











Architectural Specifications

"Architectural concrete shall maintain consistent color and hue."

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- "In place concrete shall match color and shading of test panels."
- "No fly ash shall be used on architectural concrete."
- "Architectural concrete shall be consistent in color to the test panels as measured from 30ft away by a three person panel composed of the architect, the contractor, and the supplier."

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Structural Specifications • "...w/cm shall not exceed 0.45" • "Minimum 5.0 sack for all concrete." • "Maximum slump of 4.0 in for all architectural concrete." • "Air content shall be 5% on all exposed concrete." • "Maximum of 20% fly ash replacement."













Temperature Limits and Architectural Results

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- Temperature of concrete is chemically driven
 - Mechanical process can <u>impact the rate</u> of chemical reaction, but will <u>not determine the outcome</u>.
 - Concrete core temperature is more important than delivery temperature.
- Temperature specifications exist as a <u>measurement</u>, not an indication of <u>performance</u>.
 - The concrete is not smart enough...

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Temperature Limits and Architectural Results

- Architectural success is a combination
 - Allowances are more important than restrictions, limitations, or prohibitions.
 - Let the materials work for you, not against you.
- Conditions can change rapidly, should decisions?
 - Have prior discussions about changes in ambient conditions
 - Have clear decision controls (actual people) available.

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