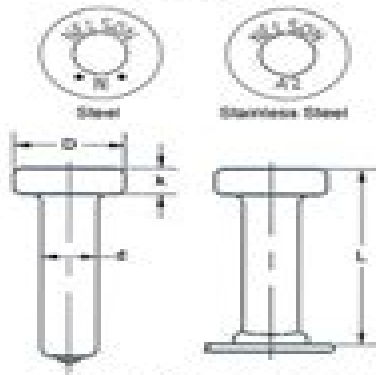


### Head Marking



**FLUX:** All Nelson shear connectors have a solid flux load.

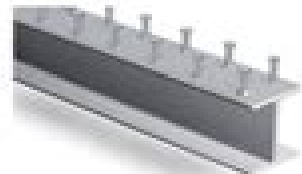
Nelson studs deliver code specified shear strength values as used in composite construction, securing concrete to steel structural components.

**Headed anchors** are widely use in precast, cast in place or composite steel construction for miscellaneous embedded plates, frames, curbing, attachments and connections.

**Shear connectors** are typically used in composite steel construction for holding concrete slabs to steel members to resist shear forces and increase shear loading capacity in steel buildings, bridges, columns caissons, containment liners, etc. They also act as embedment anchors on miscellaneous embedded plates, frames, angles, strip plates, attachments and connections. Options for Welding Through Metal Deck are available for all studs.

### Material - Cold-Finished , Low Carbon Mild Steel and Stainless Steel

| d | 10MM | 13MM | 16MM | 19MM | 22MM | 25MM |
|---|------|------|------|------|------|------|
| D | 19   | 25   | 32   | 32   | 35   | 41   |
| K | 7    | 8    | 8    | 10   | 10   | 12.5 |



H/L Headed Concrete Anchors

| Part#       | d  | L<br>(Nominal) | Weight<br>kg/1000 |
|-------------|----|----------------|-------------------|
| 101-053-037 | 10 | 50             | 42                |
| 101-053-041 | 10 | 75             | 57                |
| 101-053-043 | 10 | 100            | 78                |
| 102-053-005 | 10 | 125            | 86                |
| 101-053-045 | 10 | 150            | 99                |
| 101-053-047 | 13 | 50             | 78                |
| 101-053-002 | 13 | 75             | 106               |
| 101-053-003 | 13 | 100            | 127               |
| 101-053-005 | 13 | 125            | 159               |
| 101-053-008 | 13 | 150            | 177               |
| 102-053-007 | 13 | 175            | 210               |
| 101-053-010 | 13 | 200            | 235               |
| 101-053-014 | 16 | 75             | 161               |
| 101-053-015 | 16 | 100            | 203               |
| 101-053-064 | 16 | 125            | 254               |
| 101-053-063 | 16 | 150            | 284               |
| 101-053-023 | 16 | 200            | 359               |
| 102-053-001 | 16 | 250            | 438               |

### PRODUCT SPECIFICATION STANDARDS: (see details in page 15)

**AWS D1.1 Type B:** Structural Welding Code - Steel Studs

**ISO 13918 :** Type SD1 Studs and Ceramic Ferrules

**BS 5950-3 :** Shear Connectors for Buildings

**BS 5400-5 :** Shear Connectors for Composite Bridges

**JIS B 1198 :** Headed Studs

S/L Shear Connector

| Part#       | d  | L<br>(Nominal) | Weight<br>kg/1000 |
|-------------|----|----------------|-------------------|
| 101-008-078 | 10 | 50             | 156               |
| 101-008-003 | 10 | 75             | 216               |
| 101-008-007 | 10 | 100            | 274               |
| 101-008-011 | 10 | 125            | 334               |
| 101-008-015 | 10 | 150            | 393               |
| 101-008-019 | 10 | 175            | 451               |
| 101-008-023 | 10 | 200            | 487               |
| 101-008-085 | 10 | 225            | 570               |
| 101-008-073 | 10 | 250            | 620               |
| 102-008-025 | 10 | 300            | 717               |
| 101-008-031 | 22 | 100            | 381               |
| 101-008-035 | 22 | 125            | 462               |
| 101-008-039 | 22 | 150            | 542               |
| 101-008-043 | 22 | 175            | 622               |
| 101-008-047 | 22 | 200            | 676               |
| 101-008-119 | 22 | 225            | 753               |
| 101-008-007 | 22 | 250            | 838               |
| 101-008-033 | 22 | 275            | 906               |
| 101-008-066 | 22 | 300            | 967               |
| 101-008-032 | 22 | 350            | 1138              |
| 101-008-204 | 25 | 100            | 495               |
| 101-008-192 | 25 | 125            | 600               |
| 101-008-168 | 25 | 150            | 704               |
| 101-008-177 | 25 | 200            | 902               |
| 101-008-009 | 25 | 250            | 1079              |

