

Foreword

This manual provides technical information for designers and contractors to design and plan the construction operation.

The body of the manual is split into eight distinct sections:

1. Components
2. Structural design
3. Deck span and beam selector tables
4. Connection design
5. Services design
6. Acoustic design
7. Construction
8. Supplier information

The manual is intended to provide all the information needed for designers and constructors using Slimdek in grids up to 9m x 9m in a wide range of applications. Where Slimdek is used for applications outside the scope of this manual, reference should be made to the Corus Construction Services & Development staff and to other supporting documents and computer software listed below.

The Construction Services & Development department at Corus provides free technical and commercial advice to help specifiers acquire best practice in design and construction using steel. Experts with in-depth knowledge and experience in civil, structural and building design are available to help speed up the design process, facilitate innovation and encourage an integrated approach. The Construction Services & Development department is directly linked to Corus offices around the world to give rapid sales and technical support at a local level.

Corus Publications

Slimdek - Engineered Flooring Solutions^[52]
 Slimdek - Structure and Services Integration^[53]
 Slimdek - The Residential Pattern Book^[54]
 The Prevention of Corrosion on Structural Steelwork^[55]

Corus Software

Software and further information to assist in the design of the Slimdek system is available from the Corus in Construction website at www.corusconstruction.com

Design Assistance

Design

- Slimflor Integrated Design Software (SIDS)

Detailing

- Slimdek details

Steel Construction Institute (SCI) Publications

- SCI-P-169: Design of RHS Slimflor Edge Beams^[18]
- SCI-P-175: Design of Asymmetric Slimflor Beams using Deep Composite Decking^[19]
- SCI-P-248: Design of Slimflor Fabricated Beams using Deep Composite Decking^[23]
- SCI-P-273: Service Integration in Slimdek^[24]
- SCI-P-279: Value and benefit of Slimdek construction^[25]
- SCI-P-300: Composite Slabs and Beams using Steel Decking: Best Practice for Design and Construction (publication with MCRMA)^[26]
- SCI-P-309: Case studies on Slimdek^[27]
- SCI-P-321: Acoustic Performance of Slimdek^[28]
- SCI-P-372: Acoustic detailing for steel construction^[31]
- SCI-P-380: Avoidance of thermal bridging in steel construction^[32]

SCI-P-169, 175 and 248 can be downloaded from the Corus in Construction website at www.corusconstruction.com

BCSA publication

Guide to the Installation of Deep Decking^[48]

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