

1050404MM92V2 Materials Manual 9.2V2  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (9-15-22 Industry)

For lightweight concrete, consider including provisions requiring the producer to establish a relationship between plastic density and hardened density during design of the concrete mix. The intent is to ensure that the hardened density during production does not exceed the value assumed in the design and listed in the plans.

Response: Agree

Action: A new subarticle was created.

### 9.2.7.2 Lightweight concrete

Submit the fresh (unit weight) and hardened concrete density. Determine the hardened density (equilibrium density) in accordance with **ASTM C567**. Ensure that the hardened density of the mix design is within  $\pm 2 \text{ lb/ft}^3$  of the hardened density specified in the **Contract Documents**.

During production, the freshly mixed concrete density must be within  $\pm 3 \text{ lb/ft}^3$  of the approved mix design fresh density.

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