/8" | 5" | 4" | 18-1/4" | 19-1/8" | 17-1/8" | 12-3/4" | $17{ }^{\prime \prime}$ | 26-1/8" |
| 18" | 14" | 14" | 5" | 5" | 21-7/8" | 23 " | 19-1/2" | 14" | 19-1/2" | 30-1/2" |
| 21" | $16 "$ | 16" | 5-1/2" | 5-1/2" | 25-1/2" | 26-5/8" | 22-1/8" | 16" | 22-1/8" | 34-7/8" |
| 24 " | 18" | 18" | $6 "$ | $6 "$ | 29" | 30 " | 24-1/2" | 18" | 24-3/4" | 39-1/4" |
| $37{ }^{\prime \prime}$ | 20-1/2" | 20-1/2" | 6-1/2" | 6-1/2" | 33-3/4" | 34-1/2" | 28 " | 20-1/2" | 28 " | 44-7/8" |
| 30" | 22 " | 22 " | 7" | 7" | 36" | 36-3/4" | 30-1/4" | $22^{\prime \prime}$ | 30-1/4" | 48-1/4" |
| 33 " | 23-7/8" | 23-7/8" | 7-1/2" | 7-1/2" | 39-1/2" | 40-1/4" | 32-5/8" | 23-7/8" | 32-5/8" | 52-3/8" |
| $36 "$ | 25-5/8" | 25-5/8" | 8" | 8" | 42-5/8" | 43-1/4" | 35 " | 25-5/8" | $35{ }^{\prime \prime}$ | 56-3/8" |
| 39" | 28 " | $28^{\prime \prime}$ | 8-1/2" | 8-1/2" | 47" | 47-1/2" | 37-1/2" | $28^{\prime \prime}$ | 37-1/2" | 61 " |
| 42" | 29-3/4" | 29-3/4" | $9{ }^{\prime \prime}$ | $9{ }^{\prime \prime}$ | 50-1/4" | 50-1/2" | 40-1/2" | 29-3/4" | 40-1/2" | 63-1/4" |

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Wyes

Available in $4 "-42^{\prime \prime}$. Branches are made approximately $45^{\circ}$ to the barrel. Standard wyes $4 "-21^{\prime \prime}$ shown below.


