

**PRO)))SOUND™**

**REDUCTOCLIP™  
INDEPENDENT STUD  
WALL SYSTEM**

Creating Peace and Quiet In Your Home



The ProSound™ ReductoClip™ system is the **slimmest** and **highest performing** independent wall system. Delivering exceptional performance against noisy neighbours and achieving the highest levels of soundproofing for recording studios and music rooms.

## PERFORMANCE

Exceptional performance against noisy neighbours and the perfect solution for recording studios

## SAVES SPACE

The slimmest independent wall system on the market (120mm)

## INSTALLATION

Can be fitted by a good DIY'er, or tradesperson - with experience of fitting plasterboard

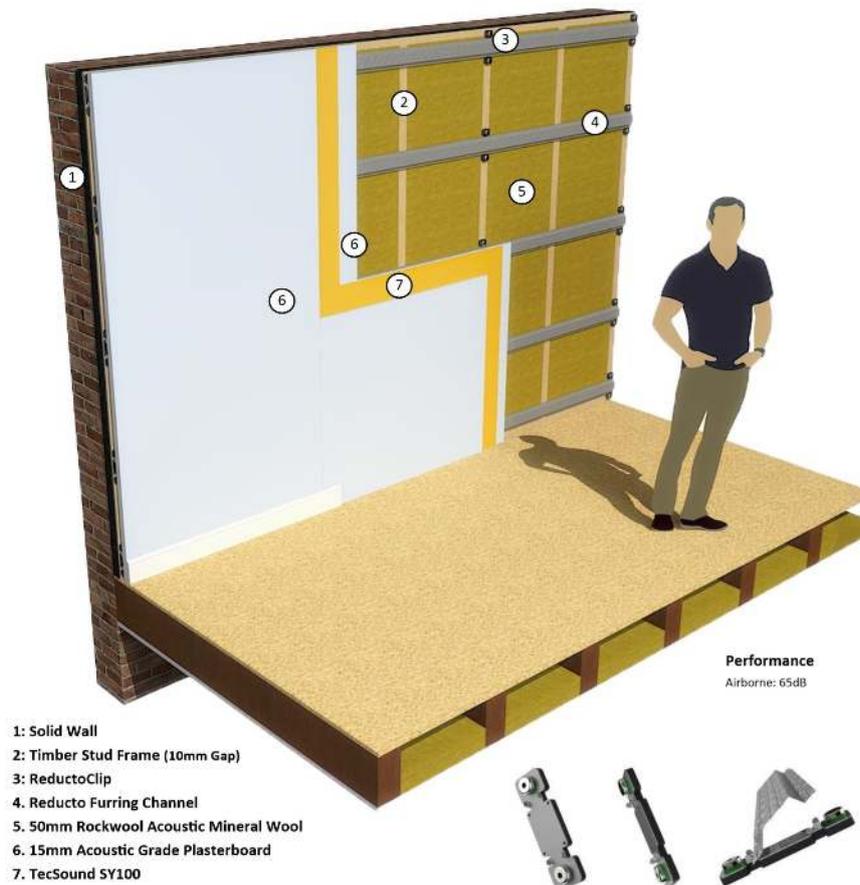


An innovative soundproofing solution designed to completely isolate walls. Reducing the transference of sound vibration energy, whilst also blocking airborne noise:

## BENEFITS

- Absorbs high levels of sound vibration energy
- Suitable for use on solid or stud walls
- Withstands greater weight than alternative systems
- Outperforms resilient bars by up to 7dB
- Dual rubber for higher performance
- Up to 13mm thinner than other clip systems
- Wider furring channels for easier plasterboard fixing

