

SPOTWELD Incorporated

Excellence in Resistance Welding

Spot welding galvanized low-carbon steel

Material Thickness	Electrode Diameter And Shape		Net Electrode Force	Welding Current (Approx.)	Weld Time	Weld Nugget Size	Minimum Tension- Shear Strength	Minimum Weld Spacing	Contacting	
notes 1, 2, & 3	note 4									
	D-8					W	→ D _W			
	D	d	Ос							
Inches	ln.	In.	Deg.	Lb.	Amps.	Cycles	In.	Lb.	Inches	Inches
0.022	5/8	3/16	120	300	13000	8	0.15	550	5/8	5/8
0.030	5/8	3/16	120	400	13000	10	0.16	1000	5/8	5/8
0.036	5/8	1/4	120	500	13500	12	0.19	1180	3/4	5/8
0.039	5/8	1/4	120	650	14000	13	0.21	1400	3/4	5/8
0.052	5/8	1/4	120	725	14500	18	0.22	1700	7/8	11/16
0.063	3/4	1/4	120	850	15500	22	0.24	2500	1-1/8	3/4
0.078	3/4	5/16		1200	19000	24	0.28	3200	1-1/4	7/8
0.093	3/4	3/8	120	1400	21000	30	0.34	4200	1-1/2	1 1/0
0.108	7/8	3/8	120	1/50 2000	20000	37	0.40	5900	1-3/4	1-1/8
0.123	//8	3/8	120	2000	20000	42	0.48	7200	2	1-1/8

Projection welding galvanized low-carbon steel

Material Thickness	Electrode Diameter And Shape		Net Electrode Force	Welding Current (Approx.)	Weld Time	Weld Nugget Size	Minimum Tension- Shear Strength	Proje Siz	
notes 1, 2, & 3	note 4						(For Single Projections		
	F	D.					Önly)		
	+-d → D d							→ Dp l	_
	D	u						Diameter	Height
Inches	In.	In.	Lb.	Amps.	Cycles	In.	Lb.	In.	In.
0.039	5/8	3/8	250	10000	15	0.15	925	0.187	0.041
0.063	5/8	7/16		11500	20	0.25	2050	0.218	0.048
0.078	3/4	1/2	550	16000	25	0.25	2700	0.250	0.054
0.093	3/4	1/2	750	16000	30	0.30	4300	0.250	0.054
0.108	7/8	1/2	950	22000	33	0.31	4900	0.250	0.054

NOTES:

- 1. Material must be free from dirt, grease, paint etc. prior to welding, but may have light oil.
- 2. Two equal metal thicknesses of each gage.
- 3. Commercial coating weight is 1.25 oz. per square foot.
- 4. Electrode Material-RWMA Group A, Class
- 5. CMW# 3.
- 6. Water Cooling: 2 gallons per minute.

Projections should be larger in diameter for galvanized than for uncoated material.