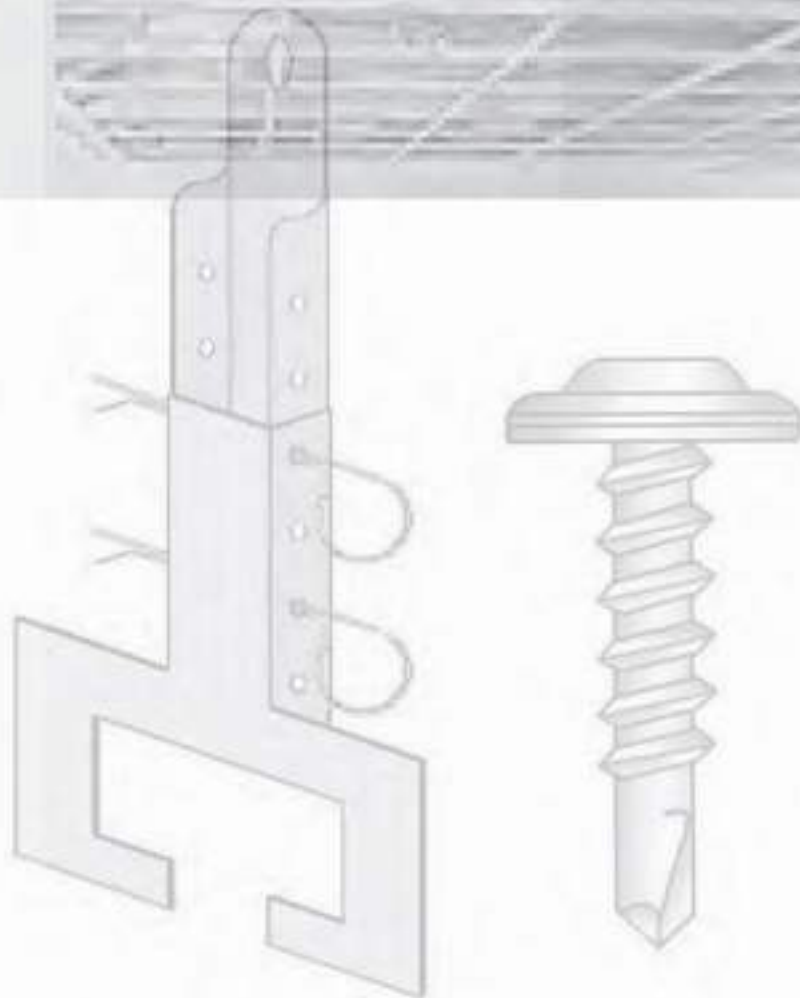


Fixing Accessories



Hangings And Fixing Systems for False Ceilings

3mm dia suspension wire

Suspended from cleats from concrete, or by tying around steel structures.

Advantages

In the hands of the expert installers, this can be the most economical hanging system. Where there are obstructions in the ceiling space, wires can be installed diagonally. Additional wires can be used to support local loads such as ceiling fittings. Can also be used as a hanging rod system with adjustment clips.

Disadvantages

As the wire has to be straightened on site, for common installers, initial deflections are unavoidable when the wires are loaded by the completed ceiling and its fittings.



3mm dia suspension wire

Threaded rod

Fixed into threaded inserts in concrete or welded to, or bolted through steel structures.

Advantages

Provides a rigid support for the ceiling system, and resist uplift. The screw threads allow fine leveling.

Disadvantages

Setting out must be accurate as there is little scope for side movement. Unless ceiling services are fully coordinated to suit the suspension layout which is uncommon, obstructions in the ceiling space make threaded rods impractical.



Threaded rod

Rigid suspension systems

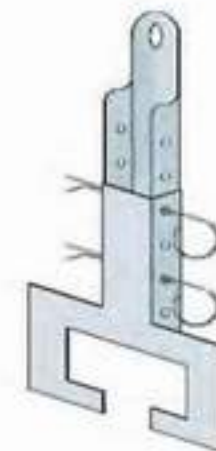
Suspended on straps from cleats fixed to the structure.

Advantages

Relatively rigid and resistant to uplift from are movement. Has built-in adjustment facility for leveling the ceiling. Can support relatively heavy ceiling fittings.

Disadvantages

Each rigid system is part of the particular proprietary ceiling system to which it relates and installers have to learn the characteristics of each system. The fittings must be ordered with the ceiling system and spare quantities are not generally useful for other jobs. Adjustment is limited by the spacing of holes, and fine adjustment is not possible.



