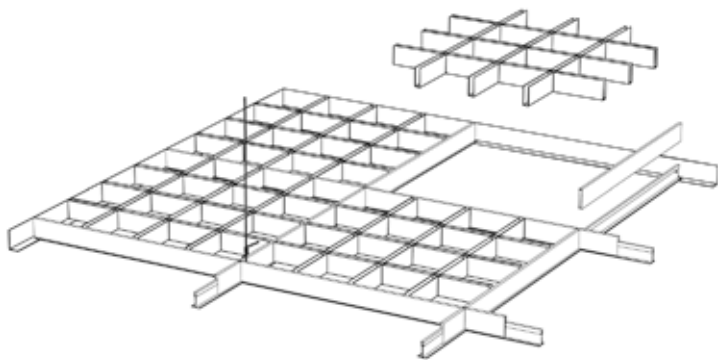


Open Plenum Metal Ceiling Systems

PRODUCT GUIDE

OPEN PLENUM
METAL CEILING
09 54 13

M
METAL



Chicago Metallic®
Fast. Easy. Customer Focused.®

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Product Updates

Up-to-date, time stamped product information is always available on the web



chicagometallic.com/magnatcell
chicagometallic.com/intaline
chicagometallic.com/cubegrid
chicagometallic.com/beamgrid
chicagometallic.com/graphgrid
chicagometallic.com/metalscapes

Service

Color Samples

1. Custom color matching requires customer color sample or paint manufacturer and color number.
2. CMC will provide color sample for approval upon request.
3. Service Level begins after receipt of color approval.

Order Review

Customer Service direct: 1.800.323.7164 / option 1.

Order Placement

Orders to be faxed to 1.866.211.3824.

Standard Samples and Literature

Standard literature, product samples and color samples are available from the CMC Sample and Literature department at no charge.

Phone: 1.800.323.7164/ option 2

Fax: 1.800.222.3744

Email: cmc-customerservice@chicagometallic.com

Technical Support

Requests for technical information on CMC Metal Ceilings may be placed with the Technical Services Department.

Phone: 1.800.323.7164 option 3

Fax: 1.888.329.2620

Email: techservices@chicagometallic.com

Mockups and Custom Samples

When CMC has agreed to provide custom samples or mockups, the cost for them will be billed to the account. CMC will issue credit for all mockups and custom sample invoices when valid orders for these products are placed with our Customer Service Department.

Phone: 1.888.991.7070

Fax: 1.866.211.3824

Email: cmc-customerservice@chicagometallic.com

To Place Orders

Phone: 1.800.323.7164 option 1

Fax: 1.866.211.3824

Magna T-Cell™

Open Cell
Ceiling

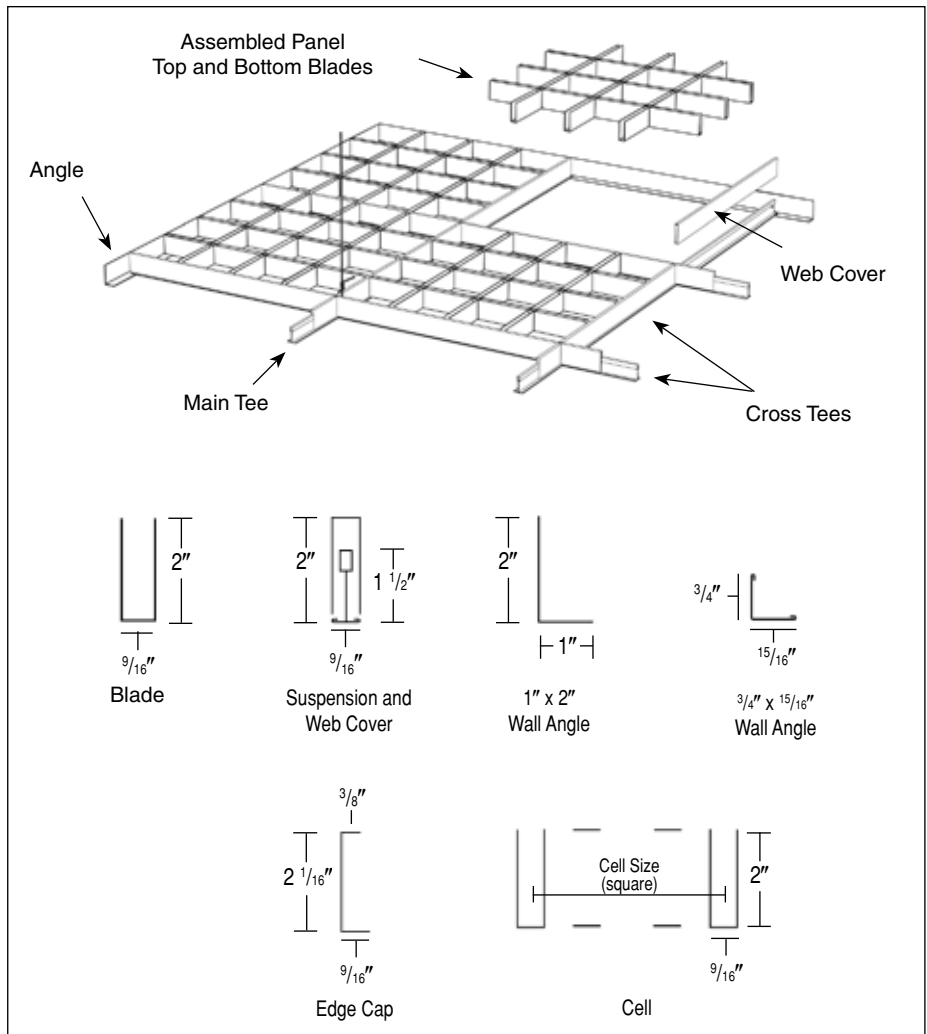


Applications

Ideal for hospitals, hospitality, retail, airports, transit, galleries, offices.

Features

- Flexibility in design choices, module sizes and plenum masking.
- Tee grid based systems ensure module alignment and accept industry standard fixtures.
- Panels and suspension blend together visually.
- Metal contains no organic compounds to support mold and microbial growth.
- 100% random access to plenum.
- Sustainable: Steel: 25% minimum, aluminum: 100% post consumer recycled content, 100% locally recyclable, global/regional manufacture.



Color and Finish Options

Standard Painted Colors

- 01 White
- 08 Black
- 44 Satin Silver

Premium Painted Colors and Finishes

- 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

Anodized Finishes

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

MetalWood® II Woodgrain Finishes

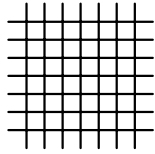
- 650R Maple
 - 651R Cherry
 - 652R Pumpkin Maple
 - 653R Oak
 - 654R Karri
 - 655R Bamboo
- (Panels and Web Covers Only)

WoodScenes™ Painted Colors

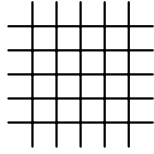
- 800 Lazy Maple
- 801 Aged Teak
- 802 Vintage Burlwood
- 803 Burnished Cherry
- 804 Sleek Cherry
- 805 Weathered Oak

* Coordinating Solid Paint Colors to MetalWood® II Woodgrain Finishes

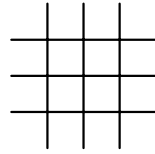
Panel Configurations



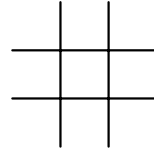
2' x 2' Panel
3" x 3" Cells



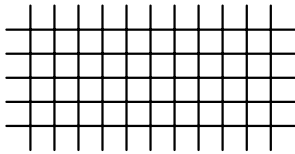
2' x 2' Panel
4" x 4" Cells



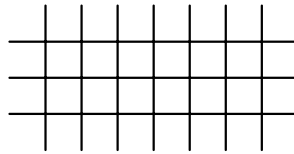
2' x 2' Panel
6" x 6" Cells



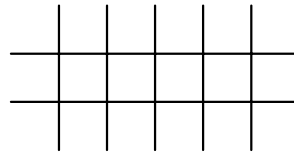
2' x 2' Panel
8" x 8" Cells



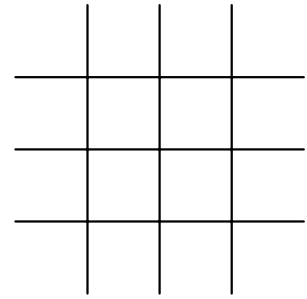
2' x 4' Panel
4" x 4" Cells



2' x 4' Panel
6" x 6" Cells



2' x 4' Panel
8" x 8" Cells

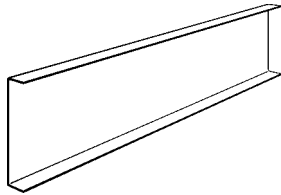


4' x 4' Panel
12" x 12" Cells

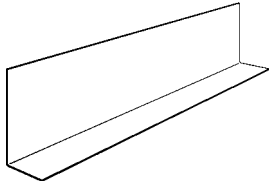
Assembled Panels

Product Number	Cell Size	Panel Size	Blade Height	Blade Face	Packaging			
					Sq. Ft.	Pieces	Weight	
Painted Assembled* Panels – 0.010" Galvanized Steel								
36.22.003.xxx	3 x 3"	2' x 2'	2"	9/16"	40	10	31	
36.24.004.xxx	4" x 4"	2' x 2'	2"	9/16"	40	10	30	
36.22.006.xxx	6" x 6"	2' x 2'	2"	9/16"	40	10	20	
36.24.006.xxx	6" x 6"	2' x 4'	2"	9/16"	40	5	20	
36.22.008.xxx	8" x 8"	2' x 2'	2"	9/16"	40	10	15	
36.24.008.xxx	8" x 8"	2' x 4'	2"	9/16"	40	5	15	
36.44.012.xxx	12" x 12"	4' x 4'	2"	9/16"	80	5	20	
Reflective Assembled* Panels – 0.024" Aluminum								
46.22.003.xxx	3" x 3"	2' x 2'	2"	9/16"	40	10	29	
46.22.004.xxx	4" x 4"	2' x 2'	2"	9/16"	40	10	22	
46.24.004.xxx	4" x 4"	2' x 4'	2"	9/16"	40	5	22	
46.22.006.xxx	6" x 6"	2' x 2'	2"	9/16"	40	10	13	
46.24.006.xxx	6" x 6"	2' x 4'	2"	9/16"	40	5	13	
46.22.008.xxx	8" x 8"	2' x 2'	2"	9/16"	40	10	8	
46.24.008.xxx	8" x 8"	2' x 4'	2"	9/16"	40	5	8	
46.44.012.xxx	12" x 12"	4' x 4'	2"	9/16"	80	5	13	

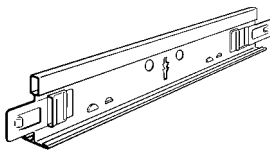
* Does not include grid, web covers or wall molding.



