

In Collaboration with
SINGAPORE
STRUCTURAL
STEEL
SOCIETY

An MND Statutory Board

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

Our Ref.: APPBCA-2019-17

02 Jan 2020

See Distribution List

For enquiries, please contact: Building Engineering Group (#12-01) Tel: 1800 342 5222 (1800-DIAL-BCA) or use our Online Feedback Form at https://www.bca.gov.sg/feedbackform/

Dear Sir/Madam

JOINT BCA/SSSS CIRCULAR 2020 DESIGN GUIDE FOR BUILDABLE STEEL CONNECTIONS

Objective

This circular is to inform the industry on the 'Design Guide for Buildable Steel Connections', jointly developed by BCA and the Singapore Structural Steel Society (SSSS) to provide guidance on buildable bolted and welded connections.

Background

Steel construction is one of the DfMA¹ technologies identified to improve construction productivity in the built environment sector. However, one of the areas that may discourage the adoption of steel construction to drive productivity is the specification of unproductive and costly steel connections. Arising from this feedback, a BCA/SSSS workgroup was formed to develop this design guide on buildable steel connections.

Design Guide for Buildable Steel Connections

3 The 'Design Guide for Buildable Steel Connections' has incorporated inputs from industry stakeholders such as consultants, steel fabricators and the academia. The connections detailed in this guide are intended to facilitate easy erection of the steel structures on site. The guide gives details of welded and bolted connections that cover both

52 Jurong Gateway Road, #11-01, Singapore 608550 Tel: 1800-34252222 • Fax: 63344287

www.bca.gov.sg

¹ DfMA - Design for Manufacturing and Assembly

simple and moment-resisting joints. Design procedures in a guided step-by-step sequence are also provided to facilitate the design to Eurocode 3.

- The guidebook is available in softcopy at the websites of both BCA and SSSS respectively at -
 - https://go.gov.sg/bca-design-guide-steel-joint
 - http://www.ssss.org.sg/index.php?option=com_content&view=article&id=219&Itemid=75

Clarification

We would appreciate it if you could bring to the attention of your members the contents of this circular. Should you need any clarification, please submit your enquiry through BCA's Online Feedback Form at https://www.bca.gov.sg/feedbackform/ or call us at 1800 342 5222.

Yours faithfully

(nos

LUNG HIAN HAO DIRECTOR BUILDING ENGINEERING GROUP for COMMISSIONER OF BUILDING CONTROL MELVIN SOH PRESIDENT

SINGAPORE STRUCTURAL STEEL

SOCIETY

DISTRIBUTION (via e-mail):

PRESIDENT
INSTITUTION OF ENGINEERS, SINGAPORE (IES)
70, BUKIT TINGGI ROAD
SINGAPORE 289758
ies@iesnet.org.sq

PRESIDENT
ASSOCIATION OF CONSULTING ENGINEERS, SINGAPORE (ACES)
18 SIN MING LANE
#06-01 MIDVIEW CITY
SINGAPORE 573960
secretariat@aces.org.sg

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.orq.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
REAL ESTATE DEVELOPERS' ASSOCIATION OF SINGAPORE (REDAS)
190 CLEMENCEAU AVENUE
#07-01 SINGAPORE SHOPPING CENTRE
SINGAPORE 239924

enquiry@redas.com

PRESIDENT SINGAPORE INSTITUTE OF SURVEYORS & VALUERS (SISV) 110 MIDDLE ROAD #09-00 CHIAT HONG BUILDING SINGAPORE 188968 sisv.info@sisv.org.sg PRESIDENT SINGAPORE STRUCTURAL STEEL SOCIETY (SSSS) 1 LIANG SEAH STREET #02-11/12 LIANG SEAH PLACE SINGAPORE 189022 secretariat@ssss.org.sg

PRESIDENT
GEOTECHNICAL SOCIETY OF SINGAPORE (GEOSS)
C/O GLOBEWERKS INTERNATIONAL PTE LTD
22 SIN MING LANE
#03-85 MIDVIEW CITY
SINGAPORE 573969
secretariat@geoss.sq

PRESIDENT
PROFESSIONAL ENGINEERS BOARD, SINGAPORE (PEB)
52 JURONG GATEWAY ROAD, #07-03
SINGAPORE 608550
registrar@peb.gov.sq

PRESIDENT
BOARD OF ARCHITECTS (BOA)
5 MAXWELL ROAD
1ST STOREY TOWER BLOCK
MND COMPLEX
SINGAPORE 069110
boarch@singnet.com.sg

DIRECTOR OF INFRASTRUCTURE SCHOOL CAMPUS DEPARTMENT MINISTRY OF EDUCATION 1 NORTH BUONA VISTA DRIVE SINGAPORE 138675 choo_boon_chiao@moe.gov.sg

DIRECTOR
BEST SOURCING DEPARTMENT
PUBLIC UTILITIES BOARD
40 SCOTTS ROAD #18-01
ENVIRONMENT BUILDING
SINGAPORE 228231
HERMAN_CHING@PUB.GOV.SG
lim_kim_tee@pub.gov.sg

DEPUTY CHIEF EXECUTIVE
INFRASTRUCTURE & DEVELOPMENT
LAND TRANSPORT AUTHORITY
1 HAMPSHIRE ROAD
BLOCK 8 LEVEL 1
SINGAPORE 219428
chong_kheng_chua@lta.gov.sg

DEPUTY DIRECTOR
PROJECT DEVT & MGT SECT 1 (C&S)
BUILDING QUALITY GROUP
HOUSING & DEVELOPMENT BOARD
HDB HUB
480 LORONG 6 TOA PAYOH
SINGAPORE 310480
low_kiang_heng@hdb.gov.sg

AG DIRECTOR
TECHNICAL SERVICES DIVISION
JTC CORPORATION
THE JTC SUMMIT
8 JURONG TOWN HALL ROAD
SINGAPORE 609434
tan_su_chern@jtc.gov.sg

DIRECTOR
BUILDING
PEOPLE'S ASSOCIATION
9 STADIUM LINK
SINGAPORE 397750
foo soon leng@pa.gov.sq

PRESIDENT
THE TUNNELLING AND UNDERGROUND
CONSTRUCTION SOCIETY SINGAPORE (TUCSS)
C/O CMA INTERNATIONAL CONSULTANTS PTE LTD
1 LIANG SEAH STREET
#02-12 LIANG SEAH PLACE
SINGAPORE 189022
info@tucss.org.sg

PRESIDENT SOCIETY OF ROCK MECHANICS AND ENGINEERING GEOLOGY 1 LIANG SEAH STREET #02-12 LIANG SEAH PLACE SINGAPORE 189022 srmeq@cma.sq

DEPUTY CHIEF EXECUTIVE OFFICER SENTOSA DEVELOPMENT CORPORATION 33 ALLANBROOKE ROAD, SENTOSA SINGAPORE 099981 agencies_circulars@sentosa.com.sg

HEAD (FIRE SAFETY AND BUILDING CONTROL)
BUILDING AND INFRASTRUCTURE
DEFENCE SCIENCE & TECHNOLOGY AGENCY
1 DEPOT ROAD
DEFENCE TECHNOLOGY TOWER A
SINGAPORE 109679
HOW AH MENG

EMAIL: hahmeng@dsta.gov.sg

DIRECTOR BUILDING AND INFRASTRUCTURE DEFENCE SCIENCE & TECHNOLOGY AGENCY 1 DEPOT ROAD DEFENCE TECHNOLOGY TOWER A SINGAPORE 109679

EMAIL: lee_eng_hua@dsta.gov.sg

ALL CORENET E-INFO SUBSRIBERS