

150F125-18, 33 ksi

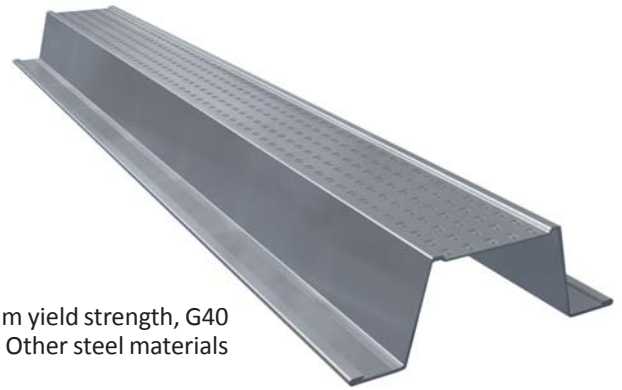
Depth

F

Width

Material Thickness

PrimeWall® Furring Channel



Material Composition

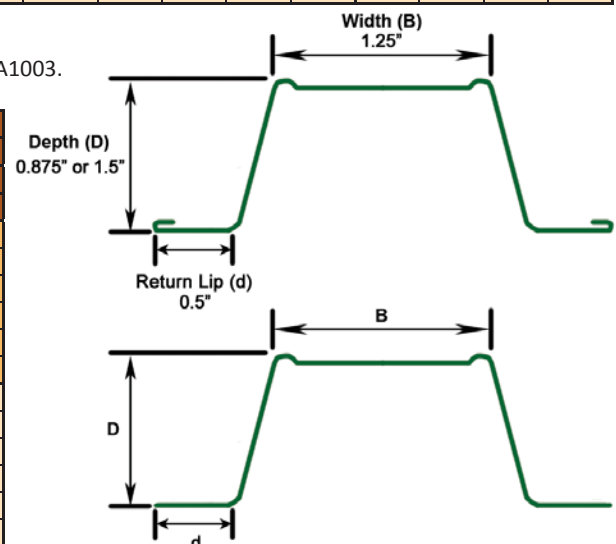
ASTM A1003/A 1003M Non Structural Grade 33 (230), 33 ksi (230 MPa) minimum yield strength, G40 (Z120) hot-dipped galvanized coating, or equivalent conforming to ASTM C645. Other steel materials with G40 coating are also available upon request.

Section	Product Profile							Gross Properties				Effective Properties					
	Width	Depth	Return Lip	Gauge	Design Thickness	Min Steel Thickness	Inside Bend Radius	Area	Weight	I _x	R _x	I _y	R _y	I _{xe}	S _{xe}	M _a	V _a
	(B)	(D)	(d)	(ga)	(t)	(t _{min})	(R)	(in ²)	(lbs/ft)	(in ⁴)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)
087F125-18, 33 ksi	1.25	0.875	0.5	25	0.0188	0.0179	0.0843	0.072	0.244	0.009	0.354	0.035	0.698	0.008	0.016	0.319	255
087F125-30, 33 ksi	1.25	0.875	0.5	20	0.0312	0.0296	0.0781	0.118	0.401	0.014	0.350	0.056	0.691	0.014	0.031	0.612	420
087F125-43, 33 ksi	1.25	0.875	0.5	18	0.0451	0.0428	0.0712	0.168	0.572	0.020	0.345	0.079	0.684	0.020	0.043	0.852	599
150F125-18, 33 ksi	1.25	1.5	0.5	25	0.0188	0.0179	0.0843	0.095	0.324	0.031	0.572	0.052	0.742	0.029	0.034	0.681	261
150F125-30, 33 ksi	1.25	1.5	0.5	20	0.0312	0.0296	0.0781	0.157	0.534	0.051	0.568	0.085	0.735	0.050	0.064	1.271	429
150F125-43, 33 ksi	1.25	1.5	0.5	18	0.0451	0.0428	0.0712	0.225	0.764	0.071	0.563	0.119	0.728	0.071	0.091	1.796	613

Important Notes

- 18 mil furring channel is hemmed; All other thicknesses are unhemmed.
- PrimeWall Furring Channel is produced to meet or exceed ASTM C645, A653, and A1003.
- Galvanized sheet steel meets or exceeds requirements of ASTM A924 & A1003.

Furring Channel (F) Allowable Ceiling Spans - L/120										
Section	Span	4 psf			6 psf			13 psf		
		Channel Spacing (in) o.c.			Channel Spacing (in) o.c.			Channel Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24
087F125-18, 33 ksi	Single	6' 5"	5' 10"	5' 1"	5' 7"	5' 1"	4' 5"	4' 4"	3' 11"	3' 5"
	Multiple	7' 4"	6' 4"	5' 1"	5' 11"	5' 2"	4' 2"	4' 1"	3' 6"	2' 10"
087F125-30, 33 ksi	Single	7' 9"	7' 1"	6' 2"	6' 10"	6' 2"	5' 5"	5' 3"	4' 9"	4' 2"
	Multiple	9' 7"	8' 9"	7' 1"	8' 3"	7' 2"	5' 9"	5' 7"	4' 10"	3' 11"
087F125-43, 33 ksi	Single	8' 8"	7' 11"	6' 11"	7' 7"	6' 11"	6' 0"	5' 10"	5' 4"	4' 8"
	Multiple	10' 9"	9' 9"	8' 5"	9' 5"	8' 5"	6' 10"	6' 7"	5' 9"	4' 8"
150F125-18, 33 ksi	Single	9' 10"	8' 11"	7' 10"	8' 7"	7' 10"	6' 10"	6' 8"	6' 0"	5' 3"
	Multiple	10' 8"	9' 3"	7' 6"	8' 8"	7' 6"	6' 1"	5' 10"	4' 5"	2' 11"
150F125-30, 33 ksi	Single	11' 10"	10' 9"	9' 5"	10' 4"	9' 5"	8' 2"	8' 0"	7' 3"	6' 4"
	Multiple	14' 7"	12' 7"	10' 3"	11' 11"	10' 3"	8' 4"	8' 1"	7' 0"	5' 8"
150F125-43, 33 ksi	Single	13' 3"	12' 1"	10' 6"	11' 7"	10' 6"	9' 2"	8' 11"	8' 2"	7' 1"
	Multiple	16' 5"	14' 11"	12' 2"	14' 2"	12' 3"	9' 11"	9' 7"	8' 4"	6' 9"



