

Cormet Original Homespans is a cost-effective solution for new-build housing projects and for improvement/extension work.

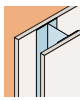
Homespan offers a light weight, 75mm thick partition with a reduced number of components to assist installation speed. Use of the system avoids the problems of warping, twisting and nail popping sometimes associated with timber drying out on site.

Cut-outs within the metal studs and noggings are designed to accommodate services with ease.



3





Introduction

Cormet Original Homespans Partition System

Cormet Original Homespans

Cormet Original Homespans is a 75mm nominal width metal stud partitioning system using 44mm metal H Studs set at 900mm centres, a horizontal cross nogging and one layer of 15mm x 900mm wide Acoustic Homespans wallboard fixed to each side.

Cormet Original Homespans Partition System is a lightweight durable and high performance system:-

- fast and easy to install
- cost effective against equivalent size of timber stud
- eliminates nail popping and cracking

Performance

Cormet Original Homespans achieves a 38dB sound rating without insulation using 15mm x 900mm wide Acoustic Homespans board.

Original Homespans has been designed to allow electrical cable installations to meet N.H.B.C. guidelines and BS 7671 requirements for electrical installation.

Acoustic Homespans wallboard is defined as Class 0 in accordance with National Building Regulations 1991 Approved Documents B1/2/3/4/5 Fire Safety and Building Standards (Scotland) Regulations 1990, Regulation D2 when tested to BS 476: Part 6:1989 and Part 7: 1997 and Euroclass A2. The gypsum core is classified as non-combustible when tested in accordance with BS 476: Part 4: 1970 and Euroclass A1. Lafarge jointing compounds, metal systems, textures and bonding compounds are non-combustible when tested in accordance with BS 476: Part 4: 1970 and Euroclass A1.

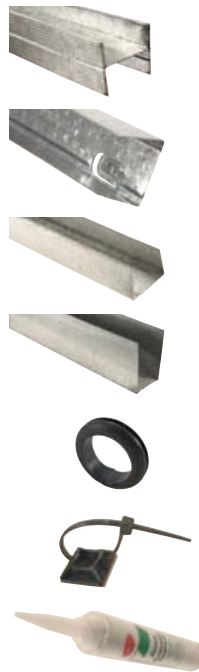


Table 3.5 Cormet Original Homespans components

Component	Lengths (mm)	Lafarge code
Original Homespans H Stud	2345, 2395, 2700	HS44/R
Original Homespans Cross Nogging	895	UN43/R
Homespans U Track	2400, 2700	UT45/R
Homespans U Track Deep Flange	2400	XDT45/R
Rubber Grommet	25mm diameter	HRG25
Self Adhesive Cable Tie	-	CTF
Lafarge Intumescent	0.9 litres	ACOUSTIC
Acoustic Sealant	0.38 litres	ACO38

System components

The components used in Original Homespans partitions are listed in table 3.5.

All metal components are manufactured to BS 7364: 1990 specification for galvanised steel studs and channels for stud and sheet partitions and linings using screw fixed gypsum wallboard.

Flanges have deep knurlings for easier screw fixing and plasterboard alignment.

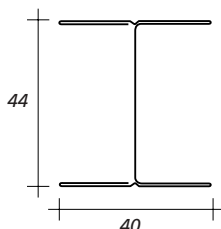
Table 3.6 Acoustic Homespans wallboard

Thickness	Size (mm)	TE	SE
15mm	900 x 1800	✓	✓
	900 x 2400 ⁽¹⁾ (stock size)	✓	✓
	900 x 2700 (specialist size)	✓	-

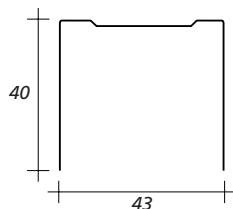
Note 1. Lafarge Moisturecheck Acoustic Homespans also available in this size with tapered edge only