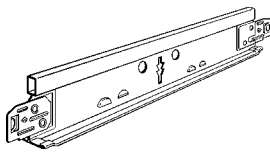
Edge Cap
36.10.916-46.10.916



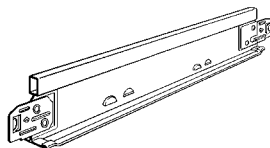
Wall Angle
C3209



Main Tee
10.04.000.CH



Cross Tee
10.04.014.CH



Cross Tee – No Slots
10.04.022.CH

Product Number	Dimensions			Weight Per Piece
	Length	Height	Face	

Edge Cap – Finish Both Sides* for Free-Floating Applications

36.10.916.xxx	10'	2 ¹ / ₁₆ "	9 ⁹ / ₁₆ " x 3 ³ / ₈ "	2
---------------	-----	----------------------------------	--	---

Edge Cap – Finish One Side Only

46.10.916.xxx	10'	2 ¹ / ₁₆ "	9 ⁹ / ₁₆ " x 3 ³ / ₈ "	2
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Wall Angle – Finish Both Sides (one side for reflective)

C3209.xxx	10'	2"	1"	2
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* 01 White/08 Black/44 Satin Silver Metallic/Premium/Other Painted Colors only.
** Reflective/Anodized only.

9/16" Grid

Main Tee (Heavy Duty)

10.04.040.01CH	12'	1 ¹ / ₂ "	9 ⁹ / ₁₆ "	3
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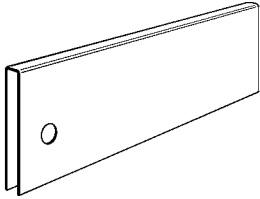
Main Tee (Intermediate Duty)

10.04.000.xxxCH	12'	1 ¹ / ₂ "	9 ⁹ / ₁₆ "	3.6
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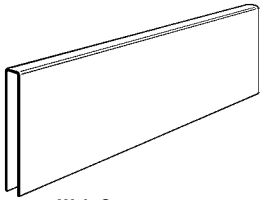
Cross Tees – Stab-in

10.04.014.xxxCH	4'	1 ¹ / ₂ "	9 ⁹ / ₁₆ "	1
-----------------	----	---------------------------------	----------------------------------	---

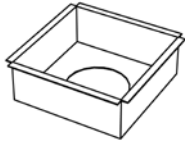
10.04.022.xxxCH	2'	1 ¹ / ₂ "	9 ⁹ / ₁₆ "	0.5
-----------------	----	---------------------------------	----------------------------------	-----



Web Cover
38.40.907-38.40.909-
48.40.907-48.40.909



Web Cover
38.40.908-38.40.91048.



Infill Panel
38.06

Product Number	Length	Description	Per Carton	
			Piece	Weight

Painted Web Covers – 0.010" Galvanized Steel

38.40.907.xxx	2'	With hanger holes	50	15
38.40.908.xxx	2'	Without hanger holes	50	15
38.40.909.xxx	4'	With hanger holes	25	15
38.40.910.xxx	4'	Without hanger holes	25	15

Reflective Web Covers – 0.012" Aluminum

48.40.907.xxx	2'	With hanger holes	50	5
48.40.908.xxx	2'	Without hanger holes	50	5
48.40.909.xxx	4'	With hanger holes	25	5
48.40.910.xxx	4'	Without hanger holes	25	5

Product Number	Cell Size	Height	Maximum Hole Size	Packaging	
				Piece	Weight

Infill Panels with Cutouts - Flush Fit*

38.06.003.xxx	3" x 3"	2"	2.125"	10	2
38.06.004.xxx	4" x 4"	2"	3.125"	10	2
38.06.006.xxx	6" x 6"	2"	5.125"	10	3
38.06.008.xxx	8" x 8"	2"	7.125"	10	3
38.06.012.xxx	12" x 12"	2"	11.12"	10	4

* Hole size and type (round or square) to be specified at time of order.

Intaline™ Baffle Ceiling



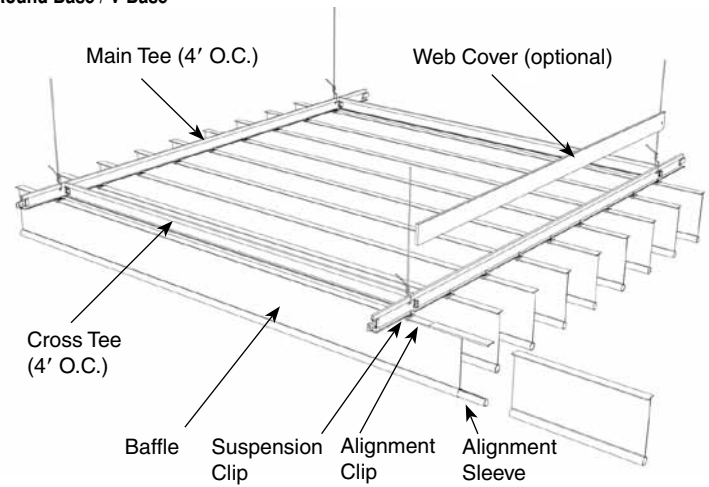
Applications

Ideal for hospitals, hospitality, retail, airports, transit, galleries, offices.

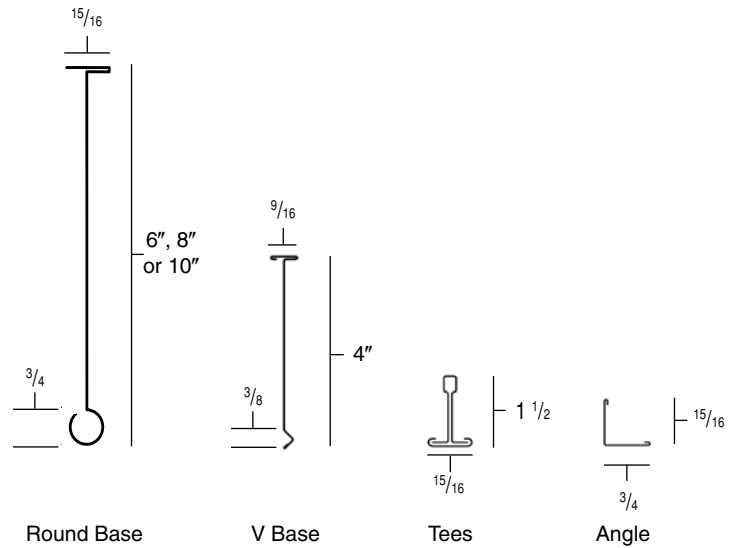
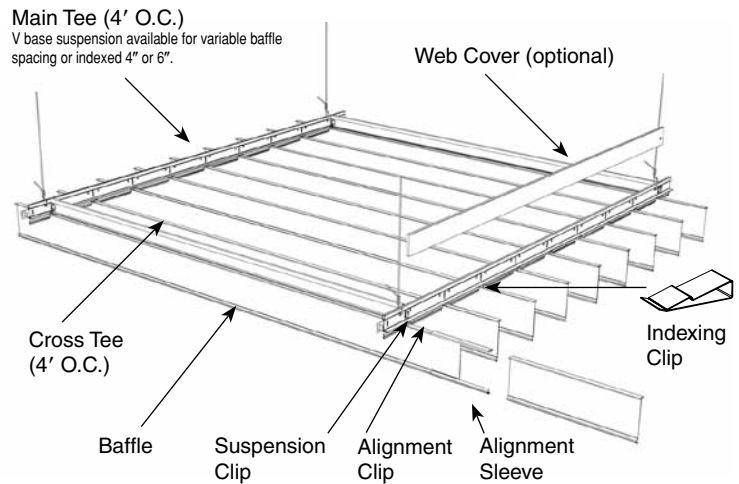
Features

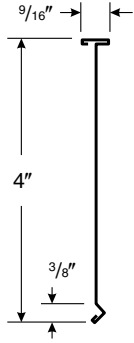
- Flexibility in design choices, module sizes and plenum masking.
- Five distinct systems each with a wide range of sizes and finishes.
- Tee grid based systems ensure module alignment and accept industry standard fixtures.
- Metal contains no organic compounds to support mold and microbial growth.
- 100% random access to plenum.
- Sustainable: Steel: 25% minimum, aluminum: 100% post consumer recycled content, 100% locally recyclable, global/regional manufacture.

Round Base / V Base

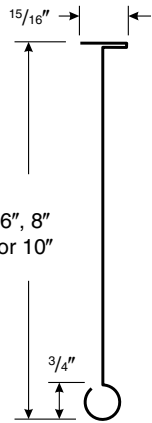


V Base





Steel-V Base
48.50.004



Aluminum-Round Base
38.40.031-38.40.051-38.40.061

Product Number	Length	Packaging	
		LF	Pieces Weight
Steel Baffle			
4" V Base – 0.020"			
48.50.004.xxx	12'	Per Order	
Aluminum Baffles			
6" Round Base – 0.032"			
38.40.031.xxx	12'	Per Order	
8" Round Base – 0.032"			
38.40.051.xxx	12'	Per Order	
10" Round Base – 0.032"			
38.40.061.xxx	12'	Per Order	

Color and Finish Options

Standard Painted Colors

- 01 White
- 08 Black
- 44 Satin Silver

Premium Painted Colors and Finishes

- 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

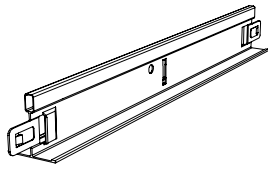
Anodized Finishes

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

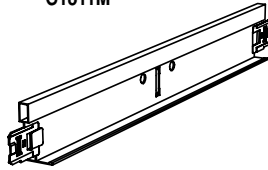
WoodScenes™ Painted Colors

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

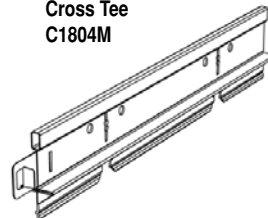
* Coordinating Solid Paint Colors to MetalWood® II Woodgrain Finishes ** Finish on one side only



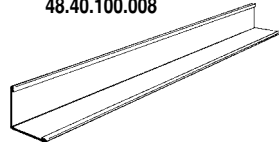
Main Tee
C1811M



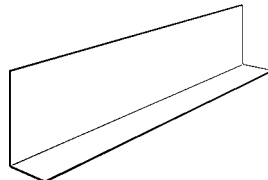
Cross Tee
C1804M



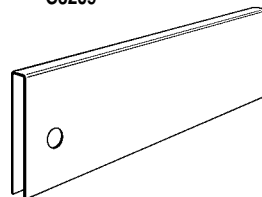
Indexing V-base Carrier
48.40.100.008



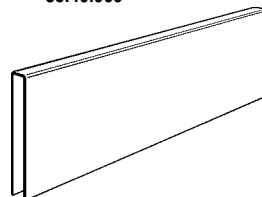
Wall Angle
38.90.124



Wall Angle
C3209



Web Cover
38.40.909



Web Cover
38.40.910

Product Number	Dimensions			Feet	Packaging Pieces	Weight
	Length	Height	Face			

15/16" Grid

CubeGrid Main Tee (Intermediate Duty) – Slotting is 48" O.C.

