

	MASS*		DIMENSIONS*									
DESIGNATOR	lb/ft	kg/m	Α			В			С		D)
PFP42a	2.03	2.98	1 1/4	31.8	2	1/2	[63.5]	1	1/4	[32.5]	9/16	[15.4]
PFP42b	2.47	3.72	1 5/16	[33]	2	1/2	[63.5]	1	1/4	[32.5]	9/16	[15.4]

* ±5%

UNITS: IN [MM]

CANADIAN U-CHANNEL POSTS



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SHEET NO.	DATE:
1 of 2	04/01/2012

SPECIFICATIONS

Posts shall be a uniform, modified, flanged channel section. Nucor Steel Marion Inc Canadian U-Channel Posts shall be fabricated from hot rolled carbon steel bars conforming to the requirements of Nucor Steel Marion Inc. ASTM Grade A-1045 Type 2 (PFP42a) or Grade A-1045 Type 1 (PFP42b). The cast heat analysis of the steel shall conform to the following requirements:

PFP42a: Grade	e A-1045 Type 2	PFP42b: Grade	e A-1045 Type 1
Yield (min)	55,000 psi (379 Mpa)	Yield (min)	70,000 psi (483 Mpa)
Tensile (min)	80,000 psi (552 Mpa)	Tensile (min)	90,000 psi (621 Mpa)
Element	Composition (%)	Element	Composition (%)
Carbon	0.38 - 0.44	Carbon	0.43-0.48
Manganese	0.45 - 0.65	Manganese	0.70-0.90
Phosphorus (max	(0.035)	Phosphorus (max	0.035
Sulphur (max)	0.05	Sulphur (max)	0.05

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	Area	I_x	I_{y}	S_{x}	$\mathbf{S}_{\mathbf{y}}$
Designator	$(in^2 mm^2)$	$(in^4 mm^4 \times 10^3)$	$(in^4 mm^4 \times 10^3)$	$(in^3 mm^3)$	$(in^3 mm^3)$
a	0.56 [361]	0.105 [43.7]	0.277 [115.3]	0.158 [2589]	0.222 [3638]
b	0.66 [426]	0.137 [57]	0.342 [142.4]	0.196 [3212]	0.274 [4490]

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 Canadian U-channel posts are used in the Direct Burial U-Post system (SSF40) and Canadian Lap Splice Spacer Bar system (SSP14).

CONTACT INFORMATION

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www.nucorhighway.com

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



CANADIAN U-CHANNEL POSTS

PFP42a-b		NUCOR
SHEET NO.	DATE	BAR MILL GROUP NUCOR STEEL MARION, INC.
2 of 2	04/01/2012	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,