T = Tapered edge, S = Square edge

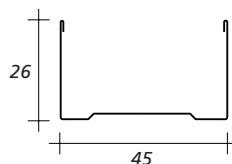
H Stud HS44/R



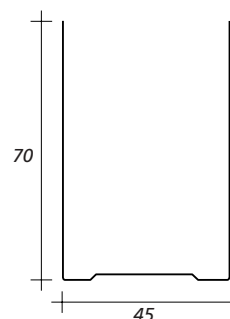
Cross Nogging UN43/R

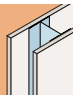


U Track UT45R

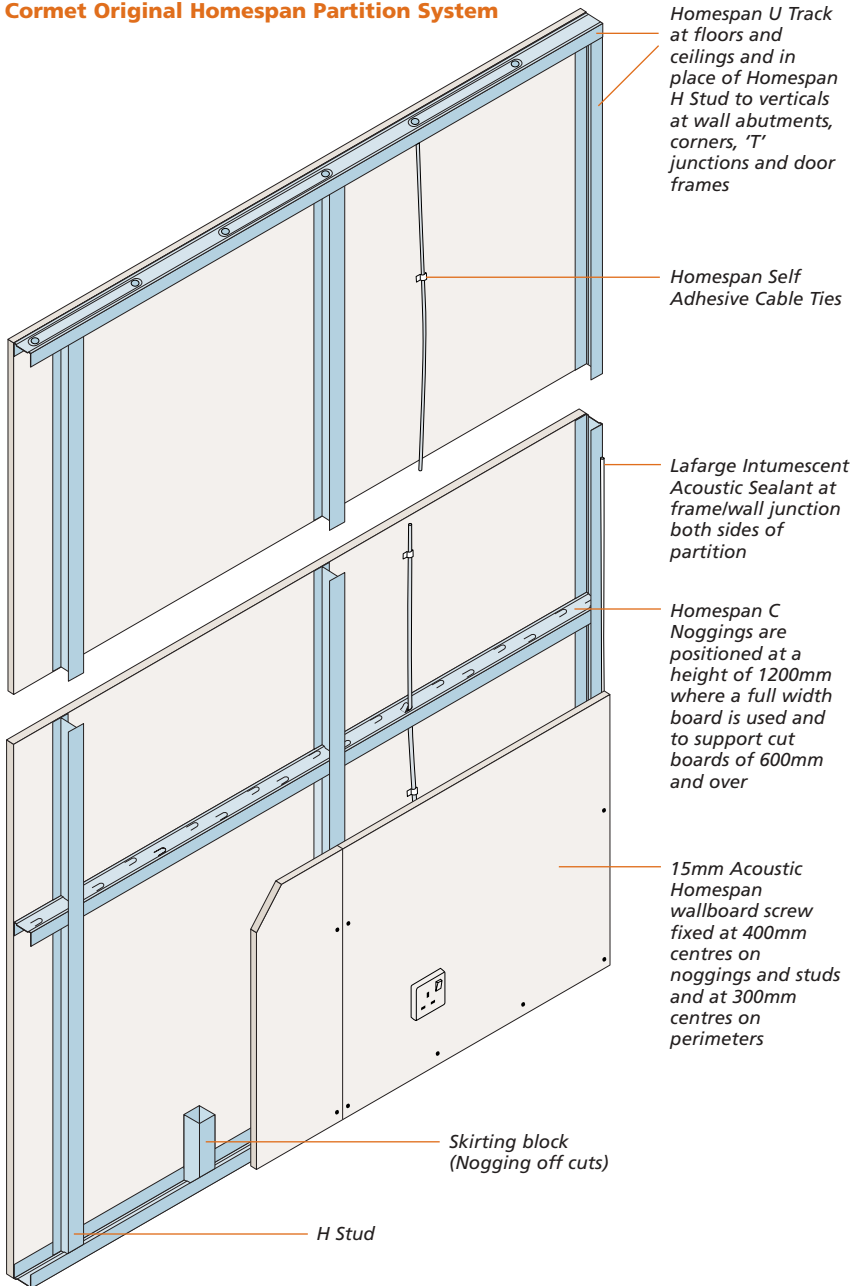


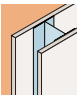
U Track Deep Flange XDT45R





Cormet Original Homespans Partition System





Application details

Detailing

Cormet Original Homespans standard details

Various skirting detail options are available. For example Homespans U Track can either be screw fixed to a timber sole plate, or by including a skirting block, formed by boxing 100mm off cuts of nogging section, screw fixed directly to the floor.

