



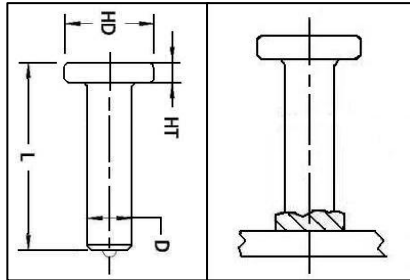
# TRU-WELD Stud Welding

## SHEAR CONNECTOR – FULL WELD BASE

(3/4" THRU DECK SHEAR CONNECTORS ON NEXT PAGE)

TYPE **SC** STUD

TYPE F FERRULE SUPPLIED



Head Diameter (HD) – 1-1/4" for all 3/4 headed Shear Connectors.  
Head Height (HT) – 3/8" for all 3/4 headed Shear Connectors.

D Diameter	L Length	TRU-WELD Part Number	Pieces Per Box	Boxes Per Pallet	Pieces Per Pallet	Box Weight	Pallet Weight	1,000 Piece Weight
3/4	3-3/16	SC12-051-11	125	48	6,000	60 lbs.	2,880 lbs.	478 lbs.
3/4	3-11/16	SC12-059-11	100	48	4,800	55 lbs.	2,640 lbs.	548 lbs.
3/4	4-3/16	SC12-067-11	100	48	4,800	63 lbs.	3,024 lbs.	600 lbs.
3/4	4-11/16	SC12-075-11	75	27	2,025	51 lbs.	1,377 lbs.	672 lbs.
3/4	5-3/16	SC12-083-11	60	48	2,880	43 lbs.	2,064 lbs.	735 lbs.
3/4	5-11/16	SC12-091-11	60	48	2,880	47 lbs.	2,256 lbs.	783 lbs.
3/4	6-3/16	SC12-099-11	60	48	2,880	51 lbs.	2,448 lbs.	852 lbs.
3/4	6-11/16	SC12-107-11	80	27	2,160	75 lbs.	2,025 lbs.	938 lbs.
3/4	7-3/16	SC12-115-11	60	27	1,620	59 lbs.	1,593 lbs.	968 lbs.
3/4	8-3/16	SC12-131-11	50	27	1,350	56 lbs.	1,512 lbs.	1,105 lbs.
3/4	9-3/16	SC12-147-11	100	9	900	123 lbs.	1,107 lbs.	1,222 lbs.
3/4	10-3/16	SC12-163-11	100	9	900	137 lbs.	1,233 lbs.	1,339 lbs.
3/4	12-3/16	SC12-195-11	1,100	1	1,100	1,760 lbs.	1,760 lbs.	1,599 lbs.
3/4	16-3/16	SC12-259-11	1,000	1	1,000	2,000 lbs.	2,000 lbs.	2,000 lbs.

**Shear Connectors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 3/4" will be approx. 3/16" shorter after weld.

TRU-WELD shear connectors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. SC Studs are also available in weldable stainless steel. Type 302 is the most commonly used.

CHUCK PART #	FOOT PART #	GRIP PART #	FERRULE FOOT PLATE (DUAL LEG)
CH-075	B-2C	GC-075	QN-075

### Mechanical Property Requirements

	Type A	Type B
Tensile Strength	61,000 psi min.	65,000 psi min.
Yield Strength	49,000 psi min.	51,000 psi min.
Elongation (% in 2 in.)	17% min.	20% min.
Elongation (% in 5x dia.)	14% min.	15% min.
Reduction of Area	50% min.	50% min.

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design

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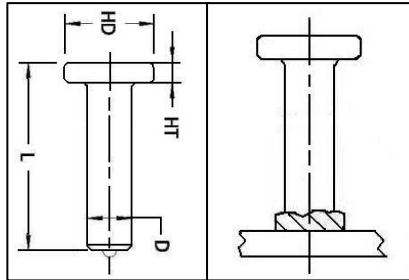


# TRU-WELD Stud Welding

## THRU-DECK SHEAR CONNECTOR

TYPE **DSC** STUD

TYPE F FERRULE SUPPLIED



Head Diameter (HD) – 1-1/4" for all 3/4" Thru-Deck Shear Connectors.  
 Head Height (HT) – 3/8" for all 3/4" Thru-Deck Shear Connectors.

