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Part of ROCKWOOL Group

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Chicago Metallic® Spanfast® Drywall Grid

Installation Guide



System Overview

This guide covers the basic installation guidelines for Chicago Metallic Spanfast corridor framing system. The basic framework includes pre-notched locking channel and heavy duty runners. Installed properly, Spanfast runners can span up to 9' without the use of hanger wires. For longer spans, use the Spanfast Tees with the Heavy Duty Drywall grid main runner as the center support.

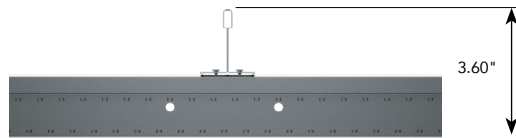


System Depth

Spanning beyond 9ft can be accomplished with 2 methods below. It's important to consider the system depth prior to installation.



Spanfast Tees
(with drywall grid main runner)



Spanfast Runners
(butt cutt options only)

Best Practices

Always follow good safety practices when installing ceilings. Prior to beginning installation ensure that all materials are received and in good condition. Record any shipping damage on the carrier's bill of lading and contact Rockfon immediately to order replacement material:

- Email: cs@rockfon.com
- Fax: 866-211-3824
- Customer Service: 800-323-7164

If there are any issues with your order, contact Customer Service at 1-800-323-7164, telephone option 1. E-mail replacement material orders, including your purchase order number on document, to cs@rockfon.com. For technical assistance, contact Technical Services at 1-800-323-7164, telephone option 2.

Reference Documentation

Several industry standards are published and available. Acoustical and metal ceiling installers should familiarize themselves with the installation methods and best practices recommended for ceiling systems.

Prior to installation, it's imperative the installer become familiar with any project specific documentation available. These items will confirm ceiling layout, panel sizes and finish, ceiling accessories, ceiling fixture layout and orientation, and any special edge conditions.

Industry Standard Documentation

- **ASTM C636 (Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels)**
- **CISCA Ceiling Systems Handbook**
- **ASTM C645 (Standard Specification for Nonstructural Steel Framing Members)**
- **ASTM C754 (Standard Specification for Installation of Steel Framing Members to Receive Screw Attached Gypsum Panel Products)**

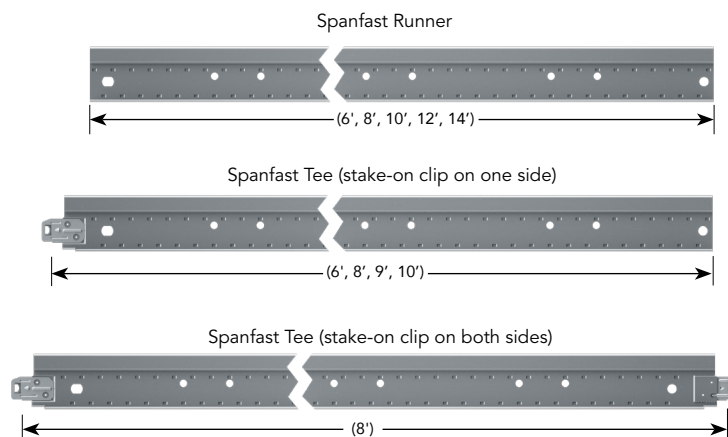
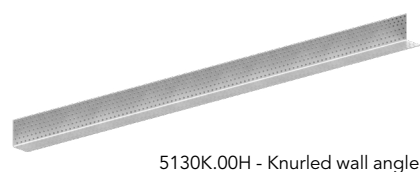
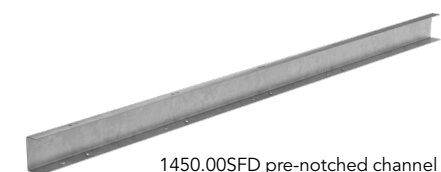
Project Specific Documentation

- Reflected ceiling plans
- Project specifications
- Approved project submittals (data sheets, shop drawings)

Tools Required

- Laser or leveling device
- Cutting knife/blades
- Marking tool (pencil)
- Pliers
- Clean gloves
- Aviation snips
- Tape measure
- Drill
- Screwdrivers (Phillips, Flathead)
- Ceiling clamps

