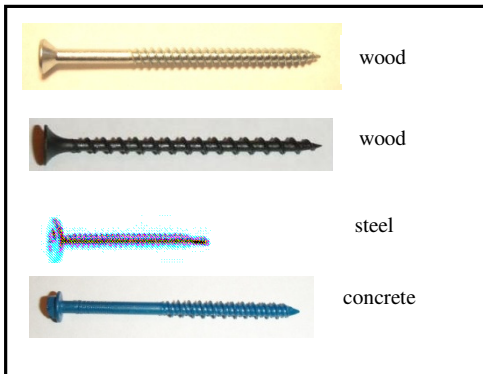
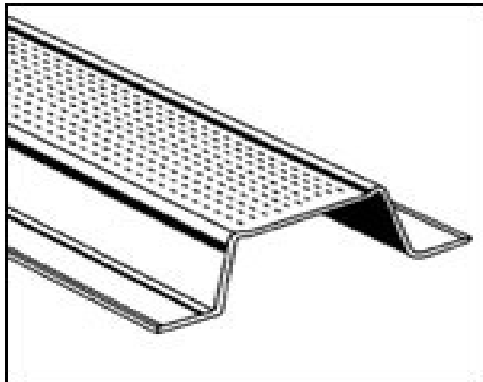


## GENIE CLIP - TYPE RST

### Resilient Sound Isolation Clip

## INSTALLATION INSTRUCTIONS

**NOTE** If at any time there is a question or concern as to the installation methods please contact Sound Service (Oxford) Ltd.



#### GENIE CLIP TYPE RST SPECIFICATIONS

Width.....	1- <sup>5</sup> / <sub>8</sub> " (41.6 mm)
Height.....	1" (25 mm)
Length.....	2- <sup>1</sup> / <sub>2</sub> " (64.1 mm)
Weight.....	1.25 oz. (40 grams)
Max Spacing on Top Hat Channel.....	48 in. on center
Max Acoustic Design Load.....	36 lbs (16 kilo)

#### Plasterboard Steel Channel Specifications (Hat Channel)

Gage minimum.....	25g. With hemmed edges
Width min at base.....	2.5" (63.5 mm)
Width max recommended at base.....	2.75" (70 mm)
Width at top.....	1.25" (32 mm)
Height standard.....	7.8" (22 mm)
Max Clip Spacing on Top Hat Channel.....	48 in. on center
Max Acoustic Design Load per clip.....	36 lbs (16 kilo)
<b>NOTE</b> – Splice steel channel with 6" (150 mm) overlaps in mid span between clips. Secure with 18g. Wire or (2) two 7/16" framing screws.	
<b>IMPORTANT !!!</b> Top Hat Channels <b>MUST</b> have hemmed edges	

#### Fasteners for Wood Steel or Concrete

**Wood** Wood #8 x 2-1/2 Course Threads, or # 8 x 2-1/2" Course thread Self-drilling screws

**Steel** #8, #10 or #12 – 1-5/8" Self Tapping , fine thread, Type S

**Concrete** 3/16" or 1/4" x 2-1/4" long Anchors Screws

**NOTES**

- Use fasteners that will have a minimum of 120 lbs pull out or shear strength in the wood, steel or concrete substrate.
- Tighten fasteners until they come into solid contact with the top washer on the Genie Clip. For best acoustic results **DO NOT OVER TIGHTEN**



