

Our Ref : BCA BC 15.0.3

Building Engineering Division (#05-00)

Fax : 6325 7482

DID : 6325 4321

E-mail : thanabal_kaliannan@bca.gov.sg

30 Apr 2008

See **Distribution**

Dear Sir/Madam

DESIGN GUIDE ON USING STRUCTURAL STEEL

As part of BCA's efforts to promote sustainable construction and to enhance the resilience of our construction industry, a number of initiatives have been taken to reduce our high dependence on sand and granite. One such initiative is to promote the greater use of structural steel as an alternative to concrete.

2 Structural steel are imported from steel mills located all over the world. One of the concerns about the use of structural steel is the assurance of quality of the steel produced by these mills. Another concern is that in most countries, the mechanical properties and section sizes are manufactured to local standards which may differ from the design standards provided in the British Standards. To address these concerns and facilitate the use of structural steel, BCA had engaged a team of local and overseas experts with established knowledge of international design codes to develop a design guide as an addendum to the current design code BS 5950.

3 The design guide entitled BC 1: 2008 "Design Guide on Use of Alternative Steel Materials to BS 5950" is now available for use. This BC 1: 2008 will allow design to be carried out using procedures in British Standards BS5950, with appropriate parameters to account for the mechanical properties of structural steel manufactured to several standards which are not British Standards, namely, the European (EN), American (ASTM), Japanese (JIS), Australian/New Zealand (AS/NZS) and Chinese (GB). This BC 1: 2008 also provides guidelines covering quality assurance.

4 To familiarize engineers with the use of BC 1: 2008, BCA had conducted a series of 3 seminars between 21 Feb and 25 Apr 08, and a copy of BC 1: 2008 was distributed to each seminar participant. This BC 1: 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 and the explanatory notes from our web site at the following links respectively:

http://www.bca.gov.sg/Publications/others/Design_Guide_on_use_of_Structural_Steel.pdf
http://www.bca.gov.sg/Publications/others/Explanatory_Notes_for_BC1-2008.pdf

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

Thank you.

Yours faithfully

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

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

DISTRIBUTION (via e-mail):

President
Institution of Engineers, Singapore (IES)
70, Bukit Tinggi Road
Singapore 289758
iesnet@singnet.com.sg

President
Association of Consulting Engineers, Singapore (ACES)
70, Palmer Road, #04-06
Palmer House
Singapore 079427
acesing@starhub.net.sg

President
Real Estate Developers' Association of Singapore (REDAS)
190 Clemenceau Avenue
#07-01 Singapore Shopping Centre
Singapore 239924
enquiry@redas.com

President
Singapore Contractors Association Limited (SCAL)
Construction House
1 Bukit Merah Lane 2
Singapore 159760
enquiry@scal.com.sg

President
Singapore Institute of Architects (SIA)
79 Neil Road
Singapore 088904
info@sia.org.sg

President
Society of Project Managers (SPM)
Macpherson Road P.O.Box 1083
Singapore 913412
sprojm@yahoo.com

President
Singapore Institute of Building Limited (SIBL)
70 Palmer Road,
#03-09C Palmer House
Singapore 079427
josephine@sib.com.sg

President
Singapore Institute of Surveyors & Valuers (SISV)
20 Maxwell Road #10-09B
Maxwell House Singapore 069113
sisv.info@sisv.org.sg

President
Singapore Structural Steel Society (SSSS)
232a River Valley Road
Singapore 238290
avconsul@pacific.net.sg

President
Geotechnical Society of Singapore
c/o Professional Activities Centre
NUS Faculty of Engineering
9 Engineering Drive 1
Singapore 117576
geoss@nus.edu.sg

President
Professional Engineers Board, Singapore (PEB)
1st Storey, Tower Block, MND Complex,
5 Maxwell Road
Singapore 069110
registrar@peb.gov.sg

President
Board of Architects (BOA)
5 Maxwell Road
1st Storey Tower Block, MND Complex,
Singapore 069110
boarch@singnet.com.sg

Director
Protective Infrastructure & Estate
Defence Science & Technology Agency
1 Depot Road #03-01j
Singapore 109679
lcheehio@dsta.gov.sg

Deputy Director
Project Development & Maintenance Branch
Ministry Of Education
1 North Buona Vista Drive
Office Tower Level 9
Singapore 138675

eng_wee_tong@moe.gov.sg

Director
Best Sourcing Department
Public Utilities Board
40 Scotts Road #18-01
Environment Building
Singapore 228231
moh_wung_hee@pub.gov.sg

Deputy Chief Executive
Infrastructure & Development
Land Transport Authority
1 Hampshire Road
Block 8 Level 1
Singapore 219428
bok_ngam_lim@lta.gov.sg

Deputy Director
Technology Development Section
Housing & Development Board
HDB Hub
480 Lorong 6 Toa Payoh
Singapore 310480
ckc3@hdb.gov.sg

Director
Engineering Planning Group
JTC Corporation
The JTC Summit
8 Jurong Town Hall Road
Singapore 609434
giokhua@jtc.gov.sg

Director
Building
People's Association
9 Stadium Link
Singapore 397750
foo_soon_leng@pa.gov.sg

All CORENET e-Info subscribers