In addition, using a single component, Homespans U Track Deep Flange can also be screw fixed directly to the floor.

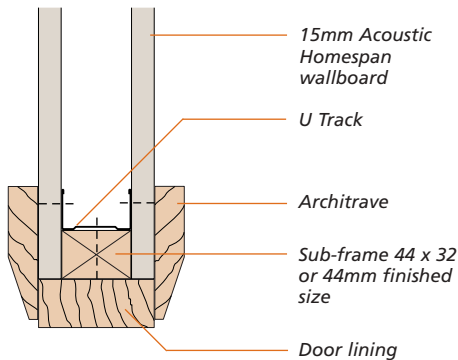
At door jambs Homespans U Track is used as an end stud and screw fixed at 600mm centres to softwood sub frame.

Alternatively, use a sleeved I Stud as in method 2.

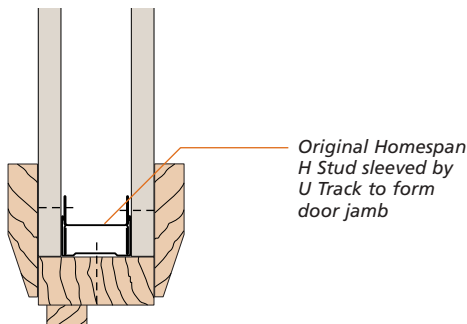
To form the door head screw fix U track to soft wood sub frame, overlap by 150mm at each end, snip flange and fold down at ends.

At right angles, T junctions and abutments, Homespans U Track is used as an end stud.

