



# Station Posts - Standard Strength

## Standard Strength

Porcelain Characteristics						Composite Mechanical Characteristics						Composite Electrical Characteristics		
Porcelain Technical Reference	Voltage	BIL Rating	Height	Cantilever Rating	MWL @ 40%	Catalog Number	Weight	SML	Comp	Leakage	Deflection @ TR MWL	CIFO +	Low Freq. Wet Withstand	Critical Impulse Withstand
TR	kV	kV	Inch	Lbs	Lbs		Lbs	Lbs	Lbs	Inch	Inch	kV	kV	kV
202	7.5	95	7.5	2000	800	NPP20XG05S	6	2000	10000	12.7	0.1	105	30	105
205	15	110	10.0	2000	800	NPP20XG07S	7	2000	10000	20.5	0.1	125	45	125
208	23	150	14.0	2000	800	NPP20XG11S	9	2000	10000	32.2	0.2	170	60	170
210	34.5	200	18.0	2000	800	NPP20XG15S	10	2000	10000	43.9	0.7	225	80	225
214	46	250	22.0	2000	800	NPP20XG19S	12	2000	10000	55.6	0.8	280	100	280
216	69	350	30.0	1500	600	NPP20XG27S	17	1500	7500	77.0	1.5	390	145	390
278	69	350	30.0	3000	1200	NAA100XH16S0	38	4400	25000	72.0	0.7	390	180	390
286	115	550	45.0	1700	680	NAA100XH23S0	46	2800	12000	106.1	1.9	610	300	610
287				2600	1040						2.9			
288*	138	650	54.0	1400	560	NAA100XH29S0	49	2300	8000	133.7	2.6	710	380	710
289				2200	880						4.0			
291	161	750	62.0	1200	480	NAA100XH34S0	60	2000	6000	156.7	3.1	810	450	810
295				1850	740						4.8			
304	230	900	80.0	950	380	NAA100XH46S1	52	1600	3400	211.8	5.0	1010	590	1010
308				1450	580						7.6			
312	315	1050	92.0	800	320	NAA100XH54S1	57	1400	2500	248.6	6.4	1210	680	1210
316				1250	500						9.6			

\*For example, when replacing a TR 288 porcelain unit with a composite insulator, the given composite insulator deflection (2.6 inches) is measured at 560 lbs (40% of the TR 288's rated 1400 lbs).

Tensile Strength for NPP20XG series is 16000 lbs. Tensile Strength for NAA100XH series is 17500 lbs.

Torsion Strength for NPP20XG series is 12000 inches/lb. Torsion Strength for NAA100XH series is 32000 inches/lb.