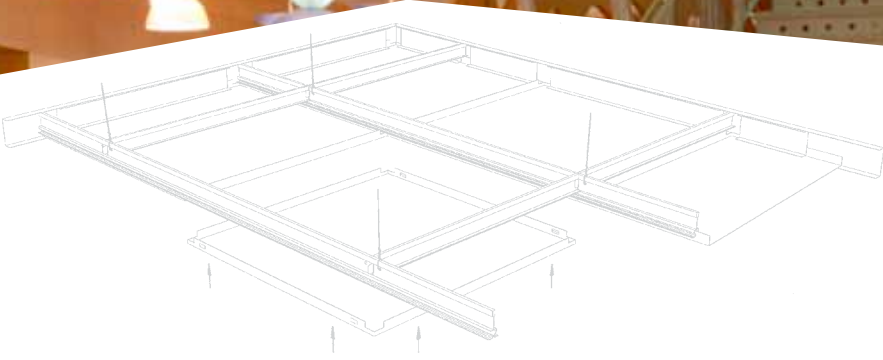


METAL PANEL  
09 53 33



# Planostile™

PRODUCT GUIDE



# Planostile™

## METAL PANEL

### Applications

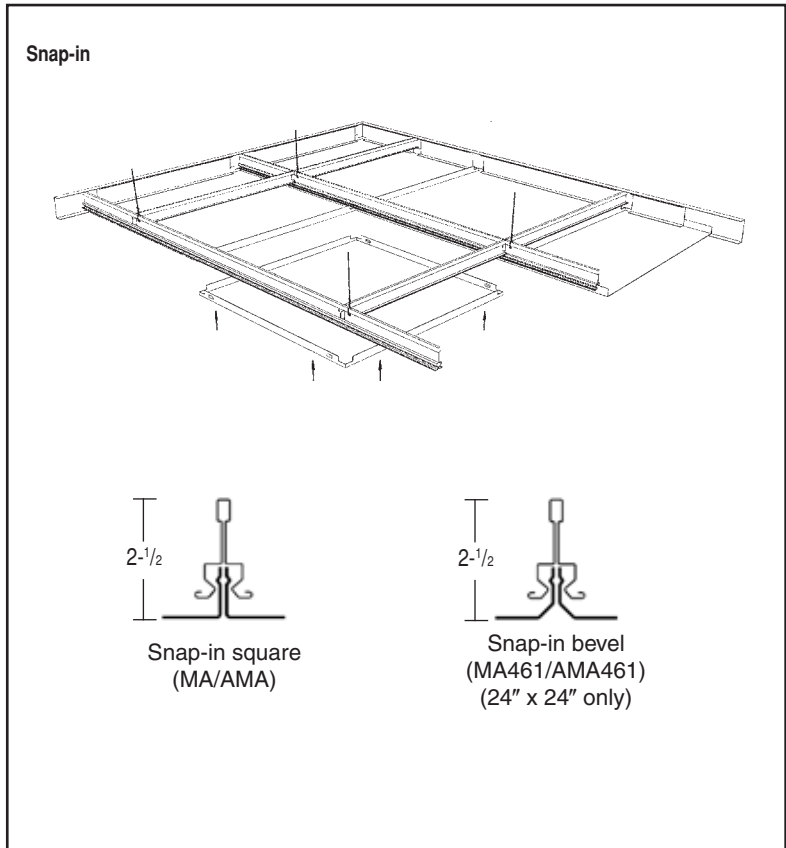
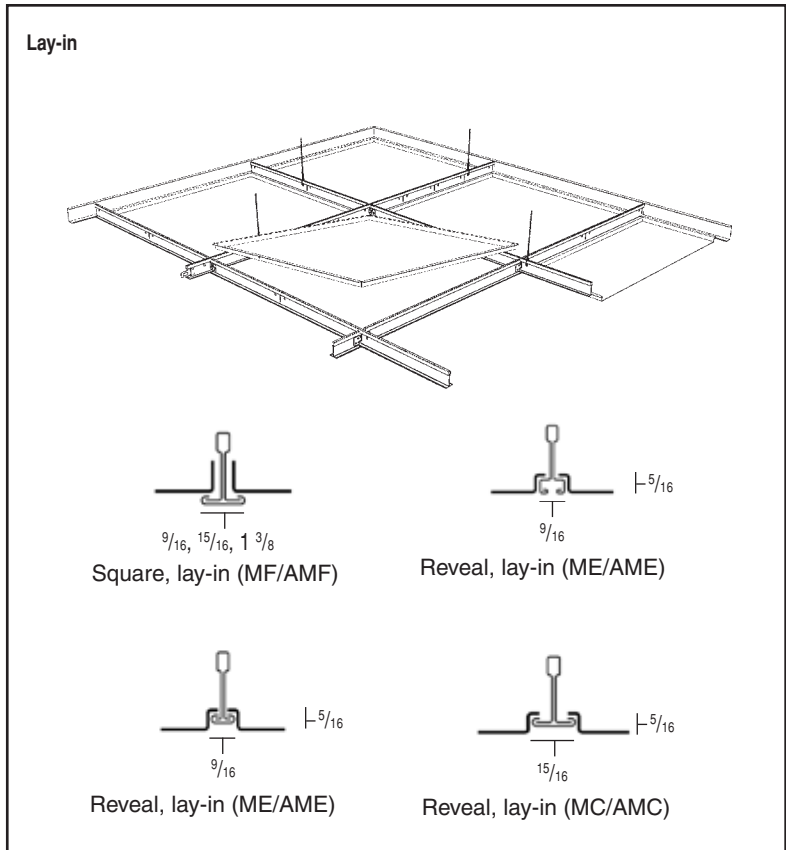
Ideal for exterior soffits, airports, hotels, lobbies, corridors.

### Features

- Attractive and durable metal panels for grid-based suspension systems in standard and custom sizes.
- Range of profiles and options offer great design flexibility.
- Integrates with variety of grid suspension systems.
- Grid suspension accepts industry standard light and air diffusers.
- Standard perforation patterns and custom perforating.
- Designed to withstand positive and negative wind pressure (UL580).
- MetalWood™ woodgrain and WoodScenes™ painted finishes.
- Enhance acoustical performance with optional backing material.
- Metal contains no organic compounds to support mold or microbial growth.
- Building system integration flexibility (HVAC, lighting).
- Sustainable: 75%-100% post consumer recycled content, 100% locally recyclable at end of useful life.

