

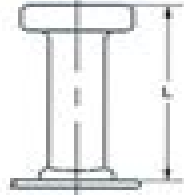
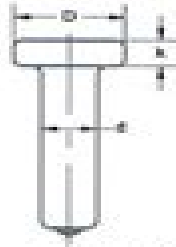
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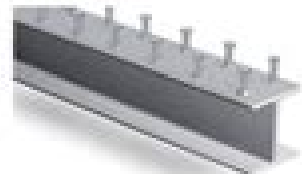
Steel



Stainless Steel



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



H/L Headed Concrete Anchors

Part#	d	L (Nominal)	Weight 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

## Headed Concrete Anchors and Shear Connectors

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

S/L Shear Connector

Part#	d	L (Nominal)	Weight 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 Guide

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## **Table of Contents Nelson Stud Design Guide**

1. Understanding the eBook Nelson Stud Design Guide
  - The Rise of Digital Reading Nelson Stud Design Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Stud Design Guide
  - 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 Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Stud Design Guide
  - Personalized Recommendations
  - Nelson Stud Design Guide User Reviews and Ratings
  - Nelson Stud Design Guide and Bestseller Lists
5. Accessing Nelson Stud Design Guide Free and Paid eBooks

- Nelson Stud Design Guide Public Domain eBooks
- Nelson Stud Design Guide eBook Subscription Services
- Nelson Stud Design Guide Budget-Friendly Options
- 6. Navigating Nelson Stud Design Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Nelson Stud Design Guide Compatibility with Devices
  - Nelson Stud Design Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nelson Stud Design Guide
  - Highlighting and Note-Taking Nelson Stud Design Guide
  - Interactive Elements Nelson Stud Design Guide
- 8. Staying Engaged with Nelson Stud Design Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nelson Stud Design Guide
- 9. Balancing eBooks and Physical Books Nelson Stud Design Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nelson Stud Design Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Nelson Stud Design Guide
  - Setting Reading Goals Nelson Stud Design Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nelson Stud Design Guide
  - Fact-Checking eBook Content of Nelson Stud Design Guide
  - 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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web circle the correct answers the mass of the system a b is m 2m the force that accelerates a b is the weight of a b the

weight of b is  $mg$  2 acceleration of a b is less than  $mg$  2  $mg$  g g more than g use a to show the acceleration of a b as a fraction of conceptual physics

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web t t toward center of circle yes yes yes f f because centripetal acceleration is not zero n n yes provides centripetal force for circular motion conceptual physics

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web dec 12 2012 1 draw sample force of shown hand 3 a which the b which the 4 it is important to distinguish between force and velocity vectors force vectors combine with other force vectors and velocity vectors combine with other velocity vectors do velocity vectors combine with force vectors no 5

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web circle the correct answers 5 we see that tension in a rope is dependent on independent of the length of the rope so the length of a vector representing rope tension is dependent on independent of the length of the rope concept development 2 2 practice page

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