

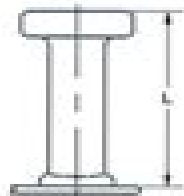
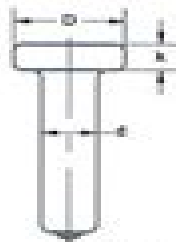
# Head Marking



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 Shear Stud Design Manual

**CO Houle**



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Machine Design ,1957      Product Engineering ,1957 Vol for 1955 includes an issue with title Product design handbook  
issue 1956 Product design digest issue 1957 Design digest issue      **Public Works Manual** ,1981      **Western**  
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**Building Standards Monthly** ,1972      **PCI Journal** ,2007      *The Iron Age* ,1957      **PCI Manual on Design of**  
**Connections for Precast Prestressed Concrete** PCI Committee on Connection Details,1973      **Journal of the American**  
**Concrete Institute** American Concrete Institute,1982      **Public Works Manual and Catalog File** ,1977      **Welding**  
**Journal** ,1968      **Steel-Concrete Composite Structures** R. Narayanan,1988-12-31 This is a collection of ten extensive  
review chapters by different authors      **Highway Builder** ,1968      **Journal - Prestressed Concrete Institute**  
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