| D1\&D2 | D3 | A | B | Barrel Diameter | Spur <br> Diameter | A | B |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4" | 4" | $11^{\prime \prime}$ | 9-11/16" | $24^{\prime \prime}$ | $6{ }^{\prime \prime}$ | 25-5/8" | 27-5/8" |
| 6" | 4" | 12-5/16" | 11-1/2" | 24 " | 8" | 27-5/8" | 28-3/4" |
| 6" | $6{ }^{\prime \prime}$ | 14-5/16" | 12-9/16" | $24^{\prime \prime}$ | $10^{\prime \prime}$ | 29-1/8" | 30-3/8" |
| 8" | 4" | 13-3/8" | 13" | 24 " | 12" | 31-1/8" | 31-3/4" |
| 8" | $6{ }^{\prime \prime}$ | 15-3/8" | 14" | $24^{\prime \prime}$ | 15" | 32-1/8" | 33-5/8" |
| 8" | 8" | 16-7/8" | 15-1/8" | 27" | $6{ }^{\prime \prime}$ | 28-1/8" | 30-1/8" |
| $10^{\prime \prime}$ | 4" | 14-3/8" | 14-9/16" | 27" | 8" | 30-1/8" | 31-1/4" |
| $10^{\prime \prime}$ | $6{ }^{\prime \prime}$ | 16-3/8" | 15-5/8" | 27" | 10" | 31-5/8" | 32-7/8" |
| $10^{\prime \prime}$ | 8" | 18-3/8" | 16-3/4" | $27{ }^{\prime \prime}$ | $12^{\prime \prime}$ | 33-5/8" | 34-1/4" |
| $10^{\prime \prime}$ | 10" | 20-3/8" | 18-3/8" | 27" | $15^{\prime \prime}$ | 34-5/8" | 36-1/8" |
| $12^{\prime \prime}$ | $4 "$ | 15-3/4" | 16-1/4" | $30^{\prime \prime}$ | 6" | 30-1/8" | 32-7/16" |
| 12" | $6{ }^{\prime \prime}$ | 17-5/8" | 17-1/4" | $30^{\prime \prime}$ | 8" | 32-1/8" | 33-1/2" |
| $12^{\prime \prime}$ | 8" | 19-5/8" | 19" | 30" | $10^{\prime \prime}$ | 34-1/8" | 35-1/4" |
| 12" | 10" | 21-5/8" | 20" | 30" | 12" | 35-5/8" | 36-1/2" |
| 12" | 12" | 23-1/8" | 21-3/8" | 30" | $15^{\prime \prime}$ | 36-1/8" | 38-7/16" |
| $15^{\prime \prime}$ | $6{ }^{\prime \prime}$ | 19-5/8" | 19-7/8" | 33" | $6{ }^{\prime \prime}$ | 32-1/2" | 34-7/8" |
| 15" | 8" | 21-5/8" | 21" | 33" | $8{ }^{\prime \prime}$ | $34 "$ | $36 "$ |
| $15^{\prime \prime}$ | $10 "$ | 22-1/8" | 22-5/8" | 33" | $10^{\prime \prime}$ | $36 "$ | 37-5/8" |
| 15" | 12" | 25-1/8" | $24^{\prime \prime}$ | 33" | $12^{\prime \prime}$ | $37-1 / 2^{\prime \prime}$ | $39^{\prime \prime}$ |
| 15" | 15 " | 26-5/8" | 25-7/8" | $33^{\prime \prime}$ | $15^{\prime \prime}$ | $37-1 / 2^{\prime \prime}$ | 40-7/8" |
| 18" | $6 "$ | 21-7/8" | 22-11/16" | $36 "$ | $6{ }^{\prime \prime}$ | 34-1/2" | 37-3/16" |
| 18" | 8" | 23-7/8" | 23-13/16" | $36^{\prime \prime}$ | 8" | $36-1 / 2^{\prime \prime}$ | 38-5/16" |
| $18{ }^{\prime \prime}$ | 10" | 25-7/8" | 25-7/16" | $36 "$ | $10^{\prime \prime}$ | 38-1/2" | 39-15/16" |
| 18" | 12" | 26-7/8" | 26-13/16" | $36^{\prime \prime}$ | $12^{\prime \prime}$ | $39^{\prime \prime}$ | 41-5/16" |
| 18" | $15^{\prime \prime}$ | 29-7/8" | 28-11/16" | $36^{\prime \prime}$ | $15^{\prime \prime}$ | $39^{\prime \prime}$ | 43-3/8" |
| $21^{\prime \prime}$ | $6 "$ | 23-7/8" | 25-1/16" | 39" | $6{ }^{\prime \prime}$ | 36-3/8" | 40 " |
| $21^{\prime \prime}$ | 8" | 25-7/8" | 26-3/16" | 39" | 8" | 38-3/8" | 41-1/8" |
| $21^{\prime \prime}$ | 10" | 27-7/8" | 27-13/16" | 39" | $10^{\prime \prime}$ | $40-3 / 8{ }^{\prime \prime}$ | 42-3/4" |
| $21^{\prime \prime}$ | 12" | 29-7/8" | 29-3/16" | 39" | $12^{\prime \prime}$ | $41-3 / 8{ }^{\prime \prime}$ | 44-1/8" |
| $21^{\prime \prime}$ | 15 " | 30-7/8" | 31-1/16" | 39" | $15^{\prime \prime}$ | 41-3/8" | 46 " |

Available in $4 "-42^{\prime \prime}$. Branches are made approximately $90^{\circ}$ to the barrel. Standard tees $4 "-21^{\prime \prime}$ shown below.


