

Thickness of the beam over the distribution box



Overview

For CIP concrete box girders and “T” beams, the overhang thickness shall be a minimum of 12 inches at the face of an exterior girder. dgn files can be found on the GDOT Bridge Design Website: Designed according to LRFD 7th Edition and meets all LRFD 8th Edition requirements. Live load moment. This BDM addresses the design of typical bridge decks, typical overhangs, and soffits for new bridges and bridge widenings described in STP 9. Factors BeamDimensionTable Beams BeamTable de Ext_A Ext_Ao Ext_b Ext_beam_d Ext_beam_l Ext_bfb Ext_bft Ext_d Ext_EFW Ext_l Ext_j Ext_Slab_A Ext_slab_d Ext_Slab_l Ext_Slab_wt Ext_Slab_yb Ext_tfb Ext_tft. EPG 751. 21 Prestressed Concrete Slab and Box Beams illustrates the general design procedure for prestressed concrete slab and box beams using AASHTO LRFD Bridge Design Specifications except as noted. Two simple spans @ 90'-0" each, 20 degree skew. Two traffic railing barriers and one.



Article Content

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BDP Chapter 5.4 Precast Pretensioned Box Girders

The PCI Bridge Design Manual Section 8.9.1.2 (PCI, 2014) recommends a minimum concrete deck thickness of 5.9 inches. Note that this minimum thickness is typically at midspan and increases ...

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751.21 Prestressed Concrete Slab and Box Beams

Adjacent beams shall be composite with a reinforced concrete slab with the slab thickness replacing the slab haunch component of a typical slab on girder structure. The slab shall be a ...

Feb 12, 2026

LRFD Steel Girder SuperStructure Design Example

Once the minimum slab and overhang thicknesses are computed, they can be increased as needed based on client standards and design computations. The following slab and overhang ...

Feb 12, 2026

Section 10: Pretensioned Concrete Spread Box Beams (X-Beams)

When determining section properties, do not include haunch concrete placed on top of the beam. Section properties based on final beam and slab modulus of elasticity may also be used; however, ...

Jan 27, 2026

GUIDE FOR GDOT BOX BEAM BASIC DRAWINGS AND DESIGN

The following tables provide information to be used in developing Box Beam bridge plans. DC and DW loads are provided to aid in determining the bearing load of each beam.

Jan 11, 2026

COLD-FORMED STRUCTURAL FRAMING PRODUCTS ...

Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site based on AISI S100-16 (2020) w/S2-20.

Sep 08, 2025

Prestressed Concrete Box Beams Distribution Factor Spreadsheet

Since the exterior beam can be of a different width than the interior beam, the Live Load Distribution Factors need to be calculated for an interior beam that has the same width as the exterior beam.

Oct 30, 2025

9.4 TYPICAL DECK, TYPICAL OVERHANG, AND SOFFIT DESIGN

For CIP concrete box girders and "T" beams, the overhang thickness shall be a minimum of 12 inches at the face of an exterior girder. This 12-inch minimum overhang thickness requirement should be ...

May 05, 2026

How to choose a distribution box of the right size for a project based ...

In this guide, I'll walk you through a practical, step-by-step process to size your distribution box based on actual load current. We'll cover everything from understanding your circuits to planning for future ...

Contact Us

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