

# SHEAR CONNECTOR DIMENSION

## SHEAR CONNECTOR DIMENSION & DETAIL.

Stud Diameter	d	13		16		19	
		Max	Min	Max	Min	Max	Min
Stud length (Before)		12.95	12.70	15.95	15.70	19.00	18.62
Stud Length (after)	[L1]	L1±1.6					
	[L]	3~5mm Shorter Than L1					
Head Diameter	[D]	25.4 ± 0.4		31.7 ± 0.4		31.7 ± 0.4	
Head Height	[T]	8 <sup>+1.0</sup>		8 <sup>+1.0</sup>		9.5 <sup>+1.0</sup>	
Ferrule Inner Diameter	[FA]	Vertical	14.00	17.00	20.50	20.50	20.50
		Weld-Thru	-	17.00	20.50	20.50	20.50
Ferrule Outer Diameter	[FD]	Vertical	21.00	30.00	32.00	32.00	32.00
		Weld-Thru	-	30.00	32.00	32.00	32.00
Ferrule Height	[FH]	Vertical	10.00	14.50	16.50	16.50	16.50
		Weld-Thru	-	18.00	16.50	16.50	16.50

Stud Diameter	d	22		25	
		Max	Min	Max	Min
Stud length (Before)		22.10	21.72	25.40	25.02
Stud Length (after)	[L1]	L1±1.6			
	[L]	3~5mm Shorter Than L1			
Head Diameter	[D]	39.9 ± 0.4		41.3 ± 0.4	
Head Height	[T]	9.5 <sup>+1.0</sup>		8 <sup>+1.0</sup>	
Ferrule Inner Diameter	[FA]	Vertical	23.50	26.50	-
		Weld-Thru	23.50	-	-
Ferrule Outer Diameter	[FD]	Vertical	36.00	18.00	-
		Weld-Thru	40.00	-	-
Ferrule Height	[FH]	Vertical	18.00	21.00	-
		Weld-Thru	21.00	-	-

### AWS D1.1 Mechanical Property Shear Connectors

Tensile Strength	Yield Strength	Elongation	Reduction Area
Mpa	Mpa	%	%
450	350	15	50

Midland Shear Connector also complies with mechanical requirements as per BS5950, Part3, Section3.1:1990 Din EN ISO 14555 and DIN EN ISO 13918 Detail are available upon request.

## Drawing

