

NELSON STUD WELDING

SPECIFICATION: R1P and R1L Rectangular Stud without Hole

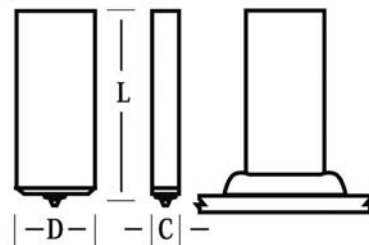
Nelson R1P and R1L studs are used for a variety of purposes. Frequently, they are used as stops, standoffs, or tabs for locating or positioning parts in assemblies. They are also used as refractory anchors to increase the surface area of furnaces or molds, where they act as cooling fins.

The smaller, 1/8 x 1/4", 1/8 x 3/8", and 1/8 x 5/8" weld base rectangular studs, have a sufficiently small weld base so as to not require a flux load in the weld end of the stud. For this reason, these are called R1P studs.

The 3/16" and thicker rectangular weld base studs are flux loaded due to the increased volume of steel melted during the weld process. These studs are called R1L studs.

Rectangular studs capable of performing similar duties include **R2P Rectangular Notched studs**, **R5P Strand Support studs**, **R6P Rectangular Slotted studs**, **R7P rectangular Stud with Hole**, and **RWP Wiggley Two Tine Refractory Anchors**.

R1L



When ordering, specify Type, Description, Material, Quantity, and Part Number

Example #1: R1P 1/8 x 5/8 x 1"; Stainless Steel; 5,000 pieces; # 101085137

Example #2: R1L 3/8 x 1x 3"; Mild Steel; 5,000 pieces; #101085111

Stud Description	Minimum Length	Stud Dimensions			Weld Fillet Dimensions		Required Standard Accessories			
		C	D	E	F	G	Ferrule	Chuck	Grip	Foot
1/8 x 1/4	1.000	0.125	0.250	0.312	0.093	.0218	100301014	500001007	501001006	502001137
1/8 x 3/8	1.000	0.125	0.375	0.437	0.093	.0218	100301002	500005003	501001007	502001137
1/8 x 5/8	1.000	0.125	0.375	0.687	0.093	0.218	100301003	500005014	501001012	502001138
3/16 x 5/8	1.000	0.187	0.625	0.750	0.125	0.312	100301007	*	N/A	503003000
3/16 x 3/4	1.000	0.187	0.750	0.875	0.125	0.312	100301006	500005007	501001012	502001138
1/4 x 5/8	1.000	0.250	0.625	0.750	0.187	0.406	100301021	500005099	N/A	503003000
1/4 x 1	1.000	0.250	1.000	1.125	0.187	0.406	100301010	500001012	501001015	502001003
1/4 x 1-1/4	1.250	0.250	1.250	1.468	0.187	0.468	100301012	500001019	N/A	503001000
3/8 x 1-1/4	1.000	0.375	1.000	1.156	0.218	0.515	100301031	500001101	N/A	503022000

* No chuck is shown for 3/16 x 5/8 rectangular studs due to the fact that the 3/16 x 5/8" ferrule and weld base is used on studs that have a wider upper section. Chucks are available for 3/16 x 3/4, 7/8, 1, or even 1-1/2" wide studs. The upper portion of the stud determines the chuck that is needed to hold the studs during the stud welding process.

MATERIALS: R1P and R1L studs are available in Low Carbon Mild Steel and 18-8 Stainless Steel. Other materials are available by special order. For specific grade information and physical and chemical properties, conforming standards, and information on stud plating and heat treating, please see **General Material Specifications**.

Visit our website www.NelsonStudWelding.com for a list of our standard stock products.