



CATALOG

Chicago Metallic

CEILING SUSPENSION SYSTEM

Chicago Metallic Ceiling Suspension System by ROCKFON®

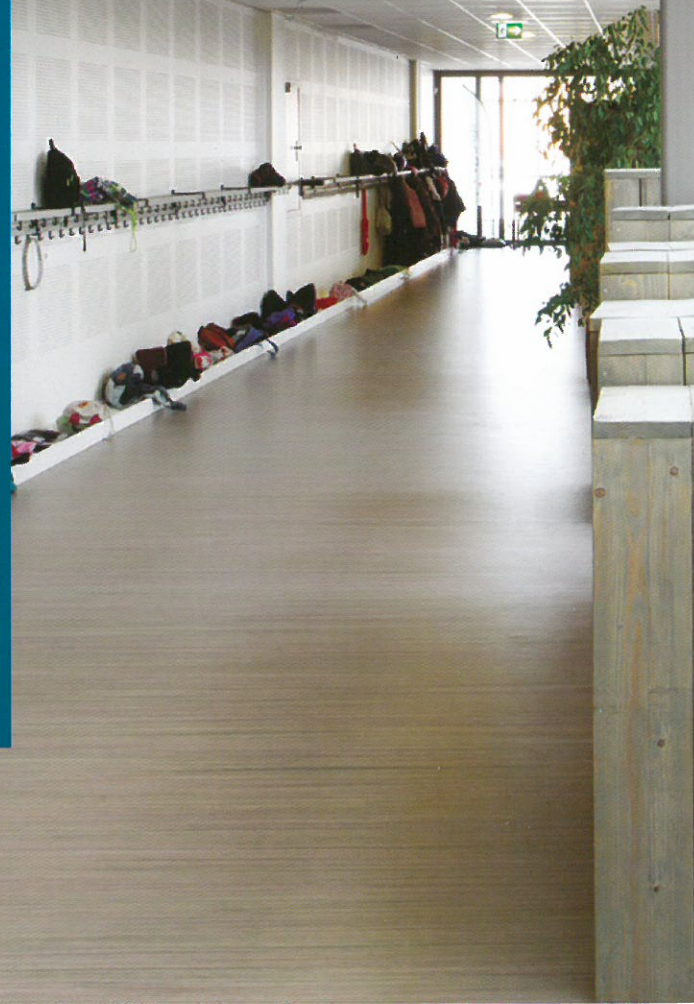
A pre-engineered, pre-decorated exposed tee bar fixing system which comprises of self interlocking main runners, cross tees and wall angles specially designed to maintain structural stability, whilst providing the aesthetic beauty of an exposed ceiling system.

The profiles are manufactured hot-dip galvanized steel. The exposed capping surface is further protected on both sides by a 5-8 microns thick oven-baked epoxy visible side by an additional 20-25 microns of polyester paint with a light reflectance of between 12% and 15%.

Chicago Metallic ceiling suspension systems are manufactured and tested in accordance to ASTM C-635, with mid-span deflection not exceeding 1/860 of the span length.

With the fire expansion relief, the intermediate duty system, RM1, is capable of providing up to 90 minutes fire protection as tested in accordance to BS 476: Part 23 by Warrington Fire Research Centre.

Chicago Metallic is now part of ROCKFON® ceiling solutions system.



ROCKWOOL
Rockfon®



Exposed Grid - 24mm Face Width

MAIN TEE

Chicago Metallic main Tee is manufactured with integral push lock at both ends to facilitate straight entry during installation.

RM1 FIRE-RATED INTERMEDIATE DUTY

RM1 main tees are rated intermediate duty in accordance to ASTM C 635 and are used in commercial structures where some ceiling loads, such as light fixtures and air diffusers, are anticipated. With the fire expansion relief, the grids are capable of providing up to 1 hour fire protection as tested under BS 476: part 23: 1987.

RM1LD - LIGHT DUTY MAIN TEE

RM1LD is recommended for residential, light commercial and industrial buildings where acoustical panels are used. No Fire expansion relief on the profile.