Door details - alternative door frame assemblies

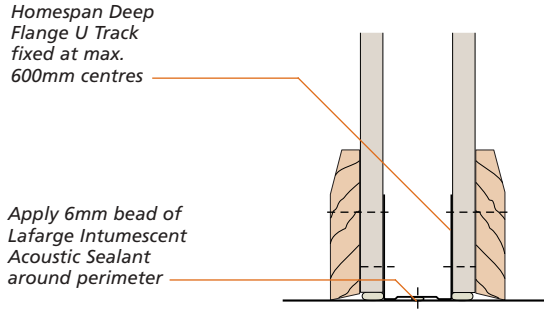


Door jamb detail

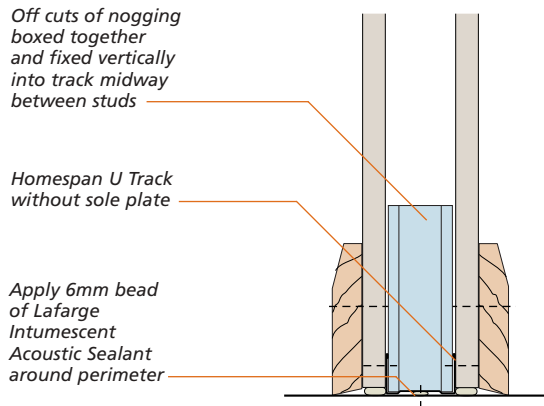


Alternative door jamb detail

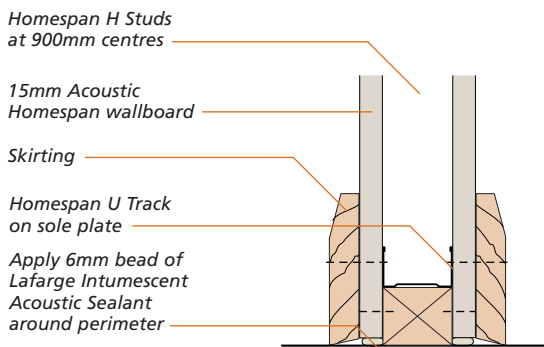
Alternative skirting fixing details



Deep flange floor track

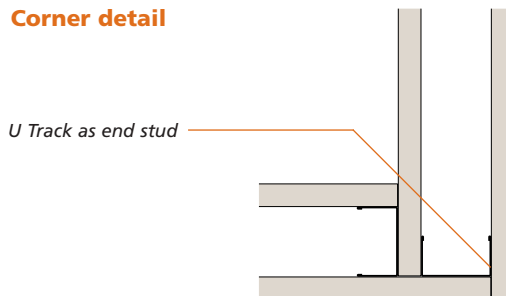


Floor track including skirting block

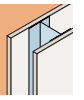


Floor track onto a timber sole plate

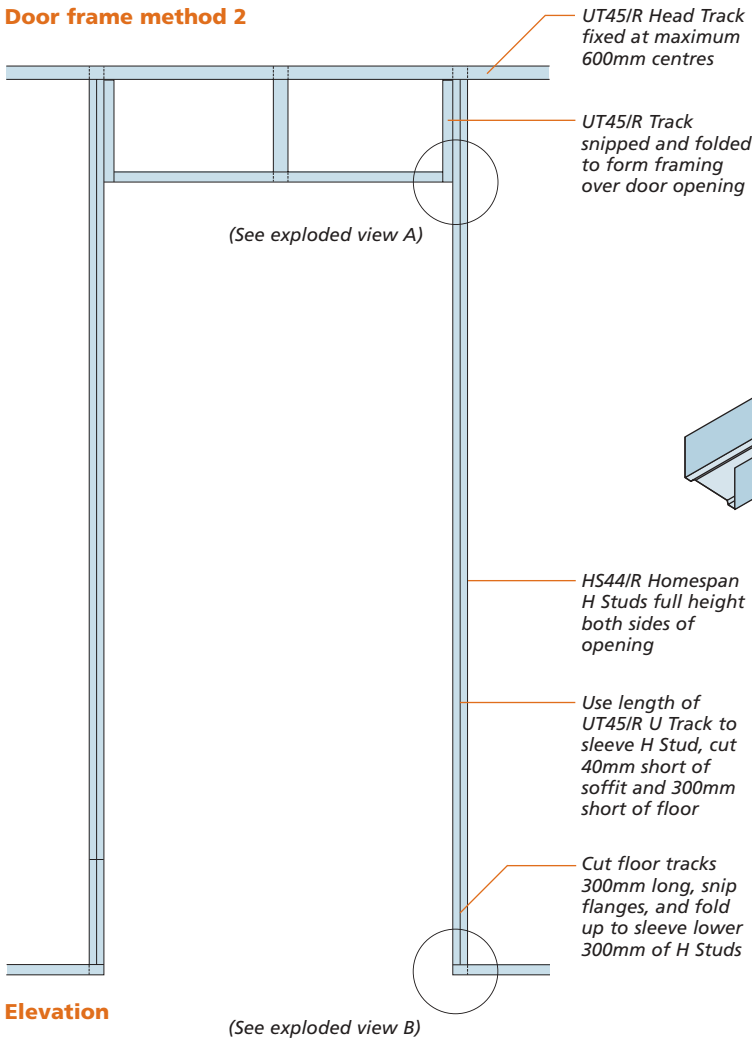
Corner detail



Right angle corner



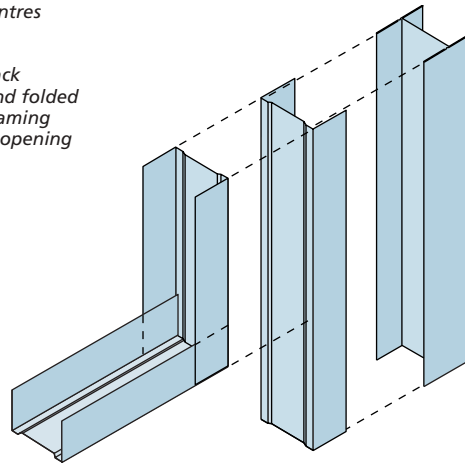
Door frame method 2



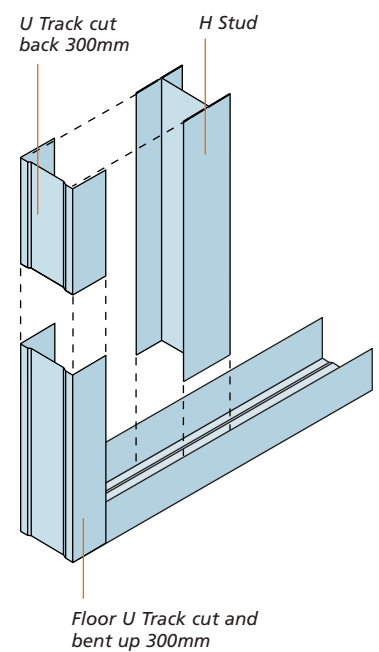
