



# Technical Bulletin

## TEST CYLINDER MOLDING PRACTICE & THIRD PARTY LAB SAMPLING GUIDANCE

### 1. CAST DENSITY SAMPLING

- 1.1. Obtain sample by filling a clean (5) gallon pail approximately 1" below full. Sample shall be taken from the end of pump hose at the point of placement.
- 1.2. Weigh the sample using an accurate, readable field scale.
- 1.3. For cellular concrete required to meet a minimum compressive strength of 200 psi, the sample, including the weight of the pail shall not be less than 29 lbs.
- 1.4. For cellular concrete required to meet a minimum compressive strength of 300 psi, the sample, including the weight of the pail shall not be less than 31 lbs.

### **CONFIRM PROPER DENSITY BEFORE GIVING SAMPLES TO A THIRD PARTY TECHNICIAN.**

### 2. TEST CYLINDERS

- 2.1. A set of test cylinders shall be considered (6) 3x6 molds. (4) cylinders for compressive strength and (2) for dry density.
- 2.2. Each set of cylinders shall be made from a single sampling.
- 2.3. When providing a sample to a third party test lab, make your cylinder set from the same sampling being provided to the lab technician.

### 3. MOLDING

- 3.1. Ensure that the cylinder molds are properly marked to preserve custody.
- 3.2. Cellular concrete shall be placed into the molds in approximately two equal layers. The cylinders shall be raised and dropped 1 inch, three times after placing each layer. Over fill the second layer and do not strike off.

### **DO NOT RE-MIX OR ROD SAMPLES**

- 3.3. When possible, observe third party test lab's molding practice. Note any irregularities.

### 4. SITE PROTECTION

- 4.1. The cast specimens shall be protected from being disturbed during initial set.
- 4.2. The use of a jobsite cure box (i.e. an igloo cooler) is recommended.