RM3 - LIGHT DUTY MAIN TEE

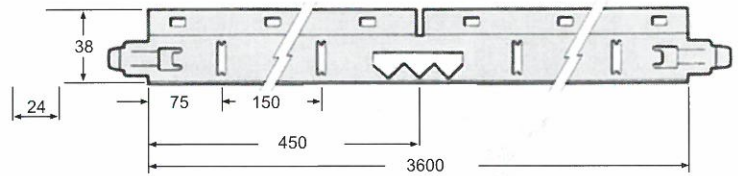
RM3 is recommended for residential, light commercial and industrial buildings where acoustical panels are used.

COMPONENT DETAILS

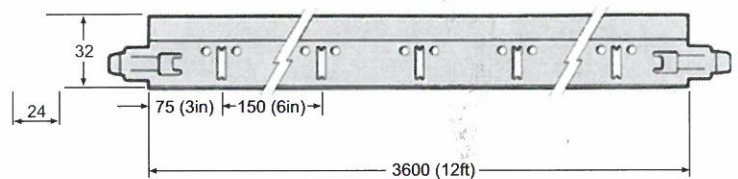
All dimensions in mm.

Main Runner

RM 1 / RM1LD



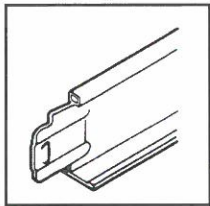
RM 3



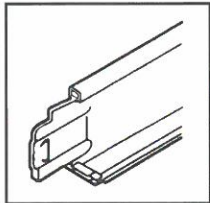
CROSS TEE

Standard cross tees are joggled with integral splice at both ends for straight entry locks to the main tee. Cross tees with butt ends are also available.

CROSS TEE END DETAILS



Butt end meets main tee flange

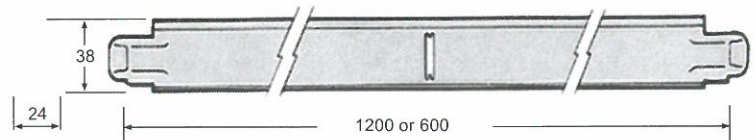


Joggle end rests on main tee flange

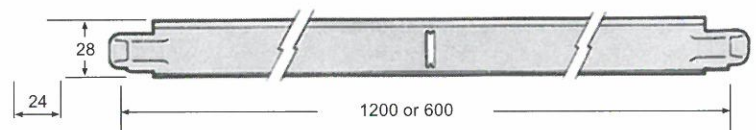
COMPONENT DETAILS

All dimensions in mm.

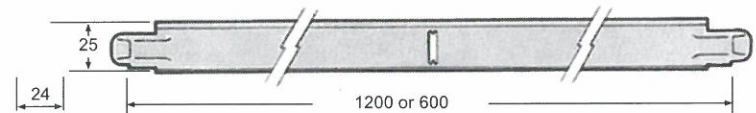
Cross Tee RC 11 - 1.2m & 0.6m



Cross Tee RC 10 - 1.2m & 0.6m



Cross Tee RC 9 - 1.2m & 0.6m



Note: 600 mm or 2ft Cross Tees have no centre slot

Exposed Grid - 14mm Face Width

SLIM TEE

MAIN TEE

4050 - Rigidlock 'Slim Tee' is a narrow flange exposed grid ceiling system designs of fire tolerance panels mainly of mineral fibre. As per ASTM C 635, the tees are rated intermediate duty.

CROSS TEE

Slim Cross Tees are joggled with integral splice at both ends for straight entry lock to the main tee.

SYSTEM COMBINATION

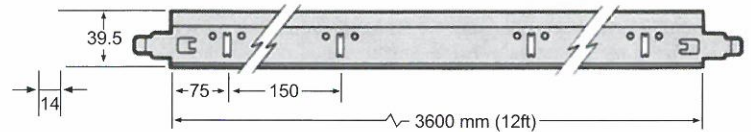
1. Light Duty : 4051: 3.6m (Main Tee)
4052: 1.2m (Cross Tee)
4054: 0.6m (Cross Tee)

2. Heavy Duty : 4050: 3.6m (Main Tee)
4052: 1.2m (Cross Tee)
4054: 0.6m (Cross Tee)

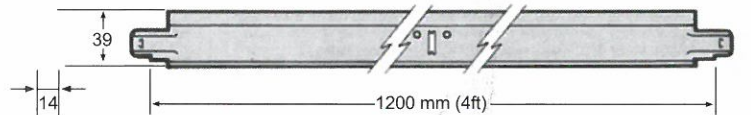
COMPONENT DETAILS

All dimensions in mm.

