

**Alumoweld Substitutions for Galvanized / Galfan 7-Strand Guy Strand**

	Cable Designation	Nominal Wire Diameter (Inches)	Nominal Stranded Cable Diameter (Inches)	Approx. Cable Weight/1000'	Minimum Breaking Strength (Pounds)				Minimum Weight of Coating (Oz./Sq.Ft.)		
					Siemens Martin Grade	High Strength Grade	Extra High Strength Grade	Utility or Specification Grade	Class "A"	Class "B"	Class "C"
Galvanized	1/4"	0.080	0.240	121	3150	4750	6650 (6.6M)		0.60	1.20	1.80
Alumoweld	7#12	0.080	0.242	104			6301				4 Mils
Galvanized	9/32"	0.093	0.279	164			8950	4600 (4M)	0.70	1.40	2.10
Alumoweld	7#11	0.090	0.272	131			7945				5 Mils
Galvanized	5/16"	0.104	0.312	205	5350	8000	11200		0.80	1.60	2.40
Alumoweld	7#10	0.102	0.306	165			10020				5 Mils
Galvanized	5/16"	0.109	0.327	225				6000 (6M)	0.80	1.60	2.40
Alumoweld	7#9	0.114	0.342	208			12630				6 Mils
Galvanized	3/8"	0.120	0.360	273	6950	10800	15400	11500 (10M)	.85 (1 Mil)	1.70 (3 Mils)	2.55 (4 Mils)
Alumoweld	7#8	0.128	0.385	262			15930				6 Mils
Galvanized	7/16"	0.145	0.435	399	9350	14500	20800	18000 (16M)	0.90	1.80	2.70
Alumoweld	7#7	0.144	0.433	330			19060				7 Mils
Galvanized	1/2"	0.165	0.495	517	12100	18800	26900	25000 (25M)	.90 (2 Mils)	1.80 (3 mils)	2.70 (5 mils)
Alumoweld	7#6	0.162	0.486	416			22730				8 Mils
Galvanized	9/16"	0.188	0.564	671			35000		1.00	2.00	3.00
Alumoweld	7#5	0.182	0.546	525			27030				8 Mils

**Specification: Alumoweld - ASTM B-416**  
**Galvanized - ASTM A-475 or A-363**  
**Galfan - ASTM A-855 or A-925**  
 \*Galfan currently only produced in "A" Coating

## Comparison of Alumoweld to Guy Strand Properties

<b>SIEMENS-MARTIN GRADE</b>			
Strand	5/16"	3/8"	7/16"
Minimum Breaking Strength (Pounds)	5,350	6,950	9,350
Stranded Dia. (Inches)	0.312	0.360	0.435
Weight Per 1,000 Feet	205	273	399
Coating Material	Zinc	Zinc	Zinc
Coating Thickness Average (No Minimum Specified)			
Class A	1 Mil	1 Mil	2 Mils
Class B	3 Mils	3 Mils	3 Mils
Class C	4 Mils	4 Mils	4 Mils

<b>ALUMOWELD</b>			
Strand	6M	8M	10M
Minimum Breaking Strength (Pounds)	6,000	8,000	10,000
Stranded Dia. (Inches)	0.242	0.272	0.306
Weight Per 1,000 Feet	104	131	165
Coating Material	Aluminum	Aluminum	Aluminum
Coating Thickness Average (Specified Minimum)			
	4 Mils	5 Mils	5 Mils

<b>UTILITY OR SPECIFICATION GRADE</b>			
Strand	5/16"	3/8"	7/16"
Minimum Breaking Strength (Pounds)	6,000	11,500	18,000
Stranded Dia. (Inches)	0.327	0.360	0.435
Weight Per 1,000 Feet	225	273	399
Coating Material	Zinc	Zinc	Zinc
Coating Thickness Average (No Minimum Specified)			
Class A	1 Mil	1 Mil	2 Mils
Class B	3 Mils	3 Mils	3 Mils
Class C	4 Mils	4 Mils	5 Mils

<b>ALUMOWELD</b>			
Strand	6M	12.5M	18M
Minimum Breaking Strength (Pounds)	6,000	12,500	18,000
Stranded Dia. (Inches)	0.242	0.343	0.417
Weight Per 1,000 Feet	104	208	306
Coating Material	Aluminum	Aluminum	Aluminum
Coating Thickness Average (Specified Minimum)			
	4 Mils	6 Mils	7 Mils

<b>HIGH STRENGTH</b>			
Strand	5/16"	3/8"	7/16"
Minimum Breaking Strength (Pounds)	8,000	10,800	14,500
Stranded Dia. (Inches)	0.312	0.360	0.435
Weight Per 1,000 Feet	205	273	399
Coating Material	Zinc	Zinc	Zinc
Coating Thickness Average (No Minimum Specified)			
Class A	1 Mil	1 Mil	2 Mils
Class B	3 Mils	3 Mils	3 Mils
Class C	4 Mils	4 Mils	5 Mils

<b>ALUMOWELD</b>			
Strand	8M	10M	14M
Minimum Breaking Strength (Pounds)	8,000	10,000	14,000
Stranded Dia. (Inches)	0.272	0.306	0.363
Weight Per 1,000 Feet	131	165	232
Coating Material	Aluminum	Aluminum	Aluminum
Coating Thickness Average (Specified Minimum)			
	5 Mils	5 Mils	6 Mils

<b>EXTRA HIGH STRENGTH</b>			
Strand	5/16"	3/8"	7/16"
Minimum Breaking Strength (Pounds)	11,200	15,400	20,800
Stranded Dia. (Inches)	0.312	0.360	0.435
Weight Per 1,000 Feet	205	273	399
Coating Material	Zinc	Zinc	Zinc
Coating Thickness Average (No Minimum Specified)			
Class A	1 Mil	1 Mil	2 Mils
Class B	3 Mils	3 Mils	3 Mils
Class C	4 Mils	4 Mils	5 Mils

<b>ALUMOWELD</b>			
Strand	12.5M	16M	20M
Minimum Breaking Strength (Pounds)	12,500	16,000	20,000
Stranded Dia. (Inches)	0.343	0.386	0.444
Weight Per 1,000 Feet	208	262	347
Coating Material	Aluminum	Aluminum	Aluminum
Coating Thickness Average (Specified Minimum)			
	6 Mils	6 Mils	7 Mils

**Specification: Galvanized - ASTM A-475  
Galfan (Class A only) -ASTM A-855**

**Specification - ER 3008**