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| DOTLOGO2 | | | | | **Illinois Modified AASHTO T 177 Checklist**  **Procedure for Obtaining Flexural Strength of Concrete (Using Center Point Beam Loading)** | | | | | |
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| The following is a summary checklist of the key steps involved in operation of center point loading beam breaker (hand pump operated). | | | | | | | | | | |
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| **Did the tester explain that:** | | |  | | | | | **YES** | **NO** |  |
|  | | | | | | | | | | |
| 1. | The test machine has been calibrated/verified to be within 3.0% accuracy (IL Mod) | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 2. | Each test specimen shall have a minimum of 1 inch overhang on each side of the support blocks | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 3. | The sides of the test specimen shall be at right angles with the top and bottom | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 4. | All surfaces in contact with load-applying and support blocks shall be smooth and free of scars, indentations, and holes | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 5. | That the beam shall be centered on the bottom rollers | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 6. | That you bring the load-applying block in contact with the beam | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 7. | The load may be applied continually without shock, up to 50% of the breaking load. Thereafter, apply the load continuously at a rate which constantly increases the extreme stress between 125 and 175 psi/min. until rupture occurs | | | | | | |  |  |  |
|  | | | | | | | | | | |
|  | (With permission of the Engineer, testing may be permitted to 10% above specified strength instead of to failure.) | | | | | | | | |  |
|  | | | | | | | | | | |
| 8. | When using a 762 mm (30 in.) long beam, the remaining length is inserted for a second break, allowing that the specimen has a minimum of 25 mm (1 in.) overhang on each side of the support blocks | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 9. | Results are recorded and calculated to the nearest 5 psi | | | | | | |  |  |  |
|  | | | | | | | | | | |
| Tester: | |  | | Observer: | |  | Date: | |  | |
|  | | | | | | | | | | |
| REMARKS: | |  | | | | | | | | |
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