C1811Mxxx	12'	1 1/2"	15/16"	300	25	73
-----------	-----	--------	--------	-----	----	----

CubeGrid Cross Tee – Stab-in

C1804Mxxx	4'	1 1/2"	15/16"	200	50	49
-----------	----	--------	--------	-----	----	----

Indexing V Base Carrier

48.40.100.008	12'	1 1/2"	15/16"	–	12	23
48.40.101.008	12'	1 1/2"	15/16"	–	12	23

Note: Use for V Base Baffles. Notches space baffles. Baffles attached to carrier with #48.40.005.008 attachment clip.

Cross Tee for Indexing V Base Carrier – Stab-in

C1210Mxxx	4'	1 1/2"	15/16"	200	50	49
-----------	----	--------	--------	-----	----	----

Product Number	Dimensions			LF	Packaging Pieces	Weight
	Length	Height	Face			

Wall Angle – Aluminum with Hemmed Edges

38.90.124.xxx	12'	3/4"	15/16"	300	25	25
---------------	-----	------	--------	-----	----	----

Wall Angle – Painted Both Sides

C3209.xxx	10'	2"	1"	–	–	2
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Web Cover* – With Hanger Holes

38.40.909.xxx	4'	2"	9/16"		1	0.50
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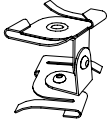
Web Cover* – Without Hanger Holes

38.40.910.xxx	4'	2"	9/16"		1	0.50
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* Optional when used with standard grid.



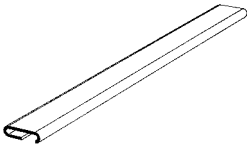
Suspension Clip
48.40.003 - 38.40.921



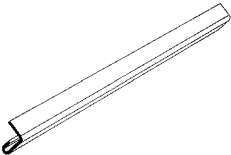
Swivel Suspension Clip
48.40.004 - 38.40.004



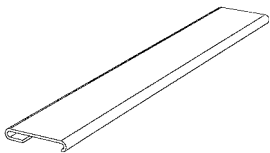
Indexing Suspension Clip
48.40.005



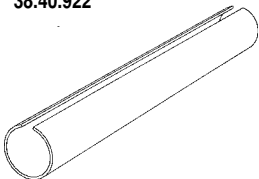
Alignment Clip (top)
48.40.002



Alignment Clip (bottom)
48.40.001



Alignment Clip (top)
38.40.922



Alignment Sleeve (bottom)
38.40.923

Product Number	Description	Per Carton	
		Pieces	Weight
Suspension Clip			
48.40.003.008	Steel baffle to 15/16" grid-08 Black	100	1
38.40.921.008	Aluminum baffle to 15/16" grid-08 Black	100	1
Swivel Suspension Clip			
48.40.004.008	Steel baffle to 15/16" grid-08 Black	25	2
38.40.004.008	Aluminum baffle to 15/16" grid-08 Black	25	2
Alignment Clip (top)			
48.40.002	Steel baffle-Clear	100	1
38.40.922	Aluminum baffle-Clear	50	1
Alignment Clip (bottom)			
48.40.001	Steel baffle	100	1
Indexing Suspension Clip			
48.40.005.008	V Baffle to Intaline Carrier	250	1
Alignment Sleeve (bottom)			
38.40.923	Aluminum baffle	50	1

CubeGrid™

Open Plenum Grid Ceiling

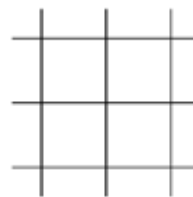
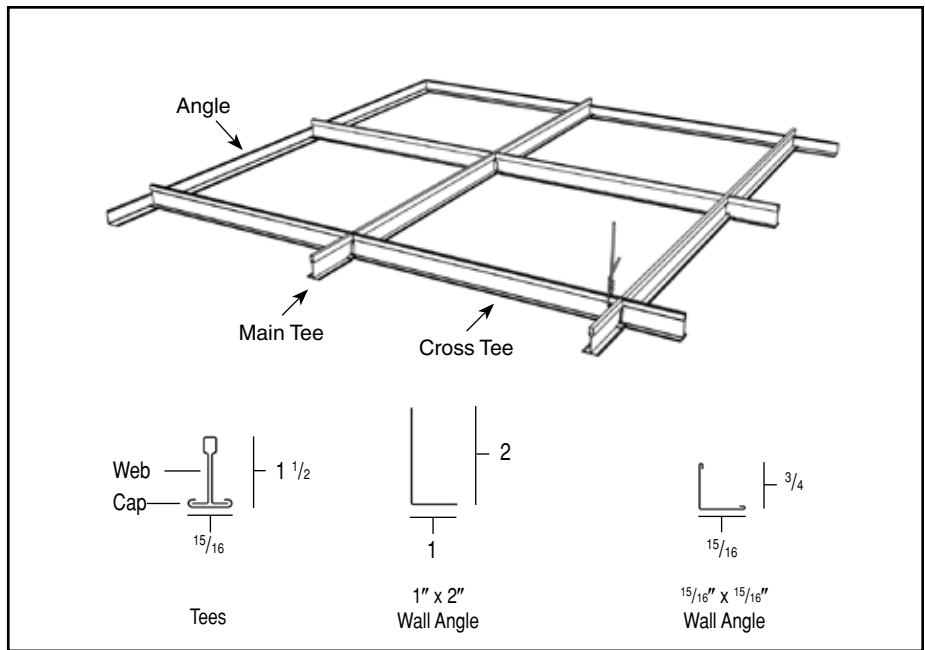


Applications

Ideal for hospitals, hospitality, show-rooms, lobbies, corridors.

Features

- Flexibility in design choices, module sizes and plenum masking.
- Tee grid based systems ensure module alignment and accept industry standard fixtures.
- Metal contains no organic compounds to support mold and microbial growth.
- 100% random access to plenum.
- No unnecessary holes in suspension web.
- Lowers total costs.
- 360 degree painting of all components.
- Sustainable: Steel: 25% minimum, aluminum: 100% post consumer recycled content, 100% locally recyclable, global/regional manufacture.



24" x 24"



48" x 48"

Color and Finish Options

Standard Painted Colors

- 01 White
- 08 Black
- 44 Satin Silver

Premium Painted Colors and Finishes

- 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

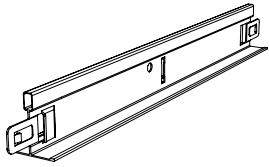
Anodized Finishes

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

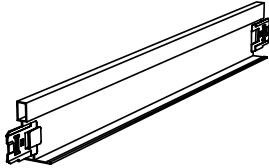
WoodScenes™ Painted Colors

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

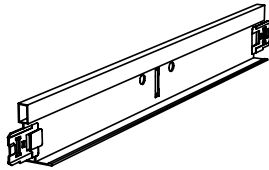
* Coordinating Solid Paint Colors to MetalWood® II Woodgrain Finishes ** Finish on suspension face only



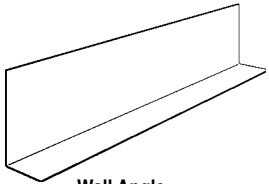
Main Tee
C1800-C1811



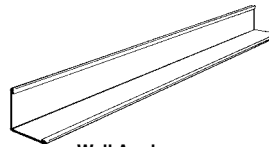
Cross Tee
C1802



Cross Tee
C1804



Wall Angle
C3209



Wall Angle
38.90.122

Product Number	Dimensions			Feet	Packaging	
	Length	Height	Face		Pieces	Weight

24" x 24" Module

Main Tee - Heavy Duty – Slotting is 24" O.C.

C1800KxxX	12'	1 1/2"	15/16"	300	25	73
-----------	-----	--------	--------	-----	----	----

Main Tee - Intermediate Duty – Slotting is 24" O.C.

C1811KxxX	12'	1 1/2"	15/16"	300	25	73
-----------	-----	--------	--------	-----	----	----

Cross Tees - Stab-in

C1802KxxX	2'	1 1/2"	15/16"	150	75	37
-----------	----	--------	--------	-----	----	----

C1804KxxX	4'	1 1/2"	15/16"	200	50	49
-----------	----	--------	--------	-----	----	----

48" x 48" Module

Main Tee - Heavy Duty – Slotting is 48" O.C.

C1800MxxX	12'	1 1/2"	15/16"	300	25	73
-----------	-----	--------	--------	-----	----	----

Main Tee - Intermediate Duty – Slotting is 48" O.C.

C1811MxxX	12'	1 1/2"	15/16"	300	25	73
-----------	-----	--------	--------	-----	----	----

Cross Tee - Stab-in

C1804MxxX	4'	1 1/2"	15/16"	200	50	49
-----------	----	--------	--------	-----	----	----

Product Number	Dimensions			Feet	Packaging	
	Length	Height	Face		Pieces	Weight

Wall Angles

Finish One Side - Aluminum with Hemmed Edges

38.90.124.xxx	12'	3/4"	15/16"	120	10	10
---------------	-----	------	--------	-----	----	----

Painted Both Sides

C3209.xx	10'	2"	1"	-	-	2
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*Reflective and Anodized finishes on one side only.