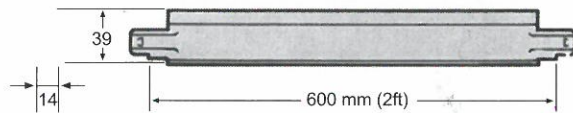
Main Runner 4050 - 3600mm long



Cross Tee 4052 / 4654 1200mm or 4ft long - with centre slot



Cross Tee 600mm or 2ft long - without centre slot



MAIN RUNNER

Product Code	ASTM C635 Classification	Face Type	Web (H) Height (mm)	Normal Thickness (mm)	Length (mm)	Pc per Carton	Weight per ctn (kg)
HD3810	Heavy Duty	T24	20	0.40	3600	38	34
RM1	Intermediate Duty	T24	20	0.40	3600	38	26
RM1LD	Light Duty	T24	20	0.35	3600	38	22
RM3	Light Duty	T24	20	0.35	3600 (12ft)	32	20
4050	Heavy Duty	T15	20	0.46	3600	38	20
4051	Light Duty	T15	20	0.30	3600	38	21

CROSS TEE

RC9-2	T24	25	0.30	600 (2ft)	60	8
RC9-4	T24	25	0.30	1200 (4ft)	60	16.5
RC10-2	T24	28	0.30	600	60	8.7
RC10-4	T24	28	0.30	1200	60	17.5
RC11-2	T24	38	0.35	600	60	10.5
RC11-4	T24	38	0.35	1200	60	22
4052	T15	38	0.30	600	60	9.5
4054	T15	38	0.30	1200	60	21

SYSTEM COMBINATION

1. Light Duty : RM1LD: 3.6m (Main Tee)
 RM3: 3.6m (Cross Tee)
 RC9: 1.2m (Cross Tee)
 RC9: 0.6m (Cross Tee)

2. Intermediate Duty : RM1: 3.6m (Main Tee)
 RC10: 1.2m (Cross Tee)
 RC10: 0.6m (Cross Tee)

3. Heavy Duty : HD3810: 3.6m (Main Tee)
 RC11: 1.2m (Cross Tee)
 RC11: 0.6m (Cross Tee)



Installation

Before starting, make sure that all the necessary materials are available and that all services in the ceiling void are completed.

1 LEVELLING

Level the ceiling height by use of a water level or laser beam. Position of perimeter profiles is to be marked on walls, columns etc. Usually the perimeter angle should be placed level with under-side of ceiling tiles.

2 PERIMETER

Wall angle or Shadowline moulding should be fixed at maximum 600 centres. Use screws, stub nails or drywall fasteners depending on type of wall.

3 AND 4 DIVISION OF CEILING

The ceiling should preferably be set out from the centre to secure balanced width of tiles at perimeter. The centre-to-centre distance for Main runners and Cross tees is 600 x 600mm or 600 x 1200mm.

5 HANGERS

Maximum distance between hangers is 1200mm. From wall to first hanger the maximum distance is 400mm.

6 MAIN RUNNER

Main runners are spliced together by inserting a tab on the end of one section into a slot in the adjoining section.

7 CROSS TEE

Cross tees are inserted into slots in the Main runners and locked in position by a slight downward pressure. Cross tees are available in two standard lengths, 600mm and 1200mm or 2 ft and 4 ft.

8 ADJUSTMENT

When all profiles have been installed adjustment can be made to make sure that the entire suspension is level.