EST. 1969

Crawley Mill, Dry Lane, Witney, Oxfordshire, OX29 9TJ

sales@soundservice.co.uk

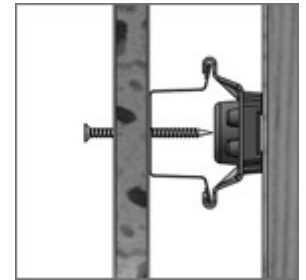
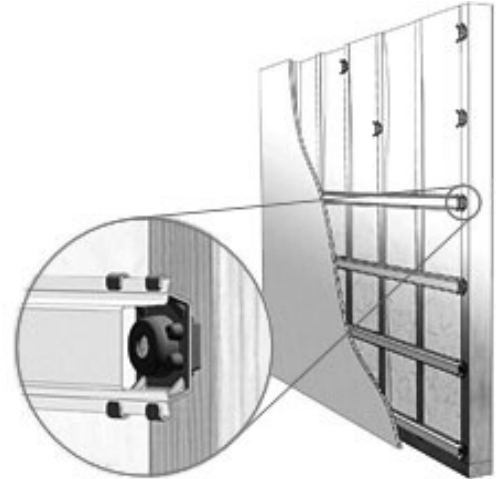
VAT NO: GB 434 5018 73 REG NO: 960986

Tel : 0845 363 7131

Fax : 01993 779569

## NOTES One and Two Layers of 5/8" Drywall

- Genie Sound Isolation Clips shall not exceed 48" on centres. (horizontal)
- Spacing between the steel channels (hat channel) shall not exceed 24". Steel channels are installed perpendicular to the floor.
- Fasten the Sound Isolation Clips to the substrate with a fastener approved for a minimum pull out and shear of 120 lbs.
- Tighten fasteners until they come into solid contact with the top washer on the Genie Clip.  
For best acoustic results DO NOT OVER TIGHTEN
- Locate the bottom row of steel channel within 3 to 6" of the floor and install in a pattern roughly as per drawing below.
- Locate the top row of steel channel within 6" of the ceiling.
- Install all other rows of steel channel ensuring maximum spacing between rows does not exceed 24"
- Add additional short rows of steel channel and clips to pick up plasterboard edges around doors and windows as needed.
- Snap steel channel into the Genie Clips and make joints between clips with a 6" overlap. Secure with 18g. wire or 2<sup>7</sup>/<sub>16</sub>" framing screws.
- IMPORTANT Before any plasterboard is applied place ¼" to 3/8" shims on floor to fully support plasterboard.
- Install plasterboard (drywall) from the bottom up leaving ¼" spacing (min) around total perimeter.
- ONLY remove the shims after ALL plasterboard is installed and screwed to ALL top hat channels. Ensure that every screw is installed according to assembly design in each layer of plasterboard. Shims are critical for best acoustic results.
- For best acoustic results, if there is more than one layer of plasterboard, joints should be staggered.
- ONLY when plasterboard application is complete with all required screws can the shims be removed.
- Seal around the entire perimeter of the plasterboard wall filling the gaps with non hardening, intumescent acoustic sealant. Do not install sealant so that it is 'proud' of the plasterboard surface.
- After sealant has set, tape and finish as usual.



**NOTE** It is *impossible* to "short out" the Genie Clip System. Should the installer hit a clip location, they will not be able to 'seat' the screw. They will be forced to move left or right on the track away from the Genie Clip.

# CEILING INSTALLATION GUIDE

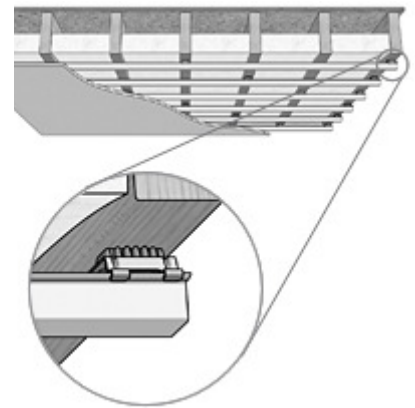
## NOTES One and Two Layers of 5/8" Acoustic Plasterboard

- Genie Sound Isolation Clips shall not exceed 48" on center. (horizontal)
- Spacing between the steel channels (hat channel) shall not exceed 24". Steel channels are installed perpendicular to the joists.
- Fasten the Sound Isolation Clips to the substrate with a fastener approved for a minimum pull out and shear of 120 lbs.
- Tighten fasteners until they come into solid contact with the top washer on the Genie Clip.

