| | All Diameters Annular | Helical* Corrugation | | | | | | | | | |
|---------------|-----------------------------|---|--------|------------------------------|--------|--------|--------|--------|--------|---------------|-------------------|
| | | 1-1/2" x 1/4" | | Helical—2-2/3" x 1/2" 60 in. | | | | | | | |
| 2-2/3" x 1/2" | | 8 in. | 10 in. | 12 in. | 15 in | . 1 | 8 in. | 24 in. | 36 in. | 48 in | and Larger |
| Unpaved | 0.024 | 0.012 | 0.014 | 0.011 | 0.012 | 0.013 | | 0.015 | 0.018 | 0.020 | 0.021 |
| PAVED-INVERT | 0.021 | | | | | | | 0.014 | 0.017 | 0.020 | 0.019 |
| SMOOTH-FLO | 0.012 | | | | | | | 0.012 | 0.012 | 0.012 | 0.012 |
| HEL-COR CL | 0.012 | | | | | | | 0.012 | 0.012 | 0.012 | 0.012 |
| SmoothCor | N/A | | | | | 0. | 012 | 0.012 | 0.012 | 0.012 | 0.012 |
| | | Helical*—3" x 1" | | | | | | | | | |
| 3" x 1" | Annular | | | 36 in. | 42 in. | 48 in. | 54 in. | 60 in. | 66 in. | 72 in. | 78 in. and Larger |
| Unpaved | 0.027 | | | 0.022 | 0.022 | 0.023 | 0.023 | 0.024 | 0.025 | 0.026 | 0.027 |
| PAVED-INVERT | 0.023 | | | 0.019 | 0.019 | 0.020 | 0.020 | 0.021 | 0.022 | 0.022 | 0.023 |
| SMOOTH-FLO | 0.012 | | | | | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| HEL-COR CL | 0.012 | | | | | | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| SmoothCor | N/A | | | | | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| | | Helical*—5" x 1" | | | | | | | | | |
| 5" x 1" | | | | | | 48 in. | 54 in. | 60 in. | 66 in. | 72 in. | 78 in. and Large |
| Unpaved | 0.025 | | | | | 0.022 | 0.022 | 0.023 | 0.024 | 0.024 | 0.025 |
| PAVED-INVERT | 0.022 | | | j | | 0.019 | 0.019 | 0.020 | 0.021 | 0.021 | 0.022 |
| SMOOTH-FLO | 0.012 | | | | | | | 0.012 | 0.012 | 0.012 | 0.012 |
| HEL-COR CL | 0.012 | | | | | | | 0.012 | 0.012 | 0.012 | 0.012 |
| ULTRA-FLO | | 3/4" x 3/4" x 7-1/2" All diameters n = 0.012 | | | | | | | | | |

^{*}Tests on helically corrugated pipe demonstrate a lower coefficient of roughness than for annually corrugated steel pipe. Pipe-arches approximately have the same roughness characteristics as their equivalent round pipes.