



**Table HC 10 Height-of-Cover Limits for Corrugated Steel Pipe-Arch
5 x 1 in. and 3 x 1 in. Corrugations H20 or H25 LIVE LOAD**

Span & Rise (inches)	Minimum Specified Thickness Required		Minimum* Cover (inches)	Maximum Cover (ft) Over Pipe-Arch for Soil Corner Bearing Capacity of 2 tons/ft ²
	3 x 1 (inch)	5 x 1** (inch)		
53 x 41	0.079	0.109	12	25
60 x 46	0.079	0.109	15	25
66 x 51	0.079	0.109	15	25
73 x 55	0.079	0.109	18	24
81 x 59	0.079	0.109	18	21
87 x 63	0.079	0.109	18	20
95 x 67	0.079	0.109	18	20
103 x 71	0.079	0.109	18	20
112 x 75	0.079	0.109	21	20
117 x 79	0.109	0.109	21	19
128 x 83	0.109	0.109	24	19
137 x 87	0.109	0.109	24	19
142 x 91	0.138	0.138	24	19
150 x 96	0.138	0.138	30	19
157 x 101	0.138	0.138	30	19
164 x 105	0.138	0.138	30	19
171 x 110	0.138	0.138	30	19

Notes: 1. Soil bearing capacity refers to the soil in the region of the pipe corners. See Chapter 5 for design of pipe envelope at pipe corners. The remaining backfill around the pipe-arch must be compacted to a specified AASHTO T-99 density of 90%

2. Use reasonable care in handling and installation.

3. Pipe-arches are typically used where the cover does not exceed 15 feet.

* Minimum covers are for H20 and H25 loads. See Table 4.6 (page 283) for heavy construction load requirements. Minimum covers are measured from top of pipe to bottom of flexible pavement or top of pipe to top of rigid pavement. Minimum cover must be maintained in unpaved traffic areas.

** Lesser thicknesses may be provided if justified by calculations.

**Table HC-11 Height -of-Cover for Corrugated Steel Pipe-Arch
2 $\frac{2}{3}$ x $\frac{1}{2}$ in. Corrugation E 80 LIVE LOAD**

Span & Rise (inches)	Minimum Specified Thickness Required (inch)	Minimum* Cover (inches)	Maximum Cover (ft) Over Pipe-Arch for Soil Corner Bearing Capacity of 3 tons/ ft ²
17 x 13	0.079	24	22
21 x 15	0.079		
24 x 18	0.109		
28 x 20	0.109		
35 x 24	0.138		
42 x 29	0.138		
49 x 33	0.168		
57 x 38	0.168		
64 x 43	0.168		
71 x 47	0.168	24	22

Notes: 1. Soil bearing capacity refers to the soil in the region of the pipe corners. See Chapter 5 for design of pipe envelope at pipe corners. The remaining backfill around the pipe-arch must be compacted to a specified AASHTO T-99 density of 90%

2. Use reasonable care in handling and installation.

3. Pipe-arches are typically used where the cover does not exceed 15 feet.

* Minimum cover is from top of pipe to bottom of tie.