Elevation

Scale 1:20

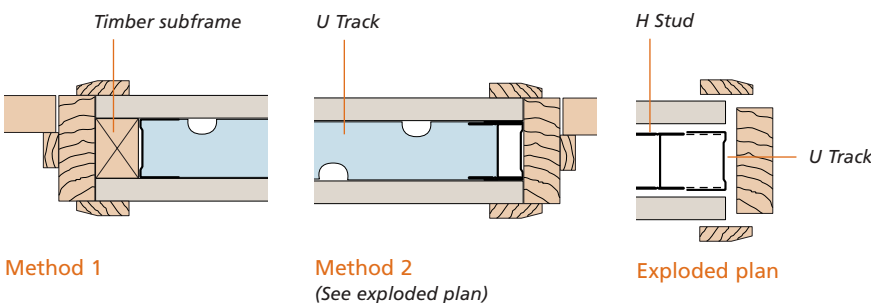
Exploded view A



Exploded view B



Door jamb plan sections



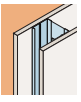
Method 1

Method 2
(See exploded plan)

Exploded plan

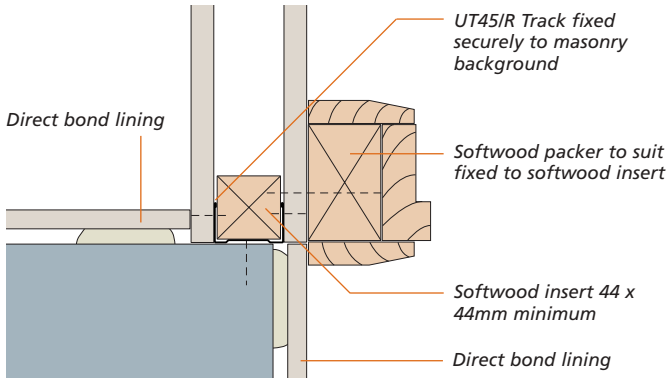
Notes on method 2

Full height Homespan HS44/R Studs either side of opening are sleeved with UT45/R Homespan U Track. At head Homespan U Track is cut 40mm short. At base, Homespan U Track is cut 300mm short to allow for extension of UT45/R Homespan U Track which is cut, bent and interleaved with HS44/R Homespan Stud as shown below.