System Components



Accessories

	Detail	Product Description	Catalog Number	Rockfon Part Number	Packaging	
					Pcs/Ctn	Lbs/ Ctn
Access Door Kits (GRG)		9" x 9" GRG Access Door and Frame	8501.00	250377	1	5
		12" x 12" GRG Access Door and Frame	8502.00	310081	1	6
		18" x 18" GRG Access Door and Frame	8503.00	310082	1	10
		24" x 24" GRG Access Door and Frame	8504.00	313253	1	13
		30" x 30" GRG Access Door and Frame	8505.00	313256	1	22
Bridging Yokes*		4" Bridging Yoke	MDY4.00	269908	ea	2.25
		6" Bridging Yoke	MDY6.00	269909	ea	2.25
Other Accessories		10" Coupling/Splice (50 pcs/ctn)	640.SF.10	366780	ctn	16
		90-Degree Horizontal Clip (25 pcs/ctn)	479.00	253183	ctn	5

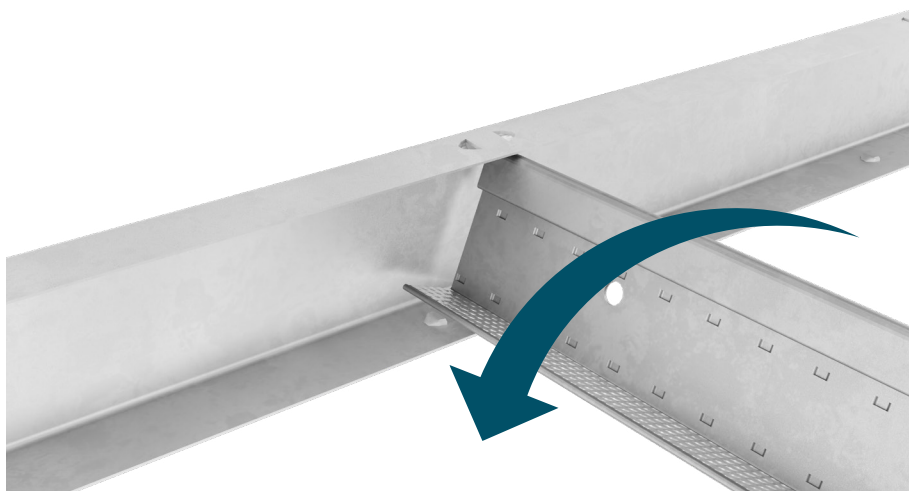
* Use support hangers as required when using bridging yokes.

1. Installation

Begin with installation of the pre-notched wall channel, ensuring the first notch is spaced equal distance from the wall on both sides. Alternate installation method includes the use of utility angle or 5130K.00H Knurled wall angle.



Next, at a slight angle, insert the Spanfast main runner into the top notch and rotate/snap into place.