WELD STUD SPECIFICATIONS			WELD STUD PACKAGING			WELD STUD WEIGHTS		
D Diameter	L Length	TRU-WELD Part Number	Pieces Per Box	Boxes Per Pallet	Pieces Per Pallet	Box Weight	Pallet Weight	1,000 Piece Weight
3/4	3-3/8	DSC12-054-11	125	48	6,000	62 lbs.	2,976 lbs.	500 lbs.
3/4	3-7/8	DSC12-062-11	100	48	4,800	58 lbs.	2,784 lbs.	567 lbs.
3/4	4-3/8	DSC12-070-11	100	48	4,800	62 lbs.	2,976 lbs.	634 lbs.
3/4	4-7/8	DSC12-078-11	75	48	3,600	51 lbs.	2,448 lbs.	701 lbs.
3/4	5-3/8	DSC12-086-11	60	48	2,880	45 lbs.	2,160 lbs.	754 lbs.
3/4	5-7/8	DSC12-094-11	60	48	2,880	49 lbs.	2,352 lbs.	810 lbs.
3/4	6-3/8	DSC12-102-11	60	48	2,880	53 lbs.	2,544 lbs.	883 lbs.

**Thru-Deck Shear Connectors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 3/4" will be approx. 3/8" shorter after weld.

TRU-WELD thru-deck shear connectors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. DSC Studs are also available in weldable stainless steel. Type 302 is the most commonly used.

### Mechanical Property Requirements

	Type A	Type B
Tensile Strength	61,000 psi min.	65,000 psi min.
Yield Strength	49,000 psi min.	51,000 psi min.
Elongation (% in 2 in.)	17% min.	20% min.
Elongation (% in 5x dia.)	14% min.	15% min.
Reduction of Area	50% min.	50% min.

Type A Studs are general purpose studs.

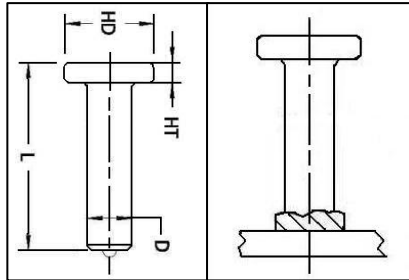
Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

CHUCK PART #	THRU-DECK FOOT ASSEMBLY	THRU-DECK FERRULE GRIP
CH-075	B-0021-1A	B-0060-1
	B-0021-1P	



# TRU-WELD Stud Welding

## SHEAR CONNECTOR – FULL WELD BASE



TYPE **SC** STUD  
TYPE F FERRULE SUPPLIED

Head Diameter (HD) – 1-3/8" for all 7/8" Shear Connectors.  
Head Height (HT) – 3/8" for all 7/8" Shear Connectors.

WELD STUD SPECIFICATIONS			WELD STUD PACKAGING			WELD STUD WEIGHTS		
D Diameter	L Length	TRU-WELD Part Number	Pieces Per Box	Boxes Per Pallet	Pieces Per Pallet	Box Weight	Pallet Weight	1,000 Piece Weight
7/8	3-3/16	SC14-051-11	100	27	2,700	66 lbs.	1,782 lbs.	660 lbs.
7/8	3-11/16	SC14-059-11	100	27	2,700	74 lbs.	1,998 lbs.	709 lbs.
7/8	4-3/16	SC14-067-11	100	27	2,700	80 lbs.	2,160 lbs.	796 lbs.
7/8	5-3/16	SC14-083-11	75	27	2,025	73 lbs.	1,971 lbs.	961 lbs.
7/8	6-3/16	SC14-099-11	50	27	1,350	57 lbs.	1,539 lbs.	1,137 lbs.
7/8	7-3/16	SC14-115-11	45	27	1,215	59 lbs.	1,593 lbs.	1,306 lbs.
7/8	8-3/16	SC14-131-11	40	27	1,080	59 lbs.	1,593 lbs.	1,496 lbs.
7/8	9-3/16	SC14-147-11	75	9	675	125 lbs.	1,125 lbs.	1,666 lbs.
7/8	10-3/16	SC14-163-11	75	9	675	135 lbs.	1,215 lbs.	1,836 lbs.
7/8	12-3/16	SC14-195-11	825	1	825	1,793 lbs.	1,793 lbs.	2,173 lbs.

