

PRO)))SOUND™

REDUCTOCLIP™ DIRECT TO WALL SYSTEM

Creating Peace and Quiet In Your Home



The ProSound™ ReductoClip™ system offers the highest level of soundproofing, with minimal loss of space within your home (60mm).

PERFORMANCE

Excellent performance against noisy neighbours

SAVES SPACE

The thinnest direct to wall isolation clip system on the market (60mm)

INSTALLATION

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



An innovative soundproofing solution designed to isolate walls and reduce the transference of sound vibration energy, whilst also reducing airborne noise.

BENEFITS

- Outstanding performance against noisy neighbours
- The perfect solution for soundproofing against medium to loud levels of noise
- Suitable for use on solid or stud walls
- Outperforms resilient bars by up to 7dB
- Dual rubber for higher performance
- Only 60mm build up from original walls
- Wider furring channels for easier plasterboard fixing

FEATURES



Performance
Airborne: 55dB

- 1: Solid Wall
- 2: ReductoClip
- 3: Reducto Furring Channel
- 4: 25mm Acoustic Mineral Wool
- 5: 15mm Acoustic Grade Plasterboard
- 6: Tecsound SY100



- The thinnest direct to wall isolation clip system on the market (only 60mm loss of space)
- 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 m2 which reflects and converts high levels of sound energy into heat
- Tecsound SY 100 (self-adhesive) a specially developed thin 10kg per m2 soundproofing material
- Acoustic grade (15mm) plasterboard - a further layer to increase airborne noise blocking capabilities

PERFORMANCE

Solid Wall Build Up



Airborne Performance: 55dB

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, 25mm acoustic mineral wool, two layers of 15mm acoustic grade plasterboard and one layer of Tecsound SY100

Direct to solid wall
(Passes building regulations)
60mm loss of space from the wall

55dB

On a stud frame with acoustic mineral wool insulation, with a layer of acoustic grade plasterboard on the other side
(Passes building regulations)
60mm loss of space from the timber stud

60dB

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
- Spray Contact Adhesive

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

Brick / Block / Concrete: We Recommend 5-6mm dia x 60mm long screws with suitable plug (10–12 gauge if imperial)

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

First Layer of Plasterboard: plasterboard screws suitable for self drilling into a metal furring's at 25mm in length

Second layer of Plasterboard: should be affixed using 50mm long self drilling screws 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

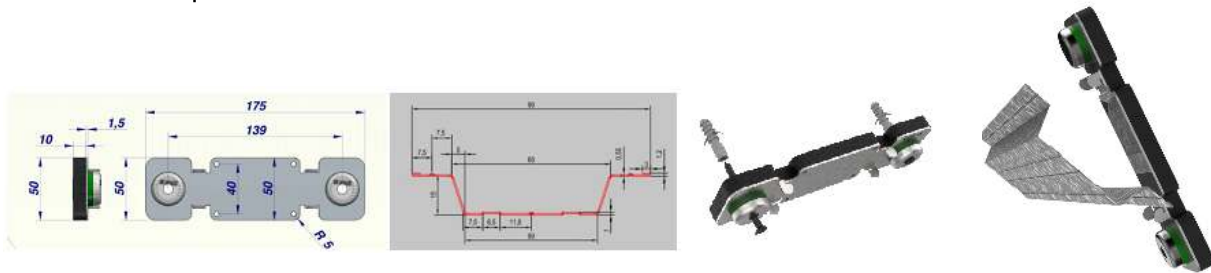
The ReductoClip is designed to carry a furring channel with one or more layers of acoustic plasterboard attached.