Rigid suspension systems

Spring Tee Fixing Clip

Spring tee fixing clip commonly called as hanger is a galvanized steel used for concealed clip in system.



Spring Tee Fixing Clip

Adjustable spring clips attached together with the hanging wire for an easy adjustment on fixing suspended and concealed ceiling system.



Adjustable Spring Clips

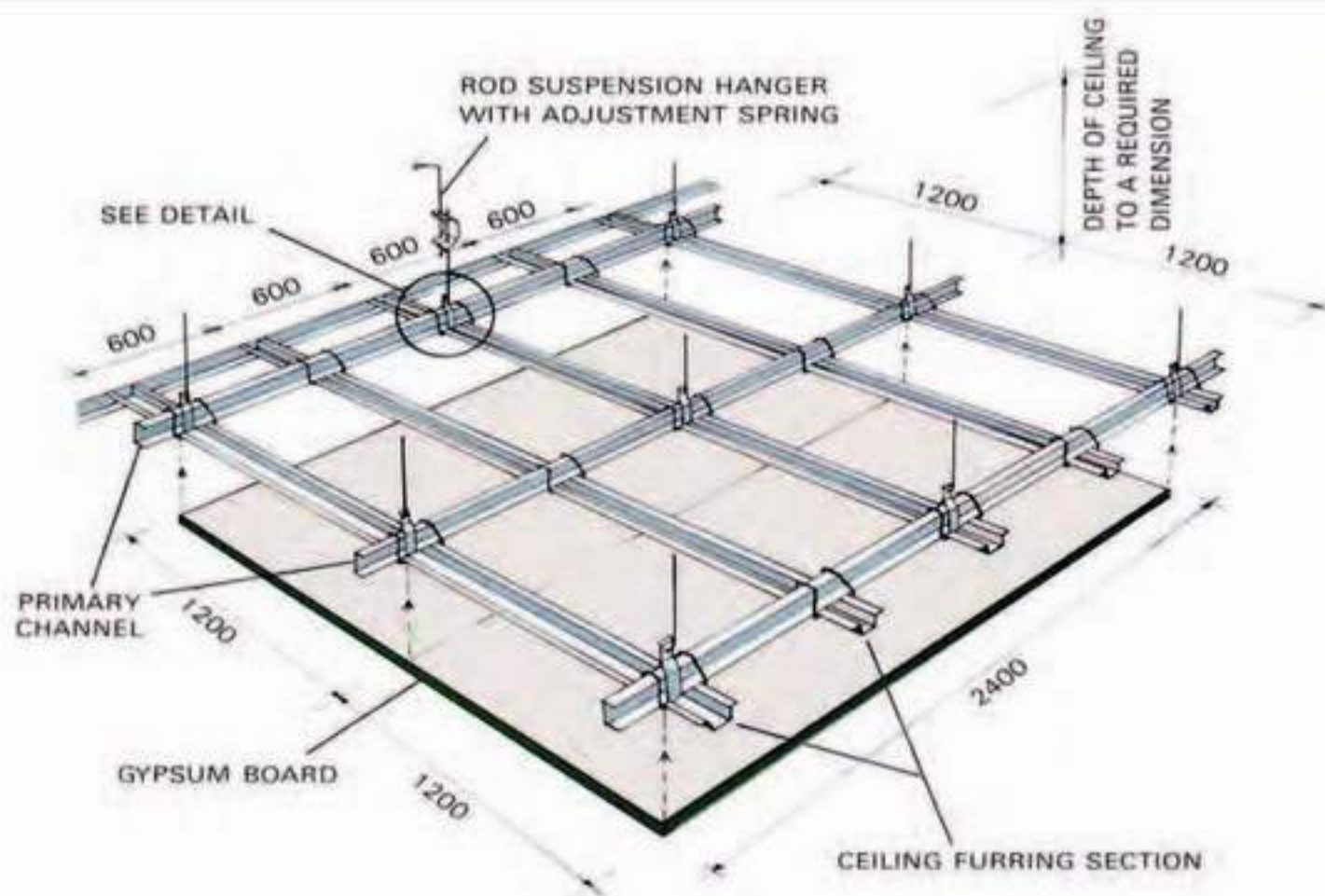
Typical Specification

Suspension shall be 4mm dia. galvanized annealed steel wire rods securely hooked through... (powder-actuated cleat fixing to concrete) or (spring-steel insert to pre-drilled hole) or (steel-beam hanger clip) at spacing not exceeding 1.2M in one direction.

