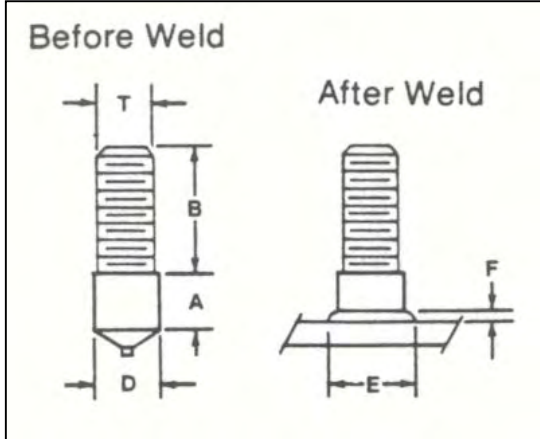




# ALUMINUM STANDARD STUDS



SUNBELT aluminum standard studs are partially threaded with a weld base diameter greater than the thread diameter.

**Typical Use:** Most applications requiring full strength in weld base area.

**Length Specifications:** Lengths available as specified to a maximum of 2-13/16" nominal, 3" BW. Establish overall length by the combination of dimensions A and B.

**Material:** Aluminum alloy 5000 Series.

**Ferrules:** All orders include ferrules, which are supplied with the studs and are not sold individually.

**To Order:** Specify stud type, quantity, D, A(BW), B, material.

SPECIFICATIONS						
THREAD SIZE	WELD BASE DIA. (NOM.)	UNTHREADED LENGTH		MAX THREADED LENGTH	APPROXIMATE WELD BEAD DIMENSIONS	
		BEFORE WELD	AFTER WELD (NOM.)		DIA.	HGT.
T	D	A(BW)	A(AW)	B	E	F
10-32	1/4	5/16	1/8	2-1/2	13/32	1/8
1/4-20	5/16	3/8	3/16	2-1/2	15/32	5/32
5/16-18	3/8	13/32	7/32	2-1/2	5/8	3/16
3/8-16	7/16	15/32	9/32	2-1/2	21/32	7/32
7/16-14	1/2	1/2	5/16	2-1/2	3/4	1/4

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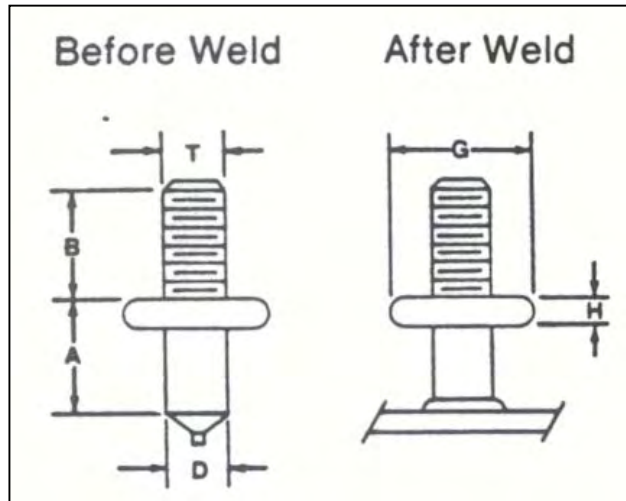
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 6381 Windfern Road  
 Houston, Texas 77040-4915



**1-800-462-9353**  
**713-939-8903**  
**fax 713-939-9013**



# ALUMINUM COLLAR STUDS



SUNBELT aluminum collar studs are partially threaded studs with a collar separating the weld base and thread. They are available in thread diameters from 1/4” through 1/2”.

**Typical Use:** As a spacer between parent metal and part secured on extension. Minimum weld base diameter facilitates welding to lighter gauge parent metal.

**Length Specifications:** Lengths are limited by minimums established by length before weld (BW), of A dimension, and thread length B.

**Material:** Aluminum alloy 5000 Series.

**Ferrules:** All orders include ferrules, which are supplied with the studs and are not sold individually.

**To Order:** Specify CS studs, quantity, D, T, A(BW), B, material.

SPECIFICATIONS						
THREAD SIZE	WELD BASE DIAMETER (NOM.)	MINIMUM LENGTH		MAXIMUM THREADED LENGTH	COLLAR DIAMETER	COLLAR THICKNESS
		BEFORE WELD	AFTER WELD (NOM.)			
T	D	A(BW)	A(AW)	B	G	H
1/4-20	.215	11/16	1/2	1-1/4	1/2	3/32
5/16-18	.275	3/4	9/16	1-1/4	5/8	1/8
3/8-16	.330	3/4	9/16	1-1/4	5/8	1/8
1/2-13	.447	13/16	5/8	1-1/4	3/4	1/8