| D1\&D2 | D3 | A | B | D1\&D2 | D3 | A | B |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4" | 4" | 6" | 6-1/16" | $24^{\prime \prime}$ | 6" | 8-5/8" | 17-13/16" |
| 6" | $4 "$ | 6-1/16" | 7-5/16" | 24 " | 8" | 9-5/8" | 17-7/8" |
| 6" | $6{ }^{\prime \prime}$ | 7-1/16" | 7-1/8" | $24^{\prime \prime}$ | $10^{\prime \prime}$ | 11-1/8" | 18-3/8" |
| 8" | 4" | 6-3/8" | 8-3/8" | 24 " | 12" | 12-1/8" | 18-5/8" |
| 8" | $6 "$ | 7-3/8" | 8-3/16" | $24^{\prime \prime}$ | 15" | 14-1/8" | 18-5/8" |
| 8" | 8" | 8-3/8" | 8-1/4" | $27^{\prime \prime}$ | $6{ }^{\prime \prime}$ | 9-1/8" | 19-9/16" |
| 10" | 4" | 6-3/8" | 9-1/2" | $27^{\prime \prime}$ | 8" | 10-5/8" | 19-5/8" |
| $10^{\prime \prime}$ | $6{ }^{\prime \prime}$ | 7-7/8" | 9-5/16" | $27^{\prime \prime}$ | $10^{\prime \prime}$ | 11-5/8" | 20-1/8" |
| 10" | 8" | 8-7/8" | 9-3/8" | 27" | 12" | 12-5/8" | 20-3/8" |
| 10" | $10^{\prime \prime}$ | 9-7/8" | 9-7/8" | $27^{\prime \prime}$ | 15" | 14-1/8" | 20-3/8" |
| 12" | $4{ }^{\prime \prime}$ | 6-5/8" | 10-5/8" | $30 "$ | $6 "$ | 9-5/8" | 21-3/16" |
| 12" | $6^{\prime \prime}$ | 8-1/8" | 10-7/16" | $30^{\prime \prime}$ | 8" | 10-5/8" | 21-1/4" |
| 12" | 8" | 9-1/8" | 10-1/2" | $30^{\prime \prime}$ | $10^{\prime \prime}$ | 11-5/8" | 21-3/4" |
| 12" | 10" | 10-1/8" | 11" | $30^{\prime \prime}$ | 12" | 13-1/8" | $22^{\prime \prime}$ |
| 12" | 12 " | 11-1/8" | 11-1/4" | $30^{\prime \prime}$ | 15" | 14-5/8" | $22^{\prime \prime}$ |
| 15" | 6" | 8-1/8" | 12-5/16" | $33^{\prime \prime}$ | 6" | 10" | 22-15/16" |
| 15" | 8" | 9-1/8" | 12-3/8" | 33" | 8" | $11^{\prime \prime}$ | 23 " |
| 15" | 10" | 10-1/8" | 12-7/8" | $33^{\prime \prime}$ | 10" | 12 " | 23-1/2" |
| 15" | 12" | 11-5/8" | 13-1/8" | $33^{\prime \prime}$ | 12" | 13" | 23-3/4" |
| 15" | 15 " | 13-1/8" | 13-1/8" | $33^{\prime \prime}$ | 15 " | $15^{\prime \prime}$ | 23-3/4" |
| 18" | $6^{\prime \prime}$ | 8-3/8" | 14-5/16" | $36^{\prime \prime}$ | 6" | 10-1/2" | 24-9/16" |
| $18{ }^{\prime \prime}$ | 8" | 9-3/8" | 14-3/8" | $36^{\prime \prime}$ | 8" | 11-1/2" | 24-5/8" |
| $18{ }^{\prime \prime}$ | 10" | 10-3/8" | 14-7/8" | $36 "$ | 10" | 12-1/2" | 25-1/8" |
| 18" | 12" | 11-7/8" | 15-1/8" | $36^{\prime \prime}$ | 12" | 13-1/2" | 25-3/8" |
| 18" | 15" | 12-7/8" | 15-1/8" | 36" | 15" | 15-1/2" | 25-3/8" |
| 21" | $6^{\prime \prime}$ | 8-3/8" | $16^{\prime \prime}$ | 39" | $6^{\prime \prime}$ | 10-7/8" | 26-9/16" |
| 21" | 8" | 9-3/8" | 16-1/16" | 39" | 8" | 11-7/8" | 26-5/8" |
| $21^{\prime \prime}$ | 10" | 10-7/8" | 16-9/16" | 39" | $10^{\prime \prime}$ | 12-7/8" | 27-1/8" |
| $21^{\prime \prime}$ | 12" | 11-7/8" | 16-13/16" | 39" | 12" | 13-7/8" | 27-3/8" |
| $21^{\prime \prime}$ | 15 " | 13-3/8" | 16-13/16" | 39" | 15 " | 15-7/8" | 27-3/8" |

## Double Wyes

Available in 4" - 42". Branches are made approximately 45 degrees to the barrel. Dimensions for 4" - 8" are shown below.