BeamGrid™

Open Plenum Beam Ceiling

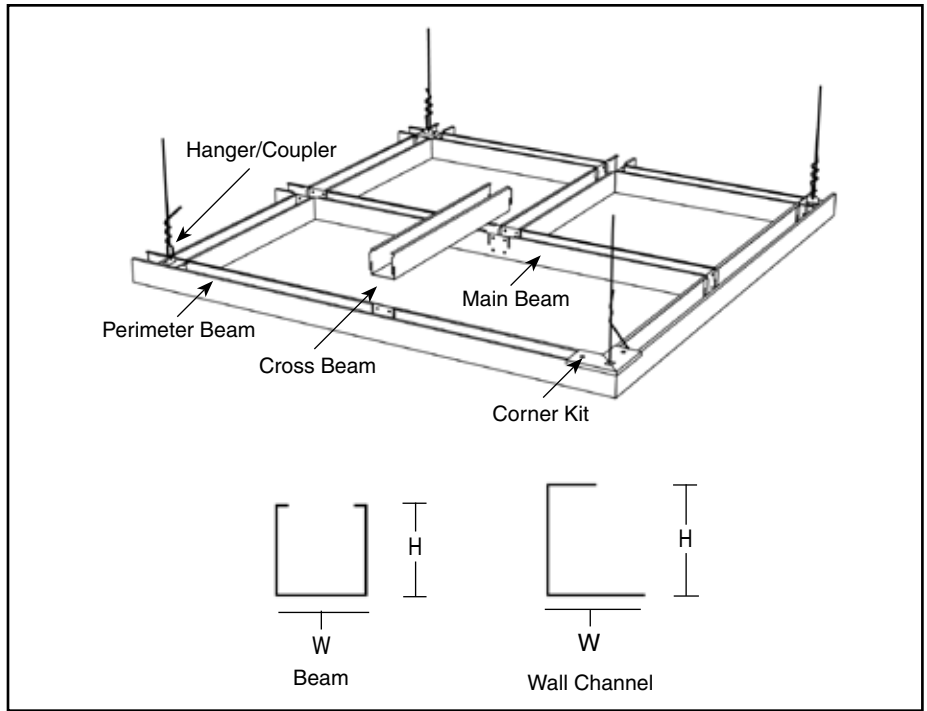


Applications

Ideal for hospitals, hospitality, retail, airports, transit, galleries, offices, cafeterias, lobbies.

Features

- Flexibility in design choices, module sizes and plenum masking.
- Five module sizes.
- Choose section and module to suit scale of space.
- Metal contains no organic compounds to support mold and microbial growth.
- 100% random access to plenum.
- Sustainable: Aluminum: 100% post consumer recycled content, 100% locally recyclable, global/regional manufacture.



Available Sizes

- BeamGrid is available in the following beam sizes:

Standard (wide x high)

- 1" x 1"
- 1" x 2"
- 1" x 4"
- 2" x 2"
- 2" x 4"
- 3" x 3"
- 4" x 4"

Special Order (wide x high)

- 1" x 5"
- 2" x 6"
- 2" x 8"
- 3" x 6"
- 3" x 12"
- 5" x 5"
- 6" x 6"

- BeamGrid is available in the following standard module sizes:

12" x 12", 16" x 16", 24" x 24", 36" x 36", 48" x 48"

Color and Finish Options

Standard Painted Colors

- 01 White
- 08 Black
- 44 Satin Silver

Premium Painted Colors and Finishes

- 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

Anodized Finishes

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

WoodScenes™ Painted Colors

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

* Coordinating Solid Paint Colors to MetalWood® II Woodgrain Finishes

MetalScapes™

Wire Mesh Panels



Applications

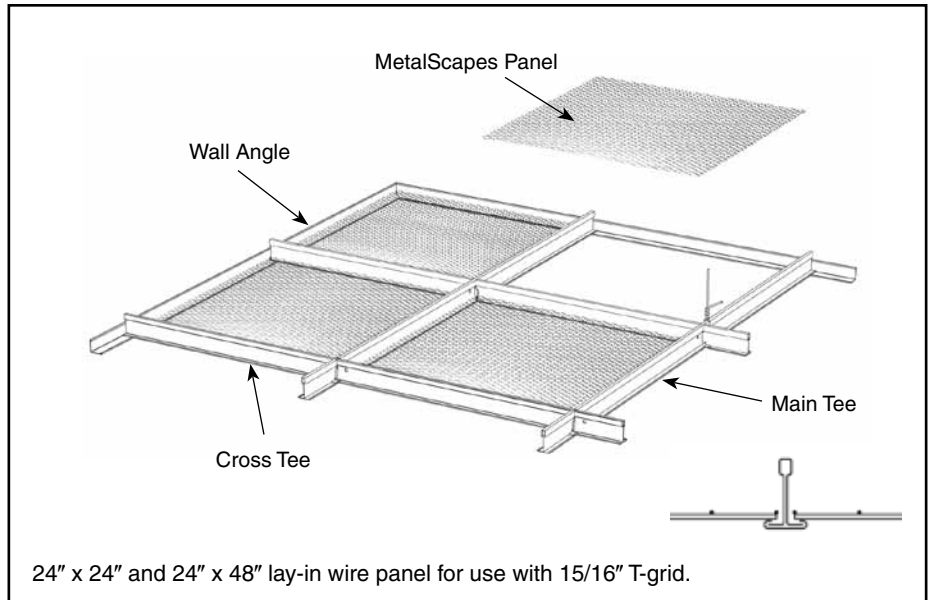
Create durable, accessible, and airy ceilings in interior spaces.

Features

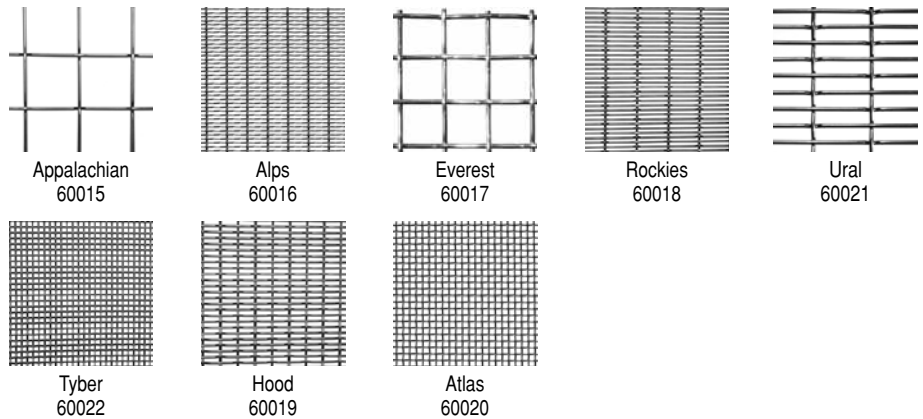
- MetalScapes Wire Mesh panels are constructed of stainless or carbon steel.
- 8 stainless steel panels — no painting.
- 6 carbon steel panels — paintable.
- Stainless steel and carbon steel panels are available in 24" x 24" or 24" x 48" nominal configuration for use in 15/16" grid.
- Factory applied no-VOC powder coated paints for carbon steel panels only.

Benefits

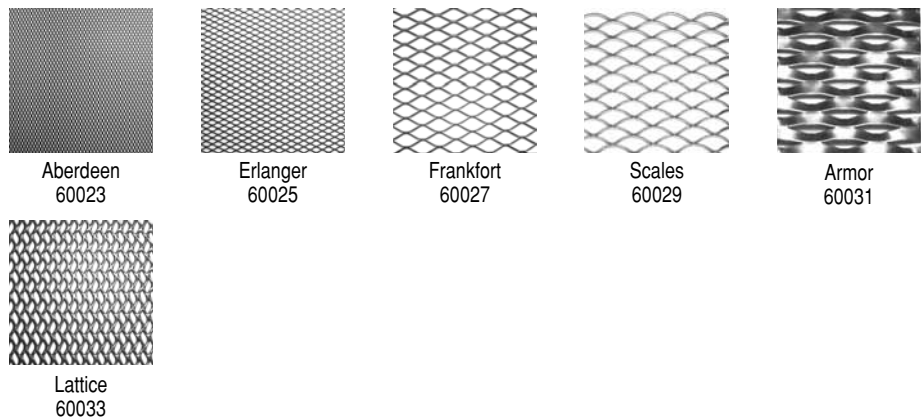
- MetalScapes Wire Mesh panels may contribute to LEED® certification project credits.
- Class A Fire Rating (Non-combustible material).
- From 10% to 25% recycled content; 100% recyclable at end of useful life.



Stainless Steel Patterns



Carbon Steel Patterns



Standard Painted Colors

(Carbon Steel Patterns only)

- 01 White
- 08 Black
- 44 Satin Silver

GraphGrid™

Open Wire Ceiling Panel

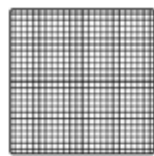
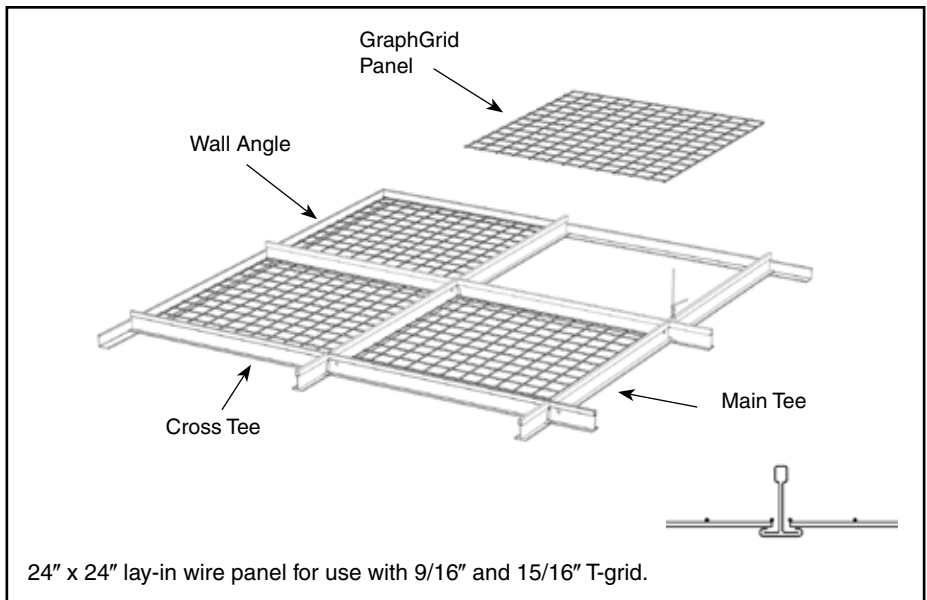


Applications

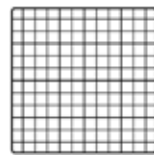
Ideal for hospitals, hospitality, retail, airports, transit, galleries, offices, corridors.

