

METAL ROUND PIPE CULVERT

FILL HEIGHT AND METAL THICKNESS TABLE FOR HELICAL LOCKSEAM AND WELDED SEAM PIPE CULVERT

Table with 2 main sections: STEEL and ALUMINUM. Each section has columns for Pipe Size (Diameter in inches), Minimum Cover (inches), Metal Thickness (inches/gage) for different corrugations, and Maximum Fill Height Above Top of Pipe (feet).

NOTE:

- 1. When directed, camber pipe culverts upward from a chord through the inlet and outlet inverts an ordinate amount equal to 1% of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.
2. Fill heights exceeding 100 feet require special analysis by the CO.
3. The fill heights in the table are for helical lockseam and welded seam pipe only. Fill heights for culvert pipe with annular corrugations are more restrictive than those of helical lockseam and welded seam pipe. Obtain approval before furnishing annular corrugation pipe.
4. For flexible pavement and aggregate surface roadways, measure minimum cover from the top of the pipe culvert to the bottom of the roadway subgrade. For rigid pavements, measure minimum cover from the top of the pipe culvert to the top of the pavement. For all roadway surface types, measure maximum fill height from the top of the pipe culvert to the top of the pavement.

METAL PIPE ARCH CULVERT

FILL HEIGHT AND METAL THICKNESS TABLE FOR HELICAL LOCKSEAM AND WELDED SEAM PIPE CULVERT

Table with 2 main sections: STEEL and ALUMINUM. Each section has columns for Pipe Arch Size (Span x Rise in inches), Equivalent Diameter (inches), Minimum Corner Radius (inches), Minimum Cover (inches), Metal Thickness (inches/gage) for different corrugations, and Maximum Fill Height Above Top of Pipe (feet).

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NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY

METAL PIPE CULVERT

FLH STANDARD 602-1

SPECIFICATION FP-24, FP-14 APPROVED FOR USE 8/2024

METAL ROUND PIPE CULVERT

FILL HEIGHT AND METAL THICKNESS TABLE FOR HELICAL LOCKSEAM AND WELDED SEAM PIPE CULVERT

STEEL table with columns for PIPE SIZE DIAMETER, MINIMUM COVER, CORRUGATIONS (68 x 13, 75 x 25, 125 x 25), METAL THICKNESS, and MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (METERS).

ALUMINUM table with columns for PIPE SIZE DIAMETER, MINIMUM COVER, CORRUGATIONS (68 x 13, 75 x 25), METAL THICKNESS, and MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (METERS).

NOTE:

- 1. When directed, camber pipe culverts upward from a chord through the inlet and outlet inverts an ordinate amount equal to 1% of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.
2. Fill heights exceeding 30 meters require special analysis by the CO.
3. The fill heights in the table are for helical lockseam and welded seam pipe only. Fill heights for culvert pipe with annular corrugations are more restrictive than those of helical lockseam and welded seam pipe. Obtain approval before furnishing annular corrugation pipe.
4. For flexible pavement and aggregate surface roadways, measure minimum cover from the top of the pipe culvert to the bottom of the roadway subgrade. For rigid pavements, measure minimum cover from the top of the pipe culvert to the top of the pavement. For all roadway surface types, measure maximum fill height from the top of the pipe culvert to the top of the pavement.

METAL PIPE ARCH CULVERT

FILL HEIGHT AND METAL THICKNESS TABLE FOR HELICAL LOCKSEAM AND WELDED SEAM PIPE CULVERT

STEEL table with columns for PIPE ARCH SIZE SPAN x RISE, EQUI-VALENT DIAMETER, MINIMUM CORNER RADIUS, MINIMUM COVER, CORRUGATIONS (68 x 13, 75 x 25, 125 x 25), METAL THICKNESS, and MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (METERS).

ALUMINUM table with columns for PIPE ARCH SIZE SPAN x RISE, EQUI-VALENT DIAMETER, MINIMUM CORNER RADIUS, MINIMUM COVER, CORRUGATIONS (68 x 13, 75 x 25), METAL THICKNESS, and MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (METERS).

This drawing contains Metric units of measure. Dimensions without units are millimeters.

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY FLH STANDARD M602-1 SPECIFICATION FP-24, FP-14 APPROVED FOR USE 8/2024 METAL PIPE CULVERT

NO SCALE