

General Applications

G GRID







9/16" Exposed **15**



9/16" Bolt Slot **// 25**

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Up-to-date product information for **General Applications** products is available at chicagometallic.com in the Literature Section of each applicable system.

Other Chicago Metallic Suspension Systems

Refer to the **Special Applications** product guide for suspension systems for harsh and controlled environments as well as HRCmax[™] systems with 81% recycled contgent for LEED/ GREEN buildings.

Refer to the **Drywall Applications** product guide for suspension systems for flat and curved drywall as well as Span*Fast*® time saving system for corridors and smaller spaces.







Non-Fire Rated / Fire Rated Double Web Direct Hung Exposed

Exposed 200 Snap-Grid and 250 Fire-Front Snap-Grid tee systems are designed for use with lay-in acoustical panels. These systems, with a 15/16" face, are extremely versatile and offer a wide range of creative ceiling options.

Applications

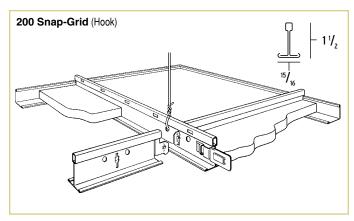
Can be used with standard lay-in panels, revealed edge, concealed and routed geometric panels. Economical, but quality systems.

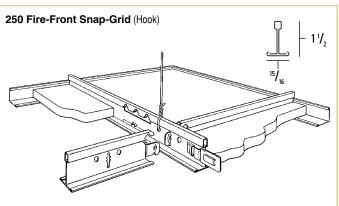
Features / Benefits

- Designed for a wide variety of lay-in panels / Provides full ceiling accessibility.
- Available in a wide range of painted and reflective colors
 / Many design possibilities as panel can be matched or contrasted. Complete interior concept.
- Versatility in modular configurations / Offers additional design possibilities.
- Sustainability / Minimum 25% recycled content, 100% locally recyclable.
- Flame Spread Rating / Chicago Metallic suspension systems meet a Class-A flame spread rating.

Installation Features / Benefits

- Hook cross tees / Allow instant access to plenums overhead.
- Butt cut cross tees / Butt cut cross tees allow ceiling panels to lay flat in suspension system, providing a better appearance.
- Available in a fire rated system / Expansion reliefs are built into each main tee to compensate for elongation of the materials during fire.
- Double web construction / Increased strength for greater versatility and durability.
- Accommodates standard NEMA Type-G lights and air diffusers / Allows for integration of lighting and air supply without creating additional labor.





IMPORTANT! A Metallurgist should be consulted regarding the suitability of this product for the environmental conditions in which it is being installed.

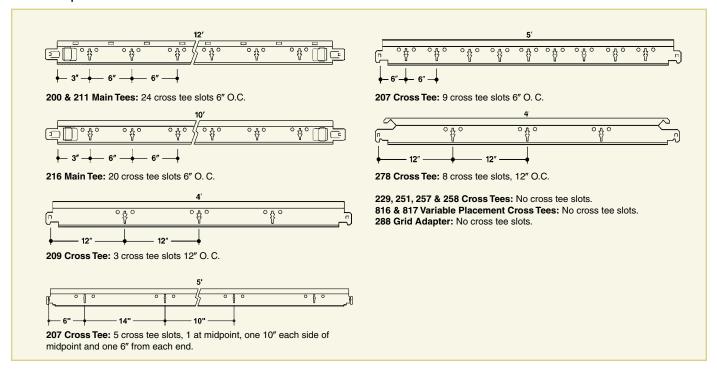


Component Slotting and Hanger Hole Placement

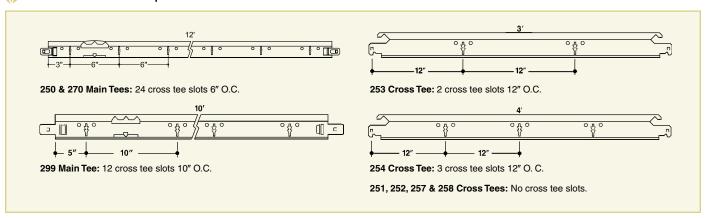
All overall lengths shown are nominal dimensions.

Hanger Holes: MAIN TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots. CROSS TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots, in all cross tees having slots.

200 Snap-Grid™ 15/16"

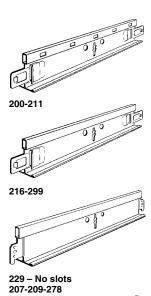


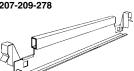
250 Fire-Front Snap-Grid™ 15/16″

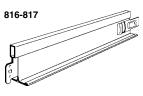


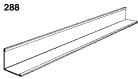
Components

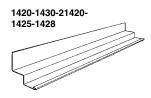
200 Snap-Grid™ 15/16"

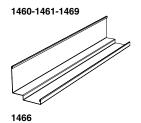












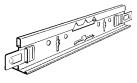
Product		Dimensions		ASTM		Per Carton		Service
Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
Main Tees								
211.01H	12′	11/2"	¹⁵ / ₁₆ "	ID	300	25	77	0
200.01H	12′	11/2"	¹⁵ / ₁₆ "	HD	300	25	89	0
216.01H	10′	1 ¹ / ₂ "	¹⁵ / ₁₆ "	ID	250	25	62	1
299.01H*	10′	11/2"	¹⁵ / ₁₆ "	ID	250	25	65	1
Used in 20" and 30" mod	dules.							
Cross Tees - Ho	ook - Butt C	ut						
229.01H	2′	1 ¹ / ₂ "	¹⁵ / ₁₆ "	_	150	75	26	0
209.01H	4′	11/2"	¹⁵ / ₁₆ "	_	200	50	35	0
207.01H	5′	11/2"	¹⁵ / ₁₆ "	_	250	50	73	1
278.01H	8′	11/2"	¹⁵ / ₁₆ "	_	200	25	49	1
Variable Placer	nent Cross	Tees — To	support	acous	tical ma	terial only		
816.01H	2′	11/8"	¹⁵ / ₁₆ "	_	80	40	15	2
817.01H	4′	11/8"	¹⁵ / ₁₆ "	_	160	40	30	2
Grid Adapter –	-To change	main tee d	irection	90°				
288.01H	9"	11/2"	¹⁵ / ₁₆ "	_	_	50	10	1
Wall Angles								
1420.01	12	' x ¹⁵ / ₁₆ " x ¹⁵ /	' " 16	_	504	42	69	0
1430.01	1	2' x ⁷ / ₈ " x ⁷ / ₈	"	_	360	30	49	0
21420.01	12	2′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	' " 16	_	300	25	41	0
1425.01		12′ x 2″ x 2″		_	240	20	82	0
1428.01		12′ x 1″ x 2″	,	_	240	20	54	0
Wall Moldings								
1460.01	10′ x ³	3/ ₄ " x ³ / ₈ " x ³ / ₈	" x ³ / ₄ "	_	400	40	64	0
1461.01		3/ ₄ " x 3/ ₄ " x 3/ ₄	· · ·	_	400	40	90	1
1466.01		³ / ₄ " x ³ / ₄ " x ¹ / ₄ '		_	240	20	61	1
1469.01		16" X ³ / ₈ " X ³ / ₈	-	_	400	40	77	1
Hanger Wire	<u> </u>	0 .0						
	101	traight bundl	lI				50	0

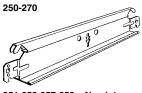


Components

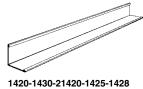


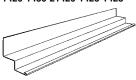
♦ 250 Fire Front Snap-Grid™ 15/16"





251-252-257-258 - No slots 253-254





1460-1461-1469 1466

Product		Dimensions		ASTM		Per Carton		Service
Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
Main Tees								
250.01H	12′	11/2"	¹⁵ / ₁₆ "	ID	300	25	76	0
270.01H	12′	11/2"	¹⁵ / ₁₆ "	HD	300	25	91	1
Cross Tees - Ho	ook - Butt C	ut						
251.01H	1′	11/2"	¹⁵ / ₁₆ "	-	100	100	22	1
252.01H	2′	11/2"	¹⁵ / ₁₆ "	-	150	75	35	0
253.01H	3′	11/2"	¹⁵ / ₁₆ "	_	150	50	34	1
254.01H	4′	11/2"	¹⁵ / ₁₆ "	-	200	50	47	0
257.01H	20"	11/2"	¹⁵ / ₁₆ "	-	125	75	28	1
258.01H	30"	11/2"	¹⁵ / ₁₆ "	-	125	50	30	1
Wall Angles								
1420.01	12	′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	16	_	504	42	69	0
1430.01	1	2' x ⁷ / ₈ " x ⁷ / ₈	"	_	360	30	49	0
21420.01	12	' x ¹⁵ / ₁₆ " x ¹⁵ /	" 16	_	300	25	41	0
1425.01		12′ x 2″ x 2″		_	240	20	82	0
1428.01		12′ x 1″ x 2″		_	240	20	54	0
Wall Moldings								
1460.01	10′ x ³	3/ ₄ " x ³ / ₈ " x ³ / ₈	" x ³ / ₄ "	_	400	40	64	0
1461.01	10′ x ³	3/ ₄ " x 3/ ₄ " x 3/ ₄	″ x ³ / ₄ ″	_	400	40	90	1
1466.01	12′ x 1	³ / ₄ " x ³ / ₄ " x ¹ / ₄ "	x 1 ¹ / ₄ "	-	240	20	61	1
1469.01	10′ x ⁹ /	₁₆ " x ³ / ₈ " x ³ / ₈ "	x 15/16"	-	400	40	77	1
Hanger Wire								
96CTL144	12' - st	traight bundl	ed	_	_	_	50	0

Component Performance Data

Component Load Test Data (based on 1/360 span deflection)

200 Snap-Grid

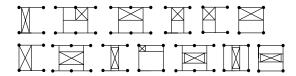
ALLOWABLE LOAD per ASTM C 635 •

					Н	anger S	pacing			
Main Tee	Length				4′			5′	6′	
216	10′				6.0	4.0				
299	10′				ID			6.0	4.0	
211	12'				6.0	4.0				
200	12'				8.9	5.6				
Cross Tee	Length	1′	20"	2′	30"	3′	4′	5′	6′	8′
229	2′			32.5▲						
209	4′						9.1			
207	5′							8.5		
278	8′									1.8

To convert data into lb/ft², divide on center spacing of component into lb/ft.

Non-Fire Rated Assemblies

Hanger Positions for Non-Fire Rated Situations This illustrates hanger positions for single fixtures in a field.



Provide extra hangers for tandem fixtures.

250 Fire-Front Snap-Grid

ALLOWABLE LOAD per ASTM C 635 *

					Н	langer S	pacing			
Main Tee	Lengt	h			4′			5′		6′
250	12'				ID			6.0	4.0	
270	12'				HD			8.9		5.6
Cross Tee	Length	1′	20"	2′	30"	3′	4′	5′	6′	8′
252	2′			41.0▲						
251*	12"	_								
257*	20"		90.0							
258*	30"				57.4					
253	3′					34.7				
254	4′						14.1			

To convert data into lb/ft², divide on center spacing of component into lb/ft.

UL® Fire Rated Assemblies

floor-ceiling type 250
A202, A210, A211, A212, D203, D205, D209, D215, D216, D218, G007, G008, G022, G036, G201, G202, G204, G208, G209, G210, G211, G213, G214, G215, G216, G217, G218, G222, G227, G228, G229, G231, G234, G236, G241, G242, G243, G244, G248, G250, G255, G256, G258, G259, J201, L005, L006, L201, L202, L206, L208, L209, L210, L211, L212

roof-ceiling type 250 P201, P202, P203, P204, P206, P207, P210, P211, P213, P214, P215, P216, P217, P219, P225, P227, P228, P229, P230, P231, P235, P237, P238, P239, P241, P242, P244, P245, P246, P250, P251, P253, P255, P257, P259, P260, P261, P262, P264

Hanger Positions for Fire Rated Situations

Fixture weight based on single fixtures only and are covered in the table. Refer to specific design numbers for allowable number of fixtures per square footage of ceiling area.

Light Fixture Load Test Data (based on 1/360 span deflection)

LIGHT FIXTURES MAIN & CROSS TEES - ALLOWABLE FIXTURE WT. - LBS.

		200 Snap-Grid	l	250 Fire-Front	Snap-Grid
	200	211	299	250	270
Dimensions	207	209	207	254	254
1' x 4'	32.4	56.4		55.6	67.6
2' x 2'	29.2	34.8		49.6	52.8
2' x 4'	40.8	47.2		64.0▲	76.0▲
2' x 5'	40.8				
3' x 3'	63.0▲				
20" x 48"			37.6		
20" x 60"			37.6		

[▲] Limited by safety factor of 2.



