

**LEGEND: A -Applicable L-Limited
S-Special N-NOT Applicable**

FACTORS TO BE CONSIDERED	CD STUDWELDING		ARC STUD WELDING
	Contact/Cap	Drawn Arc	
STUD SHAPE	A	A	A
Round	A	A	A
Square	A	A	A
Rectangular	A	A	A
Other	A	A	A
STUD DIAMETER (or AREA)			
1/16" - 1/8" Dia	A	A	N
1/8" - 1/4" Dia	A	A	L
1/4" - 1/2" Dia	S	S	A
1/2" - 1" Dia	N	N	A
Area up to 0.05"	A	A	L
Area over 0.05"	N	N	A
STUD MATERIAL			
Mild Steel	A	A	A
Stainless Steel	A	A	A
Aluminum	A	S	S
Brass	A	A	L
BASE METAL			
Mild Steel	A	A	A
Stainless Steel	A	A	A
Aluminum	A	S	S
Brass	A	A	L
BASE METAL THICKNESS			
under 0.025"	S	S	N
0.025" - 0.062"	A	A	L
0.063" - 0.125"	A	A	S
0.126" & over	A	A	A
DESIGN CRITERIA			
Heat effect on materials	A	A	S
Reverse side marking	A	A	L
Weld fillet clearance	A	A	S
Strength of stud	A	A	A
Strength of base metal	A	A	A