For best acoustic results DO NOT OVER TIGHTEN

- Locate the first row of steel channel within 3" to 6" of the wall edge and install in a pattern roughly as per drawing below.
- Locate the last of top hat channel within 3" to 6" of the opposite wall.
- Install all other rows of top hat channel ensuring maximum spacing between rows does not exceed 24".

IMPORTANT NOTE If the cavity is to have AMW type acoustic mineral wool infill some codes require that steel members not exceed 16" on centers. Check with local building and fire codes.



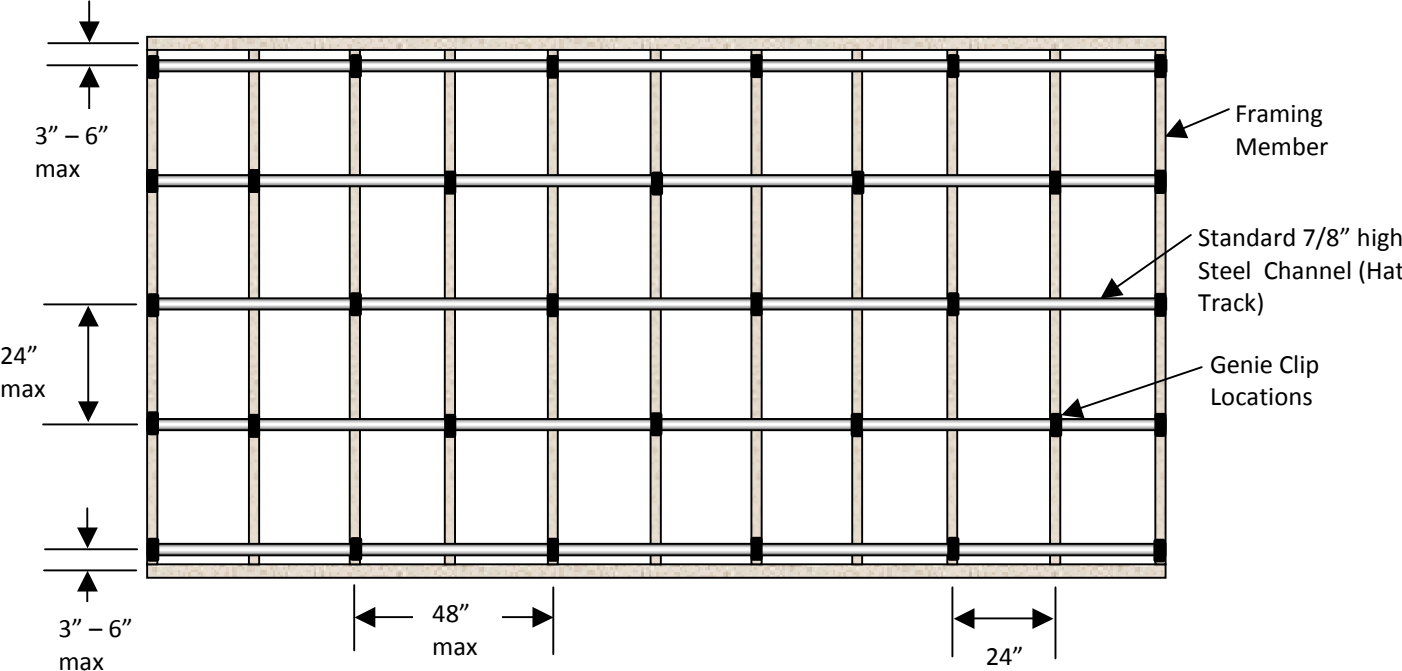
- Top hat channels shall not be cantilevered more than 6" beyond the last sound control clip.
- Snap steel channel into the Genie Clips and make joins between clips with a 6" overlap. Secure with 18g. wire or 2 7/16" framing screws.
- For best acoustic results if there is more than one layer of plasterboard, joints should be staggered.
- Seal around the entire perimeter of the plasterboard wall filling the gaps with non hardening, intumescent acoustic sealant. Do not install sealant so that it is 'proud' of the gypsum board surface
- After acoustic sealant has set, tape and finish as usual.