[▲] Limited by safety factor of 2.

^{*} Hanger wire required at midpoint of tee.

[▲] Limited by safety factor of 2.

Specification Data

suspension ty	ре	200 Snap-Grid	250 Fire-Front Snap-Grid
material	body HD Galvanized	•	•
_	сар	galvanized	galvanized
size	width	15/16"	15/16"
	height	1 1/2"	1 1/2"
fire	fire rated¹		•
performance	heavy duty per ASTM C 635	•	•
	intermediate duty per ASTM C 635	•	•
_	demountable	•	•
seismic	zones / categories	1, 2 / A, B, C	1, 2 / A, B, C
warranty	40 year limited	•	•
sustainability	Minimum 25% recycled content, 100% locally recyclable, global/regional manufacture	•	•

Palletization

Product Number	Cartons Per Pallet	Weight Per Pallet	LF Per Pallet	Product Number	Product Length	Cartons Per Pallet	Weight Per Pallet	LF Per Pallet
Main Tees				1 Ft. Cross Tee				
200.01H	28	2,492	8,400	251.01H		50	1,200	5,000
211.01H	28	2,156	8,400	30 In. Cross Te	e			
216.01H	28	1,736	7,000	258.01H	Pa	ckaged To C	rder	
250.01H	28	2,156	8,400	20 In. Cross Te	9			
270.01H	28	2,604	8,400	257.01H	Pa	ckaged To C	rder	
299.01H	28	1,820	7,000					
8 Ft. Cross Tee				Wall Angles	/ Molding	js		
278.01H	28	1,372	5,600	Angles				
5 Ft. Cross Tee				1420.01	12	30	2,070	15,120
207.01H	30	2,310	7,500	1425.01	12	30	2,460	7,200
4 Ft. Cross Tees				1428.01	12	30	1,620	7,200
209.01H	40	1,960	8,000	1430.01	12	40	1,960	14,400
254.01H	40	1,880	6,400	21420.01	12	30	1,230	9,000
3 Ft. Cross Tee				Shadow Moldin	ngs			
253.01H		Packaged To Order		1460.01	10	32	2,048	12,800
2 Ft. Cross Tees				1461.01	10	32	2,880	12,800
229.01H	50	1,400	7,500	1466.01	12	20	1,220	4,800
252.01H	50	1,750	7,500	1469.01	10	Pa	ckaged To C	rder

Seismic 1200, 1200 and 1250 Fire-Front 15/16"

Non-Fire Rated / Fire Rated Double Web Direct Hung Exposed

These systems are designed for use with lay-in acoustical panels. These systems, with a 15/16" face, are extremely versatile and offer a wide range of creative ceiling options.

Applications

Use with standard lay-in panels, revealed edge, concealed and routed geometric panels. Economical yet quality systems which can also be used in seismic installations.

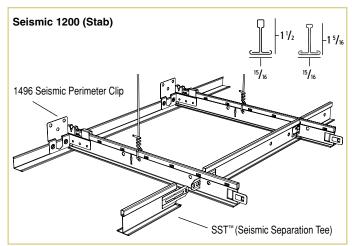
Features / Benefits

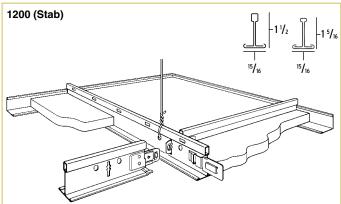
- Designed for a wide variety of lay-in panels / Provides full ceiling accessibility.
- Available in a wide range of painted and reflective colors
 / Many design possibilities as panel can be matched or contrasted. Total interior concept.
- Versatility in modular configurations / Offers additional design possibilities.
- Sustainability / Minimum 25% recycled content, 100% locally recyclable.
- Flame Spread Rating / Chicago Metallic suspension systems meet a Class-A flame spread rating.

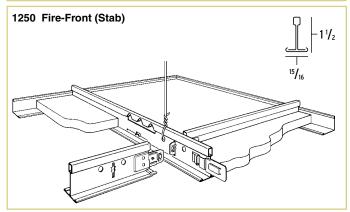
Installation Features / Benefits

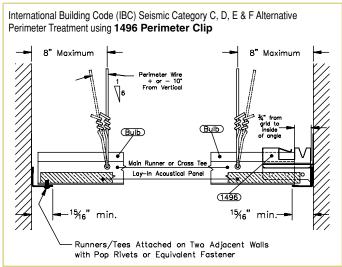
- Stab-in cross tees / Tees cantilever during installation and will not fall out, making for an easier installation. Protects against lateral pull-out.
- Cross tees feature a stepped end design / Stepped end cross tees provide additional support.
- Cross tees fully integrate with all 200 System main and cross tees / This compatibility allows for choice of either hook or stab cross tees.
- Meets seismic requirements / Stab cross tees protect against lateral pull out. Compliant with worldwide seismic requirements, including IBC.
- QuickClick® end clips / Quick, easy tee installation with an audible "click" signalling firm engagement.
- Available in a fire rated system / Expansion reliefs are built into each main tee to compensate for elongation of the materials during fire.
- Double web construction / Increased strength for greater versatility and durability.
- Seismic Perimeter Clip (1200 System Only) / Allows for a visually appealing ceiling with the use of a 15/16" angle in seismic zones D, E and F.
- Accomodates standard NEMA Type-G lights and air diffusers / Allows for integration of lighting and air supply without creating additional labor.

IMPORTANT! A Metallurgist should be consulted regarding the suitability of this product for the environmental conditions in which it is being installed.









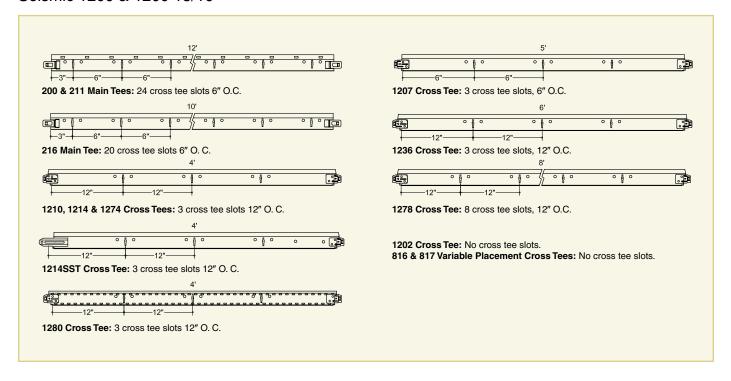


Component Slotting and Hanger Hole Placement

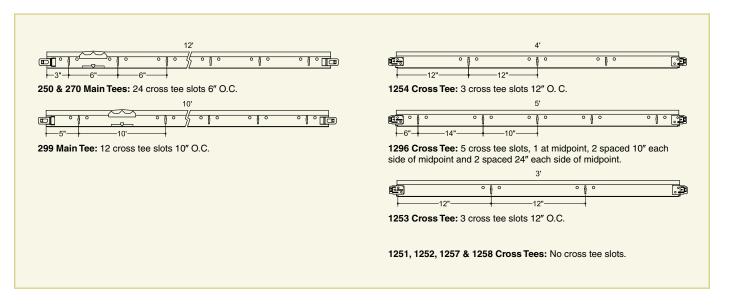
All overall lengths shown are nominal dimensions.

Hanger Holes: MAIN TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots. CROSS TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots, in all cross tees having slots.

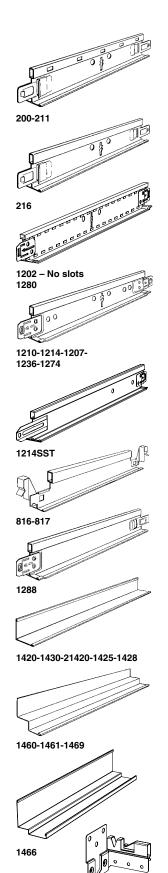
Seismic 1200 & 1200 15/16"



1250 Fire-Front 15/16"



Components Seismic 1200 & 1200 15/16"



Product		Dimensions	1	ASTM		Per Carton		Service
Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
Main Tees								
211.01H	12′	11/2"	¹⁵ / ₁₆ "	ID	300	25	77	0
200.01H	12′	11/2"	¹⁵ / ₁₆ "	HD	300	25	89	0
216.01H	10′	11/2"	¹⁵ / ₁₆ "	ID	250	25	62	1
Cross Tees - Sta	b - Overid	le						
1202.01H	2′	1 ⁵ / ₁₆ "	¹⁵ / ₁₆ "	-	150	75	24	0
1210.01H Quick-	Click° 4′	11/2"	¹⁵ / ₁₆ "	_	200	50	34	0
1214.01H Quick-	Click° 4′	11/2"	¹⁵ / ₁₆ "	-	200	50	45	0
1214.01SST	4′	1 ¹ / ₂ "	¹⁵ / ₁₆ "	-	200	50	46	0
1274.01H*	4′	11/2"	¹⁵ / ₁₆ "	-	200	50	61	0
1280.01H	4′	11/2"	¹⁵ / ₁₆ "	-	200	50	33	0
1207.01H	5′	1 ¹ / ₂ "	¹⁵ / ₁₆ "	_	250	50	73	1
1236.01H	6′	11/2"	¹⁵ / ₁₆ "	_	150	25	37	1
1278.01H	8′	11/2"	¹⁵ / ₁₆ "	_	200	25	46	1

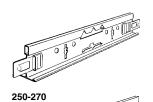
^{*}Used to support NEMA Type G light fixture.

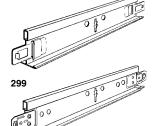
Variable Placem	ent Cross	Tees — To s	upport a	acous	tical mat	erial only			
816.01H	2′	11/8"	¹⁵ / ₁₆ "	_	80	40	21	2	
817.01H	4′	1 1/8"	¹⁵ / ₁₆ "	_	160	40	40	2	
Grid Adapter —	To change	e main tee di	rection	90°					
1288.01H	9″	11/2"	¹⁵ / ₁₆ "	_	_	50	10	1	
Wall Angles									
1420.01	12	2′ x ¹⁵ / ₁₆ ″ x ¹⁵ / ₁	6 "	_	504	42	69	0	
1430.01		12′ x ⁷ / ₈ ″ x ⁷ / ₈ ″	•	_	360	30	52	0	
21420.01	12	2' x ¹⁵ / ₁₆ " x ¹⁵ / ₁	6 "	_	300	25	41	0	
1425.01		12′ x 2″ x 2″		_	240	20	82	0	
1428.01		12′ x 1″ x 2″		_	240	20	54	0	
Wall Moldings									
1460.01	10′ x	³ / ₄ " x ³ / ₈ " x ³ / ₈ "	′ x ³ / ₄ ″	_	400	40	64	0	
1461.01	10′ x	³ / ₄ " x ³ / ₄ " x ³ / ₄ "	′ x ³ / ₄ ″	_	400	40	90	1	
1466.01	12′ x 1	1 ³ / ₄ " x ³ / ₄ " x ¹ / ₄ "	x 1 ¹ / ₄ "	_	240	20	61	1	
1469.01	10′ x ⁹ /	/ ₁₆ " x ³ / ₈ " x ³ / ₈ "	x 15/16"	_	400	40	77	1	
Seismic Perime	ter Clip - F	or use with	1280 Sy	stem	in Catego	ory C, D, E	and F insta	Illations	

Seismic Perime	ter Clip - Fo	or use with ¹	1280 Sy	stem i	n Categ	ory C, D, E	and F insta	Illations
1496.00	_	_	_	_	_	100	10	0
Hanger Wire								
96CTL144	12' - st	raight bundle	ed	_	_	_	50	0
Push Rivets Fas	steners** –	- For use wi	th SST	4′ Cros	ss Tees			
460.08	_	_	_	_	_	65	0.1	0

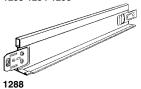
[&]quot;Included with SST. Part No. 460.08 is for additional fasteners that may be ordered separately if required.