Section	Span	Furring Channel (F) Allowable Ceiling Spans - L/240									Furring Channel (F) Allowable Ceiling Spans - L/360								
		4 psf			6 psf			13 psf			4 psf			6 psf			13 psf		
		Channel Spacing (in) o.c.			Channel Spacing (in) o.c.			Channel Spacing (in) o.c.			Channel Spacing (in) o.c.			Channel Spacing (in) o.c.			Channel Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
087F125-18, 33 ksi	Single	5' 1"	4' 7"	4' 0"	4' 5"	4' 0"	3' 6"	3' 5"	3' 1"	2' 9"	4' 5"	4' 0"	3' 6"	3' 10"	3' 6"	3' 1"	3' 0"	2' 9"	2' 5"
	Multiple	6' 3"	5' 8"	5' 0"	5' 6"	5' 0"	4' 3"	4' 1"	3' 6"	2' 10"	5' 6"	5' 0"	4' 4"	4' 9"	4' 4"	3' 10"	3' 8"	3' 4"	2' 10"
087F125-30, 33 ksi	Single	6' 2"	5' 7"	4' 11"	5' 5"	4' 11"	4' 3"	4' 2"	3' 9"	3' 4"	5' 5"	4' 11"	4' 3"	4' 9"	4' 3"	3' 9"	3' 8"	3' 4"	2' 11"
	Multiple	7' 8"	6' 11"	6' 1"	6' 8"	6' 1"	5' 3"	5' 2"	4' 8"	4' 0"	6' 8"	6' 1"	5' 3"	5' 10"	5' 3"	4' 7"	4' 6"	4' 1"	3' 7"
087F125-43, 33 ksi	Single	6' 11"	6' 3"	5' 6"	6' 0"	5' 6"	4' 9"	4' 8"	4' 3"	3' 8"	6' 0"	5' 6"	4' 9"	5' 3"	4' 9"	4' 2"	4' 1"	3' 8"	3' 3"
	Multiple	8' 6"	7' 9"	6' 9"	7' 5"	6' 9"	5' 11"	5' 9"	5' 3"	4' 7"	7' 5"	6' 9"	5' 11"	6' 6"	5' 11"	5' 2"	5' 0"	4' 7"	4' 0"
150F125-18, 33 ksi	Single	7' 10"	7' 1"	6' 2"	6' 10"	6' 2"	5' 5"	5' 3"	4' 9"	4' 2"	6' 10"	6' 2"	5' 5"	5' 11"	5' 5"	4' 9"	4' 7"	4' 2"	3' 8"
	Multiple	9' 8"	8' 9"	7' 6"	8' 5"	7' 6"	6' 2"	5' 10"	4' 9"	3' 8"	8' 5"	7' 8"	6' 8"	7' 4"	6' 8"	5' 10"	5' 8"	4' 9"	3' 8"
150F125-30, 33 ksi	Single	9' 5"	8' 6"	7' 5"	8' 2"	7' 5"	6' 6"	6' 4"	5' 9"	5' 0"	8' 2"	7' 5"	6' 6"	7' 2"	6' 6"	5' 8"	5' 6"	5' 0"	4' 5"
	Multiple	11' 7"	10' 6"	9' 2"	10' 1"	9' 2"	8' 0"	7' 10"	7' 0"	5' 9"	10' 1"	9' 2"	8' 0"	8' 10"	8' 0"	7' 0"	6' 10"	6' 3"	5' 5"
150F125-43, 33 ksi	Single	10' 6"	9' 7"	8' 4"	9' 2"	8' 4"	7' 4"	7' 1"	6' 5"	5' 8"	9' 2"	8' 4"	7' 4"	8' 0"	7' 4"	6' 4"	6' 2"	5' 8"	4' 11"
	Multiple	13' 0"	11' 10"	10' 4"	11' 4"	10' 4"	9' 0"	8' 9"	8' 0"	6' 9"	11' 4"	10' 4"	9' 0"	9' 11"	9' 0"	7' 11"	7' 8"	7' 0"	6' 1"

Important Notes

- Allowable ceiling spans are based on effective properties.
- Single spans taken as the minimum span based on moment, shear, web crippling, or deflection.
- Multiple span indicates two or more equal spans with channel continuous over center support.
- Multiple span indicates two or more equal, continuous spans with span length measured support to support.
- Multiple spans taken as minimum span based on moment, shear, web crippling, deflection, combined bending and shear, or combined bending and web crippling.
- Web crippling values based on 1 inch bearing at end and interior supports.