Level adjustment clips shall be offspring steel min. 0.5 mm thick, electro-plated zinc, with clear chromate passivation.

Hanging rods shall be securely hooked to the carrier Tees, or channels of the ceiling system. Ceiling fittings which could overload the ceiling shall be suspended independently.

After the installation of all ceiling services, the ceiling shall be checked and adjusted for level. Where the ceiling maybe subject to air movement causing uplift, rigid bracing struts shall be installed between ceiling and structure to restrain movement.



Hanging rods with level adjustment clips

Suspended with cleats fixed to the structure or in the case of steel structure. can be looped over the members.

Advantages

- Inexpensive and effective
- Can be used to suspend almost any proprietary ceiling system, as well as plain ceilings.
- Readily bent into hooks or loops to suit upper and lower fixing
- Uses any common fixings to the structure.
- Works with varying ceiling heights and sloping structures.
- Can be installed rapidly by non-expert labour.
- Adapts easily to avoid ceiling obstructions
- Allows fine leveling of the ceiling, and future adjustment.

Disadvantages

- Requires additional rigid strutting where abnormal air movement could cause uplift.



Hanging rods with adjustment clips

Main Channel Bracket

There are two sizes for the Main Channel Bracket, MC 38 and MC 45 with the height of 38mm and 45mm and the thickness is from 0.70mm up to 1.5mm. It holds the main bracket especially in the furring ceiling systems.



Main Channel Bracket

Wedge Clip

Wedge Clip holds down the gypsum board or any ceiling tiles to prevent from movement and serves as lock together with the edge trim.



Wedge Clip

Preformed Wire Clip

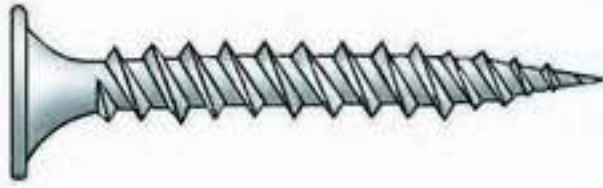
Preformed wire clip is commonly used for comprising suspended main channel with the furring channel to attached each other.



Preformed Wire Clip

DRYWALL SCREWS

Bugle Head Sharp



- Twin lead point for increased holding power and faster penetration

Size	Qty./Box (M)	Wt./Box (lbs.)	Application
6 x 1	10	30	An outstanding Drywall Screw available for attaching Drywall to metal studs from 25 through 20 gauge.
6 x 1 1/8	10	32	
6 x 1 1/4	8	29	
6 x 1 5/8	5	23	
6 x 2	3.5	19	
6 x 2 1/4	3	20	
7 x 2 1/2	2.5	20	Excellent long fasteners for multiple layers drywall, insulation and accessory mounting.
8 x 2 1/2	2.5	24	
8 x 3	2	23	
10 x 3 1/2	1.5	27	
10 x 3 3/4	1.5	30	
10 x 4	1	21	

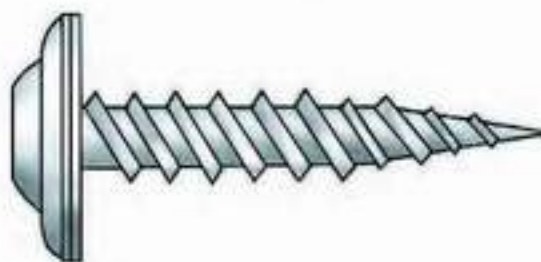
Pan Framing Sharp



- Serrations under head to prevent spinning

Size	Qty./Box (M)	Wt./Box (lbs.)	Application
6 7/16	15	33	For attaching steel studs track up to 20 gauge
7 x 7/16	15	40	

Wafer Lath Sharp



Size	Qty./Box (M)	Wt./Box (lbs.)	Application
8 x 9/16	10	42	For attaching K-lath or metal lath to metal studs up to 20 - 25 gauge.
8 x 3/4	8	36	
8 x 1	5	29	
8 x 1 1/4	5	35	
8 x 1 1/2	4	30	
8 x 1 5/8	4	33	
8 x 2	2.5	27	

Trim Head Sharp



- Phillips or square drive.