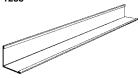
Components





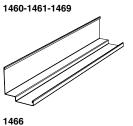
1251-1252-1257-1258 - No slots 1253-1254-1296





1420-1430-21420-1425-1428





Product		Dimensions		ASTM		Per Carton		Service
Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
Main Tees								
250.01H	12′	11/2"	¹⁵ / ₁₆ "	ID	300	25	76	0
270.01H	12′	11/2"	¹⁵ / ₁₆ "	HD	300	25	91	0
299.01H*	10′	11/2"	¹⁵ / ₁₆ "	ID	250	25	65	1
Used in 20" and 30" mo	dules.							
Cross Tees - St	ab - Overid	е						
1257.01H	20"	11/2"	¹⁵ / ₁₆ "	_	125	75	30	1
1258.01H	30"	11/2"	¹⁵ / ₁₆ "	_	125	50	29	2
1251.01H	1′	11/2"	¹⁵ / ₁₆ "	-	100	100	23	0
1252.01H	2′	11/2"	¹⁵ / ₁₆ "	-	150	75	35	0
1253.01H	3′	11/2"	¹⁵ / ₁₆ "	-	150	50	36	1
1254.01H	4′	11/2"	¹⁵ / ₁₆ "	-	200	50	44	0
1296.01H	5′	11/2"	¹⁵ / ₁₆ "	-	250	50	57	1
Grid Adapter –	-To change	main tee d	lirection	90°				
1288.01H	9"	11/2"	¹⁵ / ₁₆ "	-	-	50	10	1
Wall Angles								
1420.01	12	′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	/ ₁₆ "	-	504	42	69	0
1430.01	1	2′ x ⁷ / ₈ ″ x ⁷ / ₈	"	-	360	30	52	0
21420.01	12	′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	/ ₁₆ "	-	300	25	41	0
1425.01		12′ x 2″ x 2′	,	-	240	20	82	0
1428.01		12′ x 1″ x 2′	,	_	240	20	54	0
Wall Moldings								
1460.01	10′ x ³	3/4" x 3/8" x 3/8	3" x 3/4"	-	400	40	64	0
1461.01	10′ x ³	3/ ₄ " x ³ / ₄ " x ³ / ₄	₄ " x ³ / ₄ "	-	400	40	90	1
1466.01	12′ x 1	³ / ₄ " x ³ / ₄ " x ¹ / ₄	" x 1 ¹ / ₄ "	-	240	20	61	1
1469.01	10′ x ⁹ /	₁₆ " x ³ / ₈ " x ³ / ₈	" x ¹⁵ / ₁₆ "	-	400	40	77	1
Hanger Wire								
96CTL144	12' - st	traight bund	led	_	_	_	50	0
	12' - st	traight bund	led	_	_	_	50	0

Component Performance Data

Component Load Test Data (based on 1/360 span deflection)

Seismic 1200 & 1200

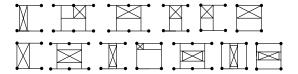
ALLOWABLE LOAD per ASTM C 635 *

					Hanger Spac	ing		
Main Tee	Length			4′		5′	6′	
216	10′			ID		6.0	4.0	
211	12'			ID		6.0	4.0	
200	12′			HD		8.9	5.6	
Cross Tee	Length	1′	2′	3′	4′	5′	6′	8′
1202	2′		22.8▲					
1210	4′				9.3			
1214	4′				14.0			
1214SS	T 4′				14.0			
1274	4′				17.0			
1280	4′				6.9			
1207	5′					8.5		
1236	6′						_	
1278	8′							1.8

[■]To convert data into lb/ft², divide on center spacing of component into lb/ft.

Non-Fire Rated Assemblies

Hanger Positions for Non-Fire Rated Situations This illustrates hanger positions for single fixtures in a field.



Provide extra hangers for tandem fixtures.

1250 Fire-Front

ALLOWABLE LOAD per ASTM C 635 *

			Hanger Spacing					
Main Tee	Length			4′		5′		6′
299	10′			ID		6.0		4.0
250	12′			ID		6.0		4.0
270	12′			HD		8.9		5.6
Cross Tee	Length	1′	2′	3′	4′	5′	6′	8′
1251	12"	_						
1252	2′		40.5▲					
1253	3′			29.3				
1254	4′				14.0			
1296	5′					7.0		
					,			

To convert data into lb/ft², divide on center spacing of component into lb/ft.

UL® Fire Rated Assemblies

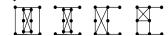
floor-ceiling type 1250

A202, A210, A211, A212, D203, D205, D209, D215, D216, D218, G007, G008, G022, G036, G201, G202, G204, G208, G209, G210, G211, G213, G214, G215, G216, G217, G218, G222, G227, G228, G229, G231, G234, G236, G241, G242, G243, G244, G248, G250, G255, G256, G258, G259, J201, L005, L006, L201, L202, L206, L208, L209, L210, L211, L212

roof-ceiling type 1250

P201, P202, P203, P204, P206, P207, P210, P211, P213, P214, P215, P216, P217, P219, P225, P227, P228, P229, P230, P231, P235, P237, P238, P239, P241, P242, P244, P245, P246, P250, P251, P253, P255, P257, P259, P260, P261, P262, P264

Hanger Positions for Fire Rated Situations



Fixture weight based on single fixtures only and are covered in the table. Refer to specific design numbers for allowable number of fixtures per square footage of ceiling area.

Light Fixture Load Test Data (based on 1/360 span deflection)

LIGHT FIXTURES MAIN & CROSS TEES - ALLOWABLE FIXTURE WT. – LBS.

	1200 Seismic			1250 Fire-Front Seismic			
	211	211	250	270	270		
Dimensions	1210		1254	1254	1274		
1' x 4'	56.4	56.4	55.6	67.6	70.8		
2′ x 2′	34.8	34.8	49.6	52.8	60.4		
2' x 4'	47.2	47.2	64.0▲	76.0▲	88.8		

[▲] Limited by safety factor of 2.



[▲] Limited by safety factor of 2.

[▲] Limited by safety factor of 2.

Specification Data

suspension ty	ре	Seismic 1200 & 1200	1250 Fire-Front
material	body HD Galvanized	•	•
_	сар	galvanized	galvanized
size	width	15/16"	15/16"
_	height	1 1/2" / 1 5/16"	1 1/2"
fire	fire rated ¹		•
performance	heavy duty per ASTM C 635	•	
_	intermediate duty per ASTM C 635		•
	demountable		
seismic	zones / categories	3, 4 / D, E, F	3, 4 / D, E, F
warranty	40 year limited	•	•
sustainability	Minimum 25% recycled content, 100% locally recyclable, global/regional manufacture	•	•

^{1 -} Traditional grid products have a Class A approved, factory painted, baked-on finish.

Palletization

Product Number	Cartons Per Pallet	Weight Per Pallet	LF Per Pallet	Product Number		Cartons Per Pallet		leight r Pallet	LF Per Pallet
Main Tees				2 Ft. Cross T	Гее				
200.01H	28	2,492	8,400	1202.01H		50	1	,200	7,500
211.01H	28	2,156	8,400	1252.01H		50	1	,750	7,500
216.01H	28	1,736	7,000	1 Ft. Cross 7	Гее				
250.01H	28	2,128	8,400	1251.01H		50	1	,150	5,000
270.01H	28	2,548	8,400	Misc Cross	Tees			<u>, </u>	<u> </u>
299.01H	28	1,820	7,000	1257.01H		50	1	,500	6,250
8 Ft. Cross Tee				1258.01H		40		,160	5,000
1278.01H	28	1,288	5,600	-				<u>, </u>	<u> </u>
6 Ft. Cross Tee									
1236.01H	28	1,036	4,200	Product Number	Length	Cartons Per Palle		Weight Per Pallet	LF Per Pallet
5 Ft. Cross Tee					-		. ,	i ei i allet	i di i allet
1207.01H	30	2,175	7,500	Wall Angl	es / M	oldings			
1296.01H	30	1,710	7,500	Angles	10			0.070	45.400
4 Ft. Cross Tees		·	·	1420.01	12	30		2,070	15,120
1210.01H	40	1.360	8,000	1425.01	12	30		2,460	7,200
1214.01H	40	1.800	8,000	1428.01	12	30		1,620	7,200
1214.01SST	40	1,840	8,000	1430.01	12	40		1,960	14,400
1274.01H	40	2,440	8,000	21420.01	12	30		1,230	9,000
		· · · · · · · · · · · · · · · · · · ·		Shadow Mo	ldings				
		· · · · · · · · · · · · · · · · · · ·		1460.01		10	32	2,048	12,800
		· · · · · · · · · · · · · · · · · · ·		1461.01		10	32	2,880	12,800
		1,700	0,000	1466.01		12	20	1,220	4,800
1253.01H	Pa	ackaged To Order		1469.01		10	P	ackaged To C	rder
1280.01H 1215.01H 1254.01H 3 Ft. Cross Tee 1253.01H	40 40 40	1,320 1,760 1,760 ackaged To Order	8,000 8,000 8,000	1460.01 1461.01 1466.01		10	32 20	_ _ a	2,880 1,220

Non-Fire Rated / Fire Rated Double Web Direct Hung Exposed

4000 Tempra and fire rated 4050 Tempra systems are exposed with a narrow face that accentuates a ceiling design with its subtle, crisp, clean lines. These sytems minimize the appearance of the ceiling grid, while emphasizing the aesthetic qualities of the ceiling design.

Applications

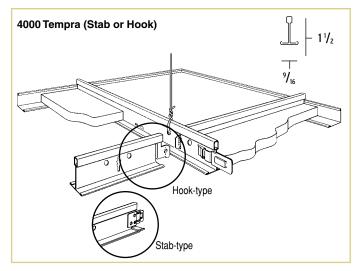
Can be used as an alternative to standard lay-in systems, revealed systems or concealed systems. Tempra works exceptionally well with the geometric shapes and patterns of routed panels.

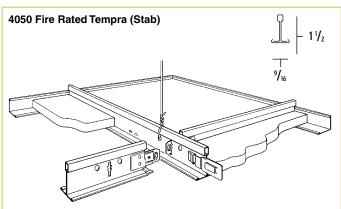
Features / Benefits

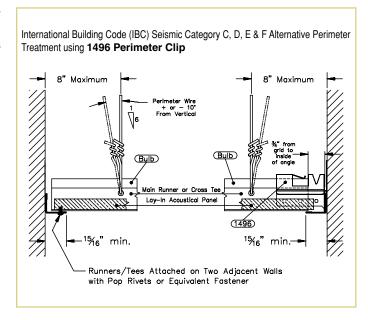
- 9/16" narrow capped face / Allows for more of the ceiling panel and less of the ceiling grid to be visible, providing a monolithic look.
- Designed for standard lay-in and reveal-edge panels /
 Provides full ceiling accessibility. Panels are readily available,
 economical and easy to install.
- Wide range of possible modular configurations / Offers additional design possibilities.
- Available in a wide range of painted and reflective colors
 / Many design possibilities as panel can be matched or contrasted. Total interior concept.
- Sustainability / Minimum 25% recycled content, 100% locally recyclable.
- Flame Spread Rating / Chicago Metallic suspension systems meet a Class-A flame spread rating.

Installation Features / Benefits

- Panel self-centering mechanisms / The built-in self-centering device keeps lay-in panels perfectly aligned to hide panel edges.
- Stab-in cross tees / Tees cantilever during installation and will not fall out, making for an easier installation. Protects against lateral pull-out.
- Butt cut cross tees (4000 system only) / Butt cut cross tees allow ceiling panels to lay flat in suspension system, providing a better appearance.
- QuickClick® end clips / Quick, easy tee installation with an audible "click" signalling firm engagement.
- Standard inverted T, suspended ceiling system / Installs easily, like standard exposed systems.
- Double web construction / Increased strength for better durability.
- Seismic Perimeter Clip (4000 System Only) / Allows for a visually appealing ceiling with the use of a 15/16" angle in seismic zones C, D, E and F.
- Accomodates standard NEMA Type-G lights and air diffusers / Allows for integration of lighting and air supply without creating additional labor.







IMPORTANT! A Metallurgist should be consulted regarding the suitability of this product for the environmental conditions in which it is being installed.

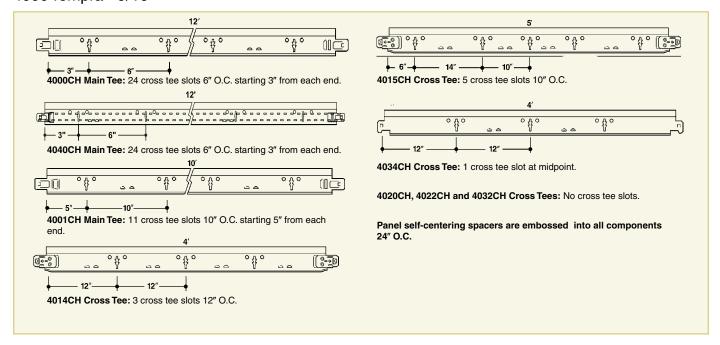


Component Slotting and Hanger Hole Placement

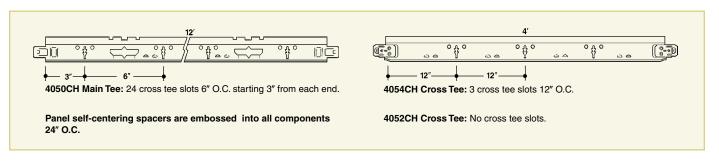
All overall lengths shown are nominal dimensions.