9 TILES

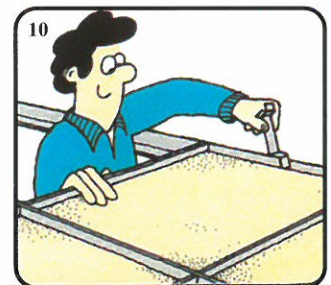
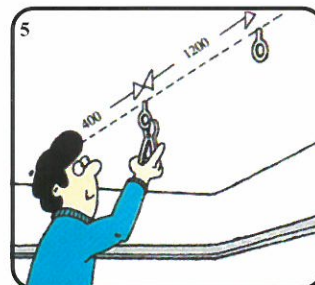
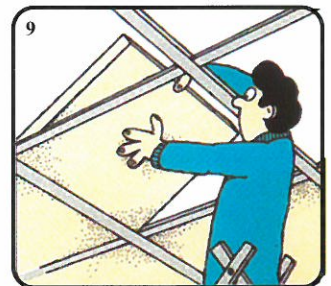
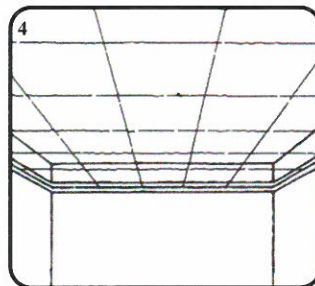
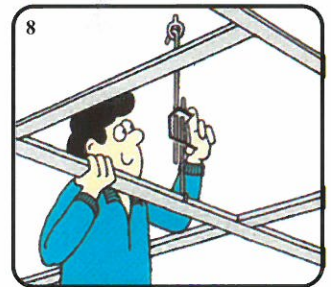
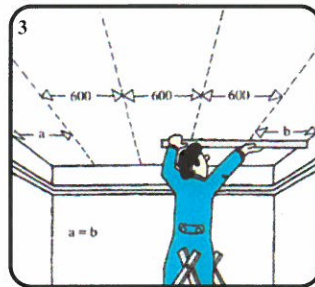
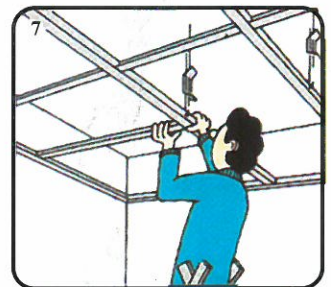
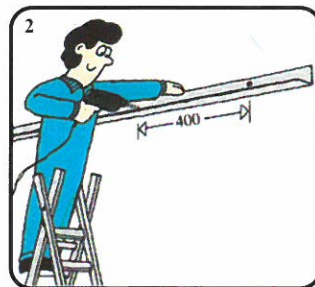
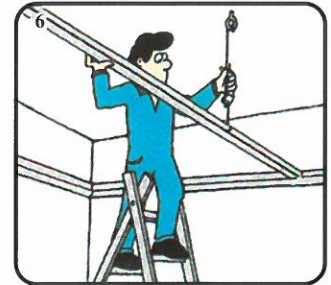
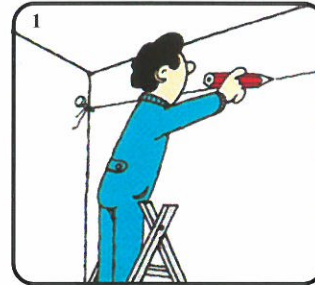
Ceiling tiles are simply laid in the grid. Where fire rated ceilings are required, hold down clip must be used. There must be at least two clips on each side and one clip at each end of every tile.

10 WALL CLIP

If necessary tiles along walls can be kept in position by using Wall Clips.

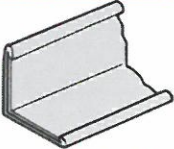
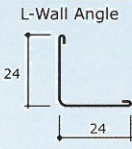
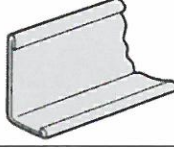
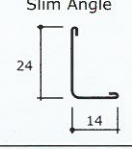
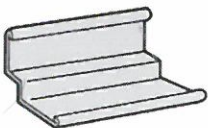
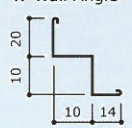
CUTTING

Cutting of profiles can be done by using a back saw starting from the painted side. Tiles should be cut with a carpenter's fine tooth saw, or by scoring with a sharp knife on face side. When using knife, bend the tiles over a sharp edge and complete cutting.



