

4501204 PRECAST PRESTRESSED CONCRETE CONSTRUCTION
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Charles Boyd
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Comment: (Internal: 4-27-10)
Revise as follows:

450-12.4 Bearing Areas: Consider the bearing area to extend from the end of the product to 3 inches beyond the edge of the bearing contact area for the full product width. ~~Treat minor defects in the bearing area in accordance with 400-11.~~

Do not allow the bearing plate or bearing area plane of precast prestressed concrete beam and slab units to deviate from a true plane by more than 1/8 inch when both bearing areas of a unit are tested on a level plane. Provide a bearing plate or bearing area that also proves to be a true plane when tested in all directions of the plane surface with a steel straightedge. In the event that a 100% true plane is not achieved, the Engineer will accept a surface having not less than 80% of its plan area in a true plane provided the deviations from such true plane are evenly distributed. Remove minor convex projections by grinding with an abrasive stone. The Engineer will accept minor depressions, provided that they amount to not more than 20% of the bearing area, are evenly distributed over the entire bearing area, and are not deeper than 1/8 inch.

Response: Agree, should be revised as proposed by Charles Boyd. Changes made.

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Comment: (5-20-10)

It is assumed that it is the Departments intent to have bearing area on prestressed units evaluated by the FDOT Pre-stress Engineer at the Pre-stress yard prior to shipment. Further assumed that the FDOT Stamp on a beam or other structural element relieves Field Inspectors of the need to check those surfaces upon arrival at the job-site. If this is not the case then the provision should be re-evaluated by the Specifications Office.

Response: The current procedure is that the Producer of the beam is required to certify that the product is in full compliance with the specification and this is signified by the Producer's stamp on the product. The Department no longer stamps the product; however, the Department does verify that the Producer is complying with the Producer QC Plan which requires the bearing area check. No changes made.