Hanger Holes: MAIN TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots. CROSS TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots, in all cross tees having slots.

4000 Tempra™ 9/16"

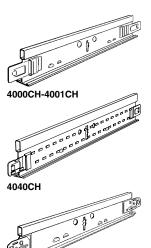


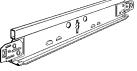
4050 Tempra™ 9/16" Fire-Rated



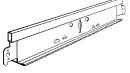
Components

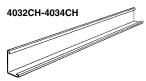
4000 Tempra[™] 9/16"



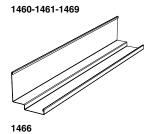


4020CH-4022CH (No slots) 4014CH-4015CH









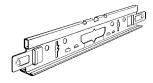
Product		Dimensions		ASTM		Per Carton		Service
Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
01 White Finish								
Main Tees								
4000.01CH	12′	11/2"	9/ ₁₆ "	ID	360	30	83	0
4040.01CH	12′	15/8"	⁹ / ₁₆ "	HD	240	20	84	0
4001.01CH	10′	11/2"	⁹ / ₁₆ "	ID	300	30	74	0
Cross Tees - Stab - C	veride							
4020.01CH	20"	11/2"	⁹ / ₁₆ "	-	167	100	30	1
4022.01CH Quick -Cli	ck° 2′	11/2"	⁹ / ₁₆ "	_	200	100	35	0
4014.01CH Quick -Cli	ck° 4′	11/2"	⁹ / ₁₆ "	_	240	60	54	0
4015.01CH	5′	11/2"	⁹ / ₁₆ "	-	300	60	68	1
Cross Tees - Hook - I	Butt Cut							
4032.01CH	2′	11/2"	9/16"	-	200	100	35	0
4034.01CH	4′	11/2"	⁹ / ₁₆ "	-	200	60	55	0
Wall Angles								
1480.01	12′ x	¹⁵ / ₁₆ " x ⁹ / ₁₆ "	,	_	300	25	39	0
1420.01	12′ x	¹⁵ / ₁₆ " x ¹⁵ / ₁₆	,	_	504	42	69	0
21420.01	12′ x	¹⁵ / ₁₆ " x ⁹ / ₁₆ "	•	-	300	25	41	0
Wall Moldings								
1460.01	10' x ³ / ₄ "	x ³ / ₈ " x ³ / ₈ "	x ³ / ₄ "	_	400	40	64	0
1461.01	10′ x ³ / ₄ ″	x ³ / ₄ " x ³ / ₄ "	x ³ / ₄ "	-	400	40	90	1
1466.01	12' x 1 ³ / ₄ "	x ³ / ₄ " x ¹ / ₄ " x	11/4"	-	240	20	61	1
1469.01 1	0' x ⁹ / ₁₆ " x	(³ / ₈ "	(¹⁵ / ₁₆ "	-	400	40	77	1
Hanger Wire								
96CTL144	12' stra	ight bundl	ed		_	_	50	0



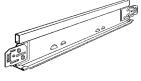
Components



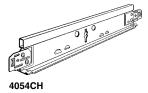
♦ 4050 Tempra™ 9/16" Fire-Rated



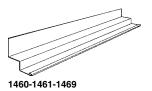




4052CH



1480-1420-21420



1466

Product		Dimensions		ASTM		Per Carton		Service
Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
Main Tees								
4050.01CH	12′	11/2"	⁹ / ₁₆ "	ID	360	30	93	1
Cross Tees - St	ab - Overid	е						
4052.01CH	2′	11/2"	⁹ / ₁₆ "	_	200	100	51	1
4054.01CH	4′	11/2"	⁹ / ₁₆ "	-	240	60	59	1
Wall Angles								
1480.01	12	2' x ¹⁵ / ₁₆ " x ⁹ /	16 "	-	300	25	39	0
1420.01	12	′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	/ " 16	-	504	42	69	0
21420.01	12	′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	/ " 16	-	300	25	41	0
Wall Moldings								
1460.01	10′ x ³	3/4" x 3/8" x 3/8	3" x 3/4"	-	400	40	64	0
1461.01	10′ x ³	3/4" x 3/4" x 3/4	" x ³ / ₄ "	-	400	40	90	1
1466.01	12′ x 1	³ / ₄ " x ³ / ₄ " x ¹ / ₄	" x 1 ¹ / ₄ "	-	240	20	61	1
1469.01	10' x 9/	₁₆ " x ³ / ₈ " x ³ / ₈	" x ¹⁵ / ₁₆ "	_	400	40	77	1
Hanger Wire								
96CTL144	12'	straight bun	dled		_	_	50	0

Component Performance Data

Component Load Test Data (based on 1/360 span deflection)

Tempra[™] 4000

ALLOWABLE LOAD per ASTM C635 -

		Hanger Spacing					
Main Tee	Length		4′		5′	6′	
4000CH	12′		ID		6.4	3.8	
4040CH	12′		HD		8.8	5.3	
4001CH	10′		ID		6.4	3.8	
Cross Tee	Length	2′	3′	4′	5′	8′	
4022CH	2′	24.5▲					
4032CH	2′	24.5▲					
4014CH	4′			12.9			
4034CH	4′			12.9			
4015CH	5′				6.5		

[■] To convert data into Ib/ft², divide on center spacing of component into Ib/ft.

Tempra[™] 4050 Fire Rated

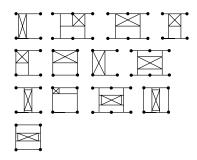
ALLOWABLE LOAD per ASTM C635 •

	Hanger Spacing						
Main Tee	Length		4′				
4050CH	12′		ID				
Cross Tee	Length	2′	4′				
4052CH	2′	45.0▲					
4054CH	4′		12.9				

[■]To convert data into lb/ft², divide on center spacing of component into lb/ft.

Non-Fire Rated Assemblies

Hanger Positions for Non-Fire Rated Situations This illustrates hanger positions for single fixtures in a field.



Provide extra hangers for tandem fixtures.

Fire Rated Assemblies

Hanger Positions for Fire Rated Situations



This illustrates hanger positions for single fixtures in a field and are covered in the table. Refer to specific design numbers for allowable number of fixtures per square footage of ceiling area.

4050

Light Fixture Load Test Data (based on 1/360 span deflection)

LIGHT FIXTURES MAIN & CROSS TEES - ALLOWABLE FIXTURE WT. – LBS.

4000CH	4000CH	4001CH	4050.01CH	
4014CH	4015CH	4015CH	4054.01CH	
42.4	45.6			
38.8			38.8	
49.6	44.0▲		49.6	
	35.0	35.0		
	35.0	35.0		
	4014CH 42.4 38.8	4000CH 4000CH 4014CH 4015CH 42.4 45.6 38.8 49.6 44.0⁴ 35.0	4000CH 4000CH 4001CH 4014CH 4015CH 4015CH 42.4 45.6 38.8 49.6 44.0* 35.0 35.0	4000CH 4000CH 4001CH 4050.01CH 4014CH 4015CH 4015CH 4054.01CH 42.4 45.6 38.8 38.8 49.6 44.04 49.6 35.0 35.0



[▲] Weight limited by a safety factor of 2.

[▲] Weight limited by a safety factor of 2.

Specification Data

		4000	4050
suspension ty	уре	Tempra	Tempra Fire Rated
material	body HD Galvanized	•	•
_	cap HD Galvanized or Aluminum	•	•
size	width	9/16"	9/16"
_	height	1 1/2"	1 1/2"
fire	fire rated ¹		•
performance	heavy duty per ASTM C 635	•	
_	intermediate duty per ASTM C 635	•	•
_	demountable	•	
seismic	zones / categories - main tees - 1, 2, 3, 4 / A, B, C, D, E, F	•	•
_	zones / categories - stab cross tees - 1, 2, 3, 4 / A, B, C, D, E, F	•	•
_	zones / categories - hook cross tees - 1, 2 / A, B, C	•	
warranty	40 year limited	•	•
sustainability	Minimum 25% recycled content, 100% locally recyclable, global/regional manufacture	•	•

^{1 -} Tempra grid products have a Class A approved, factory painted, baked-on finish.

Palletization

Cartons Per Pallet	Weight Per Pallet	LF Per Pallet
28	2,310	10,080
28	2,058	8,400
30	2,520	7,200
28	2,590	10,080
30	2,040	9,000
40	2,160	9,600
40	2,200	8,000
40	2,340	8,000
50	1,750	10,000
50	1,750	10,000
50	2,550	10,000
	Packaged To Ord	er
	28 28 30 28 30 40 40 40 50 50	Per Pallet Per Pallet 28 2,310 28 2,058 30 2,520 28 2,590 30 2,040 40 2,160 40 2,200 40 2,340 50 1,750 50 1,750 50 2,550

Product Number	Product Length	Cartons Per Pallet	Weight Per Pallet	LF Per Pallet
Wall Angle	es / Molding	gs		
Angles				
1420.01	12	30	2,070	15,120
1480.01	12	30	1,170	9,000
21420.01	12	30	1,230	9,000
Shadow Mol	dings			
1460.01	10	32	2,048	12,800
1461.01	10	32	2,880	12,800
1466.01	12	20	1,220	4,800
1469.01	10	Pad	ckaged To O	rder

Accessories Exposed Tee Systems

	<u>'</u>		,						
	Product Number	Length	Dimensions Recess	Flanges	Ft	Per Carton Pcs	Wt	Service Levels	
				-		1 00		207010	
				e direction 9	U°		- 10		
	288.01H	9″	11/2"	15/16"		50	10	1	
	1288.01H		11/2"	¹⁵ / ₁₆ "	_	50	10	1	
	One end has m	ain Tee coupling	and the other er	d has a cross tee t	ab.				
]	Variable Pl	acement Cr	oss Tees –	To support ac	coustic	al material c	only		
	816.01H	2′	11/2"	¹⁵ / ₁₆ "	80	40	21	1	
	817.01H	4′	11/2"	¹⁵ / ₁₆ "	160	40	40	1	
	Hanger Wi	·e							
	96CTL14	4 12′	straight bu	ındled		-	_	50	0
	Decelor	ı		ı		D O. d	ı	Occasion	
	Product Number		Description	-	Ft	Per Carton Pcs	Wt	Service Levels	
	Hold Down	Clips		·					
	425.01		ard - 250/12	00 Systems	_	200	2	0	
	820.00	For 5/8" bo	ard - 250/12	50 Systems	_	1000	7	0	
	935.00		arious board	-	-	1000	16	0	
			ıgular bulb gı	rid systems					
	Intersectio	<u> </u>							
	415.00		cer Clips to	•		1000	9	0	
	416.00		•	components		1000	9	0	
		Coupling C							
	839.01		ers expansion	n joints	_	50	9	0	
	Cross Tee	Slotter							
	937.00		"T" type Sys	tems	_	1	3	0	
	Retention (Clips							
	426.00	Fo	or 1" thick pa	nels	-	200	15	0	
	427.00	For 1	" to 2" thick	panels	_	150	15	0	
	Cross Tee	Removal To	ol						
	943.00				_	1	1	0	
	Wire Tie To	ol							
	944.00				_	100	10	0	
	Seismic Pe	rimeter Cli	p						
	1496.00	For	"T" type Sys	tems	_	1	3	0	
	Spacer Bai								
	826.00H		angular bulb	components	80	40	15	1	
	828.00H			components	160	40	29	1	
	824.00H		4' notched 2	•	160	40	29	1	
			ngular bulb c					-	



200 Snap-Grid™

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for lay-in acoustical panel ceiling.

1.02 Related Sections

- Section 09 22 26 Suspension Systems
- B. Section 09 54 00 - Specialty Ceilings
- Section 09 58 00 Integrated Ceiling Assemblies C.
- D. Section 13 48 00 - Sound, Vibration, and Seismic Control
- E. Section 23 50 00 - Central Heating Equipment
- Section 26 50 00 Lighting

1.03 References

- 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 Lav-in Panel Ceilings.
- C636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in

1.04 Submittals

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

1.05 Project Conditions

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

Chicago Metallic double web (Intermediate) (Heavy) duty non-fire rated ceiling suspension system.