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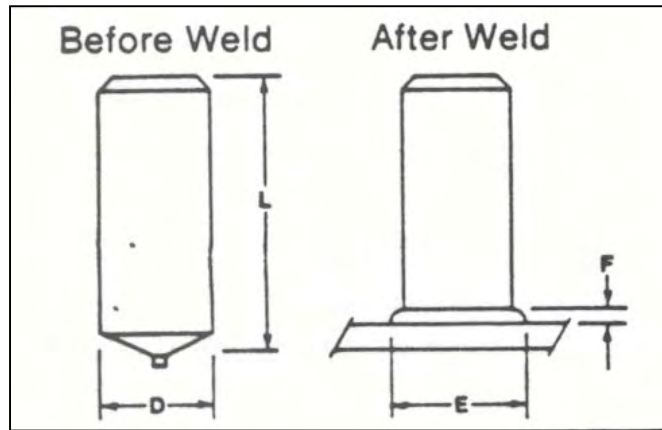
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# ALUMINUM FB WELDING PINS



SUNBELT aluminum FB (Full Base) welding pins are unthreaded fasteners. They are available in diameters from 1/4" through 1/2".

**Typical Use:** Heat transfer pins.

**Length Specifications:** Lengths available from minimums shown in specifications.

**Material:** Aluminum alloy 5000 Series.

**Ferrules:** All orders include ferrules, which are supplied with the studs are not sold individually.

**To Order:** Specify **FB**, quantity, **D**, **L(BW)**, material.

SPECIFICATIONS				
WELD BASE DIAMETER (NOM.) <b>D</b>	MINIMUM LENGTH		APPROXIMATE WELD BEAD DIMENSIONS	
	BEFORE WELD <b>L(BW)</b>	AFTER WELD (NOM.) <b>L(AW)</b>	DIAMETER <b>E</b>	HEIGHT <b>F</b>
1/4	11/16	1/2	13/32	1/8
5/16	11/16	1/2	15/32	5/32
3/8	13/16	5/8	5/8	3/16
7/16	7/8	11/16	21/32	7/32
1/2	7/8	11/16	3/4	1/4

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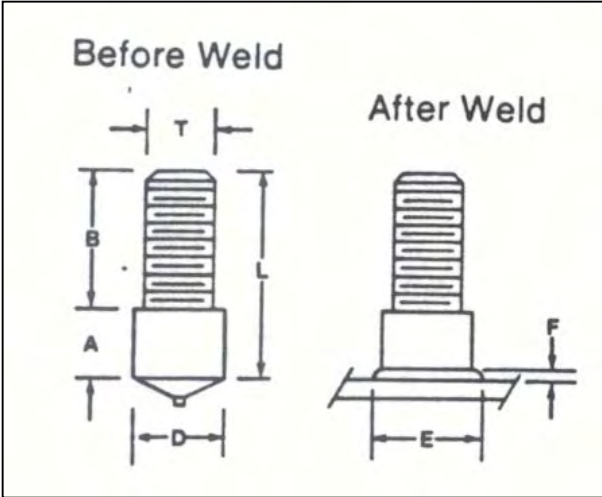
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# ALUMINUM SB STUDS



**SUNBELT** aluminum SB (shoulder Base) welding studs are partially threaded studs with a base diameter greater than the thread diameters. Available with weld-base diameters from 5/16” through 1/2”; thread diameters as specified.

**Typical Use:** To provide a spacer between the parent metal and the fastened part.

**Length Specifications:** Overall length limits are established by the combination of A and B.

**Material:** Aluminum alloy 5000 Series.

**Ferrules:** All orders include ferrules, which are supplied with the studs and are not sold individually.

**To Order:** Specify **SB** studs, quantity, **D, T, A(BW), B**, material.

SPECIFICATIONS								
THREAD SIZE	WELD BASE DIA. (NOM)	UNTHREADED LENGTH		MAX THREAD LENGTH	MAXIMUM OVERALL LENGTH		APPROXIMATE WELD BEAD DIMENSIONS	
		B-4 WELD	AFTER WELD (NOM)		BW	AW	DIA.	HGT.
T	D	A(BW)	A(AW)	B	L(AW)	L(AW)	E	F
10-32	5/16	7/16	1/4	7/16	7/8	11/16	15/32	5/32
1/4-20	3/8	15/32	9/32	5/8	1-3/32	29/32	5/8	3/16
5/16-18	7/16	15/32	9/32	3/4	1-7/32	1-1/32	21/32	7/32
3/8-16	1/2	1/2	5/16	1	1-1/2	1-5/16	3/4	1/4