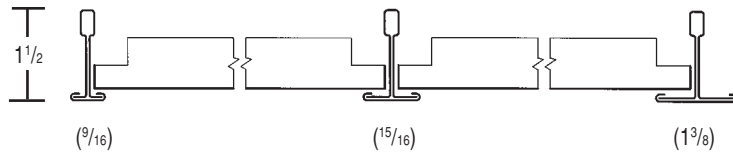


Always up-to-date product information  
is available on the web  
[chicagometallic.com/planostile](http://chicagometallic.com/planostile)



# Lay-in Square Edge Panels

## Lay-in Square Edge (MF/AMF)



Product Number	Panel Size	Packaging		
		Sq. Ft.	Pieces	Weight

### Lay-in Square Edge — for $\frac{9}{16}$ " , $\frac{15}{16}$ " , $1\frac{3}{8}$ " Grid

#### 0.024" Galvanized Steel

MF463XxxxX	24" x 24"	56	14	32
MF483XxxxX	24" x 48"	PTO*	PTO*	PTO*

#### 0.024" 600 Stainless Steel 2B

##### Solid Only

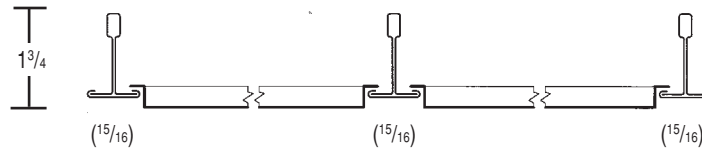
MF463X02BX	24" x 24"	56	14	32
------------	-----------	----	----	----

#### 0.032" Aluminum

##### Solid\*\*

AMF463XxxxX	24" x 24"	56	14	31
AMF483XxxxX	24" x 48"	PTO*	PTO*	PTO*

## Lay-in Reveal Edge (MC/AMC)



Product Number	Panel Size	Packaging		
		Sq. Ft.	Pieces	Weight

### Lay-in Reveal Edge — for $\frac{15}{16}$ " Grid

#### 0.024" Galvanized Steel

##### Solid

MC463XxxxX	24" x 24"	64	16	31
MC483XxxxX	24" x 48"	PTO*	PTO*	PTO*

#### 0.032" Aluminum

##### Solid

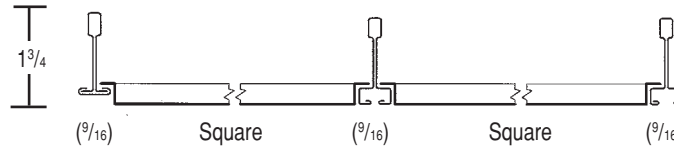
AMC463XxxxX	24" x 24"	64	16	31
AMC483XxxxX	24" x 48"	PTO*	PTO*	PTO*

\* PTO – Packaged To Order

\*\* MetalWood II finished aluminum panels are constructed from 0.024" base aluminum metal with 0.008" vinyl laminate for a total panel thickness of 0.032"

# Lay-in Reveal Edge Panels

## Lay-in Reveal Edge (ME/AME)



Product Number	Panel Size	Packaging		
		Sq. Ft.	Pieces	Weight

### Lay-in Reveal Edge— for 9/16" Grid

#### 0.024" Galvanized Steel

##### Solid

ME463XxxxX	24" x 24"	64	16	32
ME483XxxxX	24" x 48"	PTO*	PTO*	PTO*

#### 0.032" Aluminum

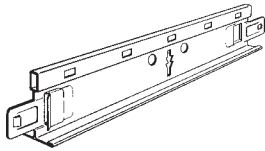
##### Solid\*\*

AME463XxxxX	24" x 24"	64	16	31
AME483XxxxX	24" x 48"	PTO*	PTO*	PTO*

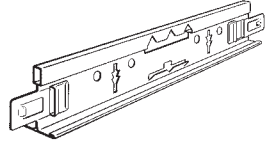
\* PTO – Packaged To Order

\*\* MetalWood II finished aluminum panels are constructed from 0.024" base aluminum metal with 0.008" vinyl laminate for a total panel thickness of 0.032"

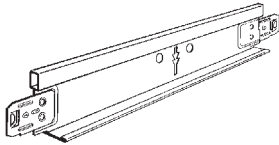
# Lay-in Suspension



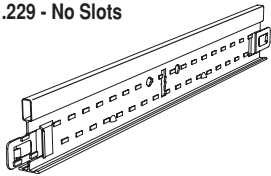
Main Tee  
10.00.200



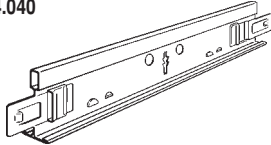
Main Tee  
10.00.250



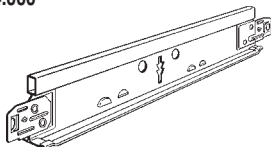
Cross Tee  
10.01.209  
10.01.229 - No Slots



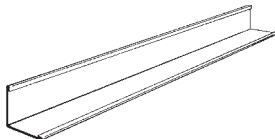
Main Tee  
10.04.040



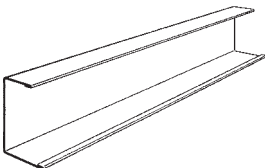
Main Tee  
10.04.000



Cross Tee  
10.04.014  
10.04.022 - No Slots



Wall Angle  
38.90.124



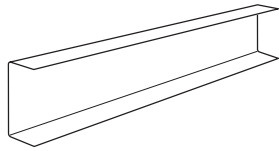
Wall Channel  
60.00.010-60.00.011

Product Number	Dimensions			Slots	Weight Per Piece
	Length	Height	Face		
<b>15/16" Grid</b>					
<b>Main Tee (Heavy Duty)</b>					
10.00.200.xxxH	12'	1 1/2"	15/16"	24	4
<b>Main Tee (Intermediate Duty)</b>					
10.00.250.xxxH	12'	1 1/2"	15/16"	24	3
<b>Cross Tees – Stab-in/Butt Cut</b>					
10.01.209.xxxH	4'	1 1/2"	15/16"	3	1
10.01.229.xxxH	2'	1 1/2"	15/16"	0	0.5

<b>9/16" Grid</b>					
<b>Main Tee (Heavy Duty)</b>					
10.04.040.xxxH	12'	1 1/2"	9/16"	24	4
<b>Main Tee (Intermediate Duty)</b>					
10.04.000.xxxH	12'	1 1/2"	9/16"	24	3
<b>Cross Tees – Stab-in</b>					
10.04.014.xxxCH	4'	1 1/2"	9/16"	3	1
10.04.022.xxxCH	2'	1 1/2"	9/16"	0	0.5

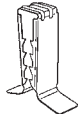
Product Number	Description	Weight Per Piece
<b>Wall Angle – Aluminum with Hemmed Edges</b>		
38.90.124.xxx	12' x 3/4" x 15/16"	1.2
*Reflective and Anodized finishes on one side only.		
<b>Wall Channel — Steel</b>		
60.00.010.xxx	10' x 1 9/16" x 3/4" x 15/16"	2.2
<b>Wall Channel — Aluminum</b>		
60.00.011.xxx	10' x 1 9/16" x 3/4" x 15/16"	2.2