2.02 Suspension System Components

- Main Tees:
 - Manufactured from commercial quality steel 15/16 inch wide by 11/2 inches high with factory punched cross tee slots, hanger holes, and integral bayonet-style end couplings
- Capped with steel capping affixed to 15/16 inch wide flange.
- 3. Coated with factory applied baked-on enamel paint from manufacturer's standard selection.
- B.
- 1. Manufactured from commercial quality steel $^{15}/_{16}$ inch wide by $1^{1}/_{2}$ inch high with factory punched cross tee slots, hanger holes, and integral snap-grid end couplings.
- 2 Capped identical to main tees.
- Finish identical to main tees. 3.
- C. Perimeter Treatment Components:
- Angle Moldings: Manufactured from commercial quality steel with hemmed edges finished identical to main 1.
- 2. Channel Moldings: Manufactured from commercial quality steel with factory applied standard white baked-on enamel paint finish.
- 3. Shadow Line Moldings:
 - Manufactured from commercial quality steel with 3/4 inch flanges and 3/4 inch steps with exposed hemmed edge. Finished with factory applied standard baked-on enamel paint finish.

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.

- Main Tees: Installed (36) (48) (60) (96) 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) (60) inches on center along
- В. Cross Tees:
- 1. Installed perpendicular to main tees (12) (20) (24) (30) (48) (60) (72) (96) (120) inches on center to form
- Installed perpendicular to module forming cross tees (12) (20) (24) (30) inches on center to form modules
- Installed adjacent to each unsupported side of recessed fixtures.
- C. (Angle) (Channel) (Shadow Line) Moldings: Installed on vertical surfaces, intersecting suspension components by appropriate method in accordance with industry accepted practice.
- Additional Hanger Wires: Wrapped tightly 3 full turns to structure and components at locations where imposed loads could cause deflection exceeding 1/360 span.

3.03 Repair

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

250 Fire-Front Snap-Grid™

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for lay-in acoustical panel ceiling

1.02 Related Sections

- Section 09 22 26 Suspension Systems
- B. Section 09 54 00 - Specialty Ceilings
- Section 09 58 00 Integrated Ceiling Assemblies
- D. Section 13 48 00 - Sound, Vibration, and Seismic Control
- E. Section 23 50 00 - Central Heating Equipment
- Section 26 50 00 Lighting

1.03 References

- American Society for Testing and Materials (ASTM)
- C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- C636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in
- Underwriters Laboratories (UL) Fire Resistance Directory (latest edition)

1.04 Submittals

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

1.05 Project Conditions

- Environmental Requirements:
- Verify weather tightness of area receiving suspension system prior to installation.
- 2. Wet trades work to be thoroughly dry and complete prior to installation
- Installation to begin only when temperature and humidity conditions closely approximate interior conditions which will exist when area is complete and occupied.
- 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 double web (Intermediate) (Heavy) duty fire rated ceiling suspension system

2.02 Suspension System Components

- Manufactured from commercial quality galvanized steel 15/16 inch wide by 11/2 inches high by 144 inches long with factory punched cross tee slots, hanger holes, and integral bayonet-style end couplings.
- Capped with steel capping affixed to 15/16 inch wide flange.
- Coated with factory applied color selected from manufacturer's standard offering
- 4. Manufactured with fire expansion reliefs.
- Manufactured from commercial quality galvanized steel 15/18 inch wide by 11/2 inch high by (24) (36) (48) (60) 1 inches long with factory punched cross tee slots, hanger holes, and integral snap-grid end couplings
- 2. Capped identical to main tees.
- Finish identical to main tees. 3.
- Manufactured with fire expansion reliefs
- C. Perimeter Treatment Components:
- Angle Moldings: Manufactured from commercial quality galvanized steel \$15/16\$ inch wide by \$15/16\$ inch high by (120) (144) inches long with hemmed edges finished identical to main tees and cross tees
- Channel Moldings: Manufactured from commercial quality galvanized steel with factory applied standard white baked-on enamel paint finish. Note: Specifier to select from channels offered by Chicago Metallic.
- Shadow Moldings:
 - Manufactured from commercial quality galvanized steel with 3/4 inch flanges, 3/4 inch recess and exposed hemmed edge. Finished with factory applied standard baked-on enamel paint finish.

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.

- Suspension System Components: Installed in accordance with U.L design number _
- Main Tees: Installed (36) (48) (60) (96) 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) (60) inches on center along component length.
- Cross Tees:
- Installed perpendicular to main tees (12) (20) (24) (30) (48) (60) inches on center to form modules.
- Installed perpendicular to module forming cross tees (12) (20) (24) (30) inches on center to form _ 2.
- Installed adjacent to each unsupported side of recessed fixtures.
- (Angle) (Channel) (Shadow) Moldings: Installed on vertical surfaces, intersecting suspension components by appropriate method in accordance with industry accepted practice.
- E. Additional Hanger Wires: Wrapped tightly 3 full turns to structure and components at locations where imposed loads could cause deflection exceeding 1/360 span.

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

Seismic 1200 & 1200

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for lay-in acoustical panel ceiling.

1.02 Related Sections

- Section 09 22 26 Suspension Systems
- Section 09 54 00 Specialty Ceilings
- Section 09 58 00 Integrated Ceiling Assemblies C
- Section 13 48 00 Sound, Vibration, and Seismic Control
- Section 23 50 00 Central Heating Equipment E.
- Section 26 50 00 Lighting

1.03 References

- American Society for Testing and Materials (ASTM)
- C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- C636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in
- IBC-2006 Section 1613, ASCE7-05 Section 13.5.6 and CISCA "Recommendations For Direct Hung Acoustical Tile And Lay-In Panel Ceilings - Seismic Zones 0-2" May 2004
- IBC-2006 Section 1613, ASCE7-05 Section 13.5.6 and CISCA "Guidelines For Seismic Restraint For Direct Hung Suspended Ceiling Assemblies Seismic Zones 3 & 4" May 2004.

1.04 Submittals

- Product data sheets listing dimensions, load carrying capacity and standards compliance.
- Samples: 12 inch long samples of main tee and cross tee with couplings.

1.05 Project Conditions

- Environmental Requirements:
- Verify weather tightness of area to receive suspension system prior to installation.
- Wet trades work to be thoroughly dry and complete prior to suspension system installation.
- Installation to begin only when temperature and humidity conditions closely approximate interior conditions which will exist when area is complete and occupied.
- Heating and air conditioning systems to be operating prior to, during, and after installation.

Furnish additional material equal to _____ percent of ceiling area

PART 2 - PRODUCTS

2.01 Manufacturers

Chicago Metallic (Intermediate)(Heavy) duty non-rated double web suspension system.

2.02 Suspension System Components

- Main Tees:
- Manufactured from commercial quality steel $^{15}/_{16}$ inch wide by $1^{1}/_{2}$ inches high by (120)(144) inches long with factory punched cross tee slots, hanger holes, and integral bayonet-style end couplings.
- Capped with steel capping affixed to 15/16 inch flange.
- Coated with factory applied (standard [architect select color] baked-on enamel paint).
- R Cross Tees:
- Manufactured from commercial quality steel 15 / $_{16}$ inch wide by 1^{1} / $_{2}$ inches high by (12)(20)(24)(30)(36)(48)(60)(72)(96)(120) inches long with factory punched cross tee slots and hanger holes. 1.
- Capped identical to main tees.
- Coated identical to main tees.
- 4. Manufactured with factory attached stainless steel stab-in end couplings on component ends)(stab-in cupling on one end, integral separation joint on other end).
- Perimeter Treatment Components:
 - Angle Moldings: Manufactured from 0.020 inch thick steel (3/4)(15/16)(7/8)(2) inch wide by (15/16)(7/8)(1)(2) inch high by (120)(144) inches long, finished identical to main tees and cross tees.
 - Channel Moldings: Manufactured from 0.018 inch thick steel with factory applied standard white baked-on enamel paint finish. Note: Specifier to select from channels offered by Chicago Metallic.
- Shadow Line Moldings: Manufactured from 0.020 inch thick steel with 3/4 inch and 3/8 inch hemmed edge. Finished with factory applied standard baked-on enamel paint finish.
- Seismic Perimeter Clips: Manufactured from commercial quality steel with gold finish sized to fit 11/2 inch high ceiling grid components and clip to minimum $(7/6)(^{16}/6)(2)$ inch wide wall angle support with minimum $(^{9}/6)(^{16}/6)(2)$ inch clearance at perimeter walls and ceiling penetrations per IBC 2006 Seismic Design Category (C) (D, E, F).

PART 3 - EXECUTION

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

- Main Tees: Installed (24)(36)(48)(60)(96) inches on center, by direct suspension from existing structure, with not less than 12 gage steel hanger wires spaced (36)(48)(60) inches on center along main tee length. Wrap hanger wires tightly 3 full turns at each end.
- В. Cross Tees:
- Manufactured from commercial quality steel 15/16 inch wide by [11/2 inches high by (12)(20)(24)(30)(36)(48)(60) (72)(96)(120) inches long][15/16 inches high by (24)(48) inches long] with factory punched cross tee slots and
- Installed perpendicular to module forming cross tees to form
- Installed adjacent to each unsupported side of recessed fixtures.
- SST™ Cross Tees:
- Installed aligning two seismic separation ends perpendicular to main tees and connecting them together using two plastic push rivets (12)(20)(24)(30)(36)(48)(60)(72)(120) inches on center to form
- Installed perpendicular to module forming cross tees to form
- Installed adjacent to each unsupported side of recessed fixtures.
- (Angle)(Channel)(Shadow Line) moldings: Installed on vertical surfaces, intersecting suspension components, D. by appropriate method in accordance with industry accepted practice.
- Additional Hanger Wires: Wrapped tightly 3 full turns to structure and component at locations where imposed E. loads could cause deflection exceeding 1/300 span.

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



PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for lay-in acoustical panel ceiling

1.02 Related Sections

- Section 09 22 26 Suspension Systems
- Section 09 54 00 Specialty Ceilings
- Section 09 58 00 Integrated Ceiling Assemblies C
- D. Section 13 48 00 - Sound, Vibration, and Seismic Control
- E. Section 23 50 00 - Central Heating Equipment
- Section 26 50 00 Lighting

1.03 References

- American Society for Testing and Materials (ASTM)
- C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lav-in Panel Ceilings.
- C636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
- Underwriters laboratories (UL) _____ Fire Resistance Directory (latest edition)

1.04 Submittals

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

1.05 Project Conditions

- Environmental Requirements:
- 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.
- Installation to begin only when temperature and humidity conditions closely approximate interior conditions which will exist when area is complete and occupied.
- 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 (Intermediate) (Heavy) duty fire rated double web suspension system.

2.02 Suspension System Components

- Main Tees:
- $Manufactured from commercial quality galvanized steel \ ^{15}/_{16} \ inch \ wide \ by \ 1^{1}/_{2} \ inches \ high \ by \ 144 \ inches \ long \ by \ 10^{15}/_{16} \ inch \ wide \ by \ 1^{1}/_{16} \ inch \ wide \ by \ 1^{1}/_{16} \ inch \ wide \ by \ 10^{15}/_{16} \ inch \ wide \ by \ 10^{15}/$ with factory punched cross tee slots, hanger holes, and integral bayonet-style end couplings.
- 2. Capped with steel capping affixed to 15/16 inch flange.
- Coated with factory applied color selected from manufacturer's standard offering. B Cross Tees:
- Manufactured from commercial quality galvanized steel 15/16 inch wide by 11/2 inches high by (24)(36)(48)(60) inches long with factory punched cross tee slots and hanger holes.
- 2. Capped identical to main tees.
- Coated identical to main tees 3.
- Manufactured with factory attached stainless steel couplings on component ends.
- Perimeter Treatment Components:
- Angle Moldings: Manufactured from commercial quality galvanized steel 15/16 inch wide by 15/16 inch high by (120) (144) inches long with hemmed edges finished identical to main tees and cross tees.
- Channel Moldings: Manufactured from commercial quality galvanized steel with factory applied standard 2. white baked-on enamel paint finish. Note: Specifier to select from channels offered by Chicago Metallic.
- 3 Shadow Moldings:
 - Manufactured from commercial quality galvanized steel with 3/4 inch flanges, 3/4 inch recess and exposed hemmed edge. Finished with factory applied standard baked-on enamel paint finish.

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.

