datasheet

Chicago Metallic™ 650 (Hook)/670 (Stab) Fire Rated Drywall Grid System &

Product

Applications

Hospitals, hospitality, retail, lobbies, department stores, galleries, residential high rise.

Features

- Heavy duty grid systems for drywall ceiling framing.
- Fire, seismic and flatness control.
- · Reduces onsite labor.
- Eliminates black-iron and hat-channel.
- Reliable appearance and cost control.
- Chicago Metallic suspension systems meet a Class-A flame spread rating in accordance with ASTM standard E1264-08.

Benefits

- Precise transition between acoustical and drywall ceilings.
- Sustainable: Minimum 25% recycled content, 100% locally recyclable, global/regional manufacture.

Material:

A. General

ASTM C 635 Heavy Duty (HD) furring runner classification; commercial quality steel, G-40 hot-dip galvanized body and knurled face cap, 1-3/8" width, 1-1/2" height. Also complies with ASTM C 645 and ASTM C 754.

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

Components:

- 1. Furring Runner: ☐ 650.00C (144", slots 8" OC, HD)

 Double web

 construction, 1-3/8"
- ms meet width, 7/8" height. bread nce with 1264-08.

width, 1-1/2" height.

construction, 1-3/8"

- 3. Furring Tees: Hook-type:

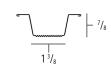
 Double web □ 654.00C (48", no slots)

 construction, 1-3/8" Stab-type:
 - construction, 1-3/8" Stab-type: width, 1-1/2" height. Stab-type: □ 674.00C (48", one slot at midpoint, override) □ 677.00C (72", slots 24" O.C., override)
- 4. Cross Tee: ☐ 1274.01Z (48", three slots 12" OC)
 Double web
 construction, 15/16" Used to support NEMA Type G
 light fixture.
 width, 1-1/2" height.
- **5. Wall Track:** □ 1450.00 (144", 1-9/16" x 1")
- **6. Utility Angle:** ☐ 5130.00H (120", 1-1/2" x 1-1/2") ☐ 5130K.00H (120", 1-1/2" x 1-1/2") Knurled Face

Furring Runner/ Furring Tees



Cross Channel



Cross Tee



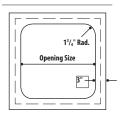
Wall Track



Utility Angle



GRG Access Door



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Chicago Metallic™ 650 (Hook)/670 (Stab) Fire Rated Drywall Grid System &

Fire Rated Assemblies

Hanger Positions for Fire Rated Situations





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

UL° Fire Resistant Designs

Floor and Ceiling Designs - Type 650

D501, D502, D503, G523, G524, G525, G526, G527, G528, G529, J502, L211*, L502, L508, L513, L515, L525, L526, L529

Roof and Ceiling Designs - Type 650

P237*, P239*, P241*, P501, P506, P507, P508, P509, P510, P513, P514

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

	Component Dimensions				Hanger Spacing	
Furring Runner	Length	Face	Height	Metal	4'	6'
650	12'	13/8"	11/2"	.020	HD	
Furring Channel						
634	4'	13/8"	⁷ / ₈ "	.020	8.2	
Furring Tees						
654	4'	13/8"	11/2"	.014	14.3	
674	4'	13/8"	11/2"	.014	14.3	
677	6'	13/8"	11/2"	.020		5.2
Cross Tee						
1274.01	4'	¹⁵ / ₁₆ "	11/2"	.020	17.0	

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

Membrane Loading

Data is Pounds Per Square Foot (PSF)						
COMPONENT	HANGER WIRE / FURRING TEE SPACING					
COMBINATION						
FR/FT	48"/24"	32"/16"				
650.00C / 654.00C	6.6₹	7.7▼				
650.00C / 654.00C / 1274.01Z	5.5₹	6.2▼				
650.00C / 674.00C	6.6₹	7.7▼				
650.00C / 674.00C / 1274.01Z	5.5₹	6.2₹				
650.00C/677.00C	2.62▼	3.93▼				

Membrane loading is not applicable when these components are used in a fire rated assembly. Consult UL Fire Resistance Directory for installation details. 48"/24" data is based on hanger wires installed within 4" of each furring runner fire expansion.



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^{*} System used in upper plenum - Consult UL Fire Resistance Directory for details.