# Lay-in Accessories



Hold Down Inserts  
60.00.012-60.00.013  
60.00.014-60.00.015

Product Number	Description	Weight Per Piece	Packaging	
			Feet	Pieces
<b>Hold Down Inserts for 1<sup>9</sup>/<sub>16</sub>" Channel — Steel</b>				
60.00.012	11" x 1 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>4</sub> " x <sup>3</sup> / <sub>4</sub> "	0.2		PTO*
60.00.014	22" x 1 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>4</sub> " x <sup>3</sup> / <sub>4</sub> "	0.4		PTO*
<b>Hold Down Inserts for 1<sup>9</sup>/<sub>16</sub>" Channel — Aluminum</b>				
60.00.013	11" x 1 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>4</sub> " x <sup>3</sup> / <sub>4</sub> "	0.1		PTO*
60.00.015	22" x 1 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>4</sub> " x <sup>3</sup> / <sub>4</sub> "	0.2		PTO*



Hold Down Clip  
63.26.200

Product Number	Description	Packaging	
		Pieces	Weight
<b>Miscellaneous Accessories</b>			
63.26.200	Black - Hold Down Clip	1000	16
63.26.201	Perimeter Clip	500	21
63.26.202	Wall Spring - <sup>5</sup> / <sub>8</sub> " face x <sup>7</sup> / <sub>8</sub> " deep	1000	17
940.xxx	Touch-Up Paint, 12 oz. spray can	-	1 1



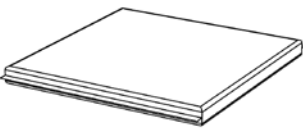
Perimeter Clip  
63.26.201

Product Number	Panel Size	Description	Weight
			Per Piece
<b>Poly-Wrapped Acoustical Pads</b>			
58.01.059.008	24" x 24"	1" x 1 lb.	0.50
58.01.061.008	24" x 48"	1" x 1 lb.	1.00
58.01.064.008	24" x 24"	1 <sup>1</sup> / <sub>2</sub> " x 1 lb.	0.75
58.01.063.008	24" x 48"	1 <sup>1</sup> / <sub>2</sub> " x 1 lb.	1.50

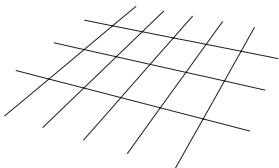


Wall Spring  
63.26.202

Product Number	Description	Weight
		Per Piece
<b>Wire Grid Spacer</b>		
60.00.021	2' x 2', Steel	0.50



Poly-Wrapped Acoustical Pads  
58.01.059.008-58.01.064.008

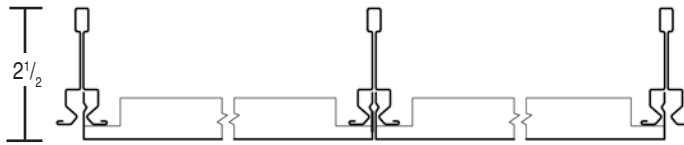


Wire Grid Spacer  
60.00.0211

\* PTO – Packaged To Order

# Snap-in Square and Bevel Edge Panels

## Snap-in Square Edge Panels (MA/AMA)



Product Number	Panel Size	Sq. Ft.	Packaging Pieces	Weight
----------------	------------	---------	------------------	--------

### Snap-in Square Edge

#### 0.024" Galvanized Steel

##### Solid

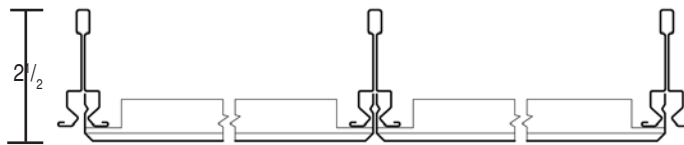
MA463XxxxX	24" x 24"	56	14	32
------------	-----------	----	----	----

#### 0.032" Aluminum

##### Solid\*\*

AMA463XxxxX	24" x 24"	56	14	31
AMA483XxxxX	24" x 48"	PTO*	PTO*	PTO*

## Snap-in Bevel Edge Panels (MA461/AMA461)



Product Number	Panel Size	Sq. Ft.	Packaging Pieces	Weight
----------------	------------	---------	------------------	--------

### Snap-in Bevel Edge

#### 0.024" Galvanized Steel

##### Solid

MA461XxxxX	24" x 24"	56	14	32
------------	-----------	----	----	----

#### 0.032" Aluminum

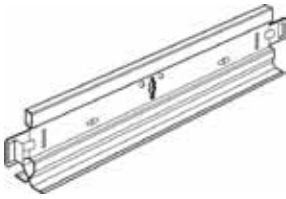
##### Solid\*\*

AMA461XxxxX	24" x 24"	56	14	31
-------------	-----------	----	----	----

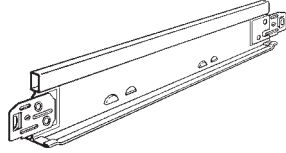
\* PTO – Packaged To Order

\*\* MetalWood II finished aluminum panels are constructed from 0.024" base aluminum metal with 0.008" vinyl laminate for a total panel thickness of 0.032"

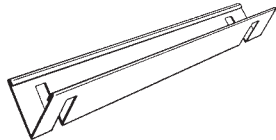
# Snap-in Suspension and Wall Channels



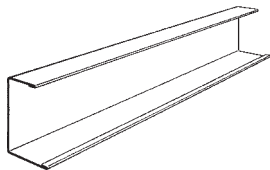
Concealed Snap Bar Main Tee  
MA010.500CH



Spacer Tee  
10.04.022UL.001-10.01.229UL.001  
10.01.210.001H - 10.01.206.001H



Spacer Bar  
10.00.826.000H - 10.00.828.000H



Wall Channel  
60.00.009-60.00.008

Product Number	Dimensions			Feet	Packaging		
	Length	Height	Face		Pieces	Weight	
<b>Concealed Snap-Bar Main Tee</b>							
MA010.500CH*	12'	2 <sup>1</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>16</sub> "	180	15	74	

<b>Spacer Cross Tee</b>							
10.04.022UL.001*	2'	1 <sup>1</sup> / <sub>2</sub> "	9/ <sub>16</sub> "	200	100	35	
10.01.229UL.001*	2'	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>16</sub> "	150	75	28	
10.01.210.001H	4'	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>16</sub> "	200	50	38	
10.01.206.001H	5'	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>16</sub> "	250	50	61	

\*Components labeled for U.L. 580 Class 30 system.

<b>Spacer Bar</b>							
10.00.826.000	2'	1"	1"	80	40	15	
10.00.828.000	4'	1"	1"	160	40	29	

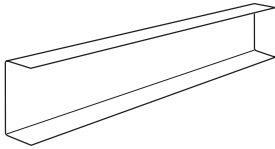
Product Number	Dimensions			Weight Per Piece
	Length	Height	Face	

<b>Wall Channel — Steel</b>				
60.00.009.xxx	10'	2 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>16</sub> " X 1 <sup>5</sup> / <sub>16</sub> "	4

<b>Wall Channel — Aluminum*</b>				
60.00.008.xxx	10'	2 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>16</sub> " X 1 <sup>5</sup> / <sub>16</sub> "	2.5

\*Components labeled for U.L. 580 Class 30 system - see drawing on page 11 for additional information.