Double Wye


| D1 | D2 | D3 | A | B |
| :--- | :--- | :--- | :--- | :--- |
| $4^{\prime \prime}$ | $4^{\prime \prime}$ | $4^{\prime \prime}$ | $11^{\prime \prime}$ | $9-11 / 16^{\prime \prime}$ |
| $6^{\prime \prime}$ | $6^{\prime \prime}$ | $4^{\prime \prime}$ | $12-5 / 16^{\prime \prime}$ | $11-1 / 2^{\prime \prime}$ |
| $6^{\prime \prime}$ | $6^{\prime \prime}$ | $6^{\prime \prime}$ | $14-5 / 16^{\prime \prime}$ | $12-1 / 2^{\prime \prime}$ |
| $8^{\prime \prime}$ | $8^{\prime \prime}$ | $6^{\prime \prime}$ | $15-3 / 8^{\prime \prime}$ | $14^{\prime \prime}$ |
| NOTE: Dimensions A and B are approximate. |  |  |  |  |

## Sweeps

Available in 4" only

## Sweep $1 / 4$ or $90^{\circ}$



Sweep $1 / 8$ or $45^{\circ}$ Bend


| D | Rc | L |
| :--- | :--- | :--- |
| $4 "$ | $9-1 / 2 "$ | $26^{\prime \prime}$ |

## Reducers

Available in 4" - 42". Dimensions for 4" - 8" shown below.


| D1 | D2 | A | B |
| :--- | :--- | :--- | :--- |
| $4^{\prime \prime}$ | $6^{\prime \prime}$ | $7^{\prime \prime}$ | $12^{\prime \prime}$ |
| $6^{\prime \prime}$ | $8^{\prime \prime}$ | $7^{\prime \prime}$ | $15^{\prime \prime}$ |
| $8^{\prime \prime}$ | $10^{\prime \prime}$ | $7^{\prime \prime}$ | $18^{\prime \prime}$ |

## Increasers

Available in 4" - 42". Dimensions for 4" - 8" shown below.


| D1 | D2 | A | B |
| :--- | :--- | :--- | :--- |
| $4 "$ | $6 "$ | $6-1 / 8^{\prime \prime}$ | $8^{\prime \prime}$ |
| $6 "$ | $8^{\prime \prime}$ | $17-1 / 2^{\prime \prime}$ | $19-3 / 4^{\prime \prime}$ |
| $8^{\prime \prime}$ | $10 "$ | $17-3 / 8^{\prime \prime}$ | $20 "$ |

$$
4 " \times 6 ", 6 " \times 8 ", 8 " \times 10^{\prime \prime} \text { Increaser }
$$

## Transitional Stubs

Used to join plain-end rubber coupling pipe to the bell end of SPEED-SEAL

## Transitional Increaser Stubs

Used to join 4" plain-end rubber coupling pipe to the bell end 6" SPEED-SEAL.


Stoppers, Tee Saddles, and Specialty Items

## Stoppers

Poly cap stoppers are not recommended in areas subject to ground water.
Clay Stopper
Polycap Stopper
( $8^{\prime \prime}$ thru $24^{\prime \prime}$ )
(4" thru 8")


## Tee Saddles

Plain Tee Saddle
Collar Tee Saddle
Square Base Tee Saddle
(Available in $4 " \& 6^{\prime \prime}$ only)


## Specialty Items

Drop Manhole Tee
Drop Manhole Double Tee


Drop Manhole 1/4 Bend


Handhole Trap

Plain Wye Saddle


Alternate Pipe VCP Connections



| D | A | B | C |
| :--- | :--- | :--- | :--- |
| $44^{\prime \prime}$ | $1-1 / 2^{\prime \prime}$ | $1-1 / 2^{\prime \prime}$ | $6-1 / 2^{\prime \prime}$ |
| $6^{\prime \prime}$ | $2^{\prime \prime}$ | $1-1 / 2^{\prime \prime}$ | $99^{\prime \prime}$ |
| $8^{\prime \prime}$ | $2-1 / 2^{\prime \prime}$ | $1-1 / 2^{\prime \prime}$ | $12^{\prime \prime}$ |


| D | A | B | C |
| :--- | :--- | :--- | :--- |
| $4^{\prime \prime}$ | $2-1 / 2^{\prime \prime}$ | $1-1 / 2^{\prime \prime}$ | $6-1 / 2^{\prime \prime}$ |
| $6^{\prime \prime}$ | $3 "$ | $1-1 / 2^{\prime \prime}$ | $9^{\prime \prime}$ |
| $8^{\prime \prime}$ | $3-1 / 2^{\prime \prime}$ | $1-1 / 2^{\prime \prime}$ | $12^{\prime \prime}$ |

## Couplings, Bushings, and Specifications

## Banded Rubber Couplings

Used for the joining of regular or field-cut plain-end vitrified clay pipe to same.

Rubber Coupling
Available in sizes 4" - 12"


Sewer Repair Coupling
Available with outside stainless steel shear ring sizes $4 "-42 "$

Torque Wrench
Non-adjustable torque wrench factory set to 60 inch pounds. Accommodates both 5/16 and $3 / 8$ inch fasteners

## Transitional Bushings For Rubber Couplings

Used in combination with banded rubber couplings for transitions. From Plain-end vitrified clay pipe to ductile iron pipe, cast iron pipe (CI), PVC pipe (PL) or ABS. Available in sizes 4" - 12".