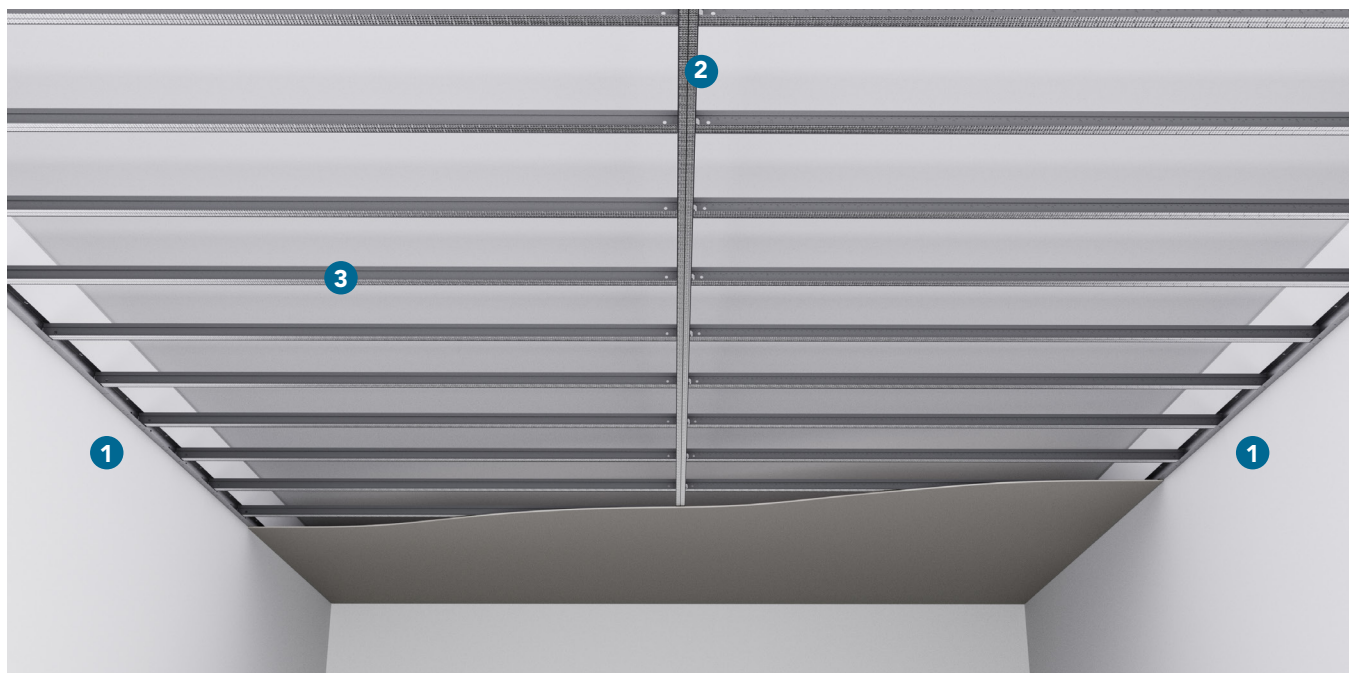


Continue with the remaining runners at 8", 16", or 24" spacing.



2. Center Support System (Spanfast Tee Option)

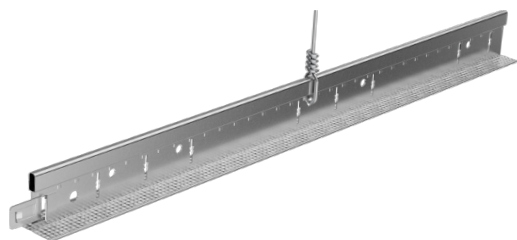
For longer runs that require a center support and maximum floor to ceiling height, see installation details below.



Step 1 - Install pre-notched wall channel



Step 2 - Install Chicago Metallic HD main runner



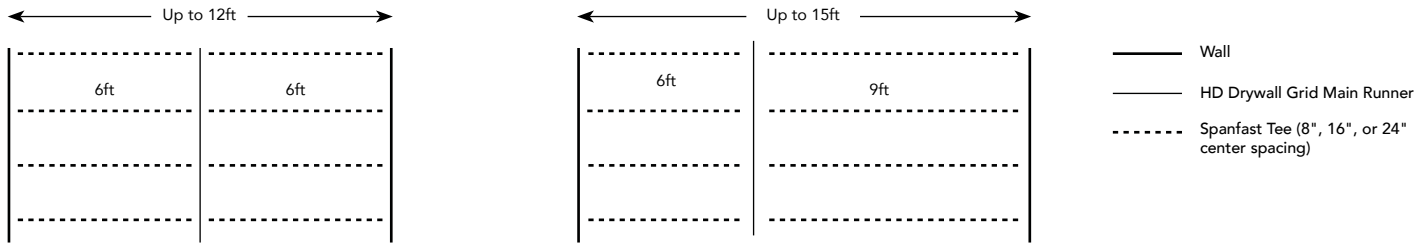
Step 3 - Install 6', 8', or 9' Spanfast tees according to room size by connecting to the HD main runner. Rotate and snap tees into channel.