# Snap-in Accessories

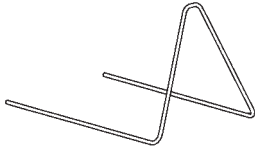


**Hold Down Inserts**  
60.00.031-60.00.032  
60.00.033-60.00.034

Product Number	Dimensions			Weight Per Piece	Packaging	
	Length	Height	Face		Feet	Pieces
<b>Hold Down Inserts for 2 1/2" Wall Channel – Steel</b>						
60.00.031	11"	2 7/16"	3/4" x 3/4"	0.5	PTO*	
60.00.032	22"	2 7/16"	3/4" x 3/4"	0.5	PTO*	

<b>Hold Down Inserts for 2 1/2" Channel – Aluminum</b>						
60.00.033	11"	2 7/16"	3/4" x 3/4"	0.2	PTO*	
60.00.034*	22"	2 7/16"	3/4" x 3/4"	0.2	PTO*	

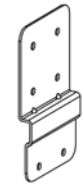
\*Components labeled for U.L. 580 Class 30 system - see drawing on page 11 for additional information.



**Panel Retainer Clip**  
63.26.031

Product Number	Length	Description	Packaging		
			Feet	Pieces	Weight
923	–	Access Key Blade Assembly	PTO*		
924	–	Access Key Blade*	PTO*		

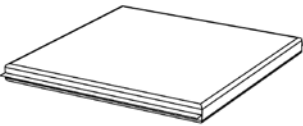
\*Access key blade fits into a standard utility knife handle and is used to disengage tiles from the concealed snap bar.



**Attachment Clip Brace**  
63.26.032

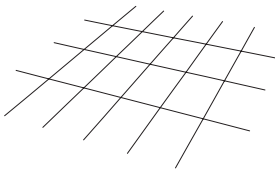
Product Number	Size	Description	Packaging		
			Feet	Pieces	Weight
<b>Accessories for UL 580 Class 30 Snap-in System for Exterior Soffits</b>					
63.26.031*	4"	Panel Retainer Clip	–	500	7
63.26.032*	3" x 3"	Bracing to Snap-Bar Carrier Attachment Clip	– 100		
63.26.035.xxx	120"	Expansion Joint Assembly - painted color	–	PTO*	5
63.26.033.xxx	24" x 24"	Access Door Assembly - painted color	–	1	6

\*Components labeled for U.L. 580 Class 30 system - see drawing on page 11 for additional information.  
Expansion Joint Assembly includes two pieces of expansion channel and one piece of expansion angle.



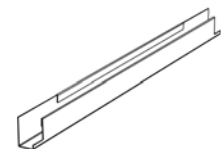
**Poly-Wrapped Acoustical Pads**  
58.01.059.008-58.01.064.008

Product Number	Panel Size	Description	Weight	
			Per Piece	
<b>Poly-Wrapped Acoustical Pads</b>				
58.01.059.008	24" x 24"	1" x 1 lb.	0.50	
58.01.061.008	24" x 48"	1" x 1 lb.	1.00	
58.01.064.008	24" x 24"	1 1/2" x 1 lb.	0.75	
58.01.063.008	24" x 48"	1 1/2" x 1 lb.	1.50	



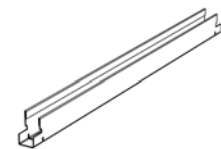
**Wire Grid Spacer**  
60.00.021

Product Number	Fixture Size	Per Carton	Weight	
			Per Piece	
<b>Wire Grid Spacer</b>				
60.00.021	–		0.50	



**Trim Kit**  
63.26.036- 63.26.037-63.26.038

Product Number	Fixture Size	Per Carton	Weight	
			Per Piece	
<b>Trim Kit* – For 24" x 24" Type G Light Fixture - 24" Carrier Spacing</b>				
63.26.036.xxx	24" x 24"		PTO*	2
63.26.036.xxx	24" x 24"		PTO*	2
63.26.036.xxx	24" x 24"		PTO*	2



<b>Trim Kit** – For 24" x 48" Type G Light Fixture - 48" Carrier Spacing</b>				
63.26.037.xxx	24" x 48"		PTO*	4
63.26.037.xxx	24" x 48"		PTO*	4
63.26.037.xxx	24" x 48"		PTO*	4

**Trim Kit**  
63.26.036- 63.26.037-63.26.038

<b>Trim Kit* – For 24" x 48" Type G Light Fixture - 24" Carrier Spacing</b>				
63.26.038.xxx	20" x 48"		PTO*	5
63.26.038.xxx	20" x 48"		PTO*	5
63.26.038.xxx	20" x 48"		PTO*	5

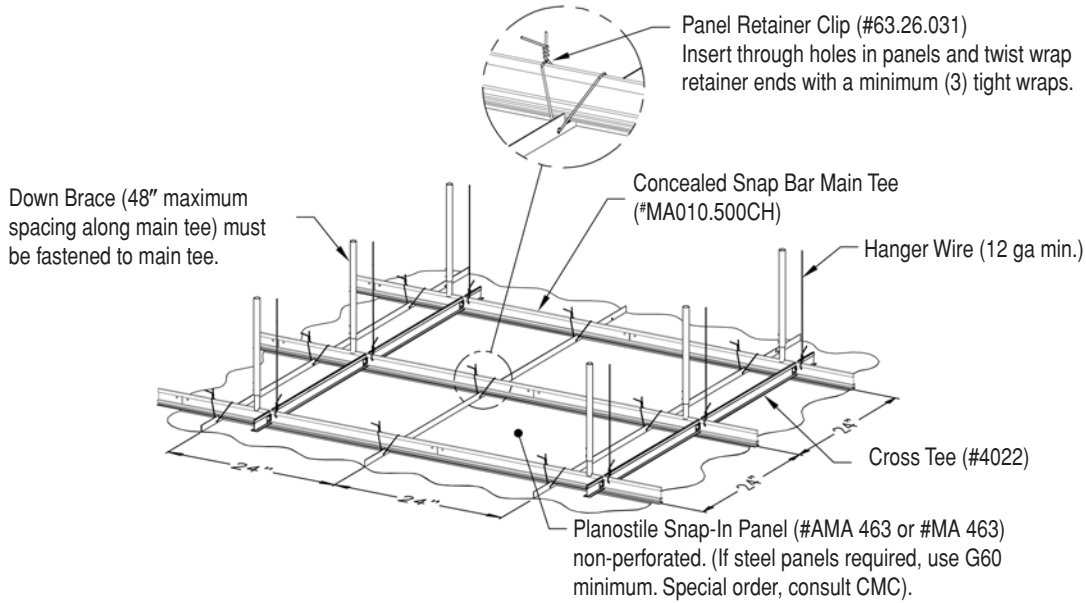
\* Kit includes four trim pieces and two variable placement cross tees.

