

Chicago Metallic® 250 Fire Front Snap-grid™ 15/16"

Product

Applications

Fire Rated - Retail, Classrooms General Interior Spaces

Features

- The industry standard of compatibility: acoustical tile, light fixtures and air diffusers.
- Complete fire resistive designs.
- Snap-in demountable (hook-type) cross tees.
- Chicago Metallic suspension systems meet a Class-A flame spread rating in accordance with ASTM standard E1264-08.

Benefits

- Quick access to ceiling plenum.
- Butt-cut cross tees provide true, flat panel installation, i.e., metal panels.
- Cost control.
- Global compatibility and availability.
- Sustainable: Minimum 25% recycled content, 100% locally recyclable, global/regional manufacture.

Material:

A. General

ASTM C 635 Heavy Duty (HD), Intermediate Duty (ID) main tee classifications; commercial quality HDG-30 steel, hot-dip galvanized body and cap, 15/16" width, 1-1/2" height. Approved for use in UL Designs (see reverse side for applicable design numbers).

Note: A metallurgist should be consulted regarding the suitability of this product for the environmental conditions in which it is being installed.

Components:

- 1. Main Tees:** Double web construction, 15/16" width, 1-1/2" height. XXZ Main runner height = 1-13/16".

For Fire Rated Modules Sized (24 x 24, 24 x 48)

- 250.01Z (144", slots 6" OC, ID)
- 270.XXZ.01 (144", slots 6" OC, HD)
- 299.01H (120", slots 10" OC, ID)

- 2. Cross Tees:** Double web construction, 15/16" width, 1-1/2" height. Stab-in end detail.

For Fire Rated Modules Sized (24 x 24, 24 x 48)

- 251.01H (12", no slots)
- 252.01Z (24", no slots)
- 253.01H (36", slots 12" OC)
- 254.01Z (48", slots 12" OC)

For Fire Rated Modules Sized (20 x 30, 20 x 60, 30 x 30, 30 x 60, 60 x 60)

- 257.01Z (20", no slots)
- 258.01H (30", no slots)

3. Wall Angles & Shadow Moldings:

Wall Angle, two hemmed edges (A x B):

- 1430.01 (144", 7/8" x 7/8")
- 1420.01 (144", 15/16" x 15/16")
- 1428.01 (144", 1" x 2")
- 1425.01 (144", 2" x 2")
- 21420.01 (144", 15/16" x 15/16")
- 1421.01 (120", 15/16" x 15/16")

Shadow Molding, one hemmed edge (A x B x C x D)

- 1460.01 (120", 3/4" x 3/8" x 3/8" x 3/4")
- 1461.01 (120", 3/4" x 3/4" x 3/4" x 3/4")

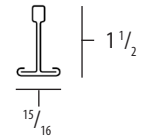
Shadow Molding, two hemmed edges (A x B x C x D)

- 1469.01 (120", 9/16" x 3/8" x 3/8" x 15/16")

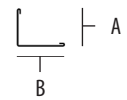
Shadow Molding, two hemmed edges (A x B x C x D)

- 1466.01 (144", 1-3/4" x 3/4" x 1/4" x 1-1/4")

Tees

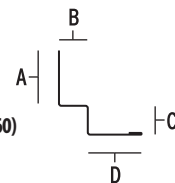


Wall Angles

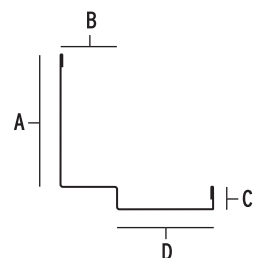


two hemmed edges

Shadow Moldings

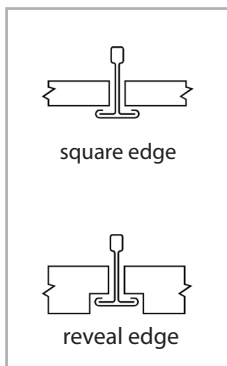


1460, 1461/1469
one/two hemmed edge



1466
two hemmed edges

Details



Chicago Metallic® 250 Fire Front Snap-grid™ 15/16"

UL® Fire Rated Assemblies

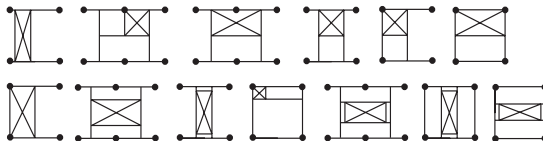
floor-ceiling type 250

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

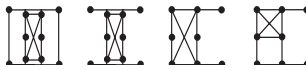
P201, P202, P203, P204, P206, P207, P210, P211, P213, P214, P215, P216, P217, P219, P225, P227, P228, P229, P230, P231, P235, P237, P238, P239, P241, P242, P244, P245, P246, P250, P251, P253, P255, P257, P259, P260, P261, P262, P264

Hanger Positions for Non-Fire Rated Situations



Fixture weight based on single fixtures only.

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.

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

ALLOWABLE LOAD per ASTM C635 [■]						
Main Tee	Length	Hanger Spacing				6'
		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'	20"	30"	3'	4'
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.

[▲]Limited by safety factor of 2.

* Hanger wire required at midpoint of tee.

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

LIGHT FIXTURES	ALLOWABLE FIXTURE WT. – LBS.	
	250 MAIN	270 CROSS TEES
Dimensions	254	254
1' x 4'	55.6	67.6
2' x 2'	49.6	52.8
2' x 4'	64.0 [▲]	76.0 [▲]

Consult specific U. L. design for allowable lighting configurations.

[▲]Limited by safety factor of 2.