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

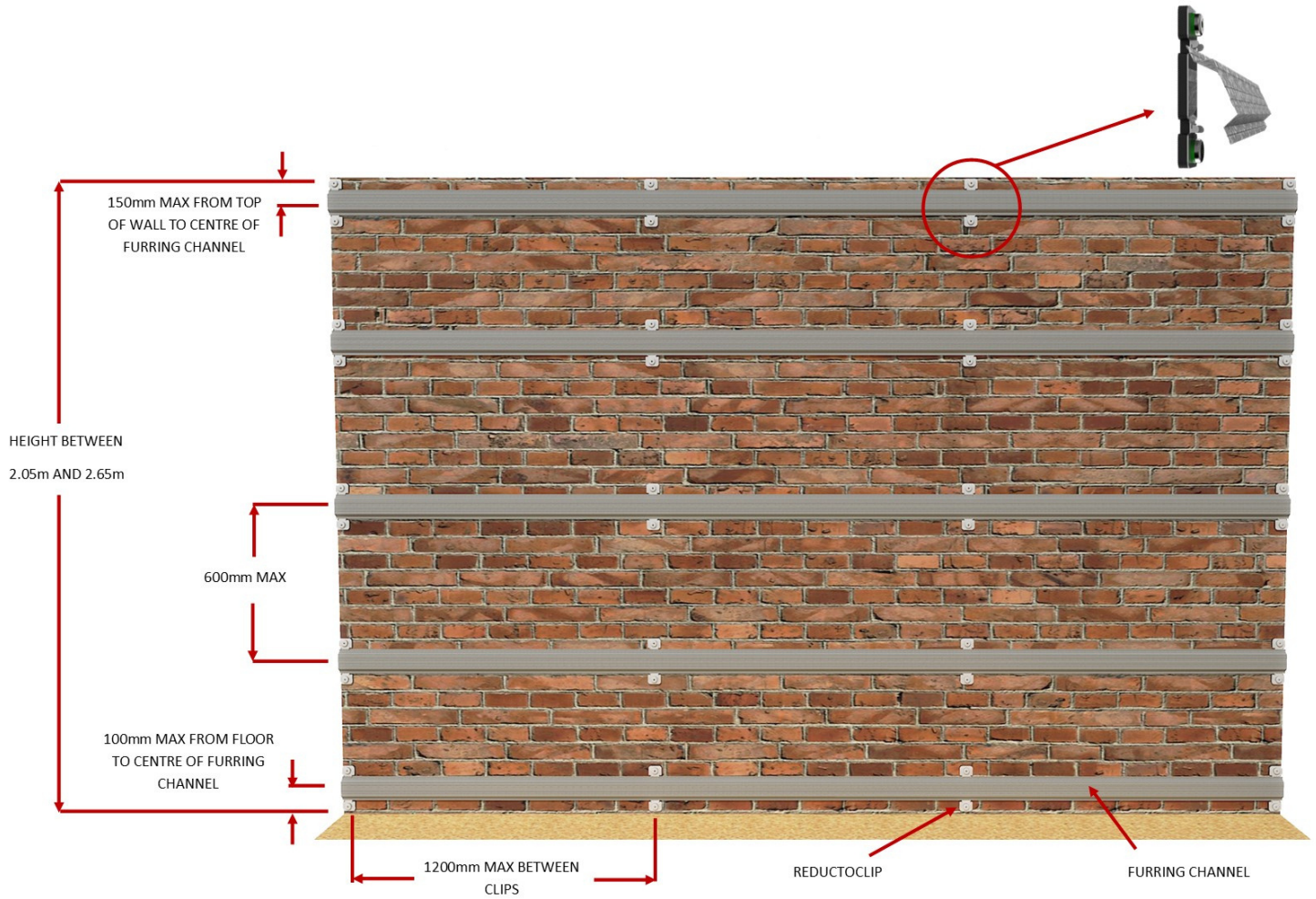
Snap the Reducto furring channel into the ReductoClip by squeezing the furring bar. Or hand slide ReductoClips to proper location on the furring channel. Fasten both ends of the ReductoClip to secure the channel.