Features

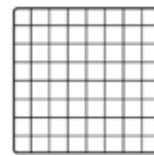
- Flexibility in design choices, cell sizes and plenum masking.
- Designed to show consistent wire spacing, even at panel perimeter.
- Four designs with different wire spacing.
- Tee grid based systems ensure module alignment and accept industry standard fixtures.
- Metal contains no organic compounds to support mold and microbial growth.
- 100% random access to plenum.
- Lowers total costs.
- Sustainable: Steel: 25% minimum locally recyclable, global/regional manufacture.



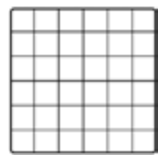
1" x 1" Cell



2" x 2" Cell



3" x 3" Cell



4" x 4" Cell

Product Number	Cell Size	Nominal Panel Size	Packaging	
			Sq Ft	Piece Weight
GraphGrid Panels – For 15/16" and 9/16" T-Grid				
8901.xxx	1" x 1"	2' x 2'		Per Order
8902.xxx	2" x 2"	2' x 2'		Per Order
8903.xxx	3" x 3"	2' x 2'		Per Order
8904.xxx	4" x 4"	2' x 2'		Per Order

Wire diameter: 0.117"

Color and Finish Options

Standard Painted Colors

- 01 White
- 08 Black
- 44 Satin Silver

Premium Painted Colors and Finishes

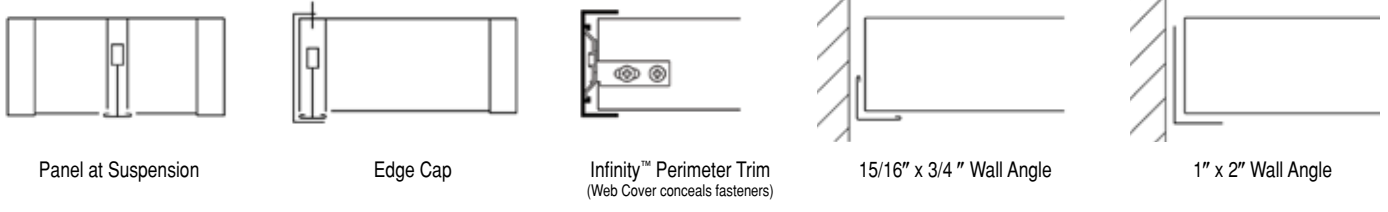
- 21 Copper Metallic
- 23 Sandstone
- 379 Gloss White
- 431 Whitewash
- 510 Morning Dew Metallic
- 511 Autumn Metallic

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

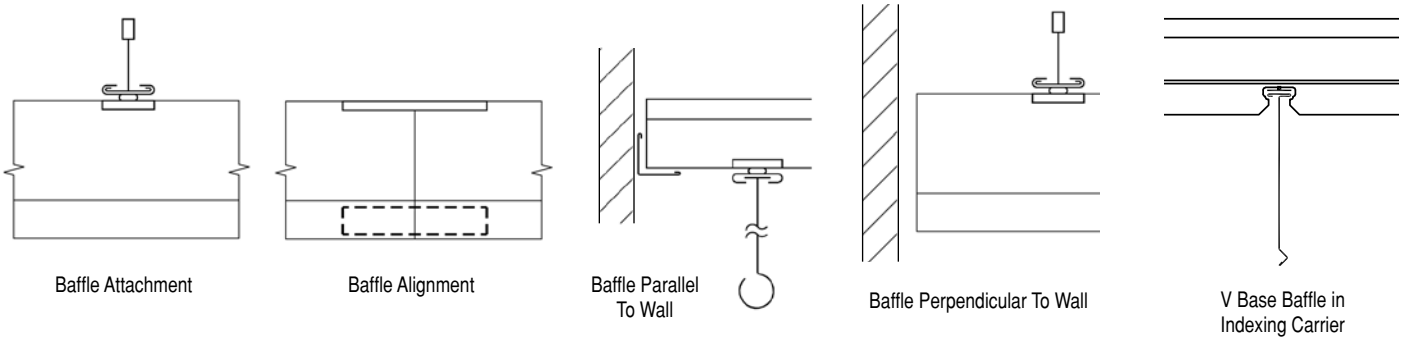
Reflective Finish

- 58 Bright Mirror

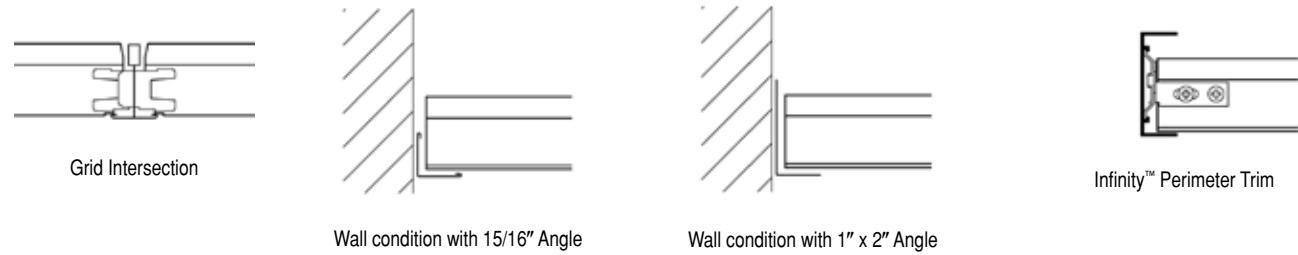
Magna T-Cell™



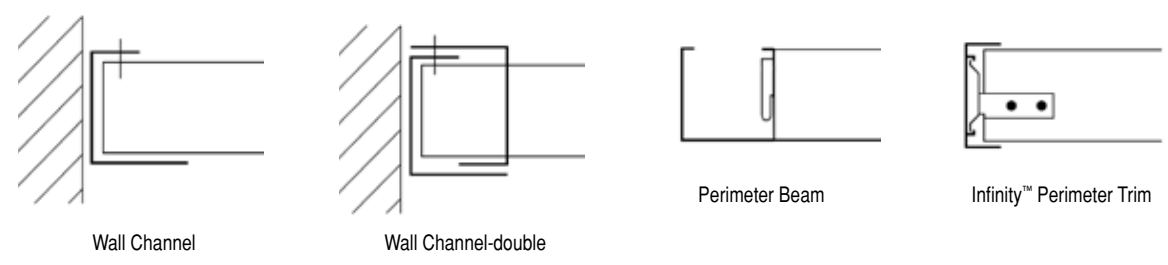
Intaline™



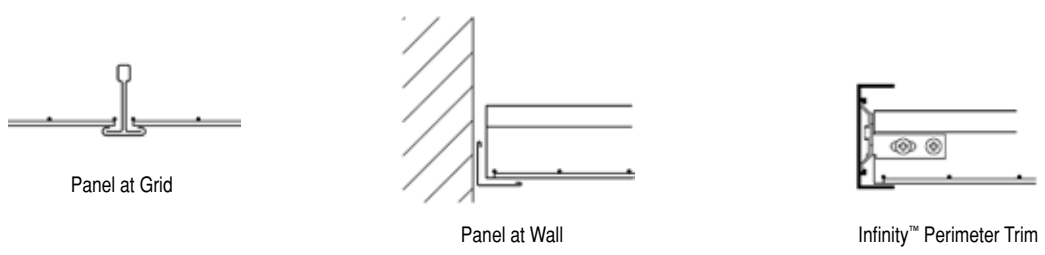
CubeGrid™



BeamGrid™



GraphGrid™ and MetalScapes™



Product information for integration into ceiling specification

panel type		Magna T-Cell	Intaline Round Base	Intaline V Base
material	depth	2"	6", 8", 10"	4"
	width	9/16"	3/4"	3/8"
	panel size/length	2' x 2', 2' x 4', 4' x 4'	12'	12'
	painted steel	•		•
	painted aluminum		•	
	reflective and anodized anodized aluminum	•	one side only	one side only
size	spacing	3", 4", 6", 8", 12"	6", 8", 10" variable	4" variable
fire	class A: flame 0, smoke 0 per ASTM E 84	•	•	•
performance	interior applications	•	•	•
suspension	9/16" general	•		
	15/16" general		•	•
	beam			
warranty	1 year limited	•	•	•
sustainability	Steel: 25% minimum, aluminum: 100% post consumer recycled content, 100% locally recyclable global manufacture	•	•	•

panel type		CubeGrid	BeamGrid	GraphGrid	MetalScapes
material	depth	1 1/2"	1", 2", 3", 4"	n/a	n/a
	width	15/16"	1", 2", 3", 4"	1", 2", 3", 4"	various
	panel size/length			2' x 2'	2' x 2', 2' x 4'
	painted steel	•		•	•
	painted aluminum		•		
	stainless steel				•
reflective and anodized anodized aluminum	cap only	•			
size	spacing	24", 48"	12", 16", 24" 30", 36" 48"	1", 2", 3", 4"	various
fire	class A: flame 0, smoke 0 per ASTM E 84	•	•	•	•
performance	interior and seismic environments	•	•	•	•
suspension	9/16" general			•	
	15/16" general	•		•	•
	beam		•		
warranty	1 year limited	•	•	•	•
sustainability	Steel: 25% minimum, aluminum: 100% post consumer recycled content, 100% locally recyclable global manufacture	•	•	•	
	Aluminum: 100% post consumer recycled content, 100% locally recyclable global manufacture		•		

PART 1 - GENERAL

1.01 Section Includes

Provide Open Cell Ceiling System.

