

NELSON STUD WELDING

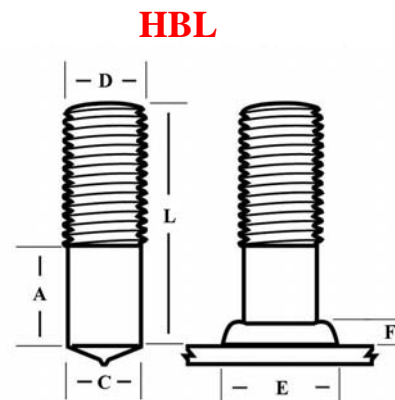
SPECIFICATION: HBL Full Base Diameter Threaded Studs

Nelson HBL stud are available in thread sizes from #10-24 through 1”-8. The full diameter weld base gives a larger cross-sectional area through the weld zone than is standard on the CPL pitch diameter studs. The increased area is desirable with special stud alloys or when studs are to be welded to specialty base materials.

The HBL studs are more costly than the CPL pitch diameter studs due to the manufacturing steps and material costs involved during manufacturing.

CPL or CFL studs are generally preferred over the HBL studs unless there are technical reasons that specify the need for full base HBL studs.

For similar function studs, see Nelson [CFL Fully Threaded studs](#), [CFP Small Diameter Threaded studs](#), [CJL Reduced Base studs](#), [CPL Partially Threaded studs](#), [CrimpLok™ Cable Hangers](#), [HBA Aluminum Full Base Diameter Threaded studs](#), and [J2L “J” Bolt studs](#).



When ordering, specify Type, Diameter, Before Weld Length, Material, Quantity, and Part Number

Example: HBL 3/8-16 x 2-5/8”; Mild Steel; 10,000 pieces; #101045812

Thread Size D	Stud Diameter C	Minimum Unthreaded Length A	Minimum Stud Length L	Burn Off	Weld Flash Size		Flash Clearance	Required Standard Accessories		
					E	F		Ferrule	Grip	Chuck
#10-24	0.188	0.187	0.780	0.093	0.281	0.093	0.328	100101003	501001004	500001005
1/4-20	0.250	0.187	0.780	0.125	0.359	0.109	0.437	100101067	501001007	500001007
5/16-18	0.312	0.250	0.780	0.125	0.437	0.109	0.500	100101007	501001006	500001009
3/8-16	0.375	0.265	0.813	0.125	0.500	0.125	0.593	100101099	501001009	500001011
7/16-14	0.438	0.281	0.813	0.125	0.593	0.140	0.656	100101009	501001008	500001012
1/2-13	0.500	0.296	0.968	0.187	0.687	0.156	0.750	100101114	501001011	500001014
5/8-11	0.625	0.359	1.000	0.187	0.875	0.187	0.937	100101187	501001014	500001016
3/4-10	0.750	0.500	1.250	0.187	1.062	0.250	1.125	100101152	501001014	500001018
7/8-9	0.875	0.625	1.500	0.187	1.125	0.312	1.250	100101140	501001015	500001019
1-8	1.000	0.750	1.647	0.250	1.375	0.375	1.437	100101045	501001016	500001085

MATERIALS: 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](#).

THREADS: Standard threads are available up to 3” in length with UNC-2A coarse thread pitch.

FLUX: All Nelson full base diameter threaded studs have a solid flux load.

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