\*\* Kit includes four trim pieces and two spacer bars.

\* PTO – Packaged To Order

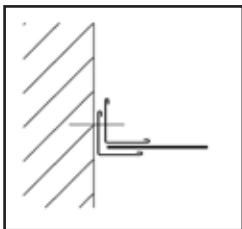
**Planostile Snap-in System for Exterior Soffits – Class 30 per UL 580**

Planostile Snap-In Panel system will resist a 30 PSF wind pressure (positive and negative) when installed as shown and in accordance with ASTM C636-04. Down braces selected based on the plenum depth and imposed axial load selected by architect or engineer of record.

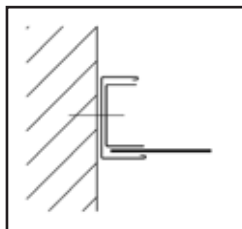


**System Integration**

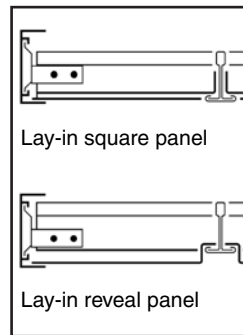
**Planostile Lay-in**



Wall condition with angle



Wall condition with channel/hold down insert

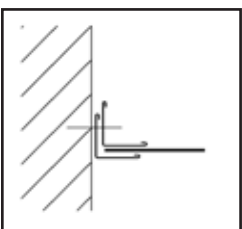


Lay-in square panel

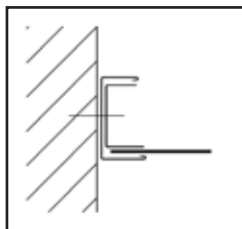
Lay-in reveal panel

Infinity™ perimeter trim

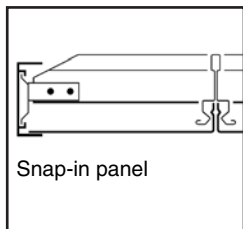
**Planostile Snap-in**



Wall condition with angle

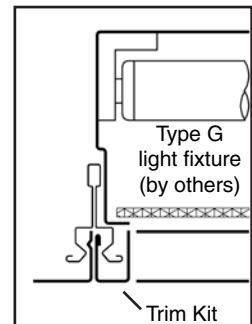


Wall condition with channel/hold down insert



Snap-in panel

Infinity™ perimeter trim



Type G light fixture (by others)

Trim Kit

G fixture trim

# Specification Data

Product information for integration into ceiling specification

panel type		Lay-in Reveal Edge	Lay-in Square Edge	Snap-in
<b>material</b>	painted aluminum	•	•	•
	painted galvanized steel	•	•	•
	MetalWood® woodgrain finishes***	•	•	•
	WoodScenes™ painted finishes	•	•	•
	brass, copper, chrome and satin anodized aluminum	•	•	•
	stainless steel (solid only)		•	
<b>surface</b>	solid and perforated	•	•	•
<b>size</b>	2' x 2'	square	square	square/bevel
	2' x 4', custom	square	square	square
<b>fire</b>	class A: flame 0, smoke 0 per ASTM E 84	•	•	•
<b>sound</b>	NRC - perforated with Acoutex™ backer	0.70	0.70	0.70
	NRC - perforated with 1-1/2" acoustical pad	0.90	0.90	0.90
<b>performance</b>	interior and seismic environments	•	•	•
	exterior soffits (per UL 580 class 30) (2' x 2') <sup>1</sup>			•
<b>suspension</b>	9/16"	•	•	
	15/16"	•	•	
	1-3/8"		•	
	concealed snap bar			•
<b>classification</b>	type XX, pattern C, G per ASTM E 1264	•	•	•
<b>warranty</b>	1 year limited	•	•	•
<b>sustainability</b>	Steel: 25% minimum, aluminum: 100% post consumer recycled content, 100% locally recyclable global manufacture	•	•	•

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

## Colors and Finishes

### Standard Painted Colors

- 01 White
- 08 Black
- 44 Satin Silver

### Premium Painted Colors and Finishes

- 21 Copper Metallic
- 03 Bronze
- 88 Flat Black
- 113 Straw
- 167 Brick Red
- 174 Garnet
- 215 Forest Green
- 246 Federal Indigo
- 256 True Blue
- 263 Plum
- 270 Pearl Gray
- 425 Wet Clay
- 428 Yellow Flash
- 429 Silver Lining
- 430 Beige Breeze
- 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
- 23 Sandstone
- 379 Gloss White
- 386 Gloss Black
- 401 Maple\*
- 402 Oak\*
- 403 Cherry\*
- 404 Pumpkin Maple\*
- 405 Karri\*
- 431 Whitewash
- 520 Polar White
- 521 Nickel
- 524 Silver
- Other painted color

\* Coordinating Solid Paint Colors to MetalWood II® Woodgrain Finishes

### Anodized Finishes

- 14 Chromecoat
- 16 Brasscoat
- 504 Satin Anodized\*
- 509 Coppercoat

\*\* Panels only

### WoodScenes™ Painted Colors

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

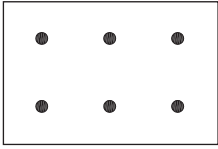
### MetalWood II® Woodgrain Finishes\*\*\*

- 650R Maple
- 651R Cherry
- 652R Pumpkin Maple
- 653R Oak
- 654R Karri
- 655R Bamboo

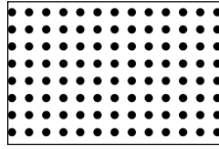
\*\*\* MetalWood II finished aluminum panels are constructed from 0.024" base aluminum metal with 0.008" vinyl laminate for a total panel thickness of 0.032"

# Panel Perforation Patterns

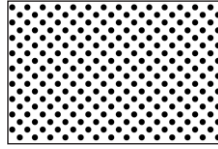
## Standard Patterns



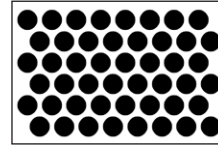
**AA Pattern**  
0.062" diameter holes  
0.354" lineal centers  
3% open area



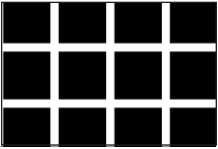
**D Pattern**  
0.098" diameter holes  
0.216" lineal centers  
16% open area



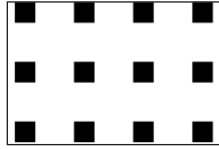
**E Pattern**  
0.071" diameter holes  
0.138" diagonal centers  
21% open area



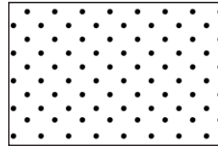
**J Pattern**  
0.250" diameter holes  
0.312" diagonal centers  
58% open area