- Suspension System Components: Installed in accordance with UL design number _
- Main Tees: Installed (36)(48)(60) inches on center, by direct suspension from existing structure, with not less than 12 gage steel hanger wires spaced (48)(60) inches on center along main tee length. Wrap hanger wires tightly 3 full turns at each end.
- Cross Tees:
- Installed perpendicular to main tees (12)(20)(24)(30)(36)(48)(60) inches on center to form _ 1. modules
- 2. Installed perpendicular to module forming cross tees to form _ Installed adjacent to each unsupported side of recessed fixtures.
- (Angle)(Channel)(Shadow) moldings: Installed on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry accepted practice.
- Additional Hanger Wires: Wrapped tightly 3 full turns to structure and component at locations where imposed loads could cause deflection exceeding 1/360 span.

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



4000 Tempra™

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for acoustical lay-in panel ceiling.

1.02 Related Sections

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

1.03 References

- A. American Society for Testing and Materials (ASTM)
- C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- 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: 12 inch long samples of main tee and cross tee with end couplings.

1.05 Project Conditions

- A. Environmental Requirements:
- 1. Verify weather tightness of area to receive suspension system prior to installation.
- 2. Wet trades work shall be dry and complete prior to installation
- 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 Tempra 4000 (Intermediate)(Heavy) duty suspension system.

2.02 Suspension System Components

- A. Main Tees
 - Manufactured from commercial quality galvanized steel ⁹/₁₆ inch wide by 1½ inches by (120) (144) inches long with factory punched cross tee slots, hanger holes, and integral end couplings.
- 2. Capped with (steel)(aluminum) with standard factory applied baked-on enamel paint.
- 3. Manufactured with ceiling panel centering tabs.
- B. Cross Tees
- Manufactured from commercial quality galvanized steel ⁹/₁₆ inch wide by 1½ inches high by (12) (20) (24) (30) (48) (60) inches long with factory punched cross tee slots, hanger holes, and either snap-in or stab-in end tab.
- Capped identical to main tees.
- Manufactured with ceiling panel centering tabs.
- C. Perimeter Treatment Components:
- Angle Moldings: Manufactured from commercial quality galvanized steel (⁹/₁₆)(¹⁵/₁₈) inch wide by ¹⁵/₁₆ inch high by 144 inches long, finished identical to main tees and cross tees.
- Shadow Moldings: Manufactured from commercial quality galvanized steel with 3/4 inch flanges and
 3/6 inch steps coated with factory applied baked-on enamel paint finish identical to main tees and
 cross tees.

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) (60) inches on center, by direct suspension from existing structure, with not less than 12 gage hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center along component length.

B. Cross Tees:

- 3. Installed adjacent to each unsupported side of recessed fixtures.
- C. (Angle) (Shadow) moldings: Installed on vertical surfaces, intersecting main runners and cross tees, by appropriate method in accordance with industry accepted practice.

3.03 Repair

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

4050 Tempra™ Fire Rated

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for acoustical lay-in panel ceiling

1.02 Related Sections

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

1.03 References

- A. American Society for Testing and Materials (ASTM)
 - C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- C636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
- B. Underwriters Laboratories (UL) Fire Resistance Directory (Latest edition)
 - Order Writers Eaboratories (OE) Fire Fresi
- . Product data sheets listing dimensions, load carrying capacity and standards compliance.
- B. Samples: 12 inch long samples of main tee and cross tee with end couplings.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weather tightness of area to receive suspension system prior to installation.
 - 2. Wet trades work shall be dry and complete prior to installation.
- 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 Fire Front Tempra 4050 Intermediate duty suspension system

2.02 Suspension System Components

- A. Main Tee:
 - Manufactured from commercial quality galvanized steel 9/16 inch wide by 1-1/2 inches by (120) (144) inches long with factory punched cross tee slots, hanger holes, and integral bayonet-style end couplings
- 2. Capped with (steel)(aluminum) with standard factory applied baked-on enamel paint.
- Manufactured with ceiling panel centering tabs.
- 4. Manufactured with fire expansion reliefs on fire rated components.
- B. Cross Tees
- Manufactured from commercial quality galvanized steel ⁹/₁₆ inch wide by 1¹/₂ inches high by (24) (48) inches long with factory punched cross tee slots, hanger holes, and stab-in end tab.
- Capped identical to main tees.
- 3. Manufactured with ceiling panel centering tabs.
- C. Perimeter Treatment Components:
- Angle Moldings: Manufactured from commercial quality galvanized steel (⁹/₁₆)(¹⁵/₁₆) inch wide by ¹⁵/₁₆ inch high by 144 inches long, finished identical to main tees and cross tees.

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

- Suspension System Components: Installed in accordance with UL design number _____ guidlines.
- B. Main Tee: Installed (48) (60) inches on center, by direct suspension from existing structure, with not less than 12 gage hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center along component length.
- C. Cross Tees
 - Installed perpendicular to main tees (20) (24) (30) (48) (60) inches on center to form ______ by _____ modules.
 - Installed perpendicular to module forming cross tees (20) (24) (30) inches on center forming ______ by _____ modules.
- Installed adjacent to each unsupported side of recessed fixtures.
- (Angle) (Shadow Line) moldings: Installed on vertical surfaces, intersecting main tees and cross tees, by appropriate method in accordance with industry accepted practice.

3.03 Repair

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

4500 & 04550 Ultraline[™] Fire Rated 9/16", 1/4" Reveal Bolt Slot and 4600 Ultraline[™] 9/16", 1/8" Reveal Bolt Slot

Non-Fire Rated / Fire Rated Double Web Direct Hung Exposed

Ultraline 4500 and Fire Front 4550 narrow face significantly diminishes the distinction between grid and panel creating a monolithic ceiling. The slender center regress and crisply mitered intersections result in flawless and continuous lines. Ultraline 4600 more subtly accents the shadow of the center regress.

Applications

Can be used as a more "workable" alternate to concealed ceilings or as an upgrade to standard lay-in ceilings. Black or white center regress available.

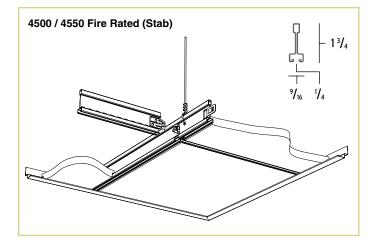
Features / Benefits

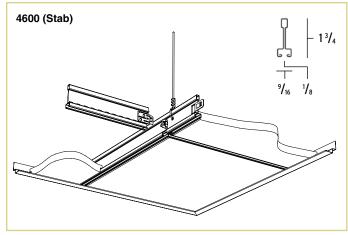
- 9/16" narrow face / Minimizes the appearance of the grid creating a monolithic look. Grid and panel on same plane, panel does not lay on top of grid.
- Designed for reveal-edge panels / Complete plenum access from any point in the ceiling.
- Mitered intersections / Provide crisp continuous lines that create a uniform ceiling plane.
- Versatility in modular configurations / Offers additional design possibilities.
- 4600's extremely narrow 1/8" regress / Accents the shadow while enhancing the monolithic ceiling look.
- Sustainability / Minimum 25% recycled content, 100% locally recyclable.
- Flame Spread Rating / Chicago Metallic suspension systems meet a Class-A flame spread rating.

Installation Features / Benefits

- Stab-in cross tees / Tees cantilever during installation and will not fall out, making for an easier installation. Protects against lateral pull-out.
- Notch covers / Conceals unused cross tee notches.
- Available cut-off notcher / Saves time in cutting main and cross tees, providing a finished appearance.
- Double web construction / Increased strength for better durability.
- Accomodates standard NEMA Type-SS lights and air diffusers / Allows for integration of lighting and air supply without creating additional labor.

IMPORTANT! A Metallurgist should be consulted regarding the suitability of this product for the environmental conditions in which it is being installed.





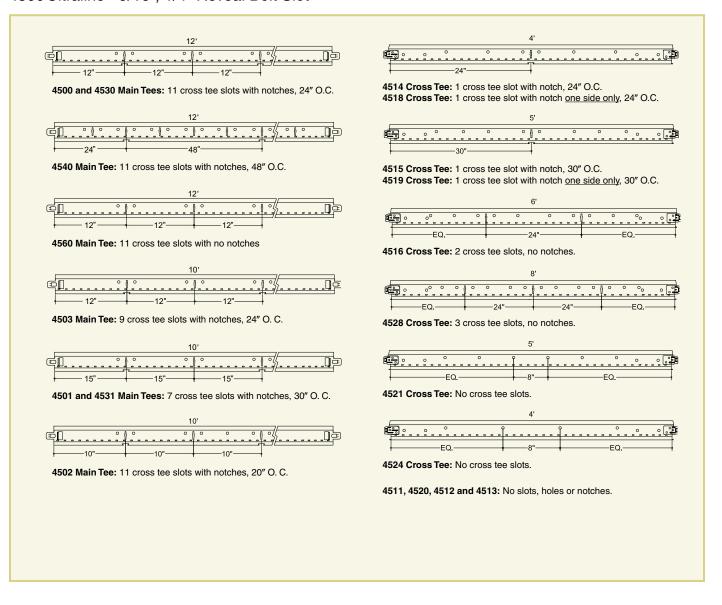


Component Slotting and Hanger Hole Placement

All overall lengths shown are nominal dimensions.

Hanger Holes: MAIN TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots. CROSS TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots, in all cross tees having slots.

4500 Ultraline™ 9/16", 1/4" Reveal Bolt Slot



Components

4500 Ultraline™ 9/16", 1/4" Reveal Bolt Slot



^{*} To allow for use of Bolt Slot Grid with 1496 Clip

Hanger Wire

96CTL144



1466

12' straight bundled

50

0

Component Slotting and Hanger Hole Placement

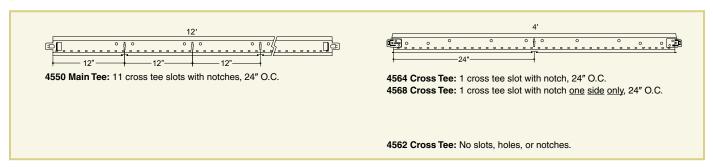
All overall lengths shown are nominal dimensions.

Hanger Holes: MAIN TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots. CROSS TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots, in all cross tees having slots.

4

4550 Ultraline™ Fire Rated 9/16", 1/4" Reveal Bolt Slot

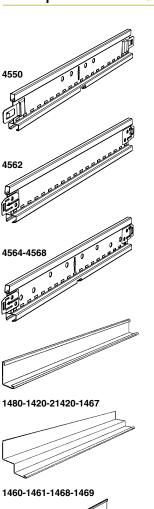
Product



Components

4550 Ultraline™ Fire Rated 9/16", 1/4" Bolt Slot

Dimensions



Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
01 White wit	th 1/4" 01	White R	eveal					
Main Tee								
4550.01	12′	1 ⁵ / ₈ "	⁹ / ₁₆ "	ID	240	20	79	1
Cross Tees - St	ab - Mitered	t						
4562.01	2′	1 ⁵ / ₈ "	⁹ / ₁₆ "	-	140	70	35	1
4564.01	4′	15/8"	⁹ / ₁₆ "	_	160	40	41	0
4568.01	4′	15/8"	⁹ / ₁₆ "	-	160	40	41	1
Wall Angles								
1480.01	12	2' x ¹⁵ / ₁₆ " x ⁹ /	16	_	300	25	39	0
1420.01	12	′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	/ ₁₆ "	-	504	42	69	0
21420.01	12	′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	/ ₁₆ "	_	300	25	41	0
1467.01*	12	′ x ¹⁵ / ₁₆ ″ x 1 ³	/ ₁₆ "	_	240	20	39	0
Wall Molding								
1460.01	10′ x	³ / ₄ " x ³ / ₈ " x ³ /	/ ₈ " x ³ / ₄ "	_	400	40	64	0
1461.01	10′ x	³ / ₄ " x ³ / ₄ " x ³ /	/ ₄ " x ³ / ₄ "	_	400	40	90	1
1466.01	12′ x 1	³ / ₄ " x ³ / ₄ " x ¹ / ₄	" x 1 ¹ / ₄ "	_	240	20	61	1
1468.01*	10′ x ³/	′4″ X ³/8″ X ³/8′	′ X ¹⁵ / ₁₆ ″	_	400	40	77	2
1469.01	10′ x ⁹ /	₁₆ " x ³ / ₈ " x ³ / ₈	" x ¹⁵ / ₁₆ "	_	400	40	77	1
Hanger Wire								
96CTL144	12'	straight bun	dled		_	_	50	0

Per Carton

Service

UL® Fire Resistant Designs

Roof and Ceiling Designs – Type 4550 G264, P254

1466

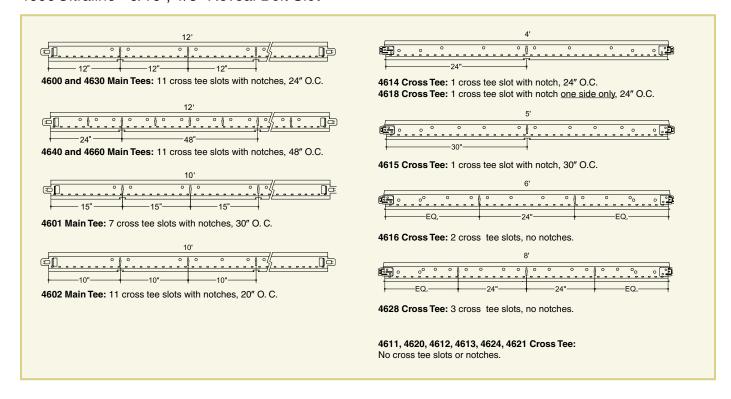
^{*} To allow for use of Bolt Slot Grid with 1496 Clip

Component Slotting and Hanger Hole Placement

All overall lengths shown are nominal dimensions.

