HCP Infrastructure

Product sheet

Box culverts

Precast box sections for roadway, stormwater, and stream crossings, in standard and custom sizes.

Standard sizes	Design loading	Made to	Quality
4'×4' to 12'×12'	**HL-93 (AASHTO LRFD)**	**ASTM C1577**	**NPCA certified**



Product sheet

Box culverts

Overview

Precast reinforced box sections to ASTM C1577 for HL-93 loading. Standard sections are 6' long; custom spans and rises are built to plans.

Applications

Roadway crossings · Stormwater conveyance · Stream crossings

Why precast box culverts

- Plant-cast quality, with no forming or curing on site
- Sets quickly to shorten road closures
- Large openings for high flow capacity
- Custom spans and rises built to plans

Standard sizes and weights

Approximate weight (lb/ft) by span and rise

Span \ rise	4'	5'	6'	7'	8'	9'	10'	11'	12'
4'	1,167	–	–	–	–	–	–	–	–
5'	1,800	1,950	–	–	–	–	–	–	–
6'	1,950	2,100	2,250	–	–	–	–	–	–
7'	2,429	2,604	2,779	2,954	–	–	–	–	–
8'	2,967	3,167	3,367	3,567	3,767	–	–	–	–
9'	3,563	3,788	4,013	4,238	4,463	4,688	–	–	–
10'	4,217	4,467	4,717	4,967	5,217	5,467	5,717	–	–
11'	4,929	5,204	5,479	5,754	6,029	6,304	6,579	6,854	–
12'	5,700	6,000	6,300	6,600	6,900	7,200	7,500	7,800	8,100

Inside span and rise in feet. Standard sections are 6' long. Weights are approximate. Custom sizes available; request submittal drawings for design.

Design, joints, and service

Design

ASTM C1577 (LRFD)

AASHTO HL-93 live load

NPCA plant certification

Joints and sealing

Bell-and-spigot joints

Joint sealant

Joint wrap

Service

Custom sizes built to plans

Submittals prepared in-house

Delivered on our own fleet

Request a quote

(615) 893-9216 · sales@hcpinfra.com · hcpinfra.com

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Own fleet across Middle Tennessee
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