**Q Pattern**  
0.562" square holes  
0.672" lineal centers  
70% open area



**R Pattern**  
0.250" square holes  
0.750" lineal centers  
11% open area



**V Pattern**  
0.062" diameter holes  
0.250" diagonal centers  
5% open area

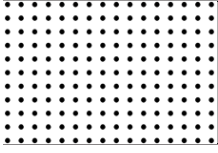
## Panel Perforation Borders (24" x 24" Lay-in Panels)

Pattern Letter	Hole Size	Hole Type	Spacing	Pattern	% Open Area	Square Edge for 15/16) Grid	Reveal Edge for 15/16) Grid	Reveal Edge for 9/16)	Standard
<b>Standard</b>									
AA	0.062"	Round	0.354"	Lineal (straight)	3%	none	none	none	none
D	0.098"	Round	0.216"	Lineal (straight)	16%	none	1.00"	1.19"	0.72"
E	0.071"	Round	0.138"	Diagonal (45°)	21%	none	0.97"	1.16"	0.66"
J	0.250"	Round	0.312"	Staggered (60°)	58%	none	none	none	none
Q	0.562"	Square	0.672"	Lineal (straight)	70%	none	0.35"	1.02"	1.00"
R	0.250"	Square	0.750"	Lineal (straight)	11%	0.53"	0.53"	0.72"	0.25"
V	0.062"	Round	0.250"	Diagonal (45°)	5%	none	none	none	none

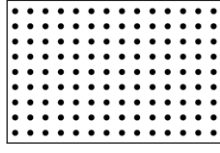
Note: Border is measured from edge of hole to edge of grid.

# Panel Perforation Patterns

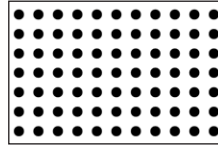
## Premium Patterns



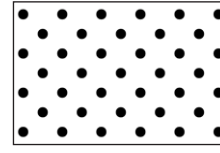
**B Pattern**  
0.060" diameter holes  
0.120" diagonal centers  
10% open area



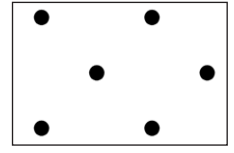
**F Pattern**  
0.071" diameter holes  
0.195" lineal centers  
10% open area



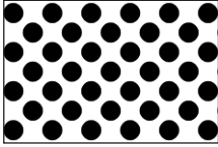
**G Pattern**  
0.125" diameter holes  
0.250" lineal centers  
20% open area



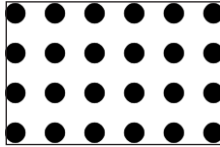
**H Pattern**  
0.125" diameter holes  
0.354" lineal centers  
10% open area



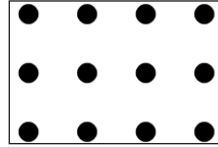
**I Pattern**  
0.188" diameter holes  
1.00" diagonal centers  
3% open area



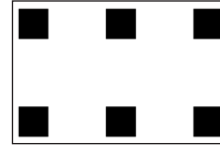
**K Pattern**  
0.25" diameter holes  
0.354" lineal centers  
39% open area



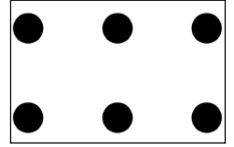
**L Pattern**  
0.25" diameter holes  
0.50" lineal centers  
19% open area



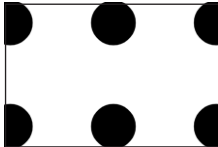
**N Pattern**  
0.250" diameter holes  
0.750" lineal centers  
9% open area



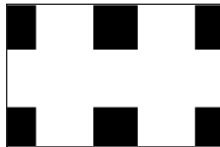
**O Pattern**  
0.375" square holes  
1.125" lineal centers  
11% open area



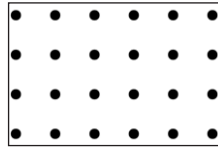
**P Pattern**  
0.375" diameter holes  
1.125" diagonal centers  
9% open area



**W Pattern**  
0.562" diameter holes  
1.312" lineal centers  
14% open area



**Y Pattern**  
0.562" square holes  
1.312" lineal centers  
18% open area



**Z Pattern**  
0.125" diameter holes  
0.500" lineal centers  
5% open area

## Panel Perforation Borders (24" x 24" Lay-in Panels)

Pattern Letter	Hole Size	Hole Type	Spacing	Pattern	% Open Area	Square Edge for 15/16) Grid	Reveal Edge for 15/16) Grid	Reveal Edge for 9/16)	Standard
<b>Premium</b>									
B	0.060"	Round	0.120"	Lineal (straight)	10%	0.437"	0.437"	0.625"	0.900"
F	0.071"	Round	0.195"	Lineal (straight)	10%	0.71"	0.71"	0.90"	0.40"
G	0.125"	Round	0.250"	Lineal (straight)	20%	0.340"	0.340"	0.581"	1.060"
H	0.125"	Round	0.354"	Diagonal (45°)	10%	0.340"	0.340"	0.562"	0.590"
I	0.188"	Round	1.000"	Diagonal (45°)	3%	none	0.13"	0.31"	0.59"
K	0.250"	Round	0.354"	Diagonal (45°)	39%	0.280"	0.280"	0.470"	0.750"
L	0.250"	Round	0.50"	Lineal (straight)	19%	0.400"	0.400"	0.590"	0.980"
N	0.250"	Round	0.750"	Lineal (straight)	9%	0.53"	0.53"	0.72"	0.25"
O	0.375"	Square	1.125"	Lineal (straight)	11%	0.65"	0.66"	0.84"	0.31"
P	0.375"	Round	1.125"	Lineal (straight)	9%	0.65"	0.66"	0.84"	0.31"
W	0.562"	Round	1.312"	Lineal (straight)	14%	0.75"	0.75"	0.94"	0.66"
Y	0.562"	Square	1.312"	Lineal (straight)	18%	0.75"	0.75"	0.94"	0.56"
Z	0.125"	Round	0.500"	Lineal (straight)	5%	0.437"	0.437"	0.650"	0.730"

Note: Border is measured from edge of hole to edge of grid.

# Lay-in Panel Specification

## PART 1 - GENERAL

### 1.01 Scope

Furnish and install the Planostile lay-in metal panel ceiling system as manufactured and supplied by Chicago Metallic (800)323.7164.

### 1.02 Related Sections

- A. Section 09 22 26 - Suspension Systems
- B. Section 09 51 00 - Acoustical Ceilings
- C. Section 09 63 00 - Acoustical Ceiling Suspension Assemblies
- D. Section 09 29 00 - Gypsum Board
- E. Section 09 54 00 - Specialty Ceilings
- F. Section 09 58 00 - Integrated Ceiling Assemblies
- G. Section 13 48 00 - Sound, Vibration, and Seismic Control
- H. Section 22 00 00 - Plumbing
- I. Section 23 50 00 - Central Heating Equipment
- J. Section 26 50 00 - Lighting

### 1.03 References

- A. American Society for Testing and Materials (ASTM)
  - 1. C 635 - Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
  - 2. C 636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
  - 3. E 84 - Test Method for Surface Burning Characteristics of Building Materials.
  - 4. E 580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint.

