

Loadings Table				
Main Menu Elev Temp Edit				
Deg F	In	Psf	% or Lb	
Temp	Ice	Wind	Tension	Code
0	1.5	4		
0	.5	4	10000	1
32	.5			
-20				
0				
30				
60				2
90				
120				
167				
212				

ALUMINUM COMPANY OF AMERICA SAG AND TENSION DATA

Sample Problem

Heavy Loading with for Comparison with Extra Heavy Common Point

Conductor DRAKE 795.0 Kcmil 26/ 7 Stranding ACSR

Area= .7264 Sq. In Dia= 1.108 In Wt= 1.094 Lb/F RTS= 31500 Lb

Data from Chart No. 1-537

English Units

Span= 1000.0 Feet NESC Heavy Load Zone

Creep is NOT a Factor

Design Points					Final		Initial	
Temp	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
F	In	Psf	Lb/F	Lb/F	Ft	Lb	Ft	Lb
0.	1.50	.00	.00	5.961	41.11	18287.	41.11	18287.
0.	.50	4.00	.30	2.509	34.86	9054.	31.53	10000.*
32.	.50	.00	.00	2.094	35.47	7429.	31.49	8358.
-20.	.00	.00	.00	1.094	30.11	4564.	24.72	5549.
0.	.00	.00	.00	1.094	31.25	4399.	25.84	5311.
30.	.00	.00	.00	1.094	32.77	4197.	27.48	4996.
60.	.00	.00	.00	1.094	33.63	4091.	29.09	4721.
90.	.00	.00	.00	1.094	34.49	3990.	30.67	4482.
120.	.00	.00	.00	1.094	35.33	3896.	32.20	4271.
167.	.00	.00	.00	1.094	36.64	3759.	34.51	3988.
212.	.00	.00	.00	1.094	37.87	3638.	36.64	3759.

\* Design Condition