

STEEL SPIRAL RIB PIPE $\frac{3}{4}$ " WIDE x $\frac{3}{4}$ " RIBS SPACED @ $7\frac{1}{2}$ "

| PIPE DIAMETER INCHES | AREA SQ. FT. | MAXIMUM HEIGHT OF COVER IN FEET | | | MINIMUM SHEET THICKNESS FOR ENTRANCE PIPES WITH LESS THAN 1 FT. COVER INCHES (GAUGE) |
|-------------------------|-----------------|-----------------------------------|------------|------------|--|
| | | SHEET THICKNESS IN INCHES (GAUGE) | | | |
| | | 0.064 (16) | 0.079 (14) | 0.109 (12) | |
| 12 | 0.8 | 18 | | | 0.064 (16) |
| 15 | 1.2 | 18 | | | 0.064 (16) |
| 18 | 1.8 | 18 | 92 | 130 | 0.064 (16) |
| 21 | 2.4 | 18 | 64 | 88 | 0.079 (14) |
| 24 | 3.1 | 17 | 48 | 65 | 0.109 (12) |
| 27 | 4.0 | 17 | 39 | 50 | |
| 30 | 4.9 | 17 | 33 | 41 | |
| 36 | 7.1 | 16 | 26 | 31 | |
| 42 | 9.6 | 16 | 23 | 26 | |
| 48 | 12.6 | 15 | 21 | 23 | |
| 54 | 16.0 | 15 | 19 | 21 | |
| 60 | 19.6 | 14 | 19 | 20 | |
| 66 | 23.8 | | 18 | 19 | |
| 72 | 28.3 | | 18 | 18 | |
| 78 | 33.2 | | | 18 | |
| 84 | 38.6 | | | 18 | |

NOTES:

- COVER HEIGHTS INDICATED IN TABLES ARE FOR FINISHED CONSTRUCTION.
- TO PROTECT PIPE DURING CONSTRUCTION, MINIMUM HEIGHT OF COVER TO BE IN ACCORDANCE WITH TABLE A PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION. THE COVER SHALL EXTEND THE FULL LENGTH OF THE PIPE. THE APPROACH FILL IS TO EXTEND A MINIMUM OF 15 DIAMETERS ON EACH SIDE OF THE PIPE OR TO THE INTERSECTION WITH THE CUT.
- MINIMUM FINISHED HEIGHT OF COVER FOR ALL PIPES, EXCEPT THOSE UNDER ENTRANCES, SHALL BE 2.0' OR $\frac{1}{2}$ DIAMETER, WHICHEVER IS GREATER. IN CASES IN WHICH THESE COVER HEIGHTS CANNOT BE ACHIEVED, AN ABSOLUTE MINIMUM FINISHED COVER HEIGHT OF 1.0' OR $\frac{1}{4}$ DIAMETER, WHICHEVER IS GREATER, WILL BE ALLOWED ONLY IF ALL POSSIBLE MEANS TO OBTAIN THE STANDARD VALUE HAVE BEEN EXHAUSTED. THE MINIMUM FINISHED HEIGHT OF COVER FOR PIPES UNDER ENTRANCES IS 9" FOR PIPE DIAMETERS LESS THAN OR EQUAL TO 24" AND 12" OR $\frac{1}{4}$ DIAMETER, WHICHEVER IS GREATER, FOR PIPE DIAMETERS GREATER THAN 24". WHERE POLYMER COATED PIPE WILL BE USED AND THE SURFACE OVER THE TOP OF THE PIPE WILL BE ASPHALT, CLASS I BACKFILL MATERIAL IS TO BE PLACED UP TO A MINIMUM OF 6" ABOVE THE TOP OF THE PIPE.
- SEE STANDARD PB-1 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS.
- 16 GAUGE PIPE LIMITED TO THOSE LOCATIONS WHERE PIPE DIAMETER PLUS COVER IS LESS THAN 20'.
- THE MAXIMUM HEIGHT OF COVER SHOWN IN THE TABLES IS BASED ON A SOIL MODULUS OF 700 PSI. ALL OTHER DESIGN CRITERIA ARE IN ACCORDANCE WITH THE AASHTO SPECIFICATIONS AND VDOT MODIFICATIONS FOR SOIL CORRUGATED METAL STRUCTURE INTERACTION SYSTEMS.
- A MAXIMUM HEIGHT OF COVER TABLE FOR STEEL SPIRAL RIB WITH $\frac{3}{4}$ " WIDE x 1" DEEP RIBS SPACED AT $1\frac{1}{2}$ " IS AVAILABLE UPON REQUEST.

| PIPE DIAMETER | MINIMUM COVER HEIGHT DURING CONSTRUCTION (SEE NOTE 4) |
|---------------|---|
| 12" TO 30" | 18" |
| 36" AND ABOVE | $\frac{1}{2}$ DIAMETER |

SHEET 14 OF 18

STEEL SPIRAL RIB PIPE
HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION
REFERENCE232
302

REV. 7/05

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