### 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, perimeter conditions and accessories.

### 1.05 Project Conditions

- A. Environmental Requirements:
  - 1. Verify weather tightness of area to receive suspension system 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 which will exist when area is complete and 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 additional material equal to (\_\_\_\_) % of ceiling area.

## PART 2 - PRODUCTS

### 2.01 Manufacturer

Chicago Metallic non-rated Planostile lay-in metal panel ceiling system for installation into exposed T-bar ceiling suspension.

### 2.02 Materials

- A. Lay-in metal panels:
  - 1. Panels shall measure (24 in. by 24 in.) (24 in. by 48 in.) (custom\_\_\_\_\_) with (square) (reveal) lay-in edge detail.

- 2. Manufactured from [(0.024 in. galvanized steel) (0.032 in. aluminum)] [(solid) (perforated with Chicago Metallic pattern \_\_\_\_)].

- 3. Finish: [Painted: (01 White)(44 Satin Silver) (Painted Color \_\_\_\_\_)(Anodized \_\_\_\_\_) (MetalWood® finish \_\_\_\_\_ on 0.032 inch aluminum) (WoodScenes™ Painted Color \_\_\_\_\_)].

### B. Acoustical Material:

- 1. Poly-encased insulation pads, of (1),(1-1/2)) thickness and a density of (1), (1-1/2)) pcf.
- 2. Acoutex acoustical non-woven fiber to be inserted in the factory and adhered with glue to the back of the panel for sound absorption capabilities.

### C. Suspension:

- 1. Chicago Metallic Intermediate duty non-rated double web suspension (1200 system with 15/16 inch exposed face) (4000 system with 9/16 inch exposed face) (3500 system with 9/16 inch wide by 5/16 inch deep face with 1/4 inch wide opening) (3600 system with 9/16 inch wide by 5/16 inch deep face with 1/8 inch wide opening). System consists of main tees and cross tees to create (24 inch by 24 inch) (24 inch by 48 inch) (custom\_\_\_\_\_) modules.
- 2. Suspension exposed face shall be [(coated with factory applied baked-on enamel paint) (01 White) (44 Satin Silver Metallic) (\_\_\_\_)] [anodized (14 Chromecoat) (16 Brasscoat) (509 Coppercoat)][(painted color coordinated for woodgrain panel finish)].

### D. Perimeter Treatment Components:

- 1. Wall Channels and hold-down inserts: Wall channels are formed from 0.020 inch (galvanized steel) (aluminum) and manufactured to a C-shape, with a ¼ inch top leg by 1-9/16 I.D. and 15/16 inch bottom leg. Length is 144. Finished identical to main tees and cross tees. Hold-Down Inserts are manufactured from the same material as wall channels and formed in a C-shape with ¾ inch legs with 1 ½ inch I.D. by (11 inch) (22 inch) length. Finish shall be supplied by manufacturer.
- 2. Wall Angle: (C3209, 1 inch wide x 2 inches high x 120 inches long) (1430, 7/8 inch wide by 7/8 inch high x 144 inches long) finished identical to main tees and cross tees.
- 3. Infinity™ Perimeter Trim: Made from extruded aluminum [(2)(4)(6)(8)(10)(12)] inches deep. Painted on all sides [(to match main tees and cross tees)(Other painted color \_\_\_\_\_)]. Panels to be (straight)(curved) as indicated on reflected ceiling plans.

### E. Hanger Wire:

- 1. Hanger wire: galvanized.

## 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

- A. Metal panels supported by an appropriately installed Chicago Metallic (15/16)) (9/16)) grid system.
- B. If required, insulation pads shall be laid upon the back of the panels (3) max. or 1 lb/sq.ft. max.).
- C. If necessary, utilize Chicago Metallic hold down clips to keep the insulation pads in place.

### D. Perimeter Treatment:

- 1. Perimeter treatment: Install channel on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry accepted practice.
- 2. Hold-down inserts install between the top leg of the wall channel and all metal panels.
- 3. Additional Hanger Wires at locations where imposed loads could cause deflection exceeding 1/360 span.

### 3.03 Repair

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

# Snap-in Panel Specification

## PART 1 - GENERAL

### 1.01 Scope

Furnish and install the Planostile snap-in metal panel ceiling system as manufactured and supplied by Chicago Metallic (800)323.7164.

### 1.02 Related Sections

- A. Section 09 20 00 - Plaster and Gypsum Board
- B. Section 09 51 00 - Acoustical Ceilings
- C. Section 09 63 00 - Acoustical Ceiling Suspension
- D. Section 09 54 00 - Specialty Ceilings
- E. Section 21 00 00 - Fire Suspension
- F. Section 220000 - Plumbing
- G. Section 23 00 00 - HVAC
- H. Section 26 50 00 - Lighting

### 1.03 References

- A. American Society for Testing and Materials (ASTM)
  - 1. C635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
  - 2. C636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
  - 3. E 84 - Test Method for Surface Burning Characteristics of Building Materials.
  - 4. E 580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint.
- B. International Building Code (IBC)
  - 1. Section 1621
  - C. Uniform Building Code
    - 1. 25-2 Standard

### 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 plan and elevations indicating ceiling layouts, perimeters and accessories.

### 1.05 Quality Assurance

- A. Materials flame and smoke tested per ASTM E 84 and comply with ASTM E 1264 Class A.
- B. Exterior soffit system classified per UL Construction #630 tested per UL 580 Class 30 pressures in both inward (uplift) and outward (negative) directions.

### 1.06 Project Conditions

- A. Environmental Requirements:
  - 1. Verify weather tightness of area to receive suspension system 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 approximate interior conditions which will exist when area is complete and occupied.
  - 4. Deliver materials in manufacturers original packaging, unopened and undamaged.
  - 5. Store materials in an enclosed dry location at room temperature and protect from damage.

### 1.07 Maintenance

Furnish additional material equal to (\_\_\_\_) % of ceiling area.

## PART 2 - PRODUCTS

### 2.01 Manufacturer

Chicago Metallic non-rated Planostile (interior)(exterior) snap-in metal panel ceiling system.