**Shear Connectors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 7/8" will be approx. 3/16" shorter after weld.

TRU-WELD shear connectors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. SC Studs are also available in weldable stainless steel. Type 302 is the most commonly used.

CHUCK PART #	FOOT PART #	GRIP PART #	FERRULE FOOT PLATE (DUAL LEG)
CH-087	B-3C	GC-087	QN-087

### Mechanical Property Requirements

	Type A	Type B
Tensile Strength	61,000 psi min.	65,000 psi min.
Yield Strength	49,000 psi min.	51,000 psi min.
Elongation (% in 2 in.)	17% min.	20% min.
Elongation (% in 5x dia.)	14% min.	15% min.
Reduction of Area	50% min.	50% min.

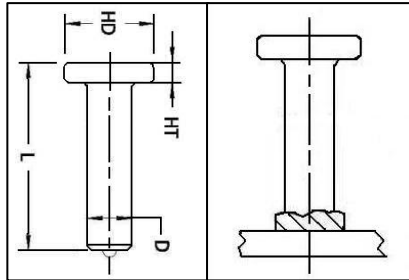
Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.



# TRU-WELD Stud Welding

## SHEAR CONNECTOR – FULL WELD BASE



TYPE **SC** STUD  
TYPE F FERRULE SUPPLIED

Head Diameter (HD) – 1-5/8" for all 1" Shear Connectors.  
Head Height (HT) – 1/2" for all 1" Shear Connectors.

WELD STUD SPECIFICATIONS			WELD STUD PACKAGING			WELD STUD WEIGHTS		
D Diameter	L Length	TRU-WELD Part Number	Pieces Per Box	Boxes Per Pallet	Pieces Per Pallet	Box Weight	Pallet Weight	1,000 Piece Weight
1"	3-1/4	SC16-052-11	75	27	2,025	70 lbs.	1,890 lbs.	894 lbs.
1"	4-1/4	SC16-068-11	50	27	1,350	57 lbs.	1,539 lbs.	1,079 lbs.
1"	5-1/4	SC16-084-11	50	27	1,350	70 lbs.	1,890 lbs.	1,302 lbs.
1"	6-1/4	SC16-100-11	40	27	1,080	63 lbs.	1,701 lbs.	1,514 lbs.
1"	7-1/4	SC16-116-11	85	9	765	154 lbs.	1,386 lbs.	1,737 lbs.
1"	8-1/4	SC16-132-11	85	9	765	173 lbs.	1,557 lbs.	1,978 lbs.
1"	9-1/4	SC16-148-11	80	9	720	180 lbs.	1,620 lbs.	2,193 lbs.

**Shear Connectors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 1" will be approx. 1/4" shorter after weld.

TRU-WELD shear connectors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. SC Studs are also available in weldable stainless steel. Type 302 is the most commonly used.

CHUCK PART #	FOOT PART #	GRIP PART #	FERRULE FOOT PLATE (DUAL LEG)
CH-100	B-3C	GC-100	QN-100

### Mechanical Property Requirements

	Type A	Type B
Tensile Strength	61,000 psi min.	65,000 psi min.
Yield Strength	49,000 psi min.	51,000 psi min.
Elongation (% in 2 in.)	17% min.	20% min.
Elongation (% in 5x dia.)	14% min.	15% min.
Reduction of Area	50% min.	50% min.

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.