Hanger Holes: MAIN TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots. CROSS TEES – 3/4" each side of cross tee slot, and 2 additional holes equally spaced between cross tee slots, in all cross tees having slots.

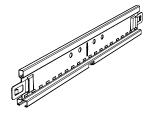
4600 Ultraline™ 9/16", 1/8" Reveal Bolt Slot



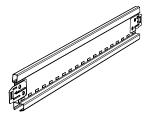


Components

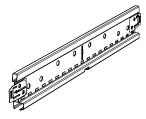
4600 Ultraline™ 9/16", 1/8" Reveal Bolt Slot



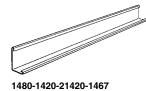
4600-4640-4630-4601-4602



4611-4620-4612-4613-4624 4621-4616-4628



4614-4618-4615



1460-1461-1468-1469

Product		Dimensions		ASTM		Per Carton		Service
Number	Length	Height	Face	Duty	Feet	Pieces	Weight	Level
01 White with	1/8″ 01	White R	eveal					
Main Tees								
4600.01	12′	15/8"	⁹ / ₁₆ "	ID	240	20	59	0
4640.01	12′	15/8"	9/16"	ID	240	20	59	0
4630.01	12′	15/8"	⁹ / ₁₆ "	HD	240	20	81	3
4660.01	12′	1 ⁵ / ₈ "	⁹ / ₁₆ "	HD	240	20	81	2
4601.01	10′	1 ⁵ / ₈ "	⁹ / ₁₆ "	ID	200	20	67	3
4602.01	10′	1 ⁵ / ₈ "	⁹ / ₁₆ "	ID	200	20	67	3
Cross Tees - Stal	b - Mitere	d						
4611.01	1′	1 ⁵ / ₈ "	⁹ / ₁₆ "	_	80	80	20	2
4620.01	20"	15/8"	⁹ / ₁₆ "	_	116	70	29	2
4612.01	2′	15/8"	⁹ / ₁₆ "	_	140	70	36	0
4613.01	30"	15/8"	⁹ / ₁₆ "	_	100	40	25	2
4624.01	4′	15/8"	⁹ / ₁₆ "	_	160	40	41	0
4614.01	4′	1 ⁵ / ₈ "	9/16"	_	160	40	41	0
4618.01	4′	15/8"	9/16"	_	160	40	41	0
4621.01	5′	15/8"	⁹ / ₁₆ "	_	200	40	49	0
4615.01	5′	1 ⁵ / ₈ "	⁹ / ₁₆ "	_	200	40	49	0
4616.01	6′	15/8"	9/16"	_	160	40	30	0
4628.01	8′	1 ⁵ / ₈ "	⁹ / ₁₆ "	_	160	20	39	0
Wall Angles								
1480.01	12	2′ x ¹⁵ / ₁₆ ″ x ⁹ /-	" 16	_	300	25	39	0
1420.01	12	2′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	" 16	_	504	42	69	0
21420.01	12	2′ x ¹⁵ / ₁₆ ″ x ¹⁵ /	' " 16	_	300	25	41	0
1467.01*	12	' x ¹⁵ / ₁₆ " x 1 ³ /	/ ₁₆ "	_	240	20	39	0
Wall Molding								
1460.01	10′ x	³ / ₄ " x ³ / ₈ " x ³ /	'8" X ³ / ₄ "	_	400	40	64	0
1461.01		³ / ₄ " x ³ / ₄ " x ³ /		_	400	40	90	1
1466.01		3/4" x 3/4" x 1/4		_	240	20	61	1
1468.01*		/ ₄ " x ³ / ₈ " x ³ / ₈ "		_	400	40	77	2
1469.01		1 ₁₆ " x ³ / ₈ " x ³ / ₈		_	400	40	77	1
Hanger Wire			-					
96CTL144	12'	straight bun	dled			_	50	0
		w.g Duil						

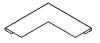
^{*} To allow for use of Bolt Slot Grid with 1496 Clip

Accessories Ultraline

Ultraline[™] Bolt Slot / Reveal Systems



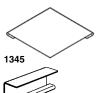
Outside/Square Corner Caps 1332-1334-1341-1344-1340-1351



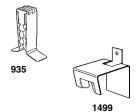
Outside/Radius Corner Caps 1336-1338-1340-1342-1352



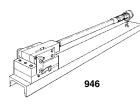
Inside Corner Caps 1346-1347-1348-1350-1353

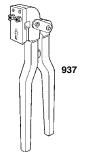


3599-3699









Product			Per Carton		Service
Number	Description	Ft	Pcs	Wt	Levels
Corner Caps –	Outside/ Square				
1332.01	For 3/4" angle	_	75	2	0
1334.01	For 15/16" angle	_	75	2	0
1341.01	For 9/16" angle	_	75	2	0
1344.01	For 2" angle	_	75	4	0
Corner Caps –	Outside/Radius				
1336.01	For 3/4" angle, 3/4" radius	_	75	2	0
1338.01	For 15/16" angle, 3/4" radius	_	75	2	0
1340.01	For 3/4" angle, 1" radius	_	75	2	0
1342.01	For 15/16" angle, 1" radius	_	75	3	0
1351.01	For 7/8" angle, 1/8" radius	-	75	2	0
1352.01	For 7/8" angle, 3/4" radius	_	75	2	0
Corner Caps –	Inside				
1346.01	For 3/4" angle	_	75	1	0
1347.01	For 9/16" angle	_	75	2	0
1348.01	For 15/16" angle	_	75	2	0
1350.01	For 2" angle	_	75	4	0
1353.01	For $\frac{7}{8}$ angle	_	75	2	0
Blank Square					
1345.01		_	75	3	0
Notch Covers					
3599.01	⁷ / ₈ " L - 4500 System Only	_	100	1	0
3699.01	⁷ / ₈ " L - 4600 System Only	_	100	1	0
Seismic Perime	eter Clip				
1496.00	For "T" type Systems	_	1	3	0
Hold Down Clip	0				
935.00	Adjust to different height board	_	1000	16	0
Perimeter Clip					
1499.00	For 1 ¹ / ₂ " components	_	100	4	0
Cut-Off/End No	otcher				
946.00	For 4500 and 4600 Systems	_	1	20	0
Cross Tee Slott	ter				
937.00	For 4500 and 4600 Systems	_	1	3	0
Hanger Wire					
96CTL144	12' straight bundled	_	_	50	0



Component Performance Data

Component Load Test Data (based on 1/360 span deflection)

Ultraline[™] 4500 ⁹/₁₆" Exposed with ¹/₄" Reveal

	ALL	OWABLE	LOAD per ASTM	C635 =	
			Hanger Spacing		
Main Tee	Length		4′	5′	6′
4500	12'		ID	7.7	4.6
4540	12′		ID	7.7	4.6
4530	12'		HD		
4560	12'		HD		
4503	10′		ID	7.7	4.6
4501	10′		ID	7.7	4.6
4502	10′		ID	7.7	4.6
4531	10′		HD		
Cross Tee	Length	2′	4′	5′	
4512	2′	55.0▲			
4524	4′		13.2		

14.5

7.7

7.7

7.7

4

5'

5′

5'

6' 8'

4514

4518

4521

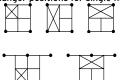
4515 4519

4516

4528

Non-Fire Rated Assemblies

Hanger Positions for Non-Fire Rated Situations This illustrates hanger positions for single fixtures in a field.



Provide extra hangers for tandem fixtures.

Ultraline[™] 4550 9/₁₆" Exposed with 1/₄" Reveal

			Hanger Spacing
Main Tee	Length		4'
4550	12′		Н
D			
Cross Tee	Length	2′	4′
4562	2′	55.0▲	
4564	4′		14.5
4568	4′		14.5

To convert data into lb/ft², divide on center spacing of component into lb/ft.

Ultraline[™] 4600 9/₁₆" Exposed with 1/₈" Reveal

	~LL	OWADLL	LOAD PEL ASTINI	C033	
			Hanger Spacing		
Main Tee	Length		4′	5′	6′
4600	12′		ID	5.8	3.5
4640	12'		ID	8.4	4.6
4630	12'		HD	8.4	4.6
4601	10′		ID		
4602	10′		ID		
Cross Tee	Length	2′	4′	5′	
4612	2′	55.0▲			
4624	4′		13.2		
4614	4′		14.5		
4618	4′		14.5		
4621	5′			7.7	
4615	5′			7.7	
4616	6′				
4628	8′				

To convert data into lb/ft², divide on center spacing of component into lb/ft.

Fire Rated Assemblies

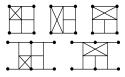
Hanger Positions for Fire Rated Situations



This illustrates hanger positions for single fixtures in a field and are covered in the table. Refer to specific design numbers for allowable number of fixtures per square footage of ceiling area.

Non-Fire Rated Assemblies

Hanger Positions for Non-Fire Rated Situations This illustrates hanger positions for single fixtures in a field.



Provide extra hangers for tandem fixtures.

To convert data into lb/ft², divide on center spacing of component into lb/ft.

[▲] Weight limited by a safety factor of 2.

[▲] Limited by safety factor of 2.

[▲] Weight limited by a safety factor of 2.

Component Performance Data

Light Fixture Load Test Data (based on 1/360 span deflection)

LIGHT FIXTURES	3		MAIN & CROSS	TEES - ALLOWABLE FIX	(TURE WT. – LBS	-		
		4500		45	50	4	600	
	4500	4500	4530	4550	4550	4600	4630	
Dimensions	4514	4524	4514	4564	4568	4614	4614	
2′ x 2′	42.4		42.4	43.2	43.2	42.4	42.4	
2′ x 4′	58.4	58.4	58.4	67.2	67.2	58.4	58.4	
20" x 48"								

Specification Data

suspension ty	pe	4500	4550	4600
material	body galvanized	•	•	•
_	cap N/A			
size	width	9/16"	9/16"	9/16"
	height	1 5/8"	1 5/8"	1 5/8"
fire	fire rated ¹		•	
performance	heavy duty per ASTM C 635	•		•
	intermediate duty per ASTM C 635	•	•	•
_	demountable	•		
seismic	zones / categories	3,4 / D, E, F	3,4 / D, E, F	3,4 / D, E, F
warranty	40 year limited	•	•	•
sustainability	Minimum 25% recycled content, 100% locally recyclable, global/regional manufacture	•	•	•



Palletization

Product Number	Cartons Per Pallet	Weight Per Pallet	LF Per Pallet	Product Number	Cartons Per Pallet	Weigh Per Pall		LF Per Pallet
Main Tees				30 In. Cross	Tees			
4500.01	24	1,440	5,760	4513.01	PTO	PTO		PTO
4550.01	24	1,896	5,760	2 Ft. Cross Te	ees			
4540.01	24	1,440	5,760	4512.01	50	1,750)	7,000
4530.01	24	1,752	5,760	4562.01	50	1,750)	7,000
4560.01	24	1,896	5,760	4612.01	50	1,800)	7,000
4503.01	24	1,224	4,800	20 In. Cross	Tees			
4501.01	24	1,224	4,800	4520.01	50	1,450)	5,800
4502.01	24	1,224	4,800	4620.01	PTO	PTO		PTO
4531.01	24	1,584	4,800	1 Ft. Cross Te	268			
4600.01	24	1,416	5,760	4511.01	50	1,000)	4,000
4640.01	24	1,416	5,760	4611.01	PTO	PTO		PTO
4630.01	24	1,944	5,760					
4601.01	24	1,608	4,800					
4602.01	24	1,608	4,800					
8 Ft. Cross Tee								
4528.01	PTO	PTO	PTO	Product Number	Product Length	Cartons Per Pallet	Weight Per Pallet	LF Per Pallet
4628.01	PTO	PTO	PTO					1 . 0 0
6 Ft. Cross Tee				Angles	es / Moldings	į		
4516.01	PTO	PTO	PTO	1420.01	12	30	2,070	15,120
4616.01	PTO	PTO	PTO	1480.01	12	30	1,170	9,000
5 Ft. Cross Tee				21420.01	12	30	1,230	9,000
4521.01	30	1,560	6,000	1467.01	12	30	1,170	9,000
4515.01	30	1,560	6,000	Shadow Molo	dinas			· · · · · · · · · · · · · · · · · · ·
4519.01	30	1,560	6,000	1460.01	10	32	2,048	12,800
4525.01	30	1,560	6,000	1461.01	10	32	2,880	12,800
4621.01	PTO	PTO	PTO	1466.01	12	20	1,220	4,800
4615.01	PTO	PTO	PTO	1468.01	12	32	2.464	12,800
4 Ft. Cross Tees			_	1469.01	10		aged To O	
4524.01	42	1,722	6,720					
4514.01	42	1,722	6,720					
4564.01	42	1,722	6,720					
4518.01	42	1,722	6,720					
4568.01	42	1,722	6,720					
4624.01	42	1,722	6,720					
4614.01	42	1,722	6,720					
		,	-, -					

4500 Ultraline™

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for acoustical lay-in panel ceiling

1.02 Related Sections

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

1.03 References

- American Society for Testing and Materials (ASTM) Α
- C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension 1. Systems for Acoustical tile and Lay-in Panel Ceilings.
- C636 Standard Practice for installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels

1 04 Submittals

- Product data sheets listing dimensions, load carrying capacity and standards compliance. A.
- 12 inch long samples of main tee and cross tee with end couplings.

