

We shape a safe, high quality, sustainable and friendly built environment.

Our Ref : BCA BC 15.0.3

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See Distribution

Dear Sir/Madam

DESIGN GUIDE ON USE OF HIGH STRENGTH CONCRETE

One of the key strategic thrusts of BCA is to promote sustainable construction. A possible approach that meets the objectives of sustainable construction is to optimize the use of concrete, for example, through the use of high strength concrete. High strength concrete is useful when used for structural elements that carry very high compressive load, like columns for high rise buildings.

- Our local design code on use of concrete for structures provides design guidelines for concrete of strength up to 60 N/mm² only. In order to facilitate the use of concrete with strength exceeding 60 N/mm², an expert team comprising of local and overseas experts with knowledge on the use of high strength concrete was appointed to develop guidelines for the design and use of high strength concrete with strength exceeding 60 N/mm² and up to 105 N/mm².
- The guide titled BC 2: 2008 "Design Guide of High Strength Concrete to Singapore Standard CP 65" is now available for use. The BC 2: 2008 also includes good practice guidelines on mix design, concreting and curing of concrete to ensure product conformity and quality of concrete. We would like to highlight that this BC 2: 2008 is to be used in conjunction with SS CP 65, with the appropriate modifications which are provided in the BC 2: 2008. Please also note that current design software should be suitably modified before they are used for design of high strength concrete structures.

To familiarize engineers with the use of this BC 2: 2008 on high strength concrete, BCA had conducted a series of 3 seminars between 21 Feb and 25 Apr 08, and a copy of the BC 2: 2008 was distributed to each seminar participant. A copy of the BC 2: 2008 can now be purchased at the BCA Counter at 2nd Storey, Tower Block MND Complex. You can also download a softcopy of the guide from our web site at:

http://www.bca.gov.sg/Publications/others/Design_Guide_on_use_of_High_Strength_Concrete.pdf

I would appreciate it if you could bring to the attention of your members the contents of this circular.

Thank you.

Yours faithfully

CHEW KEAT CHUAN

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for COMMISSIONER OF BUILDING CONTROL

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