Size	Qty./Box (M)	Wt./Box (lbs.)	Application
6 x 1	10	30	Finish screw for fastening of base and wood trim through D/W to metal studs.
6 x 1 5/8	5	19	
6 x 2 1/4	3	16	
7 x 1 5/8	5	24	
7 x 2 1/4	3	19	
8 x 3	2	22	

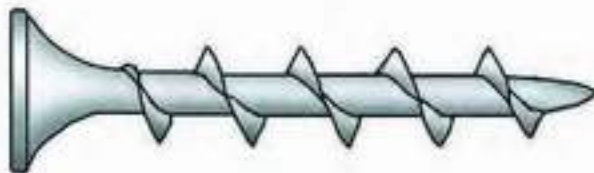
DRYWALL SCREWS

Laminating Screw



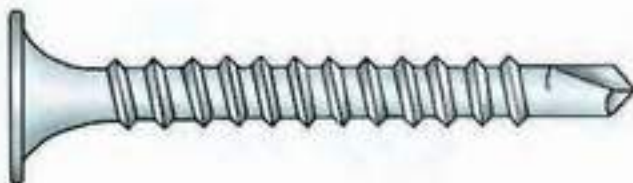
Size	Qty./Box (M)	Wt./Box (lbs.)	Application
10 x 1 1/2	5	38	Laminating Screw for attaching drywall to drywall.

Coarse Hi - Thread



Size	Qty./Box (M)	Wt./Box (lbs.)	Application
6 x 1	10	30	The most complete line of coarse thread drywall screws. Primary Application of D/W to wood Also in 2 x 2 wood cabinet installation
6 x 1 1/8	10	32	
6 x 1 1/4	8	29	
6 x 1 1/2	6	26	
6 x 1 5/8	5	23	
6 x 2	3.5	19	
6 x 2 1/4	3	19	
7 x 1 3/4	4	21	
7 x 2	3.5	23	
8 x 2 1/2	2.5	23	
8 x 3	2	22	
10 x 3 1/2	1.5	27	
10 x 4	1.5	32	

Bugle Head Self Drill



Size	Qty./Box (M)	Wt./Box (lbs.)	Application
6 x 1	10	34	Fastening gypsum board and other material to 12 gauge metal studs.
6 x 1 1/8	10	37	
6 x 1 1/4	8	32	
6 x 1 5/8	5	25	Maximum drive speed is recommended up to 2500rpm, also be used in wood to metal fastening where wood is pre-drilled.
6 x 1 7/8	4	23	
8 x 2 3/8	2	18	
8 x 2 5/8	2	20	
8 x 3	2	24	

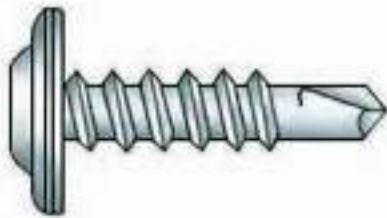
Pan framing Self Drill



Size	Qty./Box (M)	Wt./Box (lbs.)	Application
7 x 7/16	15	45	For attaching steel track to 18 - 20 gauge metal studs.
8 x 1/2	10	31	

DRYWALL SCREWS

Wafer Lath Self-Drill



Size	Qty./Box (M)	Wt./Box (lbs.)	Application
8 x 1/2	10	36	For attaching metal lath to heavy gauge (14-20) metal studs.
8 x 3/4	10	49	
8 x 1	5	25	
8 x 1 1/4	5	30	
8 x 1 5/8	4	34	

Trim Head Self-Drill



□ Phillips or square drive.

Size	Qty./Box (M)	Wt./Box (lbs.)	Application
6 x 1	10	30	For attaching base board or wood trim to heavy 18-20 gauge metal studs.
6 x 1 5/8	5	32	
6 x 2 1/4	3	29	
7 x 1 5/8	5	26	
7 x 2 1/4	3	23	

Hex Head Self-Drill no. 4 point



Size	Qty./Box (M)	Wt./Box (lbs.)	Application
12-24 x 7/8	5	48	Mainly used for metal to steel applications up to 3/8" thick.
12-24 x 1 1/4	4	48	
12-24 x 1 1/2	2	26	
12-24 x 2	2	36	