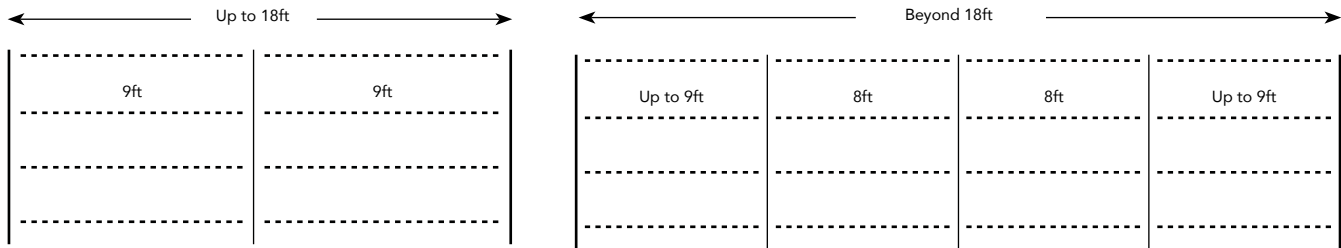
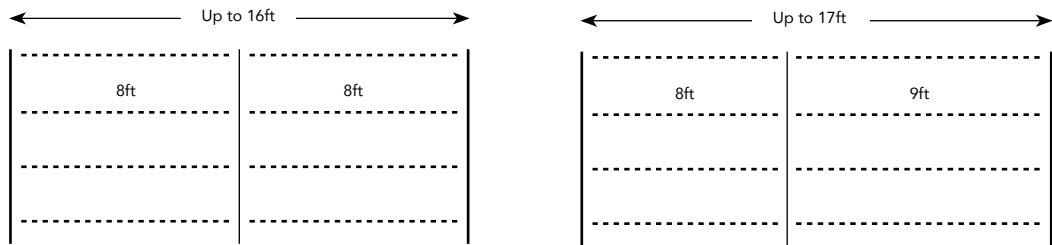
Note - Refer to allowable loading table for tee spacing guidance. Confirm before installation.

Layout Options (Spanfast Tees)

Maximize spanning capabilities with the options below.



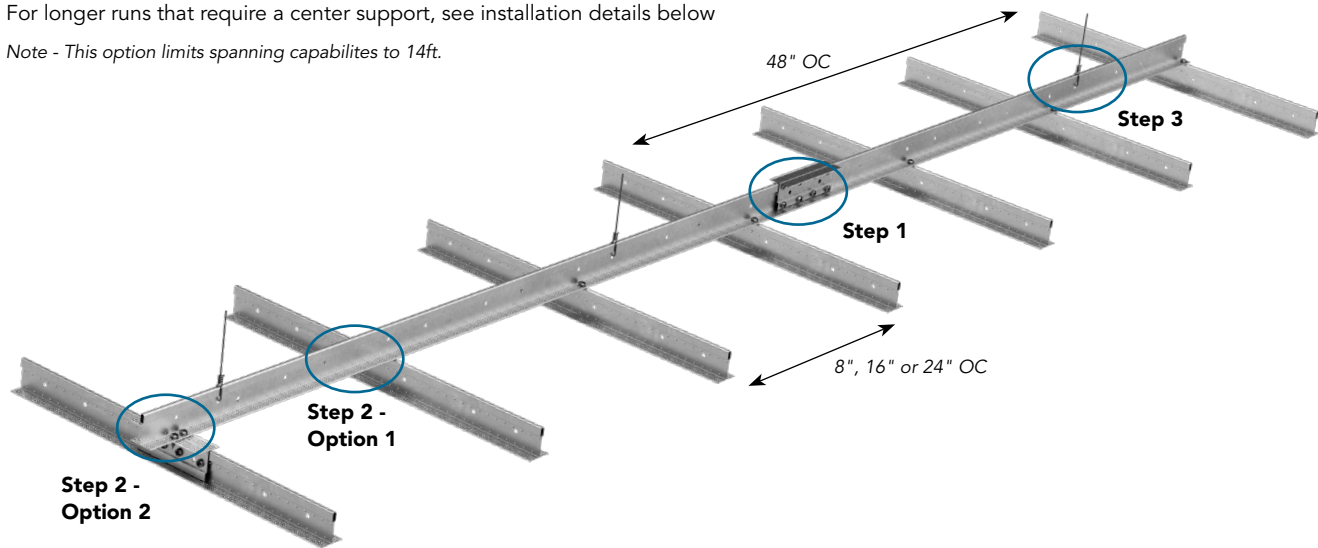
The spanfast tees give flexibility to avoid MEP obstructions by offsetting the center support.



