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MEMO

From Chairman, Standing Committee on
Concrete Technology (SCCT)
Ref. () in CEDD T 4/1/3/21
Tel. No. 2762 5004
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Date 31 March 2016

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**Construction Standard CS2:2012 – Steel Reinforcing Bars for
the Reinforcement of Concrete**

**(Use of Grade 500B ribbed steel reinforcing bars in place of
Grade 460 deformed high yield steel bars)**

I refer to my memo referenced CEDD T 4/1/3/21 dated 8 May 2015. The Standing Committee on Concrete Technology (SCCT) agreed it would be technically acceptable to use grade 500B ribbed steel reinforcing bars (ribbed rebars) in place of grade 460 deformed high yield steel bars (deformed rebars) as long as they are tested to meet the requirements of CS2:1995.

2. Recent market research finds that the manufacturing process and raw materials used for ribbed rebars and deformed rebars are basically the same. The Public Works Central Laboratory also find, from the test results of the grade 460 deformed rebars collected in the last 12 months, that the average yield strength is over 550 MPa. There are about 0.57% test results exceeding 650 MPa.

3. As more and more construction projects are using grade 500B ribbed rebars, it is expected that the supply of grade 460 deformed rebars will become unstable further. In order to avoid possible delay to public works contracts due to the unstable supply of grade 460 deformed rebars, the Engineer for the Contract (or equivalent contract administrator such as the Project Manager of New Engineering Contract) shall consider the use of grade 500B ribbed rebars in place of grade 460 deformed rebars, as may be proposed by the Contractor. If the Contractor's proposal is rejected, he/she should inform the Secretary of SCCT the reasons for the rejection.

4. Should you have any queries on the above, please contact the Secretary of SCCT (Mr. H D Wong of CEDD at Tel: 2305 1309; email: hdwong@cedd.gov.hk).



(K C LAM)
Assistant Director (Technical)
Civil Engineering and Development Department
Chairman, Standing Committee on Concrete Technology

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