A metal end sections for round pipe culvert

Metal End Sections for Round Pipe Culvert

Pipe Dia. (min.) | Metal Thick. | Top Width (in.) | Overall Width (in.) | Slope 1:4 | Slope 1:6 | L (in.)
---|---|---|---|---|---|---
15 | 0.064 | 6 | 21 | 27 | 54 | 83
16 | 0.064 | 8 | 24 | 40 | 52 | 72
18 | 0.068 | 8 | 27 | 43 | 44 | 60
20 | 0.064 | 8 | 30 | 46 | 55 | 83
24 | 0.064 | 8 | 30 | 46 | 55 | 83
30 | 0.099 | 9 | 36 | 60 | 76 | 116
36 | 0.099 | 9 | 36 | 60 | 76 | 116
42 | 0.099 | 10 | 42 | 66 | 102 | 154
48 | 0.109 | 10 | 54 | 98 | 224
54 | 0.109 | 11 | 58 | 110 | 224
60 | 0.109 | 12 | 62 | 80 | 128 | 139

General Notes:
- See roadway plans for slope (V:H) and pipe diameter.
- Provide traversable pipe grate when specified.
- All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
- All dimensions are in inches (millimeters) unless otherwise shown.

Connections of End Section
- Toe plate
- Side lug
- Corrugated sized to fit pipe

End View
- Edge of sidewall sheet rolled against steel rod or No. 4 (No. 13) galvanized reinforcing bar
- Reinforced edge full length of end section (typical of both sides, see section A-A)
- Bolt surfaces together (typ.)
- Top of end section
- Side lugs shall be bolted to end section.

Perspective View
- Section A-A
- Section B-B

Overall Width
- Pipes in 3" (75 mm) diameter increments

Took
- (A) (approx.) 8
- (B) (min.) dia., galvanized steel
- (C) 1/2 galvanized reinforcing rod

Sloped Metal End Sections
- For Pipe Culverts 15" (375 mm) thru 60" (1500 mm) Dia.

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Revisions

New standard.

Standard 542411
**SLOPE or RISE (R)**

**DIAMETER (D)** (typ.)

**Safety bars**

**LONGITUDINAL DRAINAGE BAR**

**PARALLEL BARS**

**SAFETY BAR DETAILS**

**CROSS DRAINAGE END SECTION - ELEVATION**

**PARALLEL DRAINAGE END SECTION - ELEVATION**

**TYPICAL INSTALLATION**

**SLOPED METAL END SECTIONS**

**FOR PIPE CULVERTS 15" (375 mm)**

**THRU 60" (1500 mm) DIA.**

**STANDARD 542411**

Provide (longitudinal bars) when the span exceeds 30 (750). Provide additional longitudinal bars as needed so that spacing does not exceed 30 (750) for larger end sections.

Provide longitudinal bars. 3 (75) galvanized steel pipe: flatten end, then bend outside 4 (100) to match end section sides.

Cross drainage end section with traversable pipe grate shown, typ.

Typical installation.

Parallel drainage end section with traversable pipe grate shown, typ.

Transverse slope

Pipe culvert

Front slope

Main line

Pipe culvert

Front slope