

STUD WELDING

Concrete Anchors

NELSON STUD WELDING SPECIFICATION

H4L Headed Concrete Anchors (HCA)

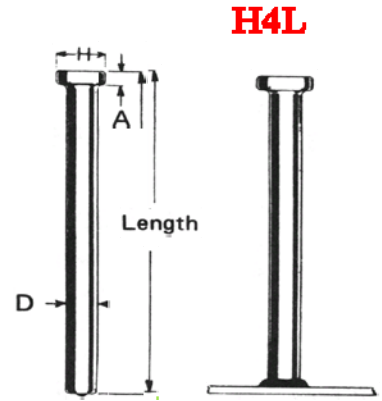
Nelson headed concrete anchors deliver code specified embedded tension and shear strength values between steel and concrete. These anchors meet requirements of the following codes and are also USNRC approved:

- AWS D1.1 Structural Welding Code – Steel
- AWS D1.6 Structural Welding Code – Stainless Steel
- AWS D1.5 Bridge Welding Code
- AASHTO Standard Specification for Highway Bridges
- ISO-13918 Welding – Studs for Arc Stud Welding
- Canadian Standards Association W59 – Welded Steel Construction
- International Building Code Section 19

See also: ICBO Evaluation Report ER-2614 Nelson Shear Connectors

Headed anchors are widely used in precast, cast-in-place or composite steel construction for miscellaneous embedded plates, frames, curbing, attachments and connections. Options for [Welding Through Metal Deck](#) are available for this stud.

For similar function studs, see Nelson [S3L Shear Connectors](#) and [D2L Deformed Bar Anchors](#).



When ordering, specify Type, Diameter, Before Weld Length, Material, Quantity, and Part Number
Example: H4L 1/2 x 4-1/8"; Mild Steel; 5000 pieces; #101053003

Stud Diameter	Burn Off	A	H	Ferrule to Flat	Required Standard Accessories		
					Chuck	Foot*	Grip for Flat
1/4 6 mm	0.125 3 mm	0.187	0.500	100101067	500001014	502002001	501003007
3/8 10 mm	0.125 3 mm	0.281	0.750	100101099	500001018	502002001	501003009
1/2 13 mm	0.125 3 mm	0.312	1.000	100101114	500001085	502002002	501003010
5/8 16 mm	0.187 4 mm	0.312	1.250	100101187	500001088	502002002	501003014

*Feet 502002001 and 502002002 are used with Nelson's heavy duty gun.
 Feet 502002045 and 502002046 is used with Nelson's standard duty gun.

MATERIALS: Studs are available in Low Carbon Mild Steel and 316L Stainless Steel. For specific grade information and physical and chemical properties, conforming standards, and information on stud plating and heat treating, please see [General Material Specifications](#). Certified Material Test Reports (CMTR) and Certificates of Compliance (COC) are available and must be requested at time of order.

For ferrules and grips used in welding at an angle to plate, welding to angles, and welding to a vertical base plate, see the [Special Applications](#) section of the [Ferrule Specifications](#).

FLUX: All Nelson concrete anchors have a solid flux load.