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## **Composite Highway Bridge Design**

This publication presents worked examples of the detailed design of two composite highway bridges. Each bridge is formed by steel girders acting compositely with a reinforced concrete deck slab. The first example is of multi-girder form, the second is of ladder-

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deck form. The examples cover the principal steps in the verification of the

## **Composite Highway Bridge Design: Worked Examples**

design of composite highway bridges, covering the two principal structural configurations that are used in the UK: multi-girder and ladder deck construction. In the initial design stages for

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a composite bridge, many of the key decisions are made about the form, shape and size of the structural components. To make these

### **Composite Highway Bridge Design - Steel Construction**

Composite highway bridge design This publication provides guidance on the design of composite highway bridges which take the

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form of a reinforced concrete slab on top of steel girders. It describes two common forms of construction: one using multiple parallel girders and the other using twin main girders with regularly spaced cross girders - the so-called ladder deck form of construction.

### **Composite Highway Bridge Design - Civil Engineering**

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Design Guide for Composite Highway Bridges covers the design of continuous composite bridges, with both compact and non-compact sections, and simply supported composite bridges of the 'slab-on-beam' form of construction. The guide assumes that the reader is familiar with the general principles of limit state



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P393) Determining  
design displacements

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## **Composite highway bridge design (SCI P356)**

The guidance relates mainly to highway bridge decks, and where the deck slab is on top of 1-section steel girders. Main beams, restraints, slab design and shear connection design principles are presented. Elastic and plastic moment

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## Highway Bridge Design

resistance of beams are both included (non-compact and compact sections according to BS 5400 terminology).

### **Design guide for composite highway bridges - The ...**

Composite highway bridge design: Worked examples (SCI P357)

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Publications List» This publication is the second in a set of SCI bridge design guides

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that reflect the rules in the Eurocodes. It presents two worked examples, one for a two-span multi-girder integral bridge and the other for a three-span ladder deck bridge.

## **Composite highway bridge design: Worked examples (SCI P357)**

Seminar 'Bridge Design with Eurocodes' - JRC  
Ispra, 1-2 October  
2012

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SLS • Limitation of stresses for steel and composite bridges –As in EN1992-2 and EN1993-2 ( $f_y$  in the steel part) • Limitation of crack widths for composite bridges –As in EN1992-2 with tension stiffening ( $w_k = 0.3\text{mm}$  in general)

## **Design of steel and composite bridges Highway bridges**

This composite bridge design can be used in

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the following ways: 1.  
Simple Beam Bridges -  
On short spans (8m,  
10m, 15m and then  
more expensively up to  
24m), bridges can be  
made from a number  
of beams under the  
roadway straight  
across the gap. The  
bridges benefit the  
most from composite  
action.

## **Composite Bridges | Design & Construction**

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Complementary  
publication to SCI P356

Composite highway  
bridge design, 2010.

Logo and credits have  
been updated for Tata  
Steel Europe. P357.

See Page 130 for  
corrigenda noted up to  
10/3/2014. ISBN.

9781859421956.

Subjects. Civil  
engineering,  
infrastructure and  
public utilities  
Transport facilities  
Bridges Steel in



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## **Composite highway bridge design: worked examples. In**

...

It is possible to influence the load carried by a composite deck section in a number of ways during the erection of a bridge. By propping the steel beams while the deck slab is cast and until it has gained strength, then the

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composite section can be considered to take the whole of the dead load.

## **Bridge Design| Composite Bridge Deck Design**

The usual design of the composite bridge consists of eight double symmetric I-girders with a constant height of 1080mm, carrying pre-fabricated concrete decks on top with a constant

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Design  
thickness of 250mm.

The stainless steel girders are made of the Duplex stainless steel grade 1.4462.

## **Stainless Steel Composite Highway Bridge: Reduced ...**

A composite highway bridge has 3 continuous spans - A, B and C of 24, 40 and 32 m. The main ladder deck girders are 10 m apart with cross girders at roughly 3 m centres.

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The carriageway carries Load Model 1 loading only. The section depth including the slab is 1.75 m.

## **Preliminary Steel Composite Bridge Design Charts (Eurocode ...**

REIDsteel - STANDARD  
STEEL COMPOSITE  
BEAM BRIDGES FOR  
ROADS AND HIGHWAYS

The design of the  
composite beam bridge  
by REIDsteel is suitable

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Highway Bridge  
Design  
to span a range of 10m  
to 20m - up to 30m.

The Carriageways are supported by pairs of beams at 1.7m centres. A carriage way may therefore be 5.1m overall wide, with 1.2m walkways both sides.

## **Highway Beam Bridges Construction | Composite Beams Bridge ...**

This publication is a companion to  
Composite Highway

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Highway Bridge  
Bridge Design: Worked  
Examples. Price £50.00  
(BCSA and SCI member  
price £25.00)

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Authors D C Iles MSc

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## Highway Bridge

Introduction For the last 20 years, SCI has provided guidance to the designers of composite highway bridges. General guidance on best practice, based on the views of experienced senior designers, has been accompanied by guidance on the use of design standards, notably, in the past, on the use of BS 5400.

**Design Illustration -**  
*Page 23/25*

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## Highway Bridge **Composite Highway Bridges | Bridge ...**

For many years Corus, and British Steel before them, have published preliminary design charts for steel-concrete composite highway bridges as part of their suite of design guidance for bridge engineers.

These charts were originally developed using BS 5400 and the Highways Agency's Design Manual for



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(DMRB).

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