## General Information

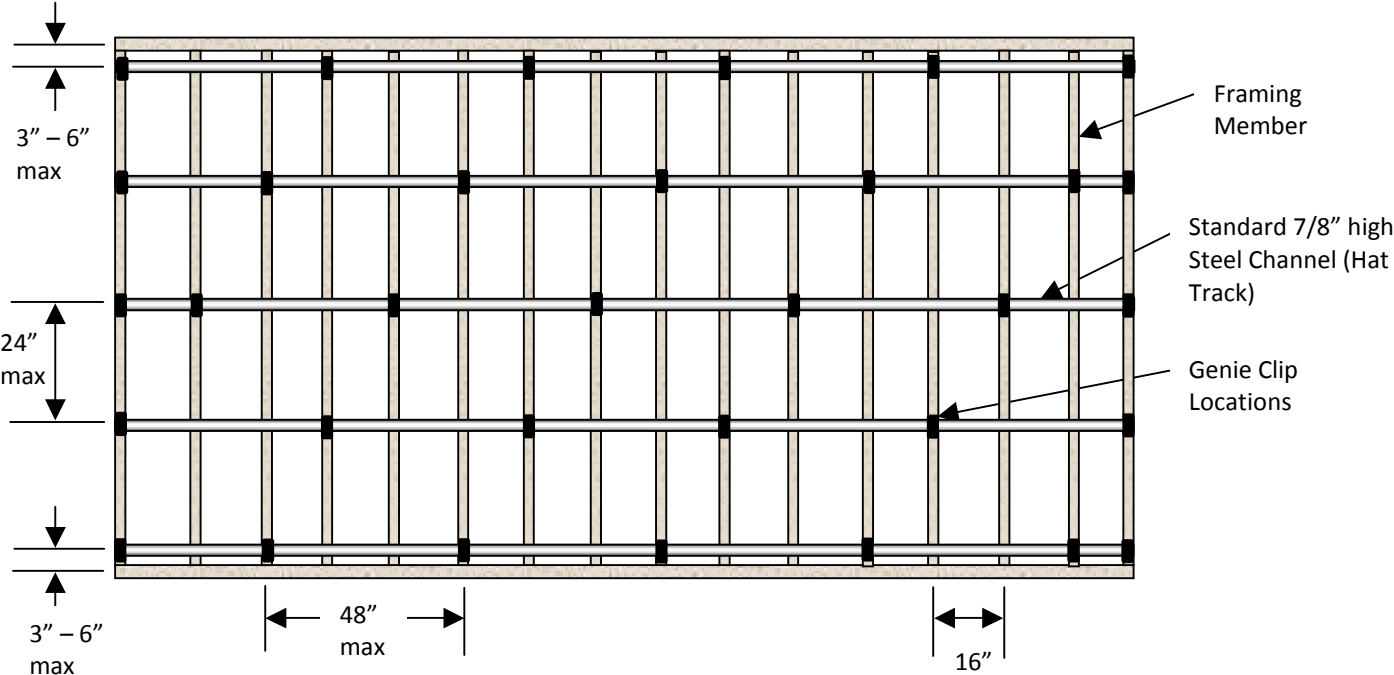
- It is advised that heavy point loads such as cabinets or book shelves are not fitted to GenieClip supported walls.
- Resilient Sound Isolation Clips and high density acoustic plasterboard shall The steel channel must have hemmed edge. Splice steel channel in mid span between clips with 6" overlap, securing with 18g. wire or 2- 7/16" framing screws.
- For best acoustic results seal all potential air leaks with non-hardening acoustic sealant. Use fire rated sealant where required. Resilient putty pads should be used to seal back of outlet boxes along with acoustic sealant.
- Steel studs shall be a minimum of 20g.

