TECHNICAL DATA SHEET
DS 070

NON CONTROLLED UNLESS STATED OTHERWISE

PAGE	1 of 3
ISSUE	5
DATE	20 May 2019
APPROVED	M.T.P

TITLE.	Installation of Acoustic Bearing Pads for use in Building Structures.

Details of Isolators as leaflet PL041.

General Notes

Check bearing pad size / part No. against location detailed on Architect's drawing or Christie & Grey installation drawing if applicable.

Ensure pad seating surfaces are clean and free from debris, oil and water. Concrete surfaces should be a smooth power floated finish. Any indentations / holes must be filled with a suitable grout and levelled, all high spots must be removed. The structural slab level should be within ±3 mm under a 3 m straight edge and + 0 -10 mm at any point over floor area from datum.

Acoustic Rubber Bearing Pads

1) Check and position the correct size pad / part No. as indicated on architect's layout drawing or Christie & Grey installation drawing, if applicable.

2) Individual rubber bearing pads should be covered with a steel bearing plate to spread the load (See Figure 1).

3) We recommend that large gaps between pads are filled with suitably sized closed cell polyethylene foam or polystyrene. A polythene strip should be laid over the pads as per figure 1 to prevent ingress of mortar and debris during construction.

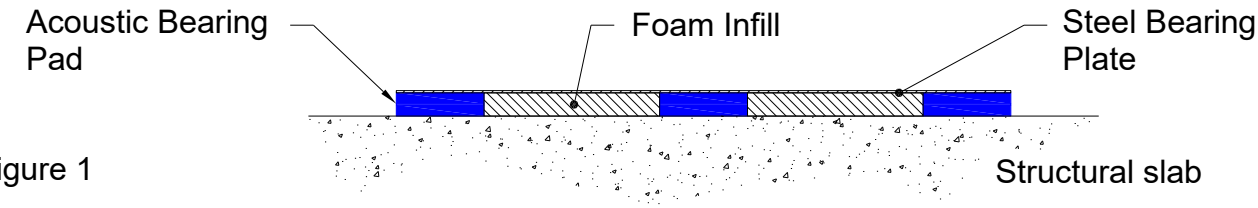

Figure 1

4) Pads can be laid directly under pre-cast beams or slabs as shown in Figure 2.

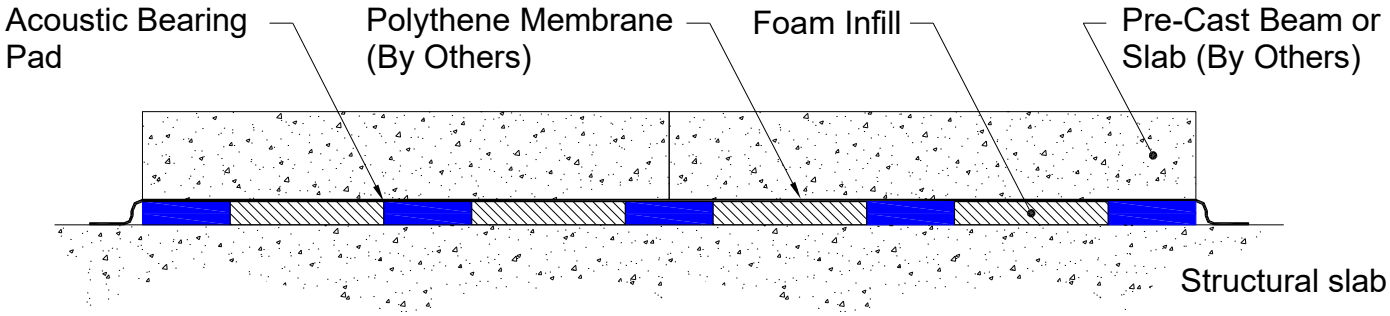

Figure 2

5) For blockwork walls the mortar should be allowed to cure for two courses only before proceeding with further courses (See Figure 3).