1.02 Related Sections

- A. Section 09 22 26 - Suspension Systems
- B. Section 09 54 00 - Specialty Ceilings
- C. Section 13 42 00 - Building Modules
- D. Section 13 48 00 - Sound, Vibration, and Seismic Control
- E. Section 23 50 00 - Central Heating Equipment
- F. Section 26 50 00 - Lighting

G. Section 265000 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.

1.04 Submittals

- A. Product data sheets listing dimensions, load carrying capacity and standards compliance.
- B. Sample kit containing appropriate open cell ceiling samples.
- C. Shop drawings illustrating appropriate placement of system.
- D. Certification of materials and system conforming to specification requirements.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weather tightness of area receiving suspension system prior to installation.
 - 2. Wet trades work to be thoroughly dry and complete prior to 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.

1.06 Maintenance

Furnish additional material equal to _____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturers

Magna T-Cell ceiling system as manufactured by Chicago Metallic, 4849 S. Austin Avenue, Chicago, IL, 1-800-323-7164.

2.02 Suspension System Components

- A. Lay-In Panels:
 - 1. Manufactured from (painted 0.010 inch galvanized steel) (0.024 inch aluminum) forming U-shaped blades 2 inches high by 9/16 inch wide by (24)(48) inches long, notched to form (3 x 3)(4 x 4)(6 x 6)(8 x 8)(12 x 12) inch cells.
 - 2. Finish: (Coated with baked-on polyester enamel paint); Color: (01 White)(08 Black)(44 Satin Silver)(Other _____); Anodized (14 Chromecoat)(16 Brasscoat)(509 Coppercoat), Woodscenes (____), MetalWood II (____).
 - 3. Panels: (24 x 24)(24 x 48)(48 x 48) inches, nominal size. Architect Note: 48 x 48 inch panel available for 12 x 12 inch cell only.
- B. Suspension System Components:
 - 1. Main Tees:
 - a. Manufactured from (0.018)(0.020) inch steel 9/16 inch wide by 1-1/2 inches high by 144 inches long, with factory punched cross tee slots, hanger holes and integral bayonet-style end couplings.
 - b. Capping color and finish matches lay-in panels.

2. Cross Tees:

- a. Manufactured from (0.012) (0.018) inch steel 9/16 inch wide, by 1-1/2 inches high by (24) (48) inches long, with factory punched cross tee slots, hanger holes, and staked-on end couplings.
- b. Capping color and finish matches Main Tees.

3. Web Covers:

- a. Manufactured from (painted 0.010 inch galvanized steel)(0.012 inch aluminum) 2 inches high by 9/16 inches wide by (24)(48) inches long, formed to a "U" shape, (with)(without) pre-punched hanger holes.
- b. Color and finish matches panels.

4. Perimeter Treatment:

- a. Wall angle:
 - 1. Manufactured from (0.020 inch steel)(0.025 inch aluminum) 2 inches high by 1 inch wide by 120 inches long.
 - 2. Finish: (Painted both sides)(Anodized on outer surface) color matching panels.
- b. Edge Cap:
 - 1. Manufactured from (painted 0.020 inch galvanized steel)(0.025 inch aluminum) 2-1/16 inches I.D. by 3/8 inch wide top leg by 9/16 inch wide bottom leg.

PART 3 - EXECUTION

3.01 Examination

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

3.02 Installation

- A. Main Tees: Installed 48 inches on center, by direct suspension from existing structure, with not less than 12 gage steel hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center along component length.
- B. Web Covers: Installed on main runners during main runner installation.
- C. Cross Tees:
 - 1. Installed perpendicular to main tees (24)(48) inches on center forming (24 x 48)(48 x 48) inch modules.
 - 2. Installed perpendicular to 24 inch by 48 inch module forming cross tees 24 inches on center forming 24 inch by 24 inch modules.

D. Perimeter Treatment

- 1. Wall angle: Installed on vertical surfaces intersecting suspension system by appropriate method in accordance with industry accepted practice.
- 2. Edge cap: Affixed to main tee and cross tee ends by (screw)(pop rivet) attachments.

3.03 Repair

- A. Remove damaged components, replace with undamaged components. Clean with non-solvent based non-abrasive commercial cleaning solution.
 - 1. Installation to begin only when temperature and humidity conditions closely approximate interior conditions which will exist when area is complete and occupied.
 - 2. 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.

PART 1 - GENERAL

1.01 Scope

Furnish and install the Intaline metal baffle open plenum ceiling system as manufactured and supplied by Chicago Metallic Corporation.

1.02 Related Sections

- A. Section 09 22 26 - Suspension Systems
- B. Section 09 53 00 - Acoustical Ceiling Suspension Assemblies
- C. Section 09 54 00 - Specialty Ceilings
- D. Section 09 58 00 - Integrated Ceiling Assemblies
- E. Section 13 48 00 - Sound, Vibration and Seismic Control
- F. Section 23 00 00 - Heating, Ventilating and Air Conditioning
- H. 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.

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.
- D. Certification
 - 1. Furnish certification of materials and system conforming to specification requirements.
 - 2. Provide written warranty against defective workmanship and materials for a period of ___ year(s) (up to 20 yrs. maximum) from filing notice of completion.

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.

PART 2 - PRODUCTS

2.01 Manufacturers

Intaline metal baffle open plenum ceiling system as manufactured by Chicago Metallic Corporation, 4849 South Austin Avenue, Chicago, Illinois 60638. 1-800-323-7164.

2.02 Components

A. Baffle Panels:

- 1. Manufactured from (0.020 inch steel) (0.032 inch aluminum) nominal (4) (6) (8) (10) inches deep by 144 inches long, with (round) (diagonal V) base. Architect Note: Nominal 4 inch deep panel available in steel with diagonal V base only. Nominal (6) (8) (10) inch deep panels available in aluminum with round base only.
- 2. Finish: (coated with baked-on polyester enamel painted finish on both dies, Color: _____), (Anodized on one side, color _____), (WoodScenes painted color _____).

B. Suspension System Components:

- 1. Main Tees:
 - a. Manufactured from 0.015 inch steel 15/16 inch wide by 1-1/2 inches high by 144 inches long, with factory punched cross tee slots, hanger holes and integral bayonet-style couplings.
 - b. Finish on cap to be (08 Black)(_____).
- 2. Cross Tees:
 - a. Manufactured from 0.015 inch steel 15/16 inch wide by 1-1/2 inches high by 48 inches long with factory punched cross tee slots, hanger holes, and staked-on stab-in end couplings.
 - b. Finish on cap to be (08 Black)(_____).
- 3. Web Covers (optional):
 - a. Manufactured from 0.010 inch steel 2 inches high by 5/16 inches wide by 48 inches long, formed to a "U" Aluminum Steel shape, (with) (without) pre-punched hanger holes.
 - b. Finish on cap to be (08 Black)(_____).
- 4. Wall Angle:
 - a. Manufactured from (0.020 inch steel) (0.025 inch thick aluminum) 3/4 inches wide by 15/16 inches high by 144 inches long with both edges hemmed.
 - b. Finish on cap to be (08 Black)(_____).
- C. Accessories:
 - 1. Suspension Clips: Manufactured from steel with factory applied (white) (black) baked-on enamel paint finish.
 - 2. Alignment Components: Manufactured from clear acrylic.

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 installation.

3.02 Installation

A. Suspension Components:

- 1. Main Tees: Installed 48 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 along component length.
- 2. Web Covers: Installed on main tees during main tee installation.
- 3. Cross Tees: Installed perpendicular to main tees 48 inches on center forming 48 x 48 inch modules.
- 4. Wall Angles: Installed on vertical surfaces intersecting suspension system by appropriate method in accordance with industry accepted practice.

B. Linear Baffle Panels and Accessories:

1. Baffle Panels:

- a. Installed perpendicular or diagonally to main tee component spaced as noted on project drawings, or identical to the baffle panel depth. 6 inch maximum allowable overhang for baffle panels.
- b. Attached with suspension clips to main tees.
- c. Connected with top alignment clip and bottom alignment sleeve.

3.03 Repair

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

Specification

CubeGrid™ Open Plenum Grid

PART 1 - GENERAL

1.01 Section Includes

Modular suspended open plenum ceiling system.

1.02 Related Sections

- A. Section 09 22 26 - Suspension Systems
- B. Section 09 54 00 - Specialty Ceilings
- C. Section 13 42 00 - Building Modules
- D. Section 13 48 00 - Sound, Vibration, and Seismic Control
- E. Section 23 50 00 - Central Heating Equipment
- F. 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.

1.04 Submittals

- A. Product data sheets listing dimensions, load carrying capacity and standards compliance.
- B. 12 inch long samples of Main Tees and Cross Tees with integral couplings.

1.05 Project Conditions

A. Environmental Requirements:

- 1. Verify weather tightness of area receiving suspension system prior to installation.
- 2. Wet trades work to be thoroughly dry and complete prior to 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.

1.06 Maintenance

Furnish additional material equal to _____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturers

Chicago Metallic C1811/C1802/C1804 double web Intermediate duty non-fire rated ceiling suspension system. Installed to form open plenum module size of (12 inches x 12 inches)(24 inches x 24 inches)(48 inches x 48 inches)(____ x ____).

2.02 Suspension System Components

A. Main Tees:

- 1. C1811 - 144 inch long, manufactured from (0.015)(0.020) inch steel 15/16 inch wide by 1-1/2 inches high with factory punched holes only where necessary to achieve tee intersections, hanger wire suspension and integral bayonet-style end couplings.
- 2. Finish: Web and end couplings - baked enamel paint (01 White)(08 Black)(44 Satin Silver Metallic)(Other color _____). Cap - (matching baked enamel color) [Anodized Face Only (14 Chromecoat)(16 Brasscoat)(509 Coppercoat)], (WoodScenes painted color _____).

B. Cross Tees:

- 1. (C1802, 24 inch long) (C1804, 48 inch long) manufactured from 0.015 inch steel 15/16 inch wide by 1-1/2 inch high by with factory punched cross tee slots only where required to achieve grid intersections and integral bayonet-style end couplings.
- 2. Finish: Web and end couplings: baked enamel paint (01 White)(08 Black)(44 Satin Silver Metallic)(Other color _____). Cap: (matching baked enamel color) [Anodized Face Only (14 Chromecoat)(16 Brasscoat)(509 Coppercoat)].

