

**American Railway Engineering and Maintenance of Way Association
Letter Ballot**

- 1. Committee and Subcommittee:** Committee 30 – Subcommittee 4
- 2. Letter Ballot Number:** 30-22-14
- 3. Assignment:** D4-3-15: Research tie pads and ballast pads and include in Chapter 30. Ongoing assignment.
- 4. Ballot Item:** Adjustment of required tolerances for concrete block in UTP testing.
- 5. Rationale:** This ballot adjusts language to the recently included Static Bedding Modulus Testing procedure section to ensure tolerances for UTP concrete block are achievable and properly measured. It also removes the requirement for reinforcement in the concrete block.

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SECTION 2.10 RESILIENT TRACK COMPONENTS

This section presents recommendations for testing of resilient, or elastic, elements for use in the railway track.

2.10.1 UNDER TIE PADS

2.10.1.1 Static Bedding Modulus

a. Test Purpose:

Determine the bedding modulus (also referred to as vertical stiffness) of an under tie pad (UTP)

b. Test Frequency:

Initial qualification and routine testing required. Routine testing frequency shall be agreed upon between supplier and client.

c. Test Procedure/Setup:

- (1) Samples: Three (3) samples of the UTP material shall be tested for initial product qualification. Number of samples for routine testing shall be agreed upon between supplier and customer. Samples should be 10 in. x 10 in. with $\pm\frac{1}{8}$ in. tolerance. If a UTP concrete block is used, this shall be 4 in. $\pm\frac{1}{8}$ thick made of ~~reinforced~~ concrete and of the same dimensions as the UTP sample cast onto it. Surface flatness, measured diagonally across the entire length of the block across 10 in., shall be no more than ~~0.01 in.~~ 0.04 in. Samples shall be clean, free of oil contamination and damages.

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