### 2.02 Materials

- A. Suspension system:
  - 1. Main Tee MA 010.500CH: Snap-bar formed into T-shape to receive the vertical flanges of Planostile panels with tight panel interlock, alignment and adjacent panels level at the ceiling plane. Formed from 0.020 in. HDG steel.
  - 2. Spacer Tee (2 ft and 4 ft): Manufactured from 0.012 in. galvanized steel formed into T-shape (24)(48)(60)(\_\_\_\_) in. long.
  - 3. Panel Retention Clip 63.26.031 for UL 580 Class 30 exterior soffits: Formed from 16 ga. galvanized steel wire into angled V shape to interlock four panel corners to Main Tee.
  - 4. Brace Clip 63.26.032 for UL 580 Class 30 exterior soffits: Manufactured from .040 in. galvanized steel for fastener attachment to suspension and bracing.
  - 5. Structural bracing to meet requirements of UL 580 Class 30 classification and specified project design requirements.
- B. Metal Panels:
  - 1. Planostile Snap-In Metal Panels for interior applications
    - a. Panels shall measure (24 in. x 24 in.), (24 in. x 48 in.), (custom \_\_\_\_\_) with 90° upturned legs on all four sides. Panels shall be formed with (square)(bevel) edges.
    - b. Panels formed from [(0.024 in. galvanized steel)(.032 in. aluminum)] [(perforation pattern \_\_\_\_)(unperforated)].
    - c. Finish: [Painted: (01 White)(44 Satin Silver) (Painted Color \_\_\_\_\_)(Anodized \_\_\_\_\_)(MetalWood® finish \_\_\_\_\_ on 0.032 inch aluminum) (WoodScenes™ Painted Color \_\_\_\_\_)].

### 2. Planostile Snap-In Metal Panels for exterior soffits:

- a. Panels shall measure 24 in. x 24 in. with 90° upturned legs on all four sides. Panels shall be formed with (square)(bevel) edges.
  - b. Panels formed from 0.032 in. aluminum, unperforated.
  - c. Finish to be [painted with a baked enamel finish (01 White) (44 Satin Silver Metallic) (\_\_\_\_)].
- ### 3. Acoustical material for interior applications:
- a. Glass fiber insulation pads encased in black poly [(1),(1-1/2)] in. thick and density of [(1) (1-1/2)] pcf.
  - b. Acoutex acoustical non-woven fiber adhered with glue to the back of the panel. Soundtex color is black.

### C. Perimeter Treatment:

- 1. Interior Wall Channel and Hold-Down Insert: Channel made from .020 in. galvanized steel in C-shape, with a 3/4 in. top leg, 2-1/2 in. I.D., and a 15/16 in. bottom leg. Length 144 in. Hold-Down Insert formed from same material as wall channel in a C-shape, with 3/4 in. legs, 2-7/16 in. I.D., (11)(22) in. long.
  - 2. Infinity™ Perimeter Trim: Made from extruded aluminum [(4)(6)(8)(10)(12)] inches deep. Painted on all sides [(to match main tees and cross tees)(Other painted color \_\_\_\_\_)]. Panels to be (straight)(curved) as indicated on reflected ceiling plans.
  - 3. Exterior Wall Channel and Hold-Down Insert: Channel made from .032 in. aluminum in C-shape, with 3/4 in. top leg, 2-1/2 in. I.D., and 2 in. bottom leg. Hold-Down Insert is formed from same material as wall channel in C-shape, with 3/4 in. legs, 2-7/16 in. I.D., 22 in. long.
- ### D. Accessories
- 1. Interior panel access key provided to permit detachment of panels from the carrier.
  - 2. Exterior panel access door assembly in same size and finish as panels. Four exposed fasteners lock to the suspension support angles.
  - 3. Expansion Joints: Formed from 0.032 in. aluminum into a C-shape, with 1-3/4 in. top leg, 2-1/2 in. I.D., and 2 in. bottom leg. Top angle to be formed from same material with 1/2 in. vertical and 4 in. horizontal leg.
  - 4. Interior Trim Kit for (24 in. x 24 in.)(24 in. x 48 in.) Type G fluorescent light fixture including two variable placement 01 White cross tees and trim (01 White)(to match Planostile panels)(other color \_\_\_\_\_).
  - 5. Bracing bracket at connection between structural bracing and Planostile suspension.
  - 6. Hanger Wire: galvanized.

## PART 3 - EXECUTION

### 3.01 Examination

- A. Examine area receiving system to identify conditions which will adversely affect installation. Do not begin installation until adverse conditions have been remedied.
- B. Verify completion of work above ceiling plane prior to panel installation.

### 3.02 Installation

#### A. General:

- 1. For interior applications in non seismic areas install in accordance with ASTM C636 (see 1.03, A 2.).
- 2. For interior applications in seismic areas install in accordance with (IBC Section 1621)(ASTM E 580).
- 3. For exterior soffit applications install in accordance with ASTM C636 (see 1.03, A 2.)

#### B. Suspension:

- 1. Planostile Snap-Bar Main Tees: Install (24)(48) in. O.C., by direct suspension from existing structure, with not less than 12 gage steel hanger wires spaced (48) in. O.C. along main tee length. Wrap hanger wires tightly 3 full turns at each end. (Brace against wind uplift as necessary to meet UL 580 Class 30).

#### 2. Cross Tees: Install perpendicular to main tees 48 in. O.C.

#### C. Metal Panels:

- 1. Planostile Snap-in Metal Panels: Install Metal Panel into Main Tee carrier ensuring embosses on vertical legs are fully engaged into Main Tee and panel edges are aligned.
- 2. If required, insulation pads shall be laid upon the back of the panels (3) max. or 1 lb/sq.ft. max.).
- 3. For Seismic and Exterior Soffit applications install wire retention clips through holes in panel vertical flanges, connecting four panel corners together and secure by tying wire clips across top of Snap-Bar Main Tee.

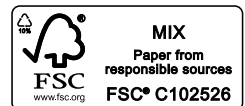
#### D. Perimeter Treatment:

- 1. Perimeter treatment: Install channel on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry accepted practice.
- 2. Hold-down inserts install between the top leg of the wall channel and all metal panels.
- 3. Additional Hanger Wires at locations where imposed loads could cause deflection exceeding 1/360 span.

#### E. Air Diffusers: coordinate with Mechanical (HVAC) Division.

### 3.03 Repair

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



Ceiling Systems and Specialty Products - USA and Canada: 800.323.7164 / Fax: 800.222.3744 / [chicagometallic.com](http://chicagometallic.com)  
BELGIUM / DENMARK / UK / GERMANY / FRANCE / HONG KONG / PRC / MALAYSIA / UNITED ARAB EMIRATES / MEXICO

Chicago Metallic, its logo and MetalWood are Registered Trademarks of Chicago Metallic Corporation. Infinity and WoodScenes are trademarks of Chicago Metallic Corporation.  
© 2012 Chicago Metallic Corporation All Rights Reserved Printed in USA SNL0091A3012

Literature Disclaimer: Presentations in this brochure or any other Chicago Metallic Corporation publication are correct to the best of our knowledge at time of preparation. We provide this information in an advisory capacity only. Any advisory recommendations given in our publications *must be modified to conform with local codes, conditions and specifications*. We reserve all rights to amend any information published in our literature without additional notice. **Chicago Metallic can not be held responsible or liable for the selection nor application of our products.**