## FEATURES



- Acoustic mineral wool (50mm) added between the timber battens. This absorbs airborne sound in the cavity partitions of timber and metal party walls, significantly improving acoustic performance and reducing reverberation
- ReductoClips - able to withstand greater loads than standard clip systems, resulting in 1/3 less clips and a more cost effective system
- Reducto Furring Bar 3m - which outperforms standard resilient bar constructions by up to 7dB
- Acoustic grade plasterboard (15mm) - 50% denser than standard 12.5mm plasterboard. With a mass of 12.6kg per m<sup>2</sup> which reflects and converts high levels of sound energy into heat
- TecSound SY 100 (self-adhesive) a specially developed thin 10kg per m<sup>2</sup> soundproofing material
- Acoustic grade (15mm) plasterboard - a further layer to increase airborne noise blocking capabilities

(Based on an independent stud frame, built 10mm away from the wall)

## PERFORMANCE

Solid Wall Build Up



Airborne Performance:  
65dB

Stud Wall Build Up



Airborne Performance: 60dB

Building Regulations Part E (UK) Requirements

Airborne Performance

Separating Walls

Purpose built dwelling-houses and flats

(Higher than) 45dB

Dwelling-houses and flats formed by material change of use

(Higher than) 43dB

**Airborne Performance** (The higher the figure the better)

Full ReductoClip system including; ReductoClips, furring channels, two layers of 15mm acoustic grade plasterboard and one layer of Tecsound SY100

On a stud frame with acoustic mineral wool insulation, 10mm away from a solid wall

**65dB**

(Pass for building regulations)

120mm loss of space from the solid wall

On a stud frame with acoustic mineral wool insulation, with a layer of acoustic grade plasterboard on the other side

**60dB**

(Pass for building regulations)

60mm loss of space from the existing stud frame

## TOOLS / ACCESSORIES REQUIRED

- Sharp trimming knife
- Handsaw / Jigsaw
- Screw fixings for attaching the clips to the wall (not provided)
- Acoustic Sealant 900ml / Jumbo applicator gun

**Please Note: The Plasterboards and Tecsound are heavy and we recommend two men for installation**

## FIXINGS

The hole in the ReductoClip has a Diameter of 7.5mm for your fixing to go through

**Wood:** timber use 5-6mm dia screws x 50mm long ( 10- 12 Gauge if imperial)

**Steel:** steel use same diameter self tapping screws 40mm long

**Concrete:** concrete or masonry use 5-6mm dia x 60mm long screws with suitable plug

**Self tapping screws:** For furring channel joins (approx. 10-15mm)

**First Layer of Plasterboard:** plasterboard screws suitable for self drilling into a metal stud system at 25mm in length

**Second layer of Plasterboard:** should be affixed using 50mm long screw into the channel

\*If your self tapping screws are struggling to pierce the furring bar, use a pilot hole beforehand

Use Fasteners that will have a minimum of 120lbs pull out or sheer strength in the wood, steel or concrete substrate.

DO NOT OVER TIGHTEN

## LOAD SPECIFICATION

The ReductoClip is designed to carry a furring channel with one or more layers of acoustic plasterboard attached.

The maximum design load capacity for the ReductoClip in sheer (wall application) or in tension (ceiling application) is as follows. Design load calculations are based on tested loading to failure where the furring channel deforms and pulls out.

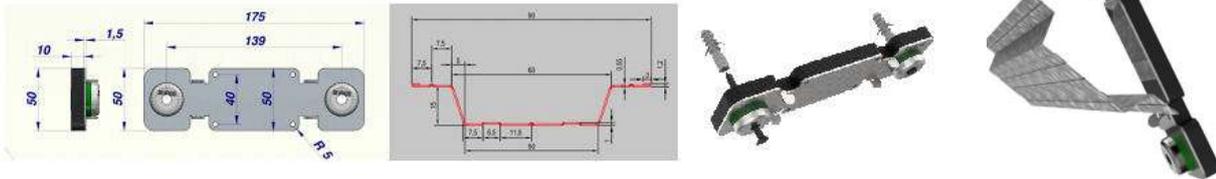
### **Design Load Maximum for Wall or Ceiling Application**

27kgs per ReductoClip when used with 0.6mm gauge furring bars

## REDUCTOCLIP REQUIREMENTS

To affix the ReductoClips to the joists/framing, secure ReductoClips with a single fastener on both ends only for timber. Use 5-6mm screws x 50mm long. For steel use the same diameter self tapping screws, 40mm long. For concrete or masonry use 5-6mm dia x 60mm long screws into matching Rawlplug/Fischer fixing system.

