

## NRA ADDENDUM TO

### BD 16/82

## DESIGN OF COMPOSITE BRIDGES USE OF BS 5400: PART 5: 1979 [AND AMENDMENT NO.1]

Standard BD 16/82 - Design of Composite Bridges, Use of BS 5400: Part 5: 1979 [and Amendment No.1 dated 10 December 1987] - is applicable in Ireland with the following amendments:

### GENERAL

1. Where the Standard is applied for the design of structural components which are procured through a contract incorporating the NRA Specification for Road Works, products conforming to equivalent standards and specifications of other member states of the European Union will be acceptable in accordance with the terms of Clauses 104 and 105 of that Specification. Any contract for the procurement of structural components which does not include these Clauses must contain a suitable clause of mutual recognition having the same effect, regarding which advice should be sought.
2. The Standard provides specification requirements for use in public purchasing contracts. It does not lay down legislation requirements for products and materials used in road construction in Ireland.
3. The Standard should be used forthwith for all schemes for the construction and/or improvement of national roads. The Standard should be applied to the design of schemes already being prepared unless, in the opinion of the National Roads Authority, application would result in significant additional expense or delay progress. In such cases, Design Organisations should confirm the application of this Standard to particular schemes with the National Roads Authority.
4. At several locations:  
  
For: "Departmental Standard"  
Read: "Standard";  
  
For: "highway"  
Read: "road";  
  
For: "Department's"  
Read: "National Road Authority's".
5. The standard grades of structural steel referred to in BS 5400: Part 5, as implemented by BD16, are based on those described in BS 4360, which has since been withdrawn. Pending the long term revision of BS 5400: Part 5, references to the former steel grades 40A, 43A and 50A are to be read as S235, S275 and S355 respectively, as specified in IS EN 10025: 1994 (and Amendment No.1 dated 1993).

## SPECIFIC

### 1. **BD 16/82**

- 1.1 Cover, Enquiries:  
Delete text.
- 1.2 Page 1, Paragraph 1.1, line 6:  
For: "Department of Transport"  
Read: "National Roads Authority".
- 1.3 Page 1, Paragraph 1.1, line 9:  
For: "the Department has therefore decided to amend Part 5"  
Read: "Part 5 has been amended".
- 1.4 Page 1, Paragraph 1.1:  
Delete last sentence of this paragraph, beginning, "The opportunity has also been taken..."
- 1.5 Page 1, Paragraph 3.1, line 1:  
For: "highway structures belonging to the Department of Transport"  
Read: "road structures on schemes funded by the National Roads Authority".
- 1.6 Page 1, Paragraph 3.1, line 5:  
For: "this Department"  
Read: "the National Roads Authority".
- 1.7 Page 1, Paragraph 3.2, line 2:  
For: "Appendix A to this Departmental Standard."  
Read: "Appendix A and Amendment No.1 to this Standard."
- 1.8 Page 1, Paragraph 3.3:  
Delete Paragraph 3.3.
- 1.9 Page 1, Section 4:  
For: "Additional Departmental Requirements"  
Read: "Additional National Roads Authority Requirements".
- 1.10 Page 1, Paragraph 4.1, line 3:  
For: "Departmental Standard BD 2/79"  
Read: "NRA BD 2 (NRA DMRB 1.1)".
- 1.11 Page 2, Section 5, reference 1:  
For: "Part 4: 1978: Code of Practice for Design of Concrete Bridges."  
Read: "Part 4: 1990: Code of Practice for Design of Concrete Bridges."
- 1.12 Page 2, Section 5, references 2 and 3:  
Delete references 2 and 3 and replace with:  
"2. NRA Manual of Contract Documents for Road Works,  
Volume 1: Specification for Road Works.  
  
3. IS EN 10025:1994 Hot-Rolled Products of Non-Alloy Structural Steels: Technical Delivery  
Conditions."

- 1.13 Page 2, Section 6:  
Delete text and replace with:  
“6.1 All technical enquiries or comments on this Standard should be sent in writing to:

Head of Project Management and Engineering  
National Roads Authority  
St Martin’s House  
Waterloo Road  
Dublin 4”

**2. Amendment No.1**

- 2.1 Page 1, Section 1, line 4:  
For: “the Department”  
Read: “the UK Department of Transport”.

- 2.2 Page 1, Section 1, line 8:  
Delete: “by the Department”.

- 2.3 Page 10, Section 3:  
Delete text and replace with:  
“3.1 All technical enquiries or comments on this Standard should be sent in writing to:

Head of Project Management and Engineering  
National Roads Authority  
St Martin’s House  
Waterloo Road  
Dublin 4”



.....  
E O’CONNOR  
Head of Project Management and  
Engineering