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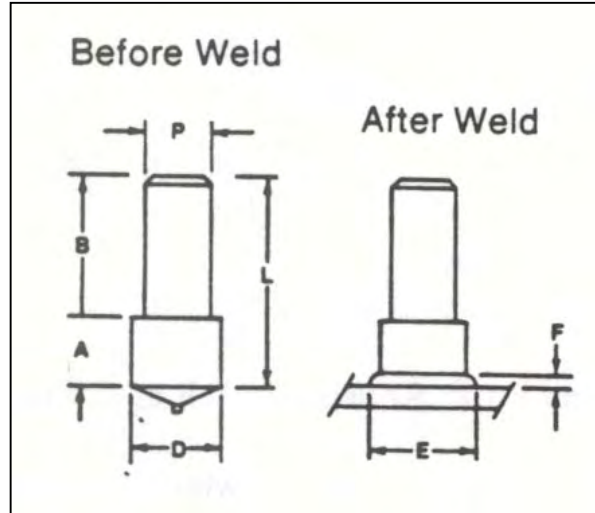
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## ALUMINUM SB WELDING PINS



**SUNBELT** aluminum SB (Shoulder Base) welding pins are plain, unthreaded fasteners with a weld base diameter greater than the extension diameter. Available with weld base diameters from 1/4" through 1/2"; extension diameters, 1/8" through 3/8".

**Typical Use:** As standoff and pivot between parent metal and rotating arm or wheel.

**Length Specifications:** Overall length limits are established by the combination of A and B.

**Material:** Aluminum alloy 5000 Series.

**Ferrules:** All orders include ferrules, which are supplied with the studs and are not sold individually.

**To Order:** Specify **SB** pins, quantity, **D, P, A(BW), B**, material.

SPECIFICATIONS								
PIN DIA.	WELD BASE DIA. (NOM.)	WELD BASE LENGTH		MAX PIN LENGTH	MAXIMUM OVERALL LENGTH		APPROXIMATE WELD BEAD DIMENSIONS	
		B-4 WELD A(BW)	AFTER WELD A(AW)		B/W L(BW)	A/W L(AW)	DIA. E	HGT. F
P	D			B			E	F
1/8	1/4	5/16	1/8	5/16	5/8	7/16	13/32	1/8
3/16	5/16	3/8	3/16	15/32	27/32	21/32	15/32	5/32
1/4	3/8	13/32	7/32	5/8	1-1/32	25/32	5/8	3/16
5/16	7/16	15/32	9/32	25/32	1-1/4	1-1/16	21/32	7/32
3/8	1/2	1/2	5/16	1	1-1/2	1-5/16	3/4	1/4

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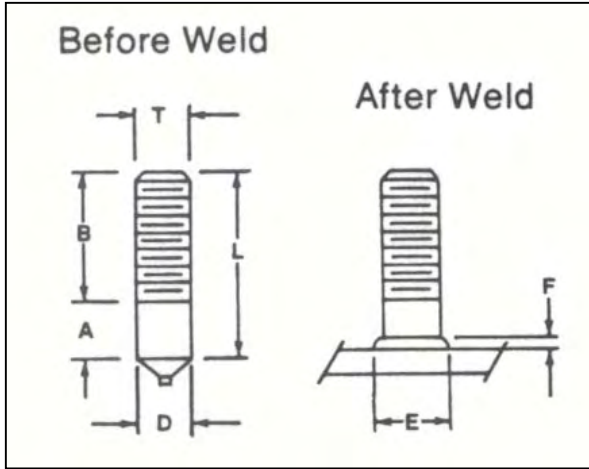


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# ALUMINUM FB STUDS



SUNBELT FB aluminum studs, available in diameters from 1/4" to 1/2", have equal weld base and thread diameters.

**Typical Use:** When minimum fillet dimensions are required at the weld base.

**Length Specifications:** Available in minimum weld base heights specified, with a maximum of 1-1/4" thread length.

**Material:** Aluminum alloy 5000 Series; others on request.

**Ferrules:** All orders include ferrules, which are supplied with the studs and are not sold individually.

**To Order:** Specify FB studs, quantity, D, L(BW), B, material.

SPECIFICATIONS								
THREAD SIZE	WELD BASE DIA. (NOM)	MINIMUM WELD BASE HEIGHT		MAX THREAD LENGTH	MINIMUM OVERALL LENGTH		APPROXIMATE WELD BEAD DIMENSIONS	
		B-4 WELD	AFTER WELD (NOM)		B-4 WELD	AFTER WELD	DIA.	HGT.
T	D	A(BW)	A(AW)	B	L(BW)	L(AW)	E	F
1/4-20	1/4	5/16	1/8	1-1/4	13/16	5/8	13/32	1/8
5/16-18	5/16	3/8	3/16	1-1/4	1	13/16	15/32	5/32
3/8-16	3/8	13/32	7/32	1-1/4	1-5/32	31/32	5/8	3/16
7/16-14	7/16	15/32	9/32	1-1/4	1-11/32	1-5/32	21/32	7/32
1/2-13	1/2	3/8	3/16	1-1/4	1-1/2	1-5/16	3/4	1/4

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