Hex Head Self Drill no. 5 point



Size	Qty./Box (M)	Wt./Box (lbs.)	Application
12-24 x 7/8	5	48	Mainly used for metal to steel applications up to 1/2" thick.
12-24 x 1 1/4	4	48	
12-24 x 1 1/2	2	26	
12-24 x 2	2	36	

DRYWALL SELF DRILLING SCREWS

Thin Wafer Plymetal Self-Drill



- #3 point. #2 Phil Recess

Size	Qty./Box (M)	Wt./Box (lbs.)	Application
10-16 x 3/4	7	42	For attaching plywood to metal with 0.220 maximum thickness. Recommended for flooring and trailer bed applications.
10-24 x 3/4	7	42	
10-24 x 1	5	34	
10-24 x 1 1/4	3.5	31	
10-24 x 1 1/2	3	31	

Thin Wafer Plymetal Self-Drill with Wings



- Wings bore out and relieve wood chips before breaking off at metal.
- #3 point. #2 Phil Recess

Size	Qty./Box (M)	Wt./Box (lbs.)	Application
10 - 24 x 1 7/16	4	37	For attaching plywood or sheathing to metal framing. Wings clear plywood from threads.

Wood Screws/Flat Square Head/ Coarse Thread



- Phillips or square drive.

Size	Qty./Box (M)	Wt./Box (lbs.)	Application
8 x 1	10	38	For cabinet installation and also used in other hard wood to wood applications. Square drive creates more positive driving.
8 x 1 1/4	8	36	
8 x 1 1/2	6	32	
8 x 1 3/4	4	26	
8 x 2	3.5	25	
8 x 2 1/4	3	21	
8 x 2 1/2	2.5	23	
8 x 3	2	24	


PARTICLE BOARD SREWS

Phillips/Flat Head




Size	Qty./Box (M)	Wt./Box (lbs.)	Application
6 x 1/2	20	47	Used as hinge screw and also used in kitchen cabinet applications.
6 x 5/8	20	49	

SELF-DRILL ZINC PLATED SCREWS

	Size	Qty./Box (M)	Wt./Box (lbs.)	Application
	Hex Washer Head Self-Drill 	6 x 1/2	7	42
6 x 3/4		7	35	
8 x 1/2		3.5	33	
8 x 5/8		3	37	Metal to Metal fastening used in light sheet metal and light gauge steel framing. Mainly used in ductwork assembly.
8 x 3/4		7	43	
8 x 1		7	38	
8 x 1 1/4		5	32	
8 x 1 1/2		3.5	39	
8 x 2		3	27	
10 x 1/2		10	49	Metal to metal fastening used in medium gauge sheet to framing. Mainly used by sheet metal, H.V.A.C. contractors and fabricators.
10 x 5/8	7.5	44		
10 x 3/4	7	45		
10 x 1	5	37		
10 x 1 1/4	3.5	31		
10 x 1 1/2	3	33		
10 x 2	2	23		
10 x 3	1.5	25		
12 x 3/4	5	42	Metal to metal fastening. Used in sheet metal to attach to purlins and channels. Mainly used in .11 to .175 metal thickness.	
12 x 1	3.5	35		
12 x 1 1/4	3.5	41		
12 x 1 1/2	2.5	33		
12 x 2	2	33		
12 x 2 1/2	1	21		
12 x 3	1	22		
14 x 3/4	3.5	43	Metal to metal fastening for heavy gauge metal attachment. Mainly used in .110 to .210 metal thickness.	
14 x 1	2.5	30		
14 x 1 1/4	2	35		
14 x 1 1/2	2	39		
14 x 2	1.5	36		
14 x 2 1/2	1	28		
14 x 3	1	32		
14 x 4	9C	33		
14 x 5	5C	28		

SELF-DRILL ZINC PLATED SCREWS

Pan-Head Self-Drill	Size	Qty./Box (M)	Wt./Box (lbs.)	Application
				
6 x 1/2	15	31		
6 x 5/8	10	24		
6 x 3/4	10	29		
6 x 1	10	35		
8 x 1/2	10	32		
8 x 5/8	10	35		
8 x 3/4	10	38		
8 x 1	7.5	37		
8 x 1 1/4	5	29		
8 x 1 1/2	5	34	For fastening into metal up to 12 gauge.	
8 x 2	3	31		
10 x 1/2	10	45		
10 x 5/8	8	41		
10 x 3/4	7.5	45		
10 x 1	5	38		
10 x 1 1/4	3.5	32		
10 x 1 1/2	3	28		

