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Building Engineering Division (#05-00)

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See **Distribution**

Dear Sir/Madam

## **IMPLEMENTATION OF DESIGN GUIDE ON USING STRUCTURAL STEEL TO BC 1: 2008**

On 30 Apr 08, BCA issued a circular on the design guide entitled BC 1: 2008 "Design Guide on Use of Alternative Steel Materials to BS 5950" to facilitate use of a wider choice of structural steel material.

2 BC 1: 2008 allows design to be carried out using procedures in British Standards BS5950, with appropriate parameters to account for the mechanical and physical properties of steel manufactured to a variety of commonly available standards as shown under "List of certified steel materials" in Appendix A of BC 1: 2008 (referred to as certified steel materials).

3 In order to ensure reliable quality assurance, BC 1: 2008 requires steel to be from "audited mills" with the necessary Factory Production Control (FPC) certification and proper mill test certification (MTC). Our stockholders and traders are also required to provide proper traceability of the steel delivered to the industry. This is in line with the European Union (EU) Construction Products Directive where FPC certification is also required for EN steel materials used throughout the EU markets, and this requirement will be extended to cover certified steel material under other non-BS standards.

4 BCA will incorporate the BC 1: 2008 design guide into the Approved Documents with effect on 1 Jan 2009. However, to allow the industry the benefits of using a wider choice of certified steel materials which are not manufactured to British Standards, the industry could adopt the design guide immediately if they so wish to.

5 From 1 Jan 2009, all structural steel (including those manufactured to the British Standard) should be from "audited mills" with the necessary FPC and MTC certificates in order for the steel to be classified as Class 1 material in the BC 1: 2008. Where quality assurance of certified steel material could not be ascertained from the FPC and MTC certifications, the steel can be classified as Class 2 under the alternative route provided for in Clause 4.4 of BC 1: 2008 where sufficient rigorous tests should be carried out to verify that the material meets the requirements in accordance with Appendix B of the design guide.

6 I would appreciate it if you could disseminate the contents of this letter to your members. Please contact Senior Executive Engineer/Mr Patrick Choy at Tel: 6325-5019 or email: patrick\_choy@bca.gov.sg if you need further clarification.

Thank you.

Yours faithfully

A handwritten signature in black ink, consisting of several fluid, overlapping strokes that form a stylized representation of the name 'K Thanabal'.

K THANABAL  
DEPUTY DIRECTOR, BUILDING ENGINEERING DIVISION  
for COMMISSIONER OF BUILDING CONTROL

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