

# Index 20299 Build-Up and Deflection Data for Florida U Beams (Rev. 01/12)

## Design Criteria

**AASHTO LRFD Bridge Design Specifications**, 4th Edition; **Structures Detailing Manual (SDM)**; **Structures Design Guidelines (SDG)**

## Design Assumptions and Limitations

Use this standard in conjunction with Indexes 20210, 20248, 20254, 20263 and 20272.

Unless otherwise required as a design parameter, beam camber for computing the theoretical build-up must be based on 120-day old beam concrete.

Consider the effects of horizontal curvature with bridge deck cross slope when determining the minimum theoretical build-up over the tip of the inside flange.

For a given size and type of beam, beam camber and associated Dim B and Dim D will vary due to span lengths and beam spacings. Dim B and Dim D will also vary from span to span along the length of a bridge due to deck geometry. To provide for better aesthetics and potentially easier detailing of the supporting pedestals, where possible adjust the values of Dim B and Dim D over equal height beams in adjacent spans so as to allow the beam bottom flanges to line up. Dim B and Dim D do not necessarily have to be the same value for a single beam. See the following sketch:



