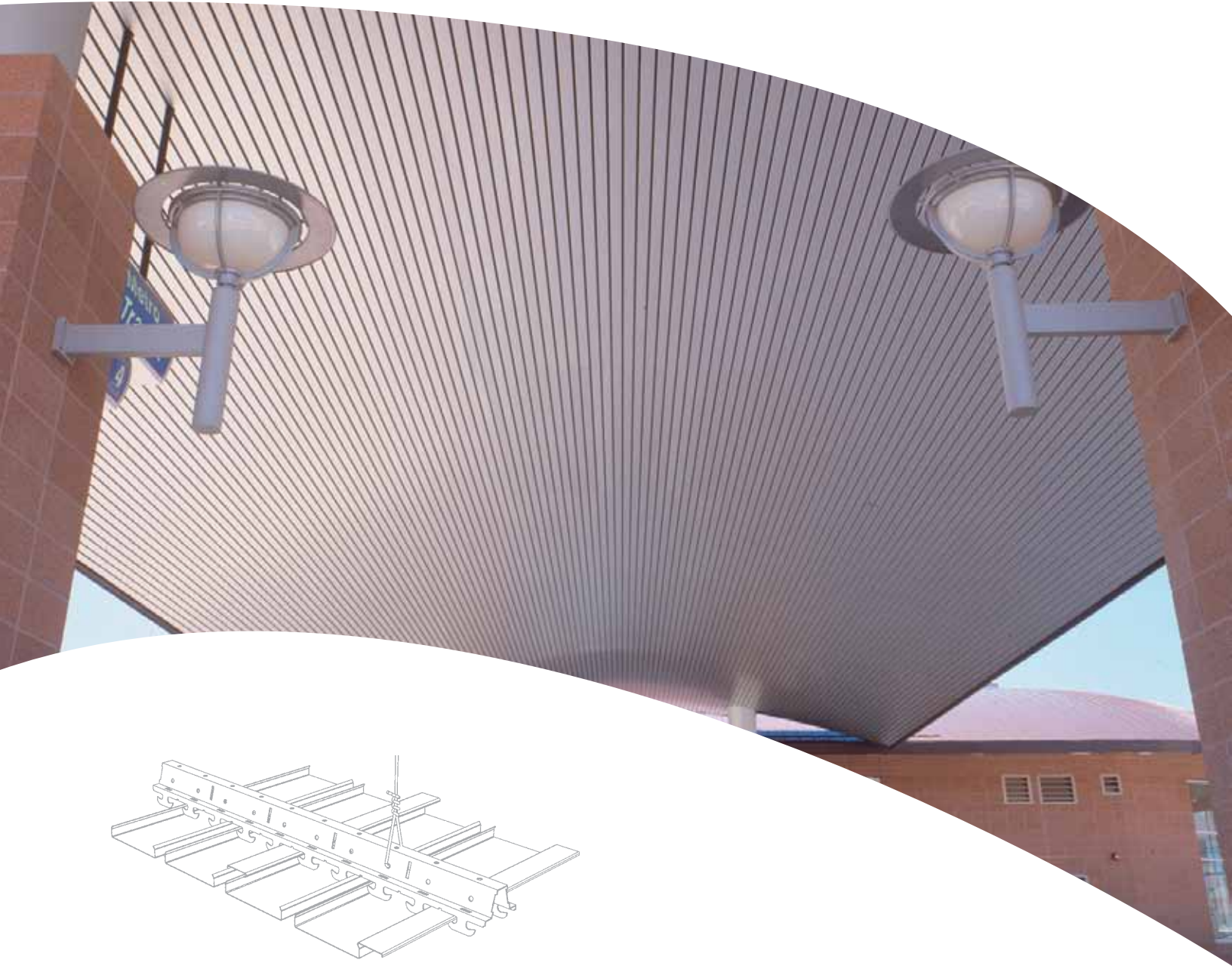


Planar®
PlanarPlus® PlanarMacro® MacroPlus™
PRODUCT GUIDE

LINEAR METAL
CEILING
09 53 23 - 09 54 26



Planar®

PlanarPlus® PlanarMacro®
MacroPlus™

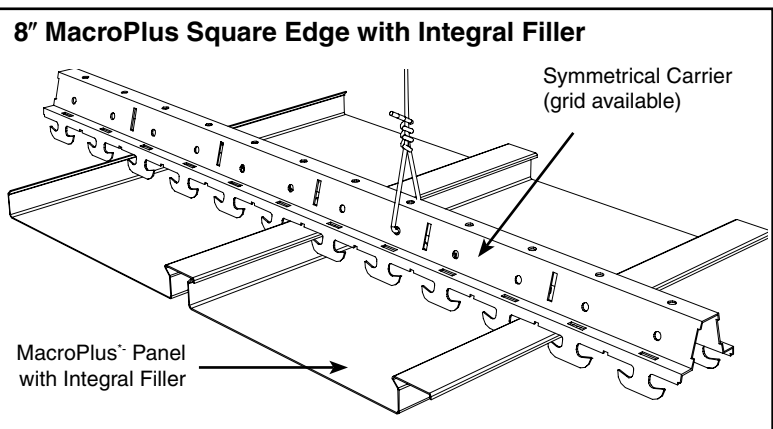
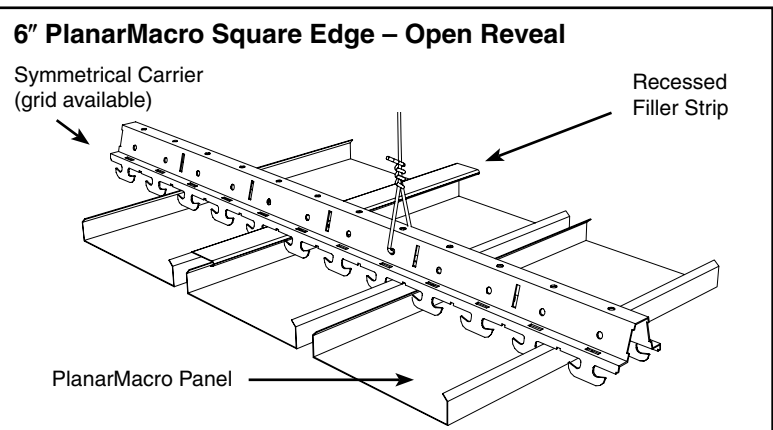
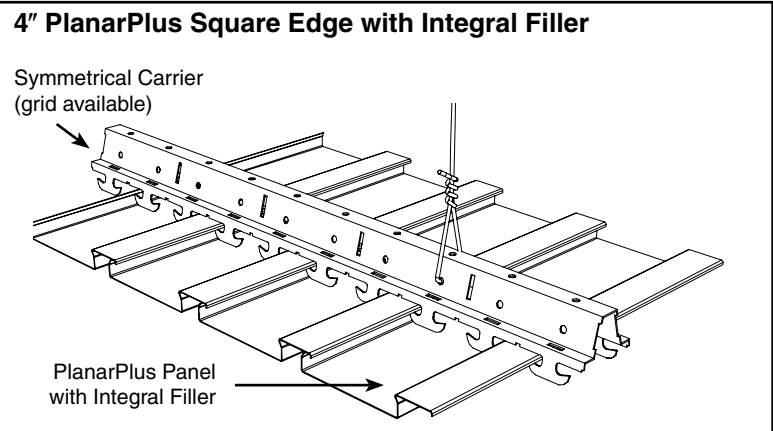
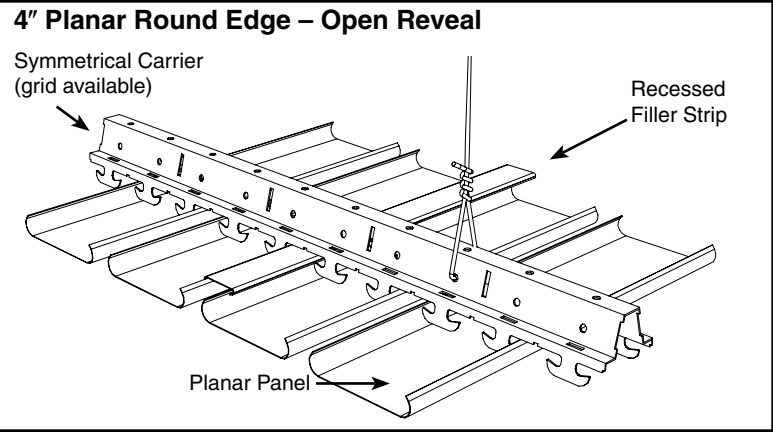
LINEAR METAL CEILINGS

Applications

Ideal for airports, transit, galleries, offices, restaurants, corridors, auditoriums.

Features

- Choice of widths, round and square edges, shallow and deep profiles.
- Thickness and finishes for virtually any environment.
- Painted colors, reflective, anodized and vinyl wood finishes.
- Reveals between panels can be closed or left open.
- Easily incorporates lighting, air, audio and services.
- Visual design continuity from exterior to interior.
- Enhance acoustical performance with optional perforating and Acoutex™ backer.
- Metal contains no organic compounds to support mold or microbial growth.
- Aluminum: 100% recycled content; Steel: T-bar Carrier is 25% recycled content. 100% locally recyclable.



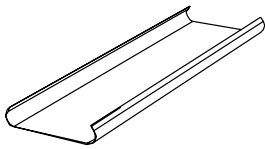
Always up-to-date product information
is available on the web

chicagometallic.com/planar
chicagometallic.com/planarplus
chicagometallic.com/planarmacro
chicagometallic.com/macroplus

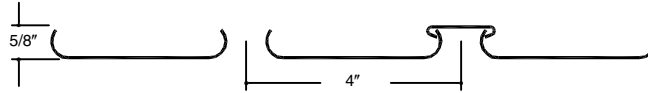
Planar® PlanarPlus® 4" Round / Square Edge Panels

NOTE: Special panel lengths are available. Minimum order quantities apply to all products. Please contact CMC Customer Service for details.

Product Number	Dimensions			Finish	Packaging		
	Length	Height	Face		Feet	Pieces	Weight



4" Planar Round Edge
58.01.044

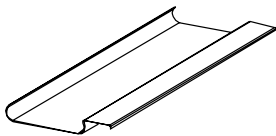


4" Planar Round Edge – Open Reveal*

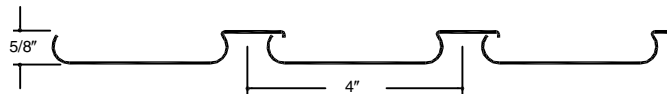
0.025" Aluminum – Solid

58.01.044.xxx	12'	5/8"	3 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	240	20	40
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* Available perforated with Acoutex™ backer.



4" PlanarPlus Round Edge
58.03.012

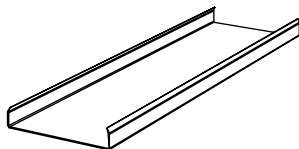


4" PlanarPlus Round Edge – Matching Integral Filler*

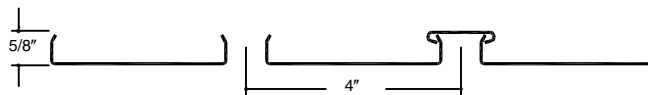
0.025" Aluminum – Solid

58.03.012.xxx	12'	5/8"	3 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	240	20	44
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* Available perforated with Acoutex™ backer.



4" Planar Square Edge
58.03.052



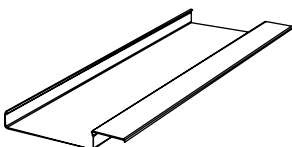
4" Planar Square Edge – Open Reveal*

0.025" Aluminum – Solid

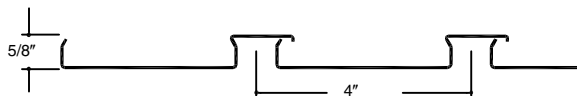
58.03.052.xxx	12'	5/8"	3 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	240	20	40
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* Available perforated with Acoutex™ backer.

** Unfinished (xxxU) or Finished (xxxF). Natural Wood (unperfed only).



4" PlanarPlus Square Edge
58.03.018



4" PlanarPlus Square Edge – Matching Integral Filler*

0.025" Aluminum – Solid

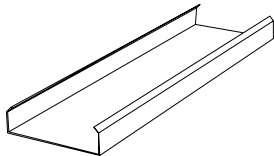
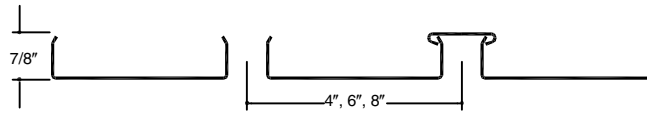
58.03.018.xxx	12'	5/8"	3 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	240	20	44
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* Available perforated with Acoutex™ backer.

PlanarMacro® 4", 6" and 8" Square Edge Panels

NOTE: Special panel lengths are available. Minimum order quantities apply to all products. Please contact CMC Customer Service for details.

Product Number	Dimensions			Finish	Packaging		
	Length	Height	Face		Feet	Pieces	Weight



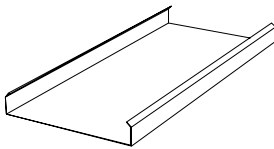
4" PlanarMacro Square Edge
58.03.425

4" PlanarMacro Square Edge – Open Reveal*

0.032" Aluminum – Solid

58.03.425.xxx	12'	7/8"	3 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	168	14	25
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* Available perforated with Acoutex™ backer.



6" PlanarMacro
58.03.450

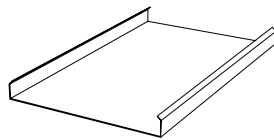
6" PlanarMacro Square Edge – Open Reveal*

0.032" Aluminum – Solid**

58.03.450.xxx	12'	7/8"	5 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	240	20	33
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* Available perforated with Acoutex™ backer.

** MetalWood II Finishes are laminated onto 0.024" aluminum.



8" PlanarMacro
58.03.455

8" PlanarMacro Square Edge – Open Reveal*

0.032" Aluminum – Solid

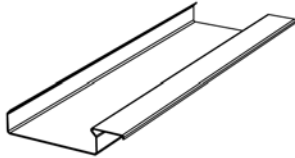
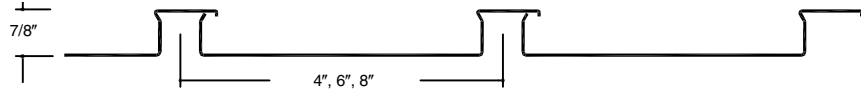
58.03.455.xxx	12'	7/8"	7 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	240	20	81
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* Available perforated with Acoutex™ backer.

MacroPlus™ 4", 6" and 8" Square Edge Panels

NOTE: Special panel lengths are available. Minimum order quantities apply to all products. Please contact CMC Customer Service for details.

Product Number	Dimensions			Finish	Packaging		
	Length	Height	Face		Feet	Pieces	Weight



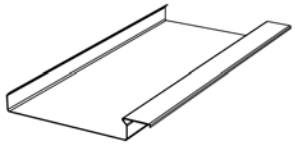
4" MacroPlus
58.03.426

4" MacroPlus Square Edge – Matching Integral Filler*

0.032" Aluminum – Solid

58.03.426.xxx	12'	7/8"	3 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	168	14	25
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* Available perforated with Acoutex™ backer.



6" MacroPlus
58.03.451

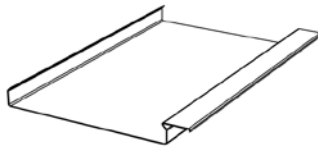
6" MacroPlus Square Edge – Matching Integral Filler*

0.032" Aluminum – Solid

58.03.451.xxx	12'	7/8"	5 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	120	10	35
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* Available perforated with Acoutex™ backer.

** MetalWood II Finishes are laminated onto 0.024" aluminum. 6" MacroPlus Square Edge – Matching Integral Filler



8" MacroPlus
58.03.460

8" MacroPlus Square Edge – Matching Integral Filler*

0.032" Aluminum – Solid

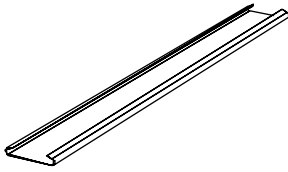
58.03.460.xxx	12'	7/8"	7 1/4"	Painted, Reflective, Anodized MetalWood II®, WoodScenes™	96	8	33
---------------	-----	------	--------	--	----	---	----

* Available perforated with Acoutex™ backer.

Filler Strips / Splices / End Plugs

NOTE: Minimum order quantities apply to all products.

Product Number	Dimensions			Finish	Packaging		
	Length	Height	Face		Feet	Pieces	Weight



Recessed Filler Strip
58.01.009 - 58.01.011

Filler Strips – Aluminum (for Planar / PlanarMacro)

Recessed

58.01.009.xxx	12'	–	3/4"	Painted Colors, MetalWood II®, WoodScenes™, Reflective, Anodized	240	20	15
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Recessed for Expansion Carrier

58.01.011.xxx	12'	–	3/4"	Painted Colors, MetalWood II®, WoodScenes™, Reflective, Anodized	240	20	21
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Splices - Aluminum

4" Planar/PlanarPlus – Round Edge / Square Edge

58.01.004.xxx	–	–	3 1/4"	Painted Colors, MetalWood II®, WoodScenes™, Reflective, Anodized	–	50	4
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4" PlanarMacro/MacroPlus

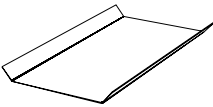
58.03.525.xxx	–	–	3 1/4"	Painted Colors, MetalWood II®, WoodScenes™, Reflective, Anodized	–	50	5
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6" Planar/PlanarPlus

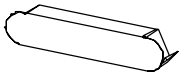
58.03.530.xxx	–	–	5 1/4"	Painted Colors, MetalWood II®, WoodScenes™, Reflective, Anodized	–	50	5
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8" Planar/PlanarPlus

58.03.535.xxx	–	–	7 1/4"	Painted Colors, MetalWood II®, WoodScenes™, Reflective, Anodized	–	50	5
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Splice
58.01.004-58.03.525
58.03.530-58.03.535



End Plug Round Edge
58.01.052



End Plug Square Edge
58.01.171, 58.03.625,
58.03.630, 58.03.635

Product Number	Dimensions		Description	Minimum Order Quantity	
	Height	Face		Pieces	Weight

End Plugs – Aluminum

4" Planar/PlanarPlus – Round Edge

58.01.052.xxx	5/8"	3 1/4"	Standard Colors	100	1
58.01.052.xxx	5/8"	3 1/4"	Premium Colors and Finishes	100	1
58.01.052.xxx	5/8"	3 1/4"	WoodScenes	100	1

4" Planar/PlanarPlus – Square Edge

58.03.171.xxx	5/8"	3 1/4"	Standard Colors	100	1
58.03.171.xxx	5/8"	3 1/4"	Premium Colors and Finishes	100	1
58.03.171.xxx	5/8"	3 1/4"	WoodScenes	100	1

4" PlanarMacro/MacroPlus – Square Edge

58.03.625.xxx	7/8"	3 1/4"	Standard Colors	100	1
58.03.625.xxx	7/8"	3 1/4"	Premium Colors and Finishes	100	1
58.03.625.xxx	7/8"	3 1/4"	WoodScenes	100	1

6" PlanarMacro/MacroPlus – Square Edge

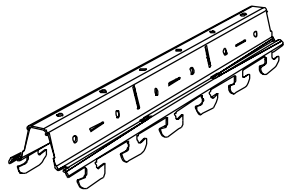
58.03.630.xxx	7/8"	5 1/4"	Standard Colors	100	1
58.03.630.xxx	7/8"	5 1/4"	Premium Colors and Finishes	100	1
58.03.630.xxx	7/8"	5 1/4"	WoodScenes	100	1

8" PlanarMacro/MacroPlus – Square Edge

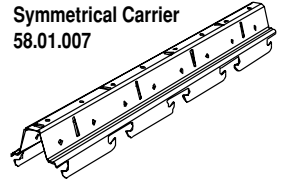
58.03.635.xxx	7/8"	7 1/4"	Standard Colors	100	1
58.03.635.xxx	7/8"	7 1/4"	Premium Colors and Finishes	100	1
58.03.635.xxx	7/8"	7 1/4"	WoodScenes	100	1

Planar® PlanarPlus® PlanarMacro® MacroPlus™ Suspension

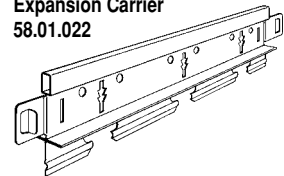
NOTE: Minimum order quantities apply to all products.



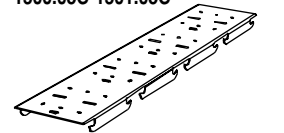
Symmetrical Carrier
58.01.007



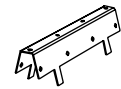
Expansion Carrier
58.01.022



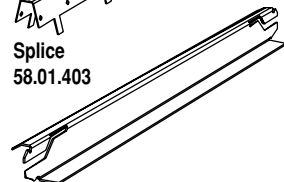
T-Bar Carrier
1500.08C-1501.08C



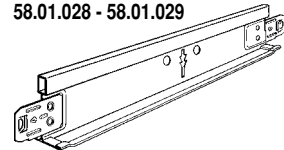
Radius Carrier
58.01.008-58.01.005



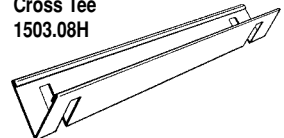
Splice
58.01.403



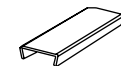
Stabilizer Bar
58.01.028 - 58.01.029



Cross Tee
1503.08H



Spacer Bar
10.00.828.000



Retainer Clip
58.01.318 - 58.01.317

Product Number	Length	Description	Packaging		
			Feet	Pieces	Weight

Suspension

Carriers

58.01.007.008	12'	Symmetrical Carrier – Aluminum*	240	20	47
Per Order	12'	Radius Symmetrical Carrier – factory curved**	240	20	47
58.01.022.008	12'	Expansion Carrier – 4 ¹ / ₈ " for 4" and 8" Panels	240	20	47
1500.08C	12'	T-Bar Carrier for 4" and 8" Panels – Steel	144	12	23
1501.08C	12'	T-Bar Carrier for 6" Panels – Steel	144	12	23
58.01.008.008	10'	Radius Carrier – 2" for 6" Panels	200	20	40
58.01.005.008	10'	Radius Carrier – 4" for 4" and 8" Panels	200	20	40

* Symmetrical carrier is required on all exterior applications.

** For radius symmetrical carrier specify radius at time of order. Curving available concave only.

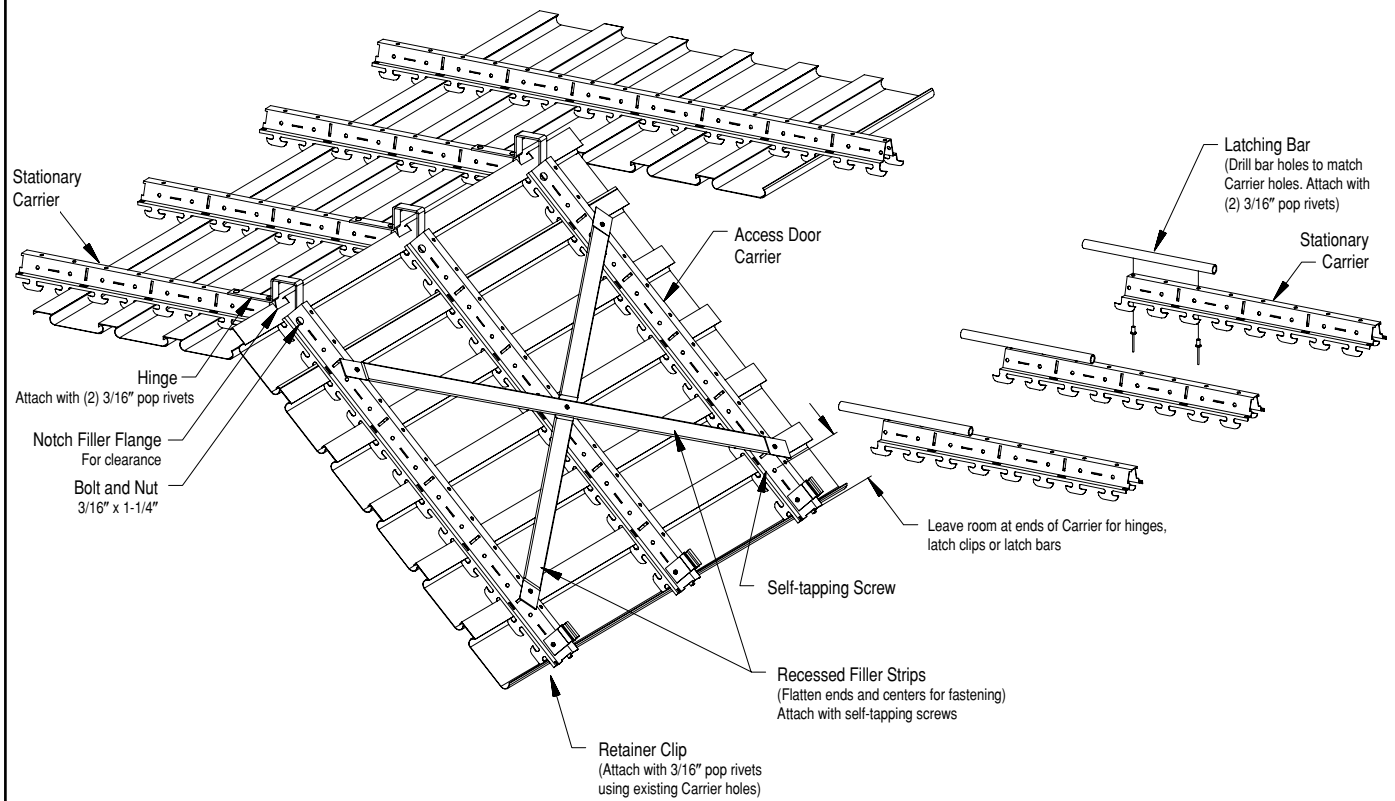
Accessories

58.01.403.008	–	Symmetrical Carrier Splice	–	100	4
58.01.028.008	49 ¹³ / ₁₆ "	Interior Stabilizer Bar for Symmetrical Carrier	–	50	17
58.01.029.008	35 ¹³ / ₁₆ **	Exterior Stabilizer Bar - Symmetrical Carrier	–	50	12
1503.08H	4'	Cross Tee for T-Bar Carrier	200	50	38
10.00.828.000H	4'	Spacer Bar for T-bar Carrier	160	40	29
58.01.318.000	–	Retainer Clip - Separate filler used	–	500	4
58.01.317.000	–	Retainer Clip - Integral filler used	–	500	4
58.01.058		Access Door Assembly Kit (2 Hinge Assemblies, 4 Retainer Clips, 2 Retainer Bars)	–	–	1

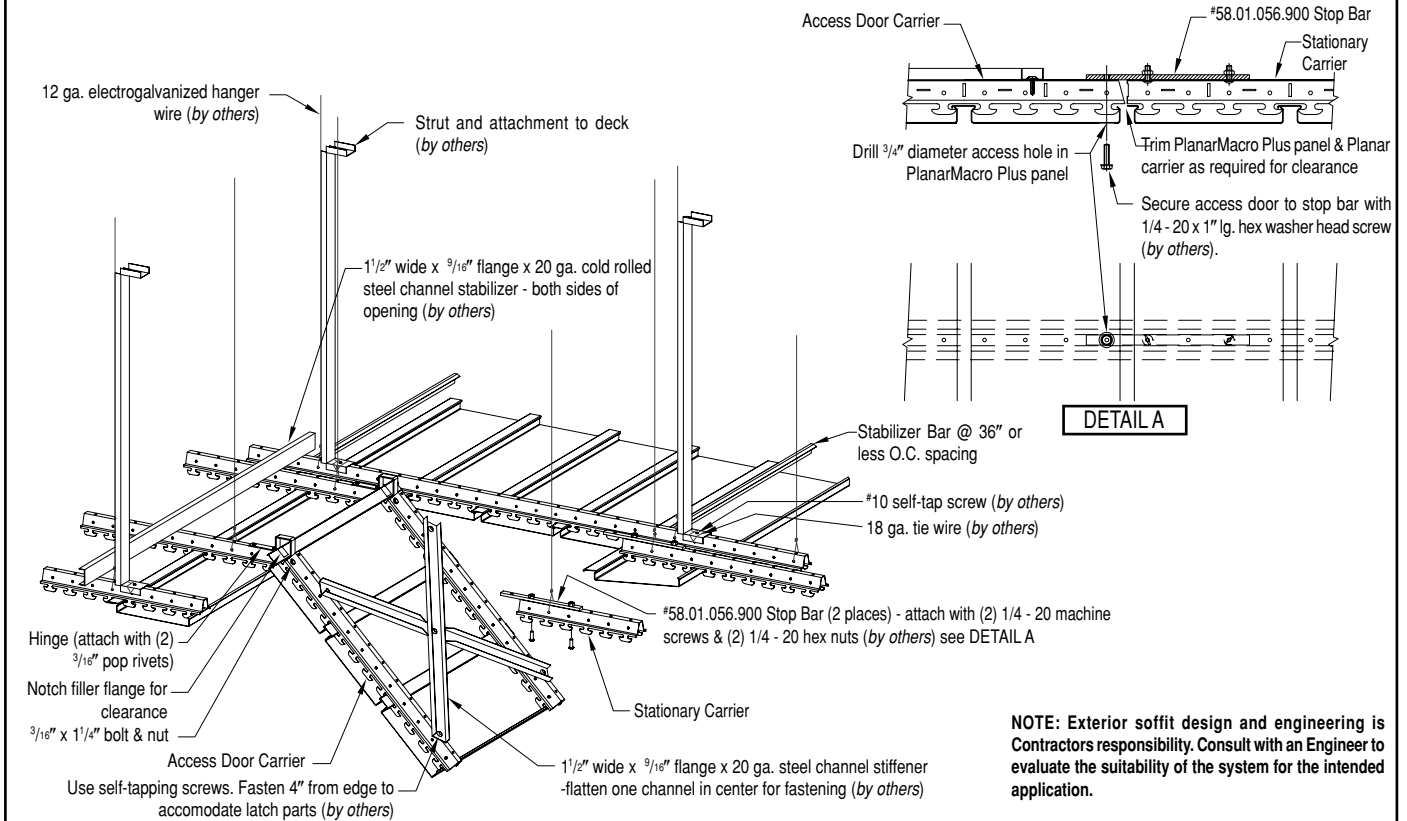
* 2' Stabilizer Bar available as a special. Please contact CMC Customer Service.

Linear Metal Panel Access Door Treatment - Interior / Exterior

For INTERIOR Use Only



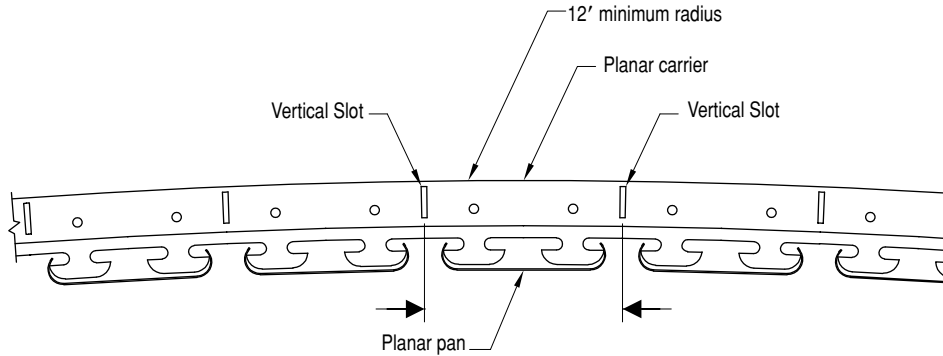
For EXTERIOR Use Only



Linear Metal Panel Curved Treatment - Factory / Field

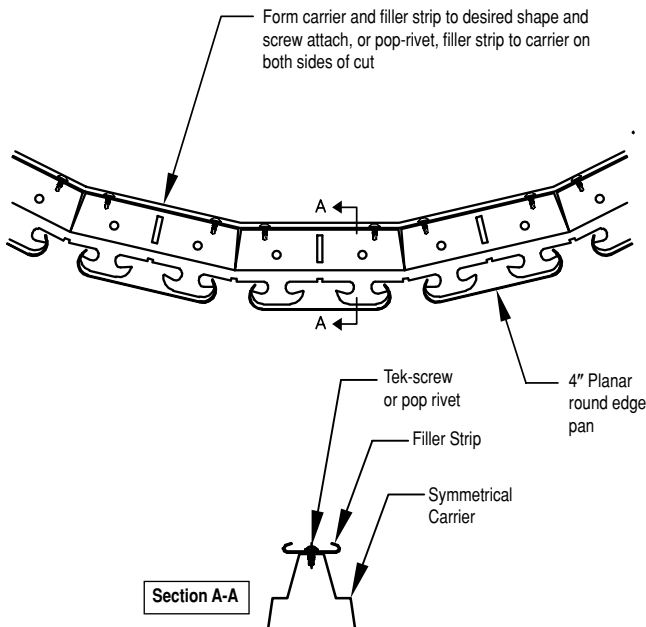
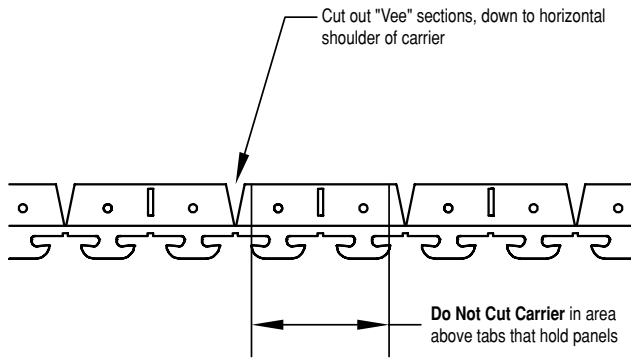
FACTORY Planar Symmetrical Carrier for CONCAVE Treatments

Note: Factory curved carriers are not available for convex applications



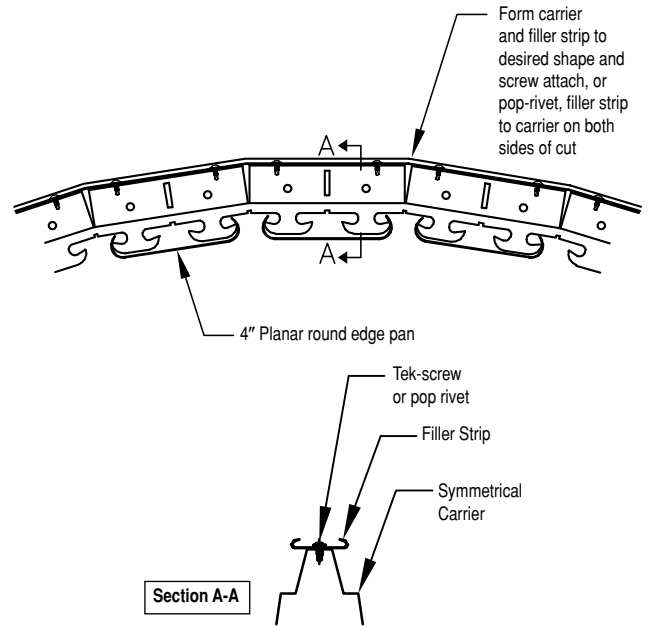
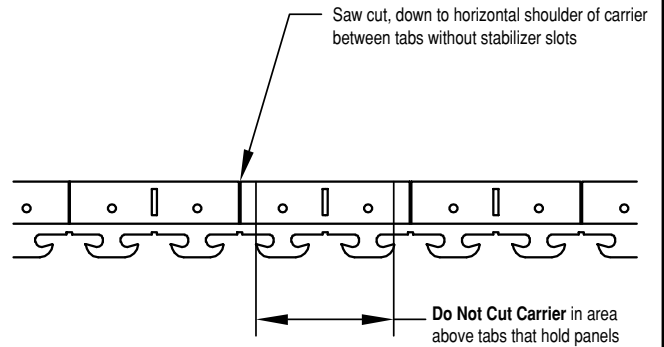
FIELD Modified Planar Symmetrical Carrier for CONVEX Treatments of 4" Planar Only

Shown using 4" Planar Round Edge Panels
Contact CMC Tech Services for instructions using other panel options



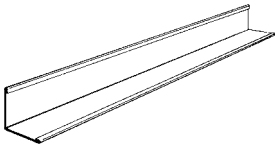
FIELD Modified Planar Symmetrical Carrier for CONCAVE Treatments of 4" Planar Only

Shown using 4" Planar Round Edge Panels
Contact CMC Tech Services for instructions using other panel options

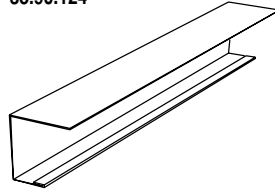


Planar® PlanarMacro® Perimeter Treatments & Accessories

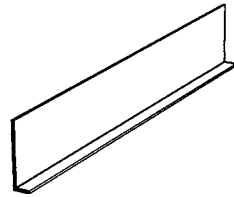
NOTE: Minimum order quantities apply to all products.



Wall Angles
38.90.124



Wall Channels
58.03.017 - 58.03.717



Custom Trims
38.35.995.000 38.90.131

Product Number	Dimensions			Description	Packaging		
	Length	Height	Face		LF	Pieces	Weight

Wall Angles – Aluminum with Hemmed Edges

38.90.124.xxx	12'	3/4"	15/16"	Painted, Reflective, MetalWood II®	120	10	10
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Wall Channels – Planar – Aluminum with a Hemmed Edge

58.03.017.xxx	10'	1 ¹³ / ₁₆ "	1 ⁷ / ₈ " x 1"	Anodized, MetalWood II®	100	10	14
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Wall Channels – PlanarMacro – Aluminum with a Hemmed Edge

58.03.717.xxx	10'	2"	1 ⁵ / ₈ " x 1"	Anodized, MetalWood II®	100	10	14
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Custom Trims (PVC)

38.35.995.000	10'	2"	1/2"	Flexible Angle-Aluminum-Bare	100	10	10
38.90.131.xxx	Per Order			Special Sections	-	-	-

Product Number	Roll Size	Roll Width	Description	Sq. Ft. Per Roll	Packaging	
					Pieces	Weight

Acoustical Blanket – Vinyl Facing One Side

58.01.103.008	100'	48"	1" x 1 lb. - Black	400	1	56
58.01.060.008	100'	48"	1" x 1 ¹ / ₂ lb. - Black	400	1	76
58.01.104.008	100'	48"	1 ¹ / ₂ " x 1 lb. - Black	400	1	58
58.01.102.008	100'	48"	1 ¹ / ₂ " x 1 ¹ / ₂ lb. - Black	400	1	78

Duct Liner – Black with No Facing

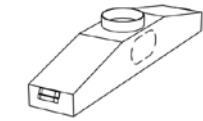
58.01.105.008	100'	48"	1" x 1 ¹ / ₂ lb.	400	1	76
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Note: Please consult CMC Customer Service for Panel Cutting Tool and pricing.

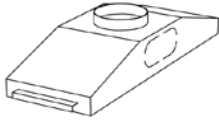
Planar® PlanarMacro® Air Distribution

NOTE: Minimum order quantities apply to all products.

Product Number	Description	Packaging	
		Pieces	Weight



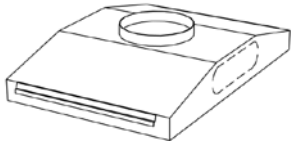
2-Slot Diffuser
58.01.072



4-Slot Diffuser
58.01.074



6-Slot Diffuser
58.01.076



8-Slot Diffuser
58.01.078

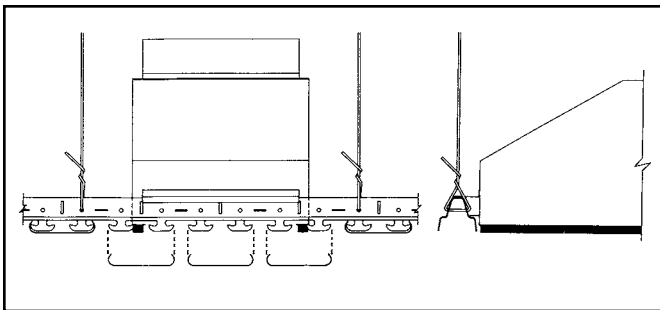
Air Diffusers

58.01.072	2 slot unit, 8" collar, 9" width	1	10
58.01.074	4 slot unit, 10" collar, 17" width	1	13
58.01.076	6 slot unit, 12" collar, 25" width	1	16
58.01.078	8 slot unit, 14" collar, 33" width	1	20
58.01.108	Round Edge Planar Pattern Control	1	1
58.01.107	Macro and Square Edge Planar Pattern Control	1	1

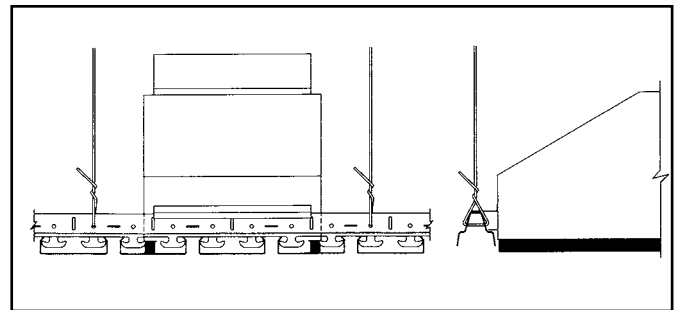
Notes: Number of slots based on 4" panels.
One pattern control is needed for each slot opening on air supply units.
Standard collars are top mounted. Oval, side inlet collars are special order.
Air diffusers are compatible with Symmetrical Carrier only.

Air diffusers are designed to install as tailored components to the Planar Linear Metal Ceiling System. Dimensions of the Affinitrol Air Diffuser are compatible with ceiling panels and carriers. The Affinitrol air chamber spans the 50" area between carriers.

Planar

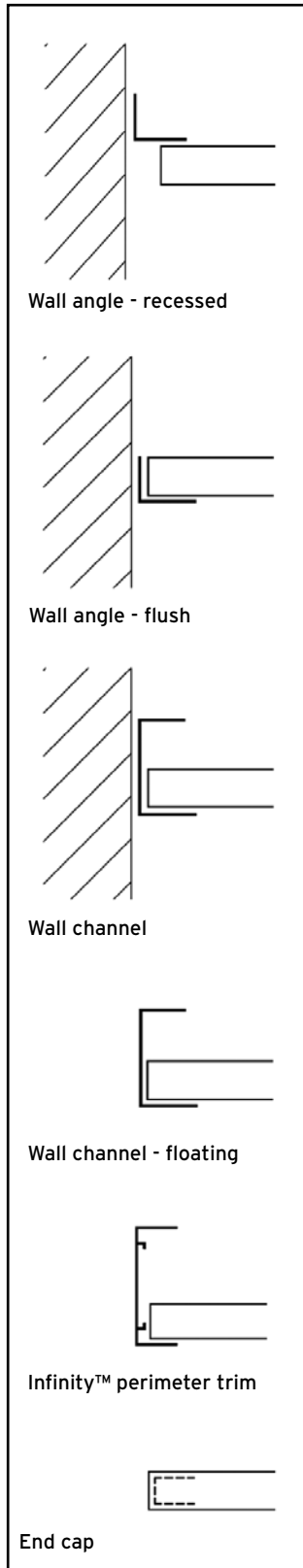


PlanarMacro



System Treatments

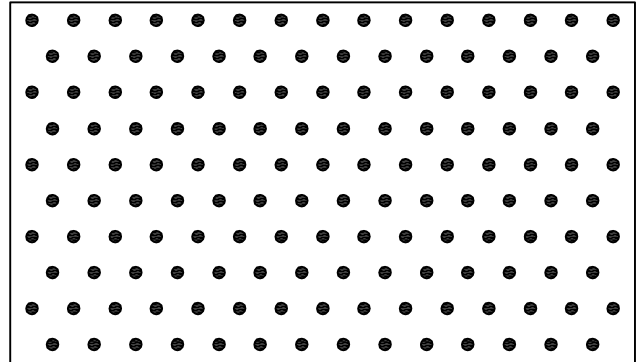
Perimeter Treatments***



*** Reference Wall Angles and Channels on p. 10.
See Infinity Product Guide for other trim options.

Perforation Option

T Pattern



0.0625" diameter holes
0.216" lineal centers
.125" border
7.6% open area

Color Options

Standard Painted Colors

- 01 White
- 02 Black
- 44 Satin Silver

Premium Painted Colors

- 03 Bronze
- 21 Copper Metallic
- 23 Sandstone
- 88 Flat Black
- 113 Straw
- 167 Brick Red
- 174 Garnet
- 215 Forest Green
- 246 Federal Indigo
- 256 True Blue
- 263 Plum
- 270 Pearl Gray
- 379 Gloss White
- 386 Gloss Black
- 401 Maple*
- 402 Oak*
- 403 Cherry*
- 404 Pumpkin Maple*
- 405 Karri*
- 425 Wet Clay
- 428 Yellow Flash
- 429 Silver Lining
- 430 Beige Breeze
- 431 Whitewash
- 432 Blonde Wood
- 437 Midnight Blue
- 438 Royal Amethyst
- 442 Burgundy Brick
- 443 Toffee Fate
- 447 Cinnamon
- 449 Fortune Gray
- 455 Cocoa Shell
- 495 Cardinal Red
- 510 Morning Dew Metallic

- 511 Autumn Metallic
- 512 Moon Glow Metallic
- 513 Sun Gold Metallic
- 515 Sterling Metallic
- 516 Flint Metallic
- 517 Emerald Metallic
- 520 Polar White
- 521 Nickel
- 524 Silver

WoodScenes™ Painted Colors

- 800 Lazy Maple
- 801 Aged Teak
- 802 Vintage Burlwood
- 803 Burnished Cherry
- 804 Sleek Cherry
- 805 Weathered Oak

Reflective Finishes

- 369 Brushed Gold**
- 378 Brushed Aluminum**

Anodized Finishes

- 14 Chromecoat Anodized
- 16 Brasscoat Anodized
- 504 Satin Silver Anodized
- 509 Copper Coat Anodized

MetalWood II® Finishes*

- 401 Maple
- 402 Oak
- 403 Cherry
- 404 Pumpkin Maple
- 405 Karri
- 650R Maple
- 651R Cherry
- 652R Pumpkin Maple
- 653R Oak
- 654R Karri
- 655R Bamboo

* Coordinating Solid Paint Colors to MetalWood II® Finishes

** 4" Planar Only

Specification Data

Product information for integration into ceiling specification

panel type		Planar	PlanarPlus	PlanarMacro	MacroPlus
material	painted aluminum	•	•	•	•
	reflective and anodized aluminum	•	•	•	•
	Wood laminates only	•		•	
	MetalWood II® wood grain finishes and vinyl laminate	•	•	•	•
	WoodScenes™ painted colors	•	•	•	•
surface	solid and perforated ¹	•	•	•	•
size	nominal panel width x depth	4" x 5/8"	4" x 5/8"	4", 6", 8" x 7/8"	4", 6", 8" x 7/8"
edge	square	•	•	•	•
	round	•	•		
reveal	open with optional filler strip	•		•	
	integral filler strip		•		•
fire	class A: flame 0, smoke 0 per ASTM E 84 ¹	•	•	•	•
sound	NRC - solid with open reveal	0.60 ²		0.60 ²	
	NRC - perforated with open reveal	0.55 ³ , 0.95 ²		0.55 ³ , 0.95 ²	
	NRC - perforated with closed reveal	0.70 ³ , 0.95 ²	0.70 ³ , 0.95 ²	0.70 ³ , 0.95 ²	0.70 ³ , 0.95 ²
performance	interior, seismic and exterior environments ⁴	•	•	•	•
suspension	aluminum symmetrical carrier (straight and curved)	•		•	
	steel grid carrier	•	•	•	•
	aluminum radius carrier	•		•	
lights and air	linear integrated lighting and air diffusers	•	•	•	•
classification	type XX, pattern C, G per ASTM E 1264	•	•	•	•
warranty	1 year limited	•	•	•	•
sustainability	Aluminum: 100% recycled content; Steel: T-Bar Carrier is 25% recycled content. 100% locally recyclable.	•	•	•	•

1 - Excluding laminated.

2 - With 1-1/2", 1-1/2 lb. acoustical blanket

3 - Perforated with Acoutex™ backer

4 - Consult with an engineer to evaluate the suitability of the system for the intended application.

Planar® PlanarPlus® Specification Data

Though Planar/PlanarPlus are meant for interior and exterior applications, Specifications as shown here pertain to interior applications only.
Contact Chicago Metallic for guidelines specifically applicable to exterior use of Planar/PlanarPlus products.

PART 1 - GENERAL

1.01 Scope

Provide Linear Metal Ceiling System.

1.02 Related Sections

- A. Section 095100 - Acoustical Ceilings
- B. Section 096300 - Acoustical Ceiling Suspension
- C. Section 095400 - Specialty Ceilings
- D. Section 210000 - Fire Suspension
- E. Section 220000 - Plumbing
- F. Section 230000 - HVAC
- G. Section 265000 - Lighting

1.03 References

- A. American Society for Testing and Materials (ASTM)
 - 1. C 423 - Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
 - 2. C 635 - Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
 - 3. C 636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
 - 4. E 84 - Test Method for Surface Burning Characteristics of Building Materials.
 - 5. E 580 - Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels in Areas Requiring Seismic Restraint.
 - 6. E 795 - Practices for Mounting Test Specimens During Sound Absorption Tests.

1.04 Submittals

- A. Product data: Manufacturers standard data sheets listing dimensions and details.
- B. Samples: Manufacturers standard samples including suspension, panels and colors.
- C. Shop Drawings: Reflected ceiling plan and elevation drawings indicating ceiling layouts, dimensions and perimeter conditions.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weather tightness prior to installation.
 - 2. Wet trades work to be thoroughly dry and complete prior to suspension system installation.
 - 3. Installation to begin only when temperature and humidity conditions closely approximate interior conditions to exist when area is occupied.
 - 4. Heating and air conditioning systems to be operating prior to, during, and after installation.
 - 5. Deliver materials in manufacturers original packaging, unopened and undamaged.
 - 6. Store materials in an enclosed dry location at room temperature and protect from soiling, damage, moisture and humidity.

1.06 Maintenance

Furnish extra material equal to ____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturer

(Planar)(PlanarPlus) linear metal ceiling systems as manufactured by Chicago Metallic, 4849 South Austin Avenue, Chicago, Illinois 60638. 1-800-323-7164.

2.02 Materials

A. Linear Metal Panels:

- 1. Manufactured from (0.025) inch thick aluminum nominal 4 inches wide by (144)(____) inches long by $\frac{5}{8}$ inch deep.
 - a. Planar with (round)(square) edges.
 - b. PlanarPlus with (round)(square) edges and integral filler strips.
- 2. Finish: (Painted _____)(Reflective _____)(Anodized _____)(MetalWood® laminated vinyl _____)(WoodScenes™ Painted _____).
- 3. [(Unperforated)(Perforated with pattern T)] [(with)(without)] Acoutex™ non-woven membrane factory bonded to panel backside.

B. Accessories

- 1. Planar Recessed Filler Strips: Manufactured from aluminum $\frac{3}{4}$ inch wide by 144 inches long coated to (match panel)(____ color) with linear metal panels.
- 2. Panel Splices: Manufactured from 0.025 inch thick aluminum $8\frac{3}{4}$ inches long coated with (black baked-on polyester enamel)(finish identical to linear metal panels), with profile compatible with linear panels.
- 3. End Plugs: Manufactured from 0.025 inch thick aluminum with (round)(square) edges. Coated identical to linear metal panels.
- 4. Perimeter Trim
 - a. Perimeter Caps: Manufactured from 0.025 inch thick aluminum $1\frac{3}{16}$ inch I.D. by $1\frac{7}{8}$ inch top flange by 1 inch bottom flange by 120 inches long. Coated identical

to linear metal panels.

- b. Wall Angles: Manufactured from 0.025 inch thick aluminum $\frac{15}{16}$ inch wide by $\frac{3}{4}$ inch high by 144 inches long with hemmed edges. Coated identical to linear metal panels.

C. Suspension System

- 1. Symmetrical Carrier:
 - a. Manufactured to an inverted "U" shape from 0.040 inch aluminum 144 inches long. Coated with black polyester enamel.
Architect Note: Double grip carrier required on all exterior applications.
 - b. Slotted at appropriate intervals to receive stabilizing components as described below.
- 2. Stabilizer Bars: Manufactured from 0.040 inch thick aluminum (49 $\frac{13}{16}$)(35 $\frac{13}{16}$) inch long. Coated with black polyester enamel.
- 3. Radius Carrier: Manufactured to an inverted "U" shape from 0.040 inch thick aluminum 120 inches long with integral carrier tabs, painted black.
- 4. Expansion Carrier: Manufactured to an inverted "U" shape from 0.040 inch thick aluminum 144 inches long with integral carrier tabs spaced 4 $\frac{1}{8}$ inches. Coated with black polyester enamel.

D. Acoustical Material

- 1. Blanket type black vinyl faced one side (1)($1\frac{1}{2}$) inches thick by (1)($1\frac{1}{2}$) pounds per cubic foot density.
- 2. Black matte ductliner 1 inch thick by $1\frac{1}{2}$ pounds per cubic foot.
- 3. Acoutex™ non-woven fiber factory adhered to back of perforated panels.

E. Air Diffusion

- 1. Air Units:
 - a. (2)(4)(6)(8) slot with (8)(10)(12)(14) inches wide (dampened)(undampened) top mounted collars.
 - b. Manufactured from 0.024 inch thick steel with gasketed lower flanges and factory applied acoustical insulation adhered to internal surfaces.
 - c. "L" shaped directional vanes painted black.
 - d. Optional remote control damper assembly with control cable extending through air distribution slot.

PART 3 - EXECUTION

3.01 Examination

Examine area receiving system to identify conditions which will adversely affect installation. Do not begin installation until adverse conditions have been remedied.

3.02 Installation (Interior Only)

A. Suspension System

- 1. Symmetrical Carriers: Installed 50 inches on center by direct suspension from existing structure with not less than 12 gauge hanger wires wrapped tightly 3 full turns, spaced 48 inches on center.
- 2. Stabilizer Bars: Installed perpendicular to symmetrical carrier (24)(36)(48) inches on center.

B. Linear Metal Panels and Accessories

- 1. Linear Metal Panels:
 - a. Attach to Main Carrier tabs and connect with Panel Splices with joints staggered in adjacent rows.
- 2. Slip-on Moldings: Install on exposed ends of panels.
- 3. End Plugs: Installed exposed ends of panels.
- 4. Wall Angles: Installed on vertical surfaces intersecting system by appropriate method in accordance with industry accepted practice.
- 5. Filler Strips: Installed into open reveal between panels.
- 6. Access Panels: Installed in accordance with manufacturers recommendations.

C. Integrated Accessories

- 1. Insulation trimmed to fit and installed in plenum between carriers.

3.03 Repairs

- A. Remove damaged components, replace with undamaged components. Clean with non-solvent, non-abrasive commercial cleaning solution.

PlanarMacro® MacroPlus™ Specification Data

Though PlanarMacro/MacroPlus are meant for interior and exterior applications, Specifications as shown here pertain to interior applications only.
Contact Chicago Metallic for guidelines specifically applicable to exterior use of PlanarMacro/MacroPlus products.

PART 1 - GENERAL

1.01 Scope

Provide Linear Metal Ceiling System.

1.02 Related Sections

- A. Section 095100 - Acoustical Ceilings
- B. Section 096300 - Acoustical Ceiling Suspension
- C. Section 095400 - Specialty Ceilings
- D. Section 210000 - Fire Suspension
- E. Section 220000 - Plumbing
- F. Section 230000 - HVAC
- G. Section 265000 - Lighting

1.03 References

- A. American Society for Testing and Materials (ASTM)
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 - 5. E 580 - Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels in Areas Requiring Seismic Restraint.
 - 6. E 795 - Practices for Mounting Test Specimens During Sound Absorption Tests.

1.04 Submittals

- A. Product data: Manufacturers standard data sheets listing dimensions and details.
- B. Samples: Manufacturers standard samples including suspension, panels and colors.
- C. Shop Drawings: Reflected ceiling plan and elevation drawings indicating ceiling layouts, dimensions and perimeter conditions.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weather tightness prior to installation.
 - 2. Wet trades work to be thoroughly dry and complete prior to suspension system installation.
 - 3. Installation to begin only when temperature and humidity conditions closely approximate interior conditions to exist when area is occupied.
 - 4. Heating and air conditioning systems to be operating prior to, during, and after installation.
 - 5. Deliver materials in manufacturers original packaging, unopened and undamaged.
 - 6. Store materials in an enclosed dry location at room temperature and protect from soiling, damage, moisture and humidity.

1.06 Maintenance

Furnish extra material equal to ____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturer

(PlanarMacro)(MacroPlus) linear metal ceiling systems as manufactured by Chicago Metallic, 4849 South Austin Avenue, Chicago, Illinois 60638. 1-800-323-7164.

2.02 Materials

- A. Linear Metal Panels:
 - 1. a. PlanarMacro manufactured from (0.032)(0.040) inch thick aluminum nominal (4)(6) (8) inches wide by (144)() inches long with square edges by $\frac{7}{8}$ inch deep.
 - b. MacroPlus manufactured from 0.032 inch thick aluminum nominal (4)(6)(8) inches wide by (144)() inches long by $\frac{7}{8}$ inch deep. with square edges and integral filler strips.
 - 2. Finish: (Painted ____)(Reflective ____)(Anodized ____)(MetalWood® laminated vinyl ____)(WoodScenes™ Painted ____).
 - 3. [(Unperforated)(Perforated with pattern T)] [(with)(without)] Acoutex™ non-woven membrane factory bonded to panel backside.
- C. Accessories
 - 1. PlanarMacro Recessed Filler Strips: Manufactured from aluminum $\frac{3}{4}$ inch wide by 144 inches long coated to (match panel) (____ color) with linear metal panels.
 - 2. Panel Splices: Manufactured from 0.032 inch thick aluminum $8\frac{3}{4}$ inches long coated with (black baked-on polyester enamel)(finish identical to linear metal panels), with profile compatible with linear panels.
 - 3. End Plugs: Manufactured from 0.032 inch thick aluminum with (round) (square) edges. Coated identical to linear metal panels.

- 4. Perimeter Trim
 - a. Perimeter Caps: Manufactured from 0.025 inch thick aluminum 2 inch I.D. by $1\frac{5}{8}$ inch top flange by 1 inch bottom flange by 120 inches long. Coated identical to linear metal panels.
 - b. Wall Angles: Manufactured from 0.025 inch thick aluminum $1\frac{5}{16}$ inch wide by $\frac{3}{4}$ inch high by 144 inches long with hemmed edges. Coated identical to linear metal panels.

C. Suspension System

- 1. Symmetrical Carrier:
 - a. Manufactured to an inverted "U" shape from 0.040 inch aluminum 144 inches long. Coated with black polyester enamel.
 - Architect Note: Double grip carrier required on all exterior applications.
 - b. Slotted at appropriate intervals to receive stabilizing components as described below.
- 2. Stabilizer Bars: Manufactured from 0.040 inch thick aluminum (49 $\frac{13}{16}$) (35 $\frac{13}{16}$) inch long. Coated with black polyester enamel.
- 3. Radius Carrier: Manufactured to an inverted "U" shape from 0.040 inch thick aluminum 120 inches long with integral carrier tabs, painted black.
- 4. Expansion Carrier: Manufactured to an inverted "U" shape from 0.040 inch thick aluminum 144 inches long with integral carrier tabs spaced $4\frac{1}{8}$ inches. Coated with black polyester enamel.

D. Acoustical Material

- 1. Blanket type black vinyl faced one side (1)($1\frac{1}{2}$) inches thick by (1)($1\frac{1}{2}$) pounds per cubic foot density.
- 2. Black matte ductliner 1 inch thick by $1\frac{1}{2}$ pounds per cubic foot.
- 3. Acoutex™ non-woven fiber factory adhered to back of perforated panels.

E. Air Diffusion

- 1. Air Units:
 - a. (2)(4)(6)(8) slot with (8)(10)(12)(14) inches wide (dampened)(undampened) top mounted collars.
 - b. Manufactured from 0.024 inch thick steel with gasketed lower flanges and factory applied acoustical insulation adhered to internal surfaces.
 - c. "L" shaped directional vanes painted black.
 - d. Optional remote control damper assembly with control cable extending through air distribution slot.

PART 3 - EXECUTION

3.01 Examination

Examine area receiving system to identify conditions which will adversely affect installation. Do not begin installation until adverse conditions have been remedied.

3.02 Installation (Interior Only)

A. Suspension System

- 1. Symmetrical Carriers: Installed 50 inches on center by direct suspension from existing structure with not less than 12 gauge hanger wires wrapped tightly 3 full turns, spaced 48 inches on center.
- 2. Stabilizer Bars: Installed perpendicular to symmetrical carrier (24)(36)(48) inches on center.

B. Linear Metal Panels and Accessories

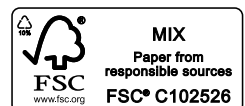
- 1. Linear Metal Panels:
 - a. Attach to main carrier tabs and connect with Panel Splices with joints staggered in adjacent rows.
- 2. Slip-on Moldings: Install on exposed ends of panels.
- 3. End Plugs: Installed exposed ends of panels.
- 4. Wall Angles: Installed on vertical surfaces intersecting system by appropriate method in accordance with industry accepted practice.
- 5. Filler Strips: Installed into open reveal between panels.
- 6. Access Panels: Installed in accordance with manufacturers recommendations.

C. Integrated Accessories

- 1. Insulation trimmed to fit and installed in plenum between carriers.

3.03 Repairs

- A. Remove damaged components, replace with undamaged components. Clean with non-solvent non-abrasive commercial cleaning solution. non-solvent based non-abrasive commercial cleaning solution.



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