

NA to SS EN 1993-1-8:2010(2023)
(ICS 91.010.30)

SINGAPORE STANDARD

**Singapore National Annex to Eurocode 3 :
Design of steel structures**

– Part 1-8 : Design of joints

Confirmed 2023

NA to SS EN 1993-1-8:2010(2023)

(ICS 91.010.30)

SINGAPORE STANDARD

Singapore National Annex to Eurocode 3 : Design of steel structures

– Part 1-8 : Design of joints

Published by Enterprise Singapore

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilming, without permission in writing from Enterprise Singapore. Request for permission can be sent to: standards@enterprisesg.gov.sg.

© Enterprise Singapore 2010

ISBN 978-981-4278-82-9

Contents

	Page
National Foreword _____	3
 Clauses	
NA.1 Scope _____	4
NA.2 Nationally determined parameters _____	4
NA.3 References to non-contradictory complementary information _____	5
 Tables	
NA.1 Partial safety factors, γ_M for joints _____	5
Bibliography _____	7

National Foreword

This National Annex was prepared by the Technical Committee on Building Structure and Sub-structure under the purview of the Building and Construction Standards Committee.

This standard is an adoption of UK National Annex (NA to BS EN 1993-1-8:2005) to Eurocode 3 : Design of steel structures – Part 1-8 : Design of joints and is implemented with the permission of the British Standards Publishing Ltd.

Acknowledgement is made to BSI for the use of information from the above publication.

This Singapore NA contains information on those parameters which are left open in EN 1993-1-8 for national choice, known as nationally determined parameters. The Singapore NA is to be read in conjunction with the SS EN 1993-1-8 : 2010 – Eurocode 3: Design of steel structures – Part 1-8 : Design of joints.

Where appropriate, users may refer to the guidance and recommendation in the BC 1:2008 'Design Guide on use of alternative steel material to BS 5950' published by the Building and Construction Authority (BCA). Reference should be made to the most current version as this publication is expected to be replaced by subsequent revisions based on the SS EN 1993 series of standards.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all such patent rights.

NOTE

- 1. Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "mature standards". Mature standards will not be subject to further review unless there are requests to review such standards.*
- 2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
- 3. Compliance with a SS or TR does not exempt users from any legal obligations.*

Singapore National Annex to SS EN 1993-1-8 : 2010 – Eurocode 3: Design of steel structures – Part 1-8 : Design of joints

NA.1 Scope

This National Annex gives:

- a) the Singapore decisions for the National Determined Parameters a) described in the following subclauses of SS EN 1993-1-8:2010:
 - 1.2.6(Group 6: Rivets)
 - 2.2(2)
 - 3.1.1(3)
 - 3.4.2(1)
 - 5.2.1(2)
 - 6.2.7.2(9)
- b) references to non-contradictory complementary information.

NA.2 Nationally determined parameters

NA.2.1 General

Decisions for the nationally determined parameters described in SS EN 1993-1-8:2010 are given in clauses **NA.2.2** to **NA.2.7**.

NA.2.2 Reference Standards, Group 6 Rivets [SS EN 1993-1-8:2010, 1.2.6 (Group 6: Rivets)]

BS 4620:1970 should be used for the dimensions, head shapes, and materials for rivets. For S235 and S275 steel grades the design resistance should be limited to the yield resistance as there is no separate serviceability check.

NA.2.3 Partial safety factors, γ_M , for joints [SS EN 1993-1-8:2010, 2.2(2)]

The partial factors given in Table NA.1 should be used.