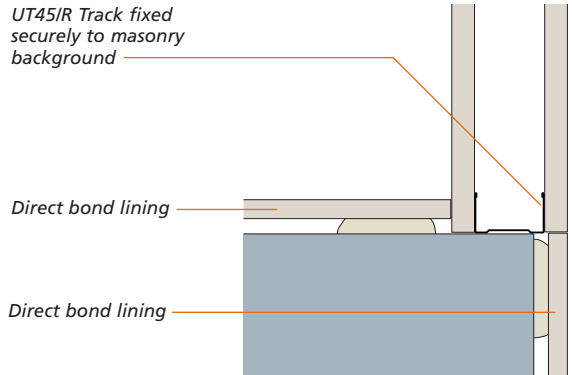


Application details

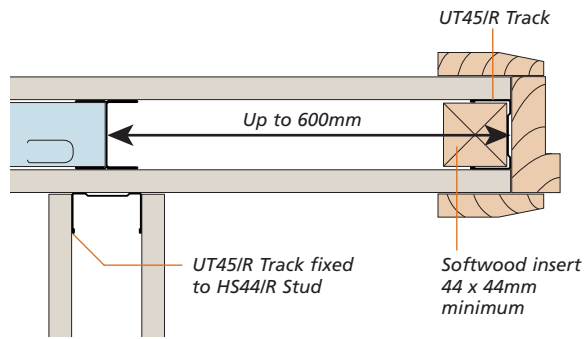
Door jamb and masonry junction



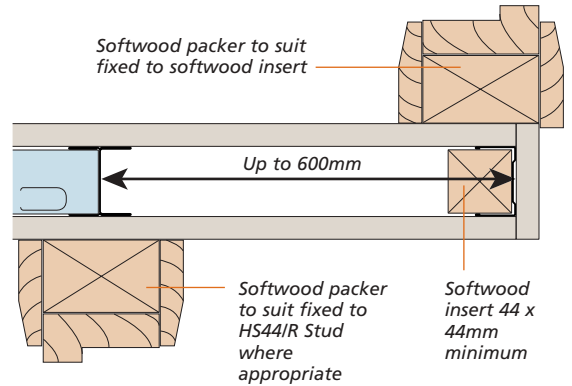
Junction with masonry



Door jamb and junction detail on stud



Detail for door nibs on stud



Partitions: Metal Stud

Table 3.7 Cormet Original Homespans Partitions

System reference	Specification
HSP 01 	Studs: 44mm wide Cormet Original Homespans H Studs at 900mm centres Facings: one layer 15mm Cormet Acoustic Homespans wallboard both sides
HSP 02 	As HSP 01 with 25mm glass mineral wool insulation density 19.5kg/m ³

Weight (kg/m ²)	Maximum height (m)	Normal thickness (mm)	Fire resistance (minutes)	Sound insulation (R _v , dB)	BS 5234 Grade
28	2.7	75	30	38	Medium
29	2.7	75	30	43	Medium

Rock mineral wool density 33kg/m³ may be used in lieu of glass mineral wool as specified



Cormet Original Homespans Partitions

Scope

Metal studs partition system for housing achieving 38 R_wdB without insulation.

Additional clauses

Add general clauses if required for:

- Expansion/movement joints
- Health and safety
- Storage of materials
- Site condition and workmanship

See Section 8.

Key

- **Recommended**
Apply this clause in all situations.
- **Either/or**
Apply either this clause or the other depending on requirement/preference.
- **If required**
Apply this clause only if required.
- * Choice of product.

Lafarge Plasterboard recommend the use of detailed specification clauses as shown.

Selection of the appropriate system and subsequent specification clause is made easier by the use of Lafarge SELECT 2 at www.lafargeplasterboard.co.uk.

Alternatively, Cormet Original Homespans Partitions can be incorporated into the N.B.S.(National Building Specification) work schedule K31 Plasterboard fixed partitions/inner walls/linings. See www.lafargeplasterboard.co.uk/nbssearch/index.asp

For further details please contact our Technical Enquiryline 01275 377789.

■ Cormet Original Homespans Partition system reference

HSP See table 3.7
 Partition nominal thickness mm
 Partition height mm

■ Location

□ **Damp proof course**
 To be installed under full width of partition
 Type Required on new concrete slabs and screeds
 By

□ Timber sole plate

Treated softwood sole plate width mm x 38mm deep fixed to substrate at maximum 600mm centres using suitable proprietary fixings. May be required when floor is uneven – must be same width as metal U Track

■ Metal framing components

Framing components to be hot dipped galvanised steel to BS EN 10143: 1993 and BS EN 10142: 1990 and Approved Document A1: 1995 designated DX51D and Z275 NAO. Sections rolled to BS 2994: 1987.

■ Studs

Cormet Original Homespans Studs reference HS44/R, metal thickness 0.5mm, width 44mm at 900mm centres, installed into U Tracks.

Floor and head tracks

- Cormet Homespans U Tracks reference UT45/R at floor and soffit, ends, corners and openings. Depends on skirting fixing
- Cormet Homespans U Tracks reference XDT45/R at floor. Cormet Homespans U Tracks reference UT45/R at head, ends, corners and openings, thickness 0.5mm, width 45mm fixed at maximum 600mm centres to substrate using suitable proprietary fixings.