Snap the Reducto furring channel into the ReductoClip by squeezing the furring bar. Or hand slide ReductoClips to proper location on the furring channel. Fasten both ends of the ReductoClip to secure the channel.



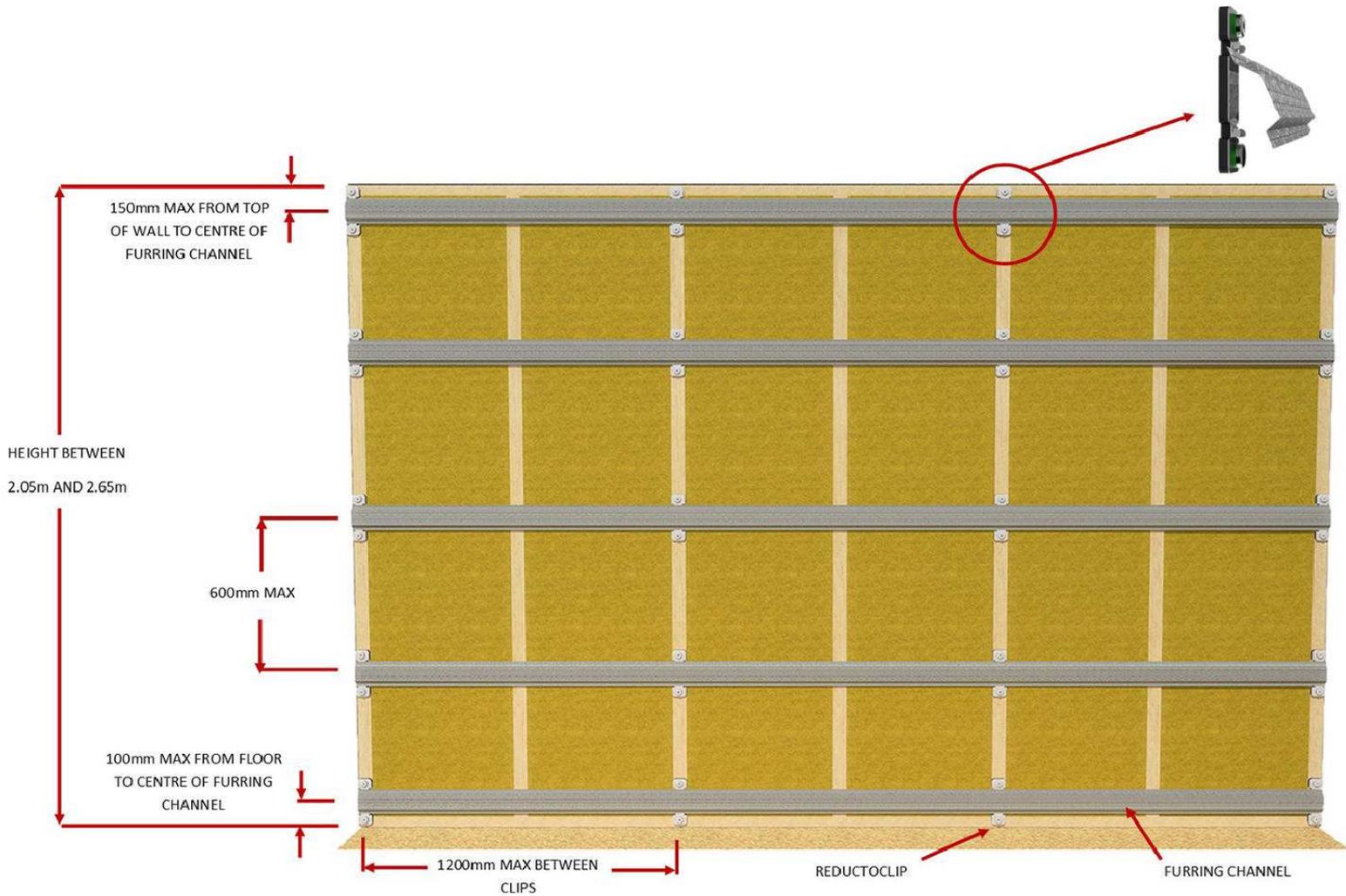
## FURRING CHANNEL REQUIREMENTS

Minimum 0.6mm ga with hemmed edge. Standard – 16mm deep channel. Splice furring channel with a 150mm overlap and secure overlapped pieces with wire or screws per standard industry practice.

To affix the 15mm acoustic plasterboard to the furring channels; for one layer use plasterboard screws suitable for self drilling into a metal stud system at 25mm in length.

When using two layers of plasterboard the first layer should be affixed using a 25mm long screw, the second layer should be affixed using 50mm long screw into the channel.

## REDUCTOCLIP POSITIONING DIAGRAM



## INSTALLATION

1. Firstly install the timber (recommended) or metal stud frame to existing floor, walls and ceiling with a minimum 10mm gap away from the existing wall. **DO NOT FIX TO EXISTING WALL.** To eliminate flanking vibration from the surrounding walls, floor and ceiling, fix our self adhesive isolation strip around the perimeter of the stud frame separating the frame from the other surfaces.



2. Install the rest of the timber stud frame at 600mm centres width and use noggins if necessary for larger areas for extra support.

3. Install Acoustic Mineral Wool between battens. if the batons are installed at 600mm centres, mineral wool slabs should be slightly compressed either side and friction fit into the space between batons. No fixing required.

4. Position and fix the ReductoClips on the frame (see positioning diagram on p6)  
 Maximum space between clips 1200mm (every two vertical battens on a 600mm centre frame).  
 Maximum space between furring bars (vertical clip positions) 600mm.  