## Curved Sewer Installations

The design and installation of curved sewer pipelines is common. Bends and curves to accommodate both grade and alignment changes are commonly accomplished by the deflection of straight pipe or by the use of mitered bends, beveling the joints or any combination thereof.

We manufacture mitered bends in sizes 4 " to 42 " to accommodate any change in angle designed by the engineer. The deflection of standard straight pipe generally provides the required change in grade or alignment. Utilizing shorter pipe lengths decreases the allowable radius. We are providing the following to assist you in such designs.

When it is necessary to use curvilinear alignment due to terrain or to avoid existing structures, the following design and installation criteria may be safely employed:

$$
\mathrm{R}=\frac{360 \text { degrees }}{\text { degrees }} \mathrm{X} \quad \mathrm{~L} \quad \begin{aligned}
& \emptyset=\text { Allow deflection angle per joint } \\
& \mathrm{L}=\text { Length of pipe } \\
& \mathrm{R}=\text { Minimum Radius of curvature }
\end{aligned}
$$

NOTE: When $\emptyset$ is maximum R will be minimum.


| NOMINAL PIPE SIZE | $\begin{aligned} & \text { MAX. DEFL. } \\ & \text { AT } \\ & \text { EACH JOINT } \end{aligned}$ | APPROX. <br> MAX. DEFL./FT. OF PIPE | MINIMUM RADIUS OF CURVATURE - FEET |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { 6' PIPE } \\ \text { LENGTH } \end{gathered}$ | 5-1/2' PIPE <br> LENGTH | 5' PIPE <br> LENGTH | 4-1/2' PIPE <br> LENGTH | $\begin{gathered} 4^{\prime} \text { PIPE } \\ \text { LENGTH } \end{gathered}$ | 3' PIPE LENGTH | $\begin{gathered} \text { 2' PIPE } \\ \text { LENGTH } \end{gathered}$ |
| 4" - 12" | $2.39^{\circ}$ | 1/2" | 144' | 132' | $120 '$ | 108' | $96^{\prime}$ | $72^{\prime}$ | 48' |
| 15" - 24" | $1.79^{\circ}$ | 3/8" | 192' | 176' | 160' | $144^{\prime}$ | 128' | 96' | $64^{\prime}$ |
| 27" - 36 " | $1.21^{\circ}$ | 1/4" | $288{ }^{\prime}$ | $264 '$ | $240 '$ | $213 '$ | 189' | 142' | $95^{\prime}$ |
| 39'-42" | $0.92^{\circ}$ | 3/16" | N/A | $352^{\prime}$ | $320 '$ | $280{ }^{\prime}$ | 249' | 187' | $125^{\prime}$ |

## Pipe Joints

Our SPEED-SEAL joints are manufactured from a proprietary design and protected by a registered trademark. SPEED-SEAL is composed of a two part polyurethane mixture, factory applied to the ends of our pipe. The spigot part of the joint has a smooth surface, whereas the bell portion has a raised ridge.

Our joints are designed not to leak as required by ASTM C 425. We regularly check our joints by an internal hydrostatic test of 10 psig.

We provide a vegetable lubricant to be used when inserting the spigot into the bell. When lubricated and pushed together, the ridge portion of the bell and the spigot casting deform assuring you of a leakproof design by giving a predicted, residual compression around the full circumference of the seal. Our polyurethane formulation is impervious to detergents, acids, alkalis and gasses normally present in sanitary sewer lines.


Shaded areas may be cast in some larger diameter joints, depending on manufacturing method.

## SPEED-SEAL Lubricant

We provide a vegetable based soap lubricant for use during the assembly of our SPEED-SEAL joints. The lubricant should be applied full strength to each joint surface immediately prior to assembly, following the removal of all dirt and debris.

## Engineering Services

Gladding McBean, in addition to being a manufacturer of Vitrified Clay Pipe, provides professional support to the engineering community and is a resource for technical information during both the design and construction of your project. We will assist agencies with the identification and resolution of construction issues and/or provide information to the contractor to assist in the proper installation of our products.

## Plant Tours

Please contact our Engineering Services Department to arrange a tour of our manufacturing plant located in Lincoln, California.

## Delivery of Pipe

Gladding McBean primarily utilizes Material Transport for the on-time delivery of our products throughout the western United States


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