FURRING CHANNEL REQUIREMENTS

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

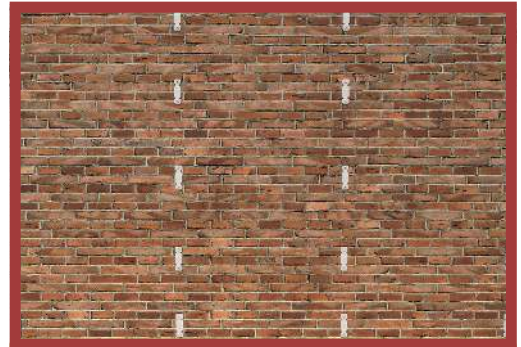
1. Mark out your positions onto the wall, with chalk, or a marker following the positioning diagram. Then fix the clips at the appropriate positions.. Maximum space between clips 1200mm (horizontally).

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 wall, install the remaining clips at the same height spacings.



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



3. Install 25mm Acoustic Mineral Wool between bars and affix using Contact Spray Adhesive. No need to cover the whole wall, there can be gaps (as per the image opposite). Ensure the acoustic mineral wool doesn't touch the furring bars. (It can touch the clips).

4. 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.

5. 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



6. (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.

7. 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.



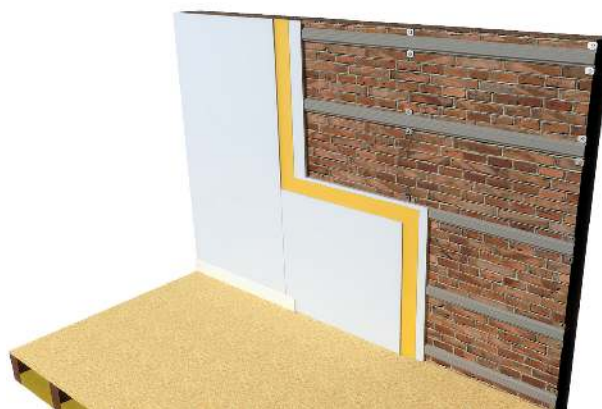
8. Install second layer of 15mm acoustic plasterboard as before but staggering the joins by starting at the opposite side from where you started. This should sandwich the Tecsound between the two layers.

9. 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.



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

CROSS SECTION OF THE INSTALLED SYSTEM



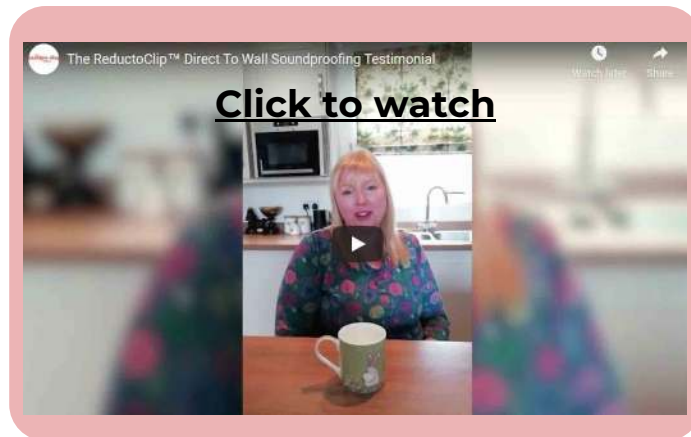
INSTALLATION SYNOPSIS

- Spacing of ReductoClips on the furring channel shall be a maximum of 1200mm
- Spacing between Reducto furring channels shall be a maximum of 600mm
- 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, or parallel with the floor
- 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
- Do not overtighten the clips. The clip should feel secure, without moving and without compressing the foam layer more than 1mm.



To watch a video of
the full installation
click here

REDUCTOCLIP™ DIRECT TO WALL SYSTEM CUSTOMER TESTIMONIALS



Excellent

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



Really pleased with the result of the ReductoClip system. It has made a huge improvement on the noise from next door.

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 - 60mm build up from original walls



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