



DESIGNATOR	MASS*		DIMENSIONS*							
	lb/ft	kg/m	A		B		C		D	
PFP02	2.0	2.98	1 7/16	37.1	3	77.8	1 1/4	32.5	5/8	17.0
PFP03	2.5	3.72	1 1/2	38.5	3	77.8	1 1/4	32.5	5/8	17.0
PFP04	2.75	4.09	1 9/16	39.0	3	77.8	1 1/2	32.5	5/8	17.0
PFP05	3.0	4.46	1 7/8	47.8	3 1/2	88.9	1 3/8	34.0	13/16	21.2
PFP06	4.0	5.95	2	50.1	3 1/2	88.9	1 3/8	34.0	13/16	21.2

\* ±5%

UNITS: IN [MM]

## RIB-BAK U-CHANNEL POSTS



PFP02-06

SHEET NO.

DATE:

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04/01/2012

## SPECIFICATIONS

Posts shall be a uniform, modified, flanged channel section - of the Nucor Steel Marion Inc Rib-Bak design. Posts shall be fabricated from hot rolled carbon steel bars conforming to the requirements of Nucor Steel Marion Inc. Grade SP-80. Chemistry specifications conform to ASTM A-1. Mechanical property specifications conform to ASTM A-499. Yield point of the steel shall be 80,000 psi (552 Mpa) minimum. The minimum ultimate tensile strength shall be 100,000 psi. (690 Mpa) The cast heat analysis of the steel shall conform to the following requirements:

<u>Element</u>	<u>Composition (%)</u>
Carbon	0.70 - .80
Manganese	0.70 - 1.00
Phosphorus (max)	0.035
Sulphur (max)	0.04

Posts shall be machine straightened to have a smooth uniform finish, free from defects affecting their strength, durability, or appearance. All holes and rough edges shall be free from burrs. The permissible tolerance for straightness shall be 1/4 [6] over 60 [1524]. Posts shall be punched with continuous 3/8 [9.5] or 7/16 [11] D holes on 1 [25] centers for the entire length of the post. The first hole shall be 1 [25] from the top of the post. After fabrication, posts may be polyester powder coated or galvanized. Galvanizing shall be in accordance with the requirements of ASTM A123.

Post Designator	Area (in <sup>2</sup>  mm <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup>  mm <sup>4</sup> x 10 <sup>3</sup> )	I <sub>y</sub> (in <sup>4</sup>  mm <sup>4</sup> x 10 <sup>3</sup> )	S <sub>x</sub> (in <sup>3</sup>  mm <sup>3</sup> )	S <sub>y</sub> (in <sup>3</sup>  mm <sup>3</sup> )
PFP02	0.56 [359]	0.15 [64.5]	0.42[175.7]	0.19 [3,195]	0.28 [4,523]
PFP03	0.70 [452]	0.21 [86.6]	0.55 [228.9]	0.25 [4,080]	0.36 [5,883]
PFP04	0.76 [488]	0.23 [94.9]	0.60 [248.9]	0.27 [4,425]	0.39 [6,407]
PFP05	0.84 [542]	0.38 [156.5]	0.86 [358.4]	0.34 [5,572]	0.48 [7,833]
PFP06	1.11 [717]	0.54 [224.8]	1.15 [477.5]	0.47 [7,653]	0.66 [10,734]

Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance and accepted manufacturing practices. All section properties are calculated based with a 3/8 [9.5] hole.

### INTENDED USE

The Rib-Bak U-channel posts are used in the Direct Burial U-Post system (SSF40a-b), Ground-Line Splice U-Post in Soil system (SSP01a-c), Mid-Height Spliced U-Post in Soil system (SSP02a-c), Braced Spliced U-Post in Soil system (SSP03a-c), Lap Splice Spacer Bar system (SSP04a-c), Minute-Man system (SSC10a-c), and the Slip Safe systems (SSS14a-c & SSS15a-c).

### CONTACT INFORMATION

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*\* All Nucor Steel Marion Inc. products are produced from 100% recycled steel.*



## RIB-BAK U-CHANNEL POSTS

# PFP02-06

# NUCOR

**BAR MILL GROUP**  
**NUCOR STEEL MARION, INC.**

SHEET NO.

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