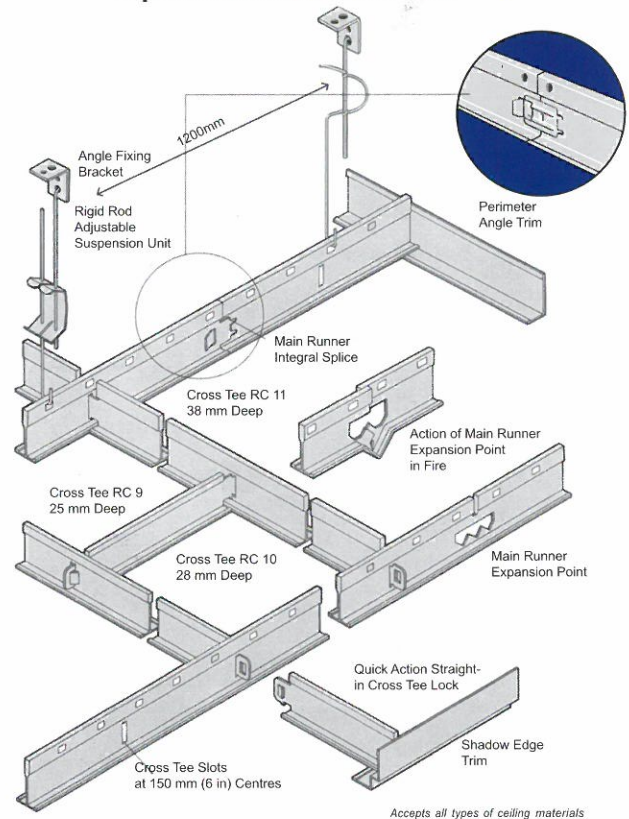
Perimeter Sections

PERIMETER SECTIONS AND ACCESSORIES

Product	Size (mm)	Normal Thickness (mm)	Length (mm)	Pc per Carton	Weight per ctn (kg)
 STANDARD ANGLE ARA-24/24	L-Wall Angle 	0.43	3000	40	21
 STANDARD ANGLE ARA-24/24	Slim Angle 	0.43	3000	40	18.5
 STANDARD ANGLE ARA-24/24	W-Wall Angle 	0.43	3000	40	22

A typical system of Main Runners and Cross Tees which interlock to provide accurate 1200 X 600mm or 600 X 600mm or 4ft X 2ft or 2ft X 2ft modules.

Exposed Grid - 24mm Face Width



We believe our acoustic stone wool and metal solutions for ceilings and walls are a fast and simple way to create beautiful, comfortable and safe spaces.

Easy to install and durable, they protect people from noise and the spread of fire. They are our way of making a constructive contribution towards a sustainable future.

Create and Protect is what drives us. It means putting people first, sharing success and maintaining trust.

It's our rock-solid promise to you. At ROCKFON, Create and Protect is what we do - and it's inspired by you.

ROCKFON Shanghai

Room 1406, Summit Centre
1088, Yan'an West Rd, Changning Dist
Shanghai, P.R.China (200052)
Tel. (+86) 21 6211 6725
Fax. (+86) 21 6211 3479
info@rockfon.cn
www.cn.rockfon.asia

ROCKFON Malaysia

15, Jalan Gemilang 1
Taman Perindustrian Cemerlang
81800 Ulu Tiram, Johor, Malaysia
Tel. (+607) 8673 539
Fax. (+607) 8673 525
www.rockfon.asia

ROCKFON Shenzhen

No. 6 Industrial Distruct
Tianliao Community
Guangming New Area
Shenzhen 518106 P.R.China
Tel. (+86) 755 2812 9517 / 2812 9518
Fax. (+86) 755 2812 9772
info@rockfon.cn
www.cn.rockfon.asia

ROCKFON Singapore

No. 8, Tuas Avenue 2
Jurong Town
Singapore 639448
Tel. (+65) 6861 4722
www.rockfon.asia

ROCKFON Hong Kong

Unit 2002-3, 20/F, Empress Plaza
17-19 Chantham Road South
Tsimshatsui, Kowloon, Hong Kong
Tel. (+852) 2576 6117
Fax. (+852) 2576 6326
www.rockfon.asia