 Top row of clips should be a maximum of 150mm away from the ceiling.  
 Bottom row of clips should be a maximum of 100mm from the floor.

Top Tip: When the top and bottom ReductoClips have been fixed onto the stud wall, install the remaining clips at the same height spacings.



5. Attach the furring channels to the ReductoClips making sure to overlap channels by 150mm and securing with 4 self tapping screws.



6. Tip! Before installing plasterboard layers, mark the locations of the furring channels on the surrounding walls in chalk or pencil. This will help you to locate the position of the furring channels later once the first layer of plasterboard is on and channels are no longer visible.

7. Install first layer of 15mm acoustic plasterboard. Start at the bottom in one corner. Raise the plasterboard onto shims to keep the board 5mm off the ground. Also make sure to leave a 5mm gap between any boards and the surrounding walls and ceiling. Secure the plasterboard to the furring bars with dry wall screws. (Do not screw through to the timber and short circuit the furring bars).



Acoustic Sealant



8. (If not using an acoustic membrane between plasterboards). Finish installing the plasterboards. If necessary join two plasterboards in line with the furring bars to enable secure fixing of the plasterboard where they join. Fill in any small gaps with acoustic sealant. Cut any holes as necessary for electrics.

9. Install Tecsound SY100. Tecsound is self adhesive and requires no fixings or secondary adhesive. Stick the Tecsound to the plasterboard covering the entire wall, leaving just the 5mm gap around the perimeter. TIP! You may find it easier to cut the Tecsound into smaller, more manageable pieces. Tecsound is very sticky and is difficult to remove if stuck down incorrectly. n.b. Ensure the Tecsound is joined together without any gaps.



