



G  
GRID

## 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.

#### Benefits

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

#### Material:

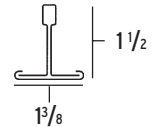
A. General

ASTM C 635 Heavy Duty (HD) furring runner classification; commercial quality 0.20 steel, hot-dip galvanized body and knurled face cap, 1-3/8" width, 1-1/2" height.

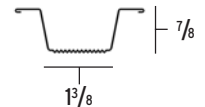
#### Components:

- Furring Runner:** ☐ 650.00C (144", slots 8" OC, HD)  
Double web construction, 1-3/8" width, 1-1/2" height.
- Cross Channel:** ☐ 634.00C (48", no slots)  
Double web construction, 1-3/8" width, 7/8" height.
- Furring Tees:** ☐ 654.00C (48", no slots)  
Double web construction, 1-3/8" width, 1-1/2" height.  
Hook-type:  
☐ 674.00C (48", one slot at midpoint, override)  
Stab-type:
- Cross Tee:** ☐ 1274.01H (48", three slots 12" OC)  
Stab-type:
- Wall Track:** ☐ 1450.01 (144", 1-9/16" x 1")  
Wall Track:  
(hemmed edge)

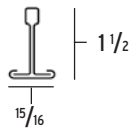
#### Furring Runner/ Furring Tees



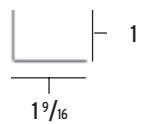
#### Cross Channel



#### Cross Tee



#### Wall Track





## 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.

### U.L.<sup>®</sup> 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

\* System used in upper plenum - Consult U.L. Fire Resistance Directory for details.

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

ALLOWABLE LOAD per ASTM C635 <sup>■</sup>					
Furring Runner	Length	Component Dimensions		Metal	Hanger Spacing 4'
		Face	Height		
650.00C	12'	1 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	.020	Heavy Duty
Furring Channel					
634.00C	4'	1 <sup>3</sup> / <sub>8</sub> "	7/ <sub>8</sub> "	.020	8.2
Furring Tees					
654.00C	4'	1 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	.020	18.6
674.00C	4'	1 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	.020	18.6
Cross Tee					
1274.01H	4'	1 <sup>5</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>2</sub> "	.020	16.7

<sup>■</sup> To convert data into lb/ft<sup>2</sup>, divide on center spacing of component into lb/ft.

### Membrane Loading

COMPONENT COMBINATION FR/FT	Data is Pounds Per Square Foot (PSF)	
	HANGER WIRE / FURRING TEE SPACING	
	48"/24"	32"/16"
650.00C / 654.00C	4.1▼	9.0▼
650.00C / 654.00C / 1274.01H	4.1▼	6.2▼
650.00C / 674.00C	4.1▼	9.0▼
650.00C / 674.00C / 1274.01H	4.1▼	6.2▼

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



Ceiling Systems and Specialty Products - USA and Canada: 800.323.7164 / Fax: 800.222.3744 / [chicagometallic.com](http://chicagometallic.com)

CHICAGO / BALTIMORE / LOS ANGELES / BELGIUM / DENMARK / UK / GERMANY / FRANCE / HONG KONG / PRC / MALAYSIA / UNITED ARAB EMIRATES / MEXICO

Chicago Metallic and its logo are Registered Trademarks of Chicago Metallic Corporation.

© 2006 Chicago Metallic Corporation All Rights Reserved C-SUB-G-650-1106 Printed in USA