

STUD WELDING

Concrete Anchors

NELSON STUD WELDING SPECIFICATION

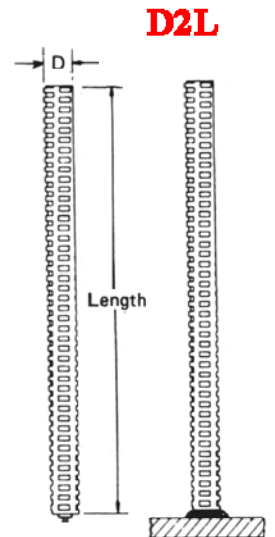
D2L Deformed Bar Anchors (DBA)

Nelson deformed bar anchors deliver full tension capacity when embedded according to code requirements and provide specified shear strength when embedded at proper edge distances and spacing between bars. Nelson deformed bar anchors are used for deep embedment anchors in such applications as precast columns, tee and beam connections, seismic shear walls and securing steel plates to concrete structures. Nelson deformed bars meet requirements of the following codes and are also USNRC approved:

- AWS D1.1 Structural Welding Code – Steel
- ASTM A – 496 Steel Wire, Deformed, For Concrete Reinforcement
- ACI-318 Building Code Requirements for Structural Concrete
- Precast/Prestressed Concrete Institute Design Handbook
- Canadian Standards Association
- International Building Code Section 19

See ICBO Evaluation Report ER-5217

For similar function studs, see [Nelson B4L Reinforcing Standoff Support studs](#), [H4L Headed Concrete Anchors](#), [J2L "J" Bolt studs](#), and [S3L Shear Connectors](#).

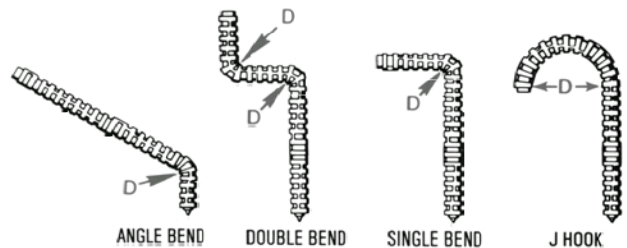


When ordering, specify Type, Diameter, Before Weld Length, Material, Quantity, and Part Number
Example: D2L 1/2 x 18-1/8"; Mild Steel; 5000 pieces; #101064765

Stud Diameter	Burn Off	Recommended Standard Accessories			
		Chuck	Grip	Ferrule	Foot
3/8 10 mm	0.125 3 mm	500001011	501003009	100101099	502002001*
1/2 13 mm	0.125 3 mm	500001014	501003010	10010114	502002002*
5/8 16 mm	0.187 4 mm	500001016	501003014	10010187	502002002*
3/4 19 mm	0.187 4 mm	500001018	501003019	10010152	502002009

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

Nelson deformed bar anchors are also available on special order bent to the following shapes. The minimum bend diameter on the standard hooks shown is 6 x Bar Diameter and on 135° tie hooks 4 x Bar Diameter except for 3/4" bar which should be 6 x Bar Diameter. See *ACI-318 Chapter - Details of Reinforcement* for additional requirements.



MATERIALS: Studs are available in Low Carbon Mild Steel and Stainless Steel. For specific grade information and physical and chemical properties, and conforming standards, 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 special 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 deformed bar anchors have a solid flux load.