# FOR WOOD OR STEEL FRAMING with Channels on 24" centers

Wall or Ceiling Framing at 24" o.c.  
 Genie Clips at 48" o.c., channels at 24" o.c. 1 or 2 Layers of 5/8" Plasterboard



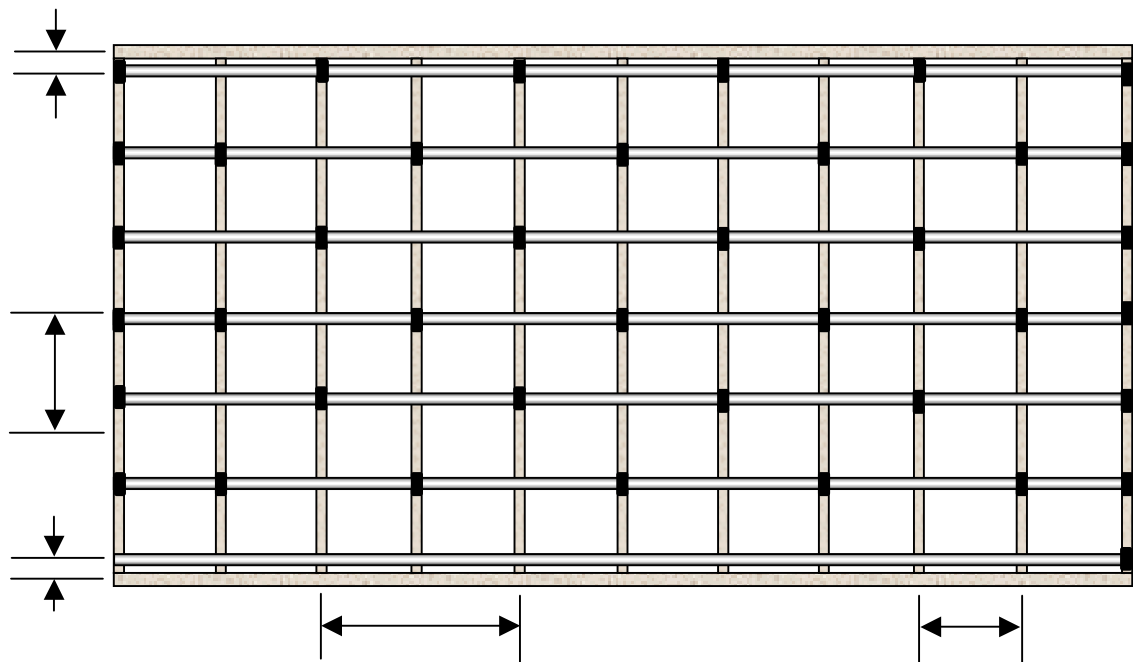
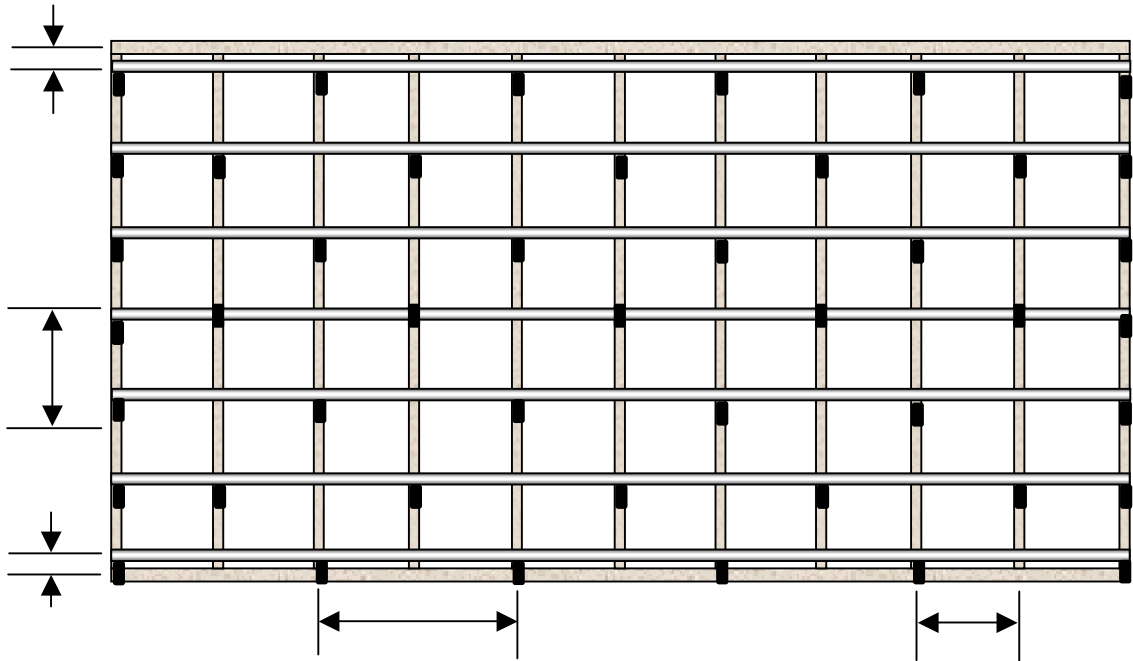
Wall or Ceiling Framing at 16" o.c. <sup>16"</sup>  
 Genie Clips at 48" o.c., channels at 24" o.c. 1 or 2 Layers of 5/8" Plasterboard