C. Perimeter Treatment Components:

- 1. Angle Moldings: (C3209.08, 1 inch wide x 2 inch high) (38.90.124.xxx, 3/4 inch wide by 15/16 inch high) 15/16 inch face by 144 inches long finished identical to main tees and cross tees.
- 2. Floating Perimeter Trim: Infinity™ by Chicago Metallic. Made from extruded aluminum [(2)(4)(6)(8)(10)(12)] inches deep. Painted on all sides [(to match CubeGrid)(Other painted color _____)].
- 3. Hanger wire: galvanized.

Specification

GraphGrid™ Open Wire Ceiling Panel

PART 1 - GENERAL

1.01 Section Includes

Modular suspended open plenum ceiling system.

1.02 Related Sections

- A. Section 09 22 26 - Suspension Systems
- B. Section 09 54 00 - Specialty Ceilings
- C. Section 13 42 00 - Building Modules
- D. Section 13 48 00 - Sound, Vibration, and Seismic Control
- E. Section 23 50 00 - Central Heating Equipment
- F. 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.

1.04 Submittals

- A. Product data sheets listing dimensions, load carrying capacity and standards compliance.
- B. Samples of panel with chosen cell size and suspension system including main tees and cross tee with integral end couplings.

1.05 Project Conditions

A. Environmental Requirements:

- 1. Verify weather tightness of area receiving suspension system prior to installation.
- 2. Wet trades work to be thoroughly dry and complete prior to 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.

1.06 Maintenance

Furnish additional material equal to _____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturers

Chicago Metallic GraphGrid™ panel and CubeGrid™ double web Intermediate duty non-fire rated ceiling suspension system. Installed to form open plenum module size of 24 inches x 24 inches.

2.02 Suspension System Components

A. Main Tees:

- 1. CubeGrid C1811, 144 inch long, manufactured from 0.015 inch thick steel 15/16 inch wide by 1-1/2 inches high with factory punched holes only where necessary to achieve tee intersections, hanger wire suspension and integral bayonet-style end couplings.
- 2. Finish: Web and end couplings - baked enamel paint (01 White)(08 Black)(44 Satin Silver Metallic)(Other color _____). Cap - (matching baked enamel color) [Anodized Face Only (14 Chromecoat)(16 Brasscoat)(509 Coppercoat)].

B. Cross Tees:

- 1. CubeGrid (C1802, 24 inch long)(C1804, 48 inch long) manufactured from 0.015 inch thick steel 15/16 inch wide by 1-1/2 inch high with factory punched cross tee slots only where required to achieve grid intersections and integral bayonet-style end couplings. Cross tees to include bulb-forward design to minimize gap between cross tee and main tee.
- 2. Finish: Web and end couplings: baked enamel paint (01 White)(08 Black)(44 Satin Silver Metallic)(Other color _____). Cap: (matching baked enamel color) [Anodized Face Only (14 Chromecoat)(16 Brasscoat)(509 Coppercoat)].

C. Perimeter Treatment Components:

- 1. CubeGrid Angle Moldings: (C3209, 1 inch wide x 2 inch high) (38.90.124.xxx, 15/16 inch wide by 15/16 inch high) 3/4 inch face by 144 inch long finished identical to main tees and cross tees.
- 2. Infinity™ perimeter trim: Made from extruded aluminum [(2)(4)(6)(8)(10)(12)] inches deep. Painted on all sides [(to match CubeGrid)(GraphGrid)(Other painted color _____)].

PART 1 - GENERAL

1.01 Scope

Furnish and install the BeamGrid ceiling system as manufactured and supplied by Chicago Metallic Corporation.

1.02 Related Sections

- A. Section 092000 - Plaster and Gypsum Board
- B. Section 095100 - Acoustical Ceilings
- C. Section 096300 - Acoustical Ceiling Suspension Assemblies
- D. Section 095400 - Specialty Ceilings
- E. Section 210000 - Fire Suspension
- F. Section 220000 - Plumbing
- G. Section 230000 - Heating, Ventilating and Air Conditioning
- H. Section 265000 - 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.

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 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.

PART 2 - PRODUCTS

2.01 Manufacturers

Chicago Metallic BeamGrid™ non-rated beam suspension system.

2.02 Beam suspension system components

Finish to be [(Painted with baked enamel finish) (379 Gloss White) (386 Gloss Black) (color _____)] [(Reflective anodized finish) (14 Chromecoat) (16 Brasscoat) (378 Brushed Aluminum)]. (WoodScenes painted finish _____).

A. Main and cross beams:

- 1. Manufactured to a (1 in. x 1 in.)(1 in. x 2 in.)(1 in. x 4 in.)(2 in. x 2 in.)(2 in. x 4 in.)(3 in. x 3 in.)(4 in. x 4 in.) channel shape from 0.024 in. aluminum.
- 2. Manufactured with factory pre-punched slots and holes properly spaced to provide module size: (12 in. x 12 in.)(12 in. x 24 in.)(16 in. x 16 in.)(24 in. x 24 in.)(24 in. x 48 in.)(30 in. x 30 in.)(36 in. x 36 in.)(48 in. x 48 in.).

B. Perimeter treatments:

- 1. Perimeter beam: Manufactured identical to main and cross beams with intersection slots on one side only at inside and outside 90° corners provide 90° corner kits with 45° miters.
- 2. Corner Kit: Manufactured to same profile as main beams from identical metal with 45° miter at appropriate end.
- 3. Wall channel: Manufactured from same material and finish as main and cross beams. [(Painted 360°)(Reflective finish on outer surface only)].
- 4. Wall channel-double: Manufactured from same material and finish as main and cross beams.
- 5. Curved perimeter trim (Infinity™): [(2 in.)(4 in.)] painted [(to match main and cross beams)(color _____)].

C. Suspension:

- 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. Affix hanger/couplers on appropriate centers, as recommended by Chicago Metallic, to main beam components. Suspend main beam components from 12 gauge hanger wire attached to the coupler. Main beams are to be installed on appropriate centers as dictated by module size and component layout. For continuous runs of the main beam components, splice the components together by pop-riveting the coupler to the consecutive main beam components.
- B. Install cross beam components by inserting the attachment tabs located at each end of the component into the appropriate slot on the main beam components.
- C. Complete the system by affixing main and cross beam components to the perimeter components. For free-floating applications, perimeter beam components shall be suspended from 12 gauge wire attached to hanger/couplers affixed to the component in an identical manner as described above for the main beam components. For applications requiring the BeamGrid system to be affixed to a wall or other structure establishing the perimeter of an installation, attach the perimeter beams to the structure, prior to installing main and cross beams, by means of an industry-accepted practice. For free-floating applications, attach the 90° corners, upon completion of field assembly, to appropriate components by means of the hanger/coupler.

3.03 Repair

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

PART 1 - GENERAL

1.1 Related Documents

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

1.01 Section Includes

- A. Open metal mesh ceiling panels
- B. Metal acoustical ceiling suspension systems.
- C. Suspension system accessories and perimeter treatment.

Modular Suspended Open Plenum Ceiling System.

1.02 Related Sections

- A. Section 09 22 26 - Suspension Systems
- B. Section 09 54 00 - Specialty Ceilings
- C. Section 13 42 00 - Building Modules
- D. Section 13 48 00 - Sound, Vibration, and Seismic Control
- E. Section 23 50 00 - Central Heating Equipment
- F. Section 26 50 00 - Lighting

1.03 References

- A. American Society for Testing and Materials (ASTM)
 - 1. A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
 - 2. A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
 - 3. A 100B Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High Strength Low-Alloy with improved Formability.
 - 4. C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
 - 5. C 635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
 - 6. C 636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

1.04 Submittals

- A. Product data sheets listing dimensions, load carrying capacity and standards compliance.
- B. Samples of panel with chosen cell size and suspension system including main tees and cross tee with integral end couplings.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weather tightness of area receiving suspension system prior to installation.
 - 2. Wet trades work to be thoroughly dry and complete prior to 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. The placement of wire mesh panels may affect the distribution of fire suppression systems by delaying or accelerating the distribution of sprinkler discharge toward or away from the source of heat. Designers and installers must consult a fire protection engineer, NFPA 13 or their local codes for guidance where automatic fire suppression systems are present.

1.06 Delivery, Storage and Handling

- A. Store the ceiling panels in cartons in a dry, interior location before installation to avoid damage.
- B. Exercise care when handling and moving cartons and panels so as not to cause damage.

1.06 Maintenance

Furnish additional material equal to _____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturers

Chicago Metallic – MetalScapes™ Wire Mesh Panels
Chicago Metallic – Heavy-duty, hot dipped galvanized suspension, non-fire rated, double web construction system. System of main runners and cross tees to form module size of 24 inches x 24 inches or 24 inches x 48 inches in 15/16 inch (1200 system) with exposed face.

2.02 Suspension System Components

- A. Main Tees:
 - 1. Components are 144 inches long, manufactured from commercial quality galvanized steel with factory punched cross tee slots, hanger holes and hanger wire suspension of not less than 12 gauge, and integral end couplings.
 - 2. Finish: Web and end couplings - baked enamel paint (01 White)(08 Black) (44 Satin Silver Metallic)(Other color _____). Cap - (matching baked enamel color) [Anodized Face Only(14 Chromecoat)(16 Brasscoat)(509 Coppercoat)].
- B. Cross Tees:
 - 1. Components are 48 inches and/or 24 inches long, manufactured from commercial quality galvanized steel installed perpendicular to main runners with

integral bayonet-style end couplings to achieve grid intersections. Cross tees to include bulb-forward design to minimize gap between cross tee and main tee.

- C. Perimeter Treatment Components.
 - 1. Wall Channels: Wall channels are formed from 0.020 inch (electro-galvanized steel) (aluminum) and manufactured to a C-shape, with a 3/4 inch top leg by 1-9/16 inch I.D. and 15/16 inch bottom leg. Length is 144 inches. Finish shall be supplied by manufacturer.
 - 2. Wall Angle: (C3209, 1 inch wide x 2 inch high and 120 inches long). (1430, 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)] inch deep. Painted on all sides [(to match main and cross tees)(Other painted color _____)].
- D. Panels.
 - 1. MetalScapes wire mesh panels (stainless steel), made from .031 min to .162 wire diameter T316 stainless steel to form panels for 24 inch x 24 inch or 24 inch x 48 inch ceiling modules. MetalScapes wire mesh panels (carbon steel) made from .040 min to .765 Cold-Rolled Steel Grade DDS to form panels for 24 inch x 24 inch or 24 inch x 48 inch ceiling modules.

