



912 Cheney Ave.
 Marion, OH 43301
 (800) 333-4011
 www.nucorhighway.com

**Capacity Comparison of
 Nucor Rib-Bak® U-Channel Sign Post vs.
 Rail Steel Flat-Back U-Channel Sign Post**

Table Shows Maximum Sign Panel Square Footage (sq. ft.)

Post Size	70 mph *			90 mph **			120 mph **			150 mph **		
	Rib-Bak® (sq. ft.)	Flat-Back (sq. ft.)	%	Rib-Bak® (sq. ft.)	Flat-Back (sq. ft.)	%	Rib-Bak® (sq. ft.)	Flat-Back (sq. ft.)	%	Rib-Bak® (sq. ft.)	Flat-Back (sq. ft.)	%
One Post Installation												
2.50 lbs./ft.	5.3	4.2	26.19%	5.1	4.1	24.39%	3.4	2.6	30.77%	1.6	1.1	45.45%
3.00 lbs./ft.	7	5.8	20.69%	7	5.8	20.69%	4.9	4	22.50%	2.6	1.9	36.84%
4.00 lbs./ft.	10.3	8.3	24.10%	10.5	8.5	23.53%	7.6	6	26.67%	4.3	3.2	34.38%
Two Post Installation												
2.50 lbs./ft.	12.5	9.7	28.87%	12.1	9.6	26.04%	8	6.1	31.15%	3.8	2.6	46.15%
3.00 lbs./ft.	17.3	13.9	24.46%	17.4	14.3	21.68%	11.8	9.5	24.21%	6	4.5	33.33%
4.00 lbs./ft.	24.6	19	29.47%	25.3	20	26.50%	17.7	13.7	29.20%	9.9	7.3	35.62%
Three Post Installation												
2.50 lbs./ft.	18.7	14.6	28.08%	18.2	14.4	26.39%	12	9.2	30.43%	5.7	3.9	46.15%
3.00 lbs./ft.	26	20.8	25.00%	26.1	21.5	21.40%	17.7	14.3	23.78%	9.1	6.8	33.82%
4.00 lbs./ft.	36.9	28.6	29.02%	38	30	26.67%	26.6	20.6	29.13%	14.8	11	34.55%

Notes:

Height to Centroid of Sign Panel: 10.0 ft.

Nucor Rib-Bak® U-Channel Post material properties: ASTM 1075-12, Grade 80

Rail Steel Flat-Back U-Channel Post material properties: ASTM A499-89, Grade 60

* In accordance with AASHTO LTS-3 (1994)
 Fastest-Mile Wind Speed

** In accordance with AASHTO LTS-5 (2009)
 Basic Wind Speed: 3-sec gust
 Recurrence Interval: 10 years