# WALL AND CEILING INSTALLATION GUIDE

## FOR WOOD OR STEEL FRAMING with Channels on 16" centers

NOTE: For when code dictates steel channel must be on 16" centers or when loading with 3 layers of plasterboard



**ESTIMATED GENIE CLIP USAGE CHART FOR WALLS AND CEILINGS  
STEEL OR WOOD FRAMING (CLIPS SPACED 48" o.c. FURRING 24"o.c.)  
FOR ONE OR TWO LAYERS OF 5/8" ACOUSTIC PLASTERBOARD**

	1~4'	5~8	9~12	13~16	17~20	21~24	25~28	29~32	33~36	37~40
1~3'	4 <sub>pcs</sub>	6	8	10	12	14	16	18	20	22
3~5	6	9	12	15	18	21	24	27	30	33
5~7	8	12	16	20	24	28	32	36	40	44
7~9	10	15	20	25	30	35	40	45	50	55
9~11	12	18	24	30	36	42	48	54	60	66
11~13	14	21	28	35	42	49	56	63	70	77
13~15	16	24	32	40	48	56	64	72	80	88
15~17	18	27	36	45	54	63	72	81	90	99
17~19	20	30	40	50	60	70	80	90	100	110
19~21	22	33	44	55	66	77	88	99	110	121
21~23	24	36	48	60	72	84	96	108	120	132
23~25	26	39	52	65	78	91	104	117	130	143
25~27	28	42	56	70	84	98	112	126	140	154
27~29	30	45	60	75	90	105	120	135	150	165
29~31	32	48	64	80	96	112	128	144	160	176
31~33	34	51	68	85	102	119	136	153	170	187
33~35	36	54	72	90	108	126	144	162	180	198
35~37	38	57	76	95	114	133	152	171	190	209
37~39	40	60	80	100	120	140	160	180	200	220
39~41	42	96	84	105	126	147	168	189	210	231

**PLEASE NOTE**

- For fire rated assemblies please add 4 Genie Clips and steel top hat channel for each plasterboard butt joint. Check local compliances against fire resistive design specifications.
- It is always best to have a few extra Genie Clips on hand for non-standard room configurations and to fit around windows, doors, bulkheads etc.