3. Center Support System (Runner Option)

For longer runs that require a center support, see installation details below

Note - This option limits spanning capabilities to 14ft.



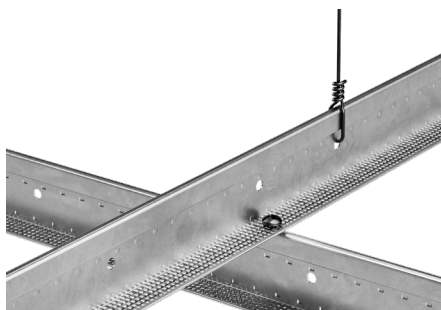
Step 1 - Install runners and splice

Install Spanfast runner perpendicular across the top of installed Spanfast tees and splice together with coupling/splice. Use 1" sharp point screws top and bottom. Option-field cut pieces of Spanfast can work as coupling/splices.



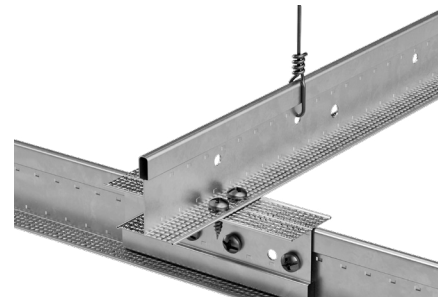
Step 2 - Fasten runners

Screw fasten runner to top of Spanfast Tee using Option 1 or Option 2 at right.



Option 1

Fasten directly to bulb of tee with 2 pan head screws.



Option 2

Install the Spanfast runner to the top of a field-cut section of inverted tee.

Step 3 - Vertical Brace (optional method)

For a rigid connection in lieu of hanger wires, use field cut sections of Spanfast to brace the system at 48" O.C.



4. Component Load Test Data

Performance

Wall to Wall Installation (Allowable Load Test Data)

Based on L/240 Span Deflection with No Lateral Bracing (Lb/Ft2)

Spanfast Runners	Spacing	Allowable Load (lb/sf) With No Lateral Bracing at L/240 (per ASTM C645)									
		Without Mid-Span Support							With Mid-Span Support		
		4'	5'	6'	7'	8'	8'-6"	9'	10'	12'	14'
640.SF (D)	8"	48.1	27.1	15.4	9.8	6.8	5.6	5.1	27.1	15.4	9.8
	16"	24.1	13.6	7.7	4.9	3.4	2.8	2.6	13.6	7.7	4.9
	24"	16.0	9.0	5.1	3.3	2.3	1.9	1.7	9.0	5.1	3.3

For spans greater than 9', utilize our Spanfast Tees in conjunction with our drywall grid HD main runner for maximum span capabilities and reduced hanger wire installation.

Customer responsible for confirming applied load weights before installation.

Additional weight of ceiling fixtures should not be applied to Spanfast Runners or Tees and should be supported from structure above.

Main Runner/Cross Tee Combination (Allowable Load Test Data)

Drywall Grid Main Runner Center Support

Main Runner	Face	Height	Legnth	Simple Span, Deflection (LBS per LF)					
				24"		36"		48"	
				L/240	L/360	L/240	L/360	L/240	L/360
640.00D	1-11/2"	1.68"	144"	158.3	115.0	55.3	38.7	25.9	17.9

Component Combination	Allowable Load (lb/sf) with main runner center support (L/240)					
	(Hanger Wire / Cross Tee) Spacing			(Hanger Wire / Cross Tee) Spacing		
	48" / 8"	48" / 16"	48" / 24"	36" / 8"	36" / 16"	36" / 24"
(640.00D or 650.00D)/640.SF.72DT1	4.3	4.3	4.3	9.2	7.7	5.1
(640.00D or 650.00D)/(640.SF.96DT1 or DT2)	3.2	3.2	2.3	6.7	3.4	2.3
(640.00D or 650.00D)/640.SF.108DT1	2.9	2.6	1.7	5.1	2.6	1.7

Material

ASTM C 635 Heavy Duty (HD) furring runner classification; commercial quality 0.18 steel, G40 hot-dip galvanized body and knurled face, 1-1/2" width, 1.80" height.

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