1.05 Project Conditions

- Environmental Requirements:
- Verify weather tightness of area to receive suspension system prior to installation. 1.
- 2. Wet trades work shall be dry and complete prior to installation
- Installation to begin only when temperature and humidity conditions closely approximate interior 3. conditions which will exist when area is complete and occupied.
- 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

Chicago Metallic Ultraline 4500 (Heavy) (Intermediate) duty suspension system.

2.02 Suspension System Components

- Main Tees:
 - Manufactured from commercial quality galvanized steel 9/16 inch wide with 1/4 inch center regress by 15/8 inches high by (120) (144) inches long with factory punched cross tee slots, hanger holes, miters and integral couplings
- Coated with factory applied color baked-on enamel finish.
- B. Cross Tees:
- 1. Manufactured from commercial quality galvanized steel $^9/_{16}$ inch wide with $^1/_4$ inch center regress by 15/8 inches high by (24) (48) (60) inches long with factory punched cross tee slots, hanger holes, miters and integral couplings.
- 2. Finish and regress identical to main tees.
- Angle Moldings: Manufactured from commercial quality galvanized steel 9/16 inch wide by 15/16 inch high C. by 144 inches long with hemmed edges, finished identical to main tees and cross tees.
- Shadow Moldings: Manufactured from commercial quality galvanized steel with 3/4 inch flanges and 3/8 inch steps coated with factory applied baked-on enamel paint finish identical to main tees and cross

PART 3 - EXECUTION

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

- Main Tees: Installed (48) (60) inches on center, by direct suspension from existing structure, with not less than 12 gage hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center along component
- B. Cross Tees:
- Installed perpendicular to main tees (24) (48) (60) inches on center to form _ 1. modules.
- 2. Installed perpendicular to module forming cross tees 24 inches on center forming _____
- 3. Installed adjacent to each unsupported side of recessed fixtures.
- C. (Angle) (Shadow) moldings: Installed on vertical surfaces, intersecting main tees and cross tees, by appropriate method in accordance with industry accepted practice.

3.03 Repair

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

4550 Ultraline™

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for acoustical lay-in panel ceiling

1.02 Related Sections

- Section 09 22 26 Suspension Systems
- B. Section 09 54 00 - Specialty Ceilings
- C. Section 09 29 00 - Gypsum Board
- D. Section 09 58 00 - Integrated Ceiling Assemblies
- F Section 13 48 00 - Sound, Vibration, and Seismic Control
- F Section 23 50 00 - Central Heating Equipment
- Section 26 50 00 Lighting

1.03 References

- American Society for Testing and Materials (ASTM)
- C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical tile and Lay-in Panel Ceilings.
- C636 Standard Practice for installation of Metal Ceiling Suspension Systems for Acoustical Tile
- Underwriters Laboratories (UL) Fire Resistance Directory (Latest Edition)

- Product data sheets listing dimensions, load carrying capacity and standards compliance.
- 12 inch long samples of main tee and cross tee with end couplings.

1.05 Project Conditions

- Environmental Requirements:
 - Verify weather tightness of area to receive suspension system prior to installation.
- Wet trades work shall be dry and complete prior to installation. 2.
- Installation to begin only when temperature and humidity conditions closely approximate interior conditions which will exist when area is complete and occupied.
- Heating and air conditioning systems to be operating prior to, during, and after installation. 4.

1.06 Maintenance

Furnish additional material equal to _____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturers

Chicago Metallic Ultraline 4550 (Heavy) (Intermediate) duty suspension system.

2.02 Suspension System Components

Main Tees:

- Manufactured from commercial quality galvanized steel $^9/_{16}$ inch wide with $^{1}/_{4}$ inch center regress by $15\/_{\!8}$ inches high by 144 inches long with factory punched cross tee slots, hanger holes, mitres, and integral couplings.
- 2. Coated with factory applied color baked-on enamel finish with a ___
- Manufactured from commercial quality galvanized steel $^9/_{16}$ inch wide with $^1/_4$ inch center regress by 15/ $_8$ inches high by (24) (48) inches long with factory punched cross tee slots, hanger holes, miters and integral couplings.
- 2. Finish and regress identical to main tees.
- Angle Moldings: Manufactured from commercial quality galvanized steel (9/16) inch wide by 15/16 inch high by 144 inches long with hemmed edges, finished identical to main tees and cross tees
- Shadow Moldings: Manufactured from commercial quality galvanized steel with $^{3}\!/_{4}$ inch flanges and $^{3}\!/_{8}$ inch steps coated with factory applied baked-on enamel paint finish identical to main tees and cross

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.

- A. Suspension System Components: Installed in accordance with UL design number ____
- Main Tees: Installed (48) (60) inches on center, by direct suspension from existing structure, with not less than 12 gage hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center along component length.
- Cross Tees:
- Installed perpendicular to main tees (24) (48) (60) inches on center to form _____
- 2. Installed perpendicular to module forming cross tees 24 inches on center forming _ modules
- Installed adjacent to each unsupported side of recessed fixtures.
- (Angle) (Shadow) moldings: Installed on vertical surfaces, intersecting main tees and cross tees, by D. appropriate method in accordance with industry accepted practice.

3.03 Repair

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



4600 Ultraline™

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for acoustical lay-in panel ceiling.

1.02 Related Sections

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

1.03 References

- A. American Society for Testing and Materials (ASTM)
 - C635 Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical tile and Lay-in Panel Ceilings.
 - 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 tee and cross tee with end couplings.

1.05 Project Conditions

- A. Environmental Requirements:
- 1. Verify weather tightness of area to receive suspension system prior to installation.
- 2. Wet trades work shall be dry and complete prior to installation
- 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 Ultraline 4600 (Heavy) (Intermediate) duty suspension system.

2.02 Suspension System Components

- A. Main Tees:
 - Manufactured from commercial quality galvanized steel ⁹/₁₆ inch wide with ¹/₈ inch center regress by 1⁵/₈ inches high with factory punched cross tee slots, hanger holes, miters and integral couplings.
- 2. Coated with factory applied baked-on enamel finish.
- B. Cross Tees:
 - Manufactured from commercial quality galvanized steel ⁹/₁₆ inch wide with ¹/₈ inch center regress by 1⁵/₈ inches high with factory punched cross tee slots, hanger holes, miters and integral couplings.
- 2. Finish and regress identical to main tees.
- C. Angle Moldings: Manufactured from commercial quality galvanized steel ⁹/₁₆ inch wide by ¹⁵/₁₆ inch high by 144 inches long with hemmed edges, finished identical to main tees and cross tees.
- D. Shadow Moldings: Manufactured from commercial quality galvanized steel with ³/₄ inch flanges and ³/₈ inch steps coated with factory applied baked-on enamel paint finish identical to main tees and cross tees.

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 (20), (30), (48), (60) inches on center, by direct suspension from existing structure, with not less than 12 gage hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center along component length.
- B. Cross Tees:
 - Installed perpendicular to main tees (20), (24), (30), (48), (60) inches on center to form ______
 by _____ modules.
 - Installed perpendicular to the module forming cross tees (20), (24), (30) inches on center forming ______ by _____ modules.
 - 3. Installed adjacent to each unsupported side of recessed fixtures.
- (Angle), (Shadow Line) Moldings: Installed on vertical surfaces, intersecting main runners and cross tees, by appropriate method in accordance with industry accepted practice.

Product Cross Reference Guide

Chicago Metallic	AWI	USG
General Application Grid		
200 Snap-Grid™	Prelude ML™	_
250 Fire-Front Snap-Grid™	-	_
1200 Seismic	Prelude XL™	DX
1250 Fire-Front Seismic	Prelude XL™ Fire Guard	DXL Fire Rated™
4000 Tempra [™]	Suprafine XL [™]	DXT Centricitee [™]
4050 Tempra [™] Fire Rated	Suprafine XL [™] Fire Guard	DXLT Centricitee [™]
4500 Ultraline™	Silhouette™ XL 1/4" Reveal	DXF Fineline® 1/4"
4550 Ultraline™ Fire Rated	Silhouette™ XL Fire Guard 1/4"	DXF Fineline® 1/4"
4600 Ultraline™	Silhouette™ XL 1/8" Reveal	DXF Fineline® 1/8"
Special Application Grid		
Ultraline 4500 HRCmax™	Silhouette™ XL HRC	DXF HRC Fineline® 1/4"
Ultraline 4600 HRCmax™	Silhouette™ XL HRC	DXF HRC Fineline® 1/8"
4000 Tempra™ HRCmax™	Suprafine XL [™] HRC	DXT HRC Centricitee™
1200 HRCmax [™] (Stab)	Prelude XL™ HRC	DX HRC
BarrierGrid™ Standard	Clean Room	Controlled Environment
BarrierGrid™ Premium	Clean Room	Controlled Environment
260/280 Aluminum Cap	-	-
1260/1280 Aluminum Cap	Prelude XL™	DXLA Aluminum Cap™
660 1 ³ / ₈ " Wide Face	-	DXW
730 Stainless	SS Prelude Plus XL™	DXSS
830 Aluminum	AL Prelude Plus XL [™]	AX All Aluminum™
♦ 1830 HDG-60	Prelude XL™ Exterior	ZXLA [™] Hot Dipped
Drywall Grid		
640/660	Drywall Grid	-
	Drywall Grid Fire Guard	Drywall Suspension
Span <i>Fast</i> ®	ShortSpan™	Wall-to-Wall™



Service

Service Levels

Service Levels represents the approximate time in weeks for an order to be ready to ship from the manufacturing plant. Add 2 weeks to all Service Levels for CMC transfer truck to Baltimore or Los Angeles Service Centers.

Service Level begins when the following criteria are met – Receipt of acceptable Purchase Order, Credit Approval, Drawing Approval, Color Approval.

Service Levels Production Lead Time

0	Stock item available for immediate shipment
1	Available to ship within 1 week of order acceptance
2	Available to ship within 2 weeks of order acceptance
3	Available to ship within 3 weeks of order acceptance
4	Available to ship within 4 weeks of order acceptance
5	Available to ship within 5 weeks of order acceptance
6	Available to ship within 6 weeks of order acceptance
??	Contact Chicago Metallic for current lead time

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 Placement and General Customer Service Support

Phone: 1.800.323.7164 / option 1

Fax: 1.866.211.3824

Email: cmc-customerservice@chicagometallic.com

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 1

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 be glad to issue credit upon request 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

General Conditions of Sale

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. Seller may arrange freight at the request of and on behalf of Purchaser. If applicable, freight will be charged according to the Seller's freight policy in effect at time of shipment. Such policy will be provided to Purchaser via its preferred communication method and is also available in Seller's price book or upon request. 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 been 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.



Chicago Metallic Ceiling Products

Metal METAL	Perimeter Trim/ Curvilinear / Flat Metal Panel / Embossed Metal Panel / Linear / Open Plenum / Security
Panel	Premium / Utility / Controlled Environment
G GRID Grid	General Applications / Special Applications / Drywall Applications









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

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