■ Cross Noggings

Cormet Original Homespans Cross Noggings reference UN43/R between studs, width 43mm. See installation information for locations.

□ Acoustic Sealant

Apply a 6mm continuous bead of Lafarge Intumescent Acoustic Sealant around the perimeter of the framing. Required to meet the sound insulation values as shown in table 3.7

Boarding

- One layer Lafarge Acoustic Homespans wallboard Type 1 to BS 1230: Part 1: 1985, thickness 15mm to both sides of framework.
- One layer Cormet Acoustic Homespans wallboard Type 1 to BS 1230: Part 1: 1985, thickness 15mm to both sides of framework. One layer Lafarge Moisturecheck Acoustic Homespans wallboard, Type 3 to BS 1230: Part 1: 1985, thickness 15mm to bathroom side of framework.

■ Fixings

Lafarge Drywall Self Tapping Screws length 25mm, reference 25DST25 in fixing pattern as Lafarge installation instructions,

Accessories

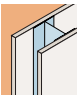
- 25mm Rubber Grommets.
- Self Adhesive Cable Ties.

■ Finished partition tolerances

Finished system to comply with tolerances in BS 8212: 1995 section 3.3.

■ Materials and Installation

All materials unless otherwise indicated shall be supplied by Lafarge Plasterboard Ltd, and shall be installed in accordance with their current literature and in accordance with BS 8212: 1995.



Installation



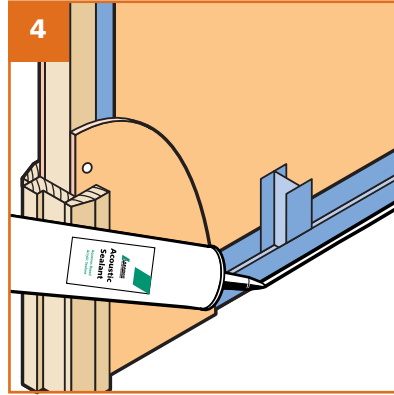
1

Step one

Screw fix Homespans U Track at 600mm centres to floors, ceilings and verticals at wall abutments, corners, tee junctions and door frames.

Alternative floor track arrangements are: Skirting detail B (Deep Flange U Track fixed directly to floor)

Skirting detail: use HS 44 Stud offcuts 100mm long midway between studs, or UN43R boxed together.



4

Step four

To retain sound integrity, apply a 6mm continuous bead of Lafarge Intumescent Acoustic Sealant around perimeter of the metal framing on both sides, before applying the wall boarding.



2

Step two

Friction fix 44mm wide Homespans H Studs at 900mm centres to the ceiling and floor U Tracks.



5

Step five

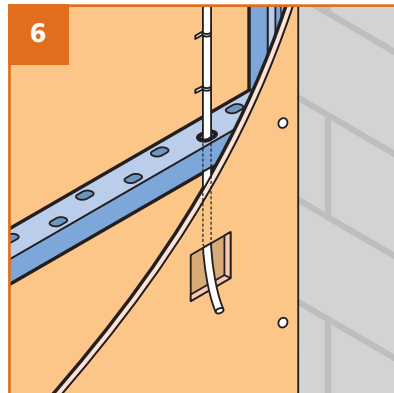
Screw fix 15mm Acoustic Homespans wallboard at 400mm centres on noggings and studs. Fix perimeters of boards at 300mm centres. Use 25mm Self Tapping Drywall Screws. Only 23 screws are required per board.



3

Step three

Fix Homespans Cross Noggings UN43/R horizontally at a height of 1200mm where a full width Acoustic Homespans wallboard is used and to support cut Acoustic Homespans wallboards of 600mm - 900mm width.



6

Step six

Using Lafarge Self Adhesive Cable Ties, attach cables to the inner surface of the board which has the socket or switch cutout.

Run the vertical cables through offset service cut-outs (protected by rubber grommet) and secure by self adhesive ties to the inner surface of the wallboard. (N.H.B.C. guidelines and BS 7671 "Requirements for Electrical Installations")

Complete wallboard fixing as in step 5.