# Nelson Stud Design Manual 1977

**M Tight**



## **Nelson Stud Design Manual 1977:**

**Journal of the American Concrete Institute** American Concrete Institute,1982      **Manual of Numerical Methods in Concrete** M Y H Bangash,2001-07-27 Manual of numerical methods in concrete aims to present a unified approach for the available mathematical models of concrete linking them to finite element analysis and to computer programs in which special provisions are made for concrete plasticity cracking and crushing with and without concrete aggregate interlocking Creep temperature and shrinkage formulations are included and geared to various concrete constitutive models      *Engineering Journal* ,1993      **Constructional Steel Design** P.J. Dowling,R. Bjorhovde,J. E Hard,1992-11-13 Constructional Steel Design presents state of the art knowledge on the design of steel structures Independent of national design codes subjects include materials aspects of steel as well as metallurgy fatigue corrosion inspection fire protection element behaviour and strength

**Concrete International** ,1989      **Engineering News-record** ,1977-04      **PCI Journal** ,1985      Handbook of Port and Harbor Engineering Gregory Tsinker,2014-11-14 This indispensable handbook provides state of the art information and common sense guidelines covering the design construction modernization of port and harbor related marine structures The design procedures and guidelines address the complex problems and illustrate factors that should be considered and included in appropriate design scenarios      *Nuclear News* ,1977      **Steel-Concrete Composite Structures** R. Narayanan,1988-12-31 This is a collection of ten extensive review chapters by different authors      *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1978      **Design Concepts in Nutritional Epidemiology** Barrie M. Margetts,Michael Nelson,1997-04-24 In examining the relationship between nutritional exposure and disease aetiology the importance of a carefully considered experimental design cannot be overstated A sound experimental design involves the formulation of a clear research hypothesis and the identification of appropriate measures of exposure and outcome It is essential that these variables can be measured with a minimum of error whilst taking into account the effects of chance and bias and being aware of the risk of confounding variables The first edition of Design Concepts in Nutritional Epidemiology presented a thorough guide to research methods in nutritional epidemiology Since publication of the 1st edition we now have a much better understanding of the characteristics of nutritional exposure that need to be measured in order to answer questions about diet disease relationships The 2nd edition has been extensively revised to include the most up to date methods of researching this relationship Included are new chapters on qualitative and sociological measures anthropometric measures gene nutrient interactions and cross sectional studies Design Concepts in Nutritional Epidemiology will be an essential text for nutritionists and epidemiologists helping them in their quest to improve the quality of information upon which important public health decisions are made      Australian Books in Print 1996 Thorpe, D. W., Staff,1996-04 This unique reference provides detailed bibliographic information on in print books published in or about Australia or written by Australian authors There are also details on publishers distributors whose titles are represented as well as information on all

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## **Table of Contents Nelson Stud Design Manual 1977**

1. Understanding the eBook Nelson Stud Design Manual 1977
  - The Rise of Digital Reading Nelson Stud Design Manual 1977
  - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Stud Design Manual 1977
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nelson Stud Design Manual 1977
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Stud Design Manual 1977
  - Personalized Recommendations
  - Nelson Stud Design Manual 1977 User Reviews and Ratings
  - Nelson Stud Design Manual 1977 and Bestseller Lists
5. Accessing Nelson Stud Design Manual 1977 Free and Paid eBooks
  - Nelson Stud Design Manual 1977 Public Domain eBooks
  - Nelson Stud Design Manual 1977 eBook Subscription Services
  - Nelson Stud Design Manual 1977 Budget-Friendly Options
6. Navigating Nelson Stud Design Manual 1977 eBook Formats

- ePub, PDF, MOBI, and More
- Nelson Stud Design Manual 1977 Compatibility with Devices
- Nelson Stud Design Manual 1977 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nelson Stud Design Manual 1977
  - Highlighting and Note-Taking Nelson Stud Design Manual 1977
  - Interactive Elements Nelson Stud Design Manual 1977
- 8. Staying Engaged with Nelson Stud Design Manual 1977
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nelson Stud Design Manual 1977
- 9. Balancing eBooks and Physical Books Nelson Stud Design Manual 1977
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nelson Stud Design Manual 1977
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Nelson Stud Design Manual 1977
  - Setting Reading Goals Nelson Stud Design Manual 1977
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nelson Stud Design Manual 1977
  - Fact-Checking eBook Content of Nelson Stud Design Manual 1977
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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