



INDIANA DEPARTMENT OF TRANSPORTATION

Division of Materials and Tests
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Mike Braun, Governor
Lyndsay Quist, Commissioner

June 4, 2026 (Revised 7/1/26)

TESTING MEMORANDUM 26-01

To: District Construction Staff
District Testing Staff
Consultant and INDOT Technicians
Materials and Tests Staff

From: Jim Reilman, PE
State Materials Engineer

Jim Reilman
7/1/26

RE: Flexural Beam Analysis

When flexural strength from concrete beam samples does not meet contract requirements, INDOT has historically allowed the use of cores from these concrete beam samples to be analyzed for strength. INDOT will continue this practice when requested by District Construction to determine if the constructed concrete element is able to be cleared to proceed with additional or subsequent construction activities. Effective 7/15/26, INDOT will only consider testing cores from broken beams when the last beam was not broken until at least 14 days of age.

However, due to ongoing durability concerns with concrete represented by beam samples that do not attain the required flexural strength, the matter will be referred to the Department's Failed Materials Committee if both Type 1L cement and a polycarboxylate-based chemical admixture are part of the concrete mix. This is regardless of the results from testing the cores for strength.

If either:

- Type I or I/II cement is part of the concrete mix (with or without a polycarboxylate-based chemical admixture), or
- if Type 1L cement is part of the concrete mix and no polycarboxylate-based chemical admixtures are part of the concrete mix,

then the issue will not be referred to the Failed Materials Committee as a direct result of the flexural strength testing results not meeting contract requirements.

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