Panel Size (Nominal)	Color	Pattern	Wire Diameter	Lbs. Per Sq. Ft.	Open Area %
24" x 24", 24" x 48"	Stainless steel	Appalachian	.162"	1.21	89%
24" x 24", 24" x 48"	Stainless steel	Alps	0.062"	1.23	52%
24" x 24", 24" x 48"	Stainless steel	Everest	0.093" x 0.031"	1.20	79%
24" x 24", 24" x 48"	Stainless steel	Rockies	0.080" x 0.054"	1.09	52%
24" x 24", 24" x 48"	Stainless steel	Hood	0.080" x 0.047"	1.11	57%
24" x 24", 24" x 48"	Stainless steel	Atlas	0.080" x 0.080"	1.35	51%
24" x 24", 24" x 48"	Stainless steel	Ural	0.162" x 0.162"	1.78	66%
24" x 24", 24" x 48"	Stainless steel	Tyber	.120"	1.90	27%
24" x 24", 24" x 48"	Carbon steel	Aberdeen	0.04"	0.56	44%
24" x 24", 24" x 48"	Carbon steel	Erlanger	0.048"	0.50	62%
24" x 24", 24" x 48"	Carbon steel	Frankfort	0.08"	0.38	70%
24" x 24", 24" x 48"	Carbon steel	Scales	0.082"	0.38	70%
24" x 24", 24" x 48"	Carbon steel	Armor	0.365"	1.00	21%
24" x 24", 24" x 48"	Carbon steel	Lattice	0.08"	0.63	50%

- 2. Finish: Will be baked enamel paint on all sides (01 White) (08 Black) (44 Satin Silver) or (Other color _____). Carbon steel panels only.
- E. Hanger Wire.
 - 1. Hanger wire: 12 gauge galvanized steel.

PART 3—EXECUTION

3.01 Examination

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

3.02 Installation

- A. Main Tees: Installed 48 inches on center, by direct suspension from existing structure, with not less than 12 gauge steel hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center along component length.
- B. Cross Tees.
 - 1. Installed perpendicular to main tees 24 inches on center to form 24 inch x 24 inch modules.
 - 2. Installed perpendicular to module 48 inches on center to form 24 inch x 24 inch modules or 24 inch by 48 inch modules.
- C. Angle / Moldings: Installed on vertical surfaces, intersecting suspension components by appropriate method in accordance with industry accepted practice.
- D. Additional Hanger Wires: Wrapped tightly 3 full turns to structure and components at locations where imposed loads could cause deflection exceeding 1/360 span.
- E. Panel: Lay panels into ceiling module. Panels are directional with wires on panel faces to be in same direction.

3.03 Repair

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

Order Acceptance

Whenever used herein, "Seller" shall refer to Chicago Metallic Corporation and "Purchaser" shall refer to the party ordering or purchasing products ("Products") from Seller.

Seller's price list does not constitute an offer to sell Products listed therein, but is simply provided as a convenience to prospective Purchasers.

Purchaser's order to Seller shall constitute an offer to Seller to purchase Products which offer Seller may accept at its sole discretion. Acceptance shall be by a writing containing these General Conditions of Sale ("Conditions"). Acceptance of Purchaser's order or any part of it by Seller is expressly made conditional on Purchaser's assent to these Conditions. Purchaser may vary these Conditions only with the written consent of Seller. Acceptance of Products by Purchaser or failure of Purchaser to object in writing to these Conditions within ten (10) days following delivery of Products to Purchaser shall constitute Purchaser's assent to these Conditions.

Shipment and Delivery

Seller shall deliver Product F.O.B. place of shipment. Risk of loss to Product shall pass to Purchaser upon delivery to carrier at such place of shipment. Carrier acts as Purchaser's agent. Products shall be shipped as soon as practical, or as requested by Purchaser after order acceptance by Seller. However, delivery dates shall not be of the essence, but shall be regarded as Seller's best approximation of such delivery dates.

Prices of Freight Costs

Unless otherwise indicated, prices shown on Seller's price list are for less than truckload quantities. The minimum truckload quantity is 24,000 pounds. Prices are subject to change without notice and are based on full carton quantities. Prices shall be those in effect at time of shipment of Products.

Seller shall grant Purchaser a freight allowance on all orders of 12,000 pounds or more for a single shipment to a single destination. The allowance shall be based on the lowest rates currently in effect from actual shipping point to destination point or nearest port of export. In no event shall the allowance be greater than the actual freight cost of a specific shipment. Purchaser's request for costlier means of shipment will be honored, but Purchaser shall be liable to Seller for the additional freight expense. Purchaser "will-call" orders at Seller's plant warehouse shall not be entitled to allowance.

All taxes, tariffs, duties or similar charges paid by Seller imposed or levied by any governmental authority in connection with the purchase, shipment, import or export of Products purchased or in connection with the procuring of materials used therein may at Seller's sole option be added to the price of Products so affected. Additional shipping charges for Products paid by Seller such as destination, storage, labor and redelivery and special or extra expenses for handling air freight, bus or other shipments may also, at Seller's sole option, be added to the price of such Products.

Payment

Payment for all Products shall be net cash due and payable in U.S. dollars within thirty (30) days following receipt by Purchaser of shipping documents for such Products by check or bank transfer to a bank account to be designated by Seller. If accounts are paid within ten (10) days following receipt by Purchaser of the corresponding shipping documents, Purchaser shall be entitled to a one percent (1%) discount from the price of Products only.

If, in Seller's sole opinion, the financial condition of the Purchaser so warrants, Seller may require advance payments or satisfactory security. In the event that the Purchaser fails to make such advance payments or furnish such security upon Seller's request, delivery of Products may be suspended without further Seller obligation.

Seller may, at Seller's sole option, require payment by means of an irrevocable letter of credit opened and confirmed by a bank or banks acceptable to Seller and upon terms and conditions acceptable to Seller.

Limited Warranty

Seller warrants to Purchaser that Products will substantially conform in quantity and quality to Purchaser's order, as accepted by Seller, provided, however, that (1) Products are inspected by Purchaser upon arrival at place of destination and any and all nonconformities are noted on the bill of lading and all other delivery documents and are attested to in writing by carrier's representative (2) Purchaser furnishes Seller with written notice of such non-conformities within fifteen (15) days following arrival of non-conforming Products at the place of destination, (3) Purchaser holds nonconforming Products for Seller's inspection (4) non-conformities occurred prior

to delivery by Seller of Products F.O.B. place of shipment, and (5) Purchaser does not alter, repair, use or attempt to alter or repair any non-conforming Products. This limited warranty is Seller's only and exclusive express warranty to Purchaser. Seller disclaims any and all implied warranties including without limitation any implied warranty of merchantability or fitness for a particular purpose.

Purchaser's sole and exclusive remedy against Seller shall be the replacement F.O.B. its plant or site, at Seller's option, of any Products which do not conform to Seller's limited warranty hereunder. No other remedy (including, without limitation, incidental or consequential damages for lost profits, lost sales, injury to persons or property or any other incidental or consequential loss) shall be available to Purchaser.

Purchaser agrees to include in all contracts between Purchaser and subsequent owners or users of Products, and to bring to the attention of all Purchaser's customers of Products, the following warranty disclaimer: Chicago Metallic Corporation disclaims any and all warranties expressed or implied, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. Purchaser shall be excluded on behalf of Seller all remedies for damage or injury to Products persons or property. In the event that Purchaser fails to comply with the foregoing obligations, Purchaser shall indemnify Seller for any liability resulting from such non-compliance and shall otherwise hold Seller harmless.

Returns

In order to return any Products to Seller, Purchaser must first obtain prior authorization for products eligible for return, and receive a Return Goods Authorization number from Seller's home office. All authorized returns are subject to a 20% restocking charge. Seller will only issue credit for Service Level "0" material received at the designated company facility with the Return Goods Authorization appearing on the material, and after being inspected and determined by Seller to be in resalable condition. Purchaser is solely responsible for arranging and prepaying for all return freight. Seller will not be responsible for any damage in transit on material returned at customer's request, and will not file freight claims on such damaged material. When these terms are met, seller will issue appropriate material credit less the restocking charge.

Default, Termination and Suspension of Delivery

Seller reserves the right, among other remedies, either to cancel Purchaser's order or suspend further deliveries of Products thereunder in the event that (1) Purchaser fails to pay for any one shipment of Products when payment for such shipment becomes due; (2) Purchaser fails to make any advance payments or satisfactory security demanded by Seller pursuant to paragraph two of PAYMENTS section above; or (3) Purchaser fails or refuses to accept any delivery of Products ordered from Seller.

Delivery of Products may be suspended in whole or in part in case of any event beyond Seller's control, including, but not limited to, explosion, fire, shortage of fuel, power or raw materials flood strike lockout, injunction, riot, insurrection, war, national emergency, government act, or act of God.

Miscellaneous

No failure or delay on the part of Seller in exercising any right, power or privilege hereunder shall operate as a waiver thereof or of any other right, power or privilege hereunder nor shall any single or partial exercise of any such right power or privilege preclude any other right, power or privilege. The rights or remedies of Seller hereunder are cumulative and not exclusive of any rights or remedies which it may otherwise have.

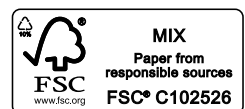
The parties hereto may correct stenographic and clerical errors without liability.

Purchaser may not assign the order without the express written consent of Seller.

All notices to be given hereunder by either party to the other party shall be dispatched by certified or registered mail return receipt requested addressed to the last known post office address of such other party. Any such notice shall be deemed received within five (5) days following any such dispatch if mailed from within the United States of America and ten (10) days if mailed from outside the United States of America. Either party may change its address by notice to the other party.

These Conditions shall be governed by and interpreted in accordance with the laws of the State of Illinois, United States of America, and all disputes hereunder that cannot be amicably resolved by the parties thereto must be settled in a court of competent jurisdiction within the State of Illinois, United States of America.

The provisions of these Conditions shall be severable one from the other so that should any provision be held legally unenforceable by a court of competent jurisdiction, the remaining provisions shall remain in effect.



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