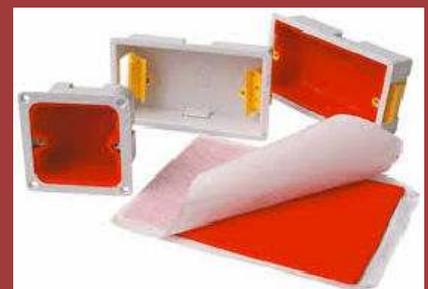
10. Install second layer of 15mm acoustic plasterboard as before but staggering the joints by starting at the opposite side from where you started. This should sandwich the Tecsound between the two layers.



11. Finally remove the shims and fill the gaps around the perimeter with acoustic sealant along with any other small gaps that may be in between plasterboards.



12. Use acoustic putty pads inside any electrical fittings to minimize the weakness created by the hole. You are now ready for standard plasterboard finishes.



## INSTALLATION SYNOPSIS

- Spacing of ReductoClips on the furring channel shall be a maximum of 1200mm
- Spacing between Reducto furring channels shall be a maximum of 600mm
- Do not overtighten the clips. The clip should feel secure, without moving and without compressing the foam layer more than 1mm
- Use only the supplied Reducto furring channel
- The seams of the very first layer of acoustic plasterboard should always align at the centre of a furring channel (so two plasterboards meet on one furring channel)
- The bottom row of ReductoClips with furring channels should be a maximum 100mm to the centre of the channel from the floor. The top row should be within 150mm of the ceiling
- The first row of acoustic plasterboard sheets at the bottom of the wall shall be installed with the long dimension supported on shims or Isolation Strip to keep the sheets off the floor
- Furring channels are installed horizontally across the wall, perpendicular to the frame batons
- All potential sound leaks; gaps around outlets, window, or door frames; pipe penetrations and the like should be sealed with a non-hardening acoustic sealant.



[For a video overview](#)  
**[click here](#)**

## REDUCTOCLIP™ INDEPENDENT STUD WALL SYSTEM CUSTOMER TESTIMONIALS

"Absolutely cracking service from the soundproofing store from start to finish. From all my initial enquiries about the studio build to support along the way, they could not have been more helpful. Every build is going to be unique so it's great to know that they are there to quickly respond to all your questions as things progress. Delivery was seamless and top quality products at a competitive price."

"Installed the ReductoClip system and had the first full night's sleep in two years! There is zero noise coming from next door. This is seriously life changing! Thanks so much! Highly recommend this company and the ReductoClip product."



**Excellent**

"Excellent product. Achieved a significant reduction in unwanted noise. Everything in the kit for the job. Very good overall experience."



"Competitively priced, excellent customer service and pleased with the quality of the materials. Phil the technician was really helpful and gave me some good advice on how to build the perfect studio 10/10...highly recommended."

"I contacted them not knowing what i needed to do, so i talked to them about the issues and was advised on what to do. Ordered the materials (they created a shopping list right down to the gun' for the oversized sealer tubes). The goods arrived the following week as promised and i have installed the kit, barring the sealer round the edges. It's really effective! Very pleased."

"Can not fault product or service, Friendly knowledgeable and always answer any questions promptly. I would highly recommend soundproofing store, it's made a huge difference in our house."

## PLEASE NOTE

- If you are employing fitters, please do not schedule or start any installation work until you have received your order
- Delivery will be on a pallet and will be wheeled as close to your property as possible. (Unfortunately our haulier cannot take the goods into your property)
- Please note that our products have a great deal of mass, and will add weight to your structure. You may need to check with a structural engineer to ensure compatibility

## SPECIFICATIONS



Size - 120mm build up from original walls (60mm from stud frame)



Thermal - thermal conductivity 0.24W/mK / thermal resistance:  
15.0mm = 0.06.m2 K/W



Fire - fire rating 60 minutes



Weight - 35.7kg per m2