

In Collaboration With



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For enquiries, please contact:
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or use our Online Feedback Form at:
<https://www.bca.gov.sg/feedbackform/>

Dear Sir/Madam

JOINT BCA/ACES/LTA CIRCULAR 2024
DESIGN GUIDE FOR USE OF HEADED BARS TO EUROCODE 2

Objective

This circular is to inform the industry on the publication of the 'Design Guide for Use of Headed Bars to Eurocode 2', which was jointly developed by the Singapore Institute of Technology ("SIT"), Association of Consulting Engineers, Singapore ("ACES"), Land Transport Authority ("LTA") and Building and Construction Authority ("BCA") to provide guidance for the design of headed bars to Eurocode 2.

Background

2 Headed bars can contribute to the tension anchorage of reinforcement bars in concrete, and in certain qualifying design situations they can even provide full tension anchorage. The adoption of headed bars can offer straight anchorage with a reduced anchorage length.

Design Guide for Use of Headed Bars to Eurocode 2

3 The design guide provides clear design rules to Eurocode 2 for using anchor heads on main longitudinal reinforcement bars in tension, with a focus on the contribution provided by the head to anchor the reinforcement bar so that the anchorage length can be reduced.

4 This guide also outlines typical applications where headed bars can be used efficiently and includes additional rules for best practice. Its aim is to enhance confidence in the design and use of headed bars, which can potentially improve construction productivity and elevate construction quality.

5 The design guide is available in softcopy at the respective websites of ACES and BCA, namely:

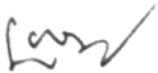
- https://www.aces.org.sg/wp-content/pdf/ACES_Design%20Guide%20Headed%20Bar_Jul%202024_R0.pdf
- <https://go.gov.sg/headed-bar>

6 The design guide will be incorporated in the next update of the Approved Document. Notwithstanding that, industry practitioners can adopt the use of this design guide with immediate effect, if they wish to do so.

For Clarification

7 We would appreciate it if you could bring the content of this circular to the attention of your members. Should you need clarification on this matter, you may call our hotline at 1800 342 5222, or use our Online Feedback Form at: <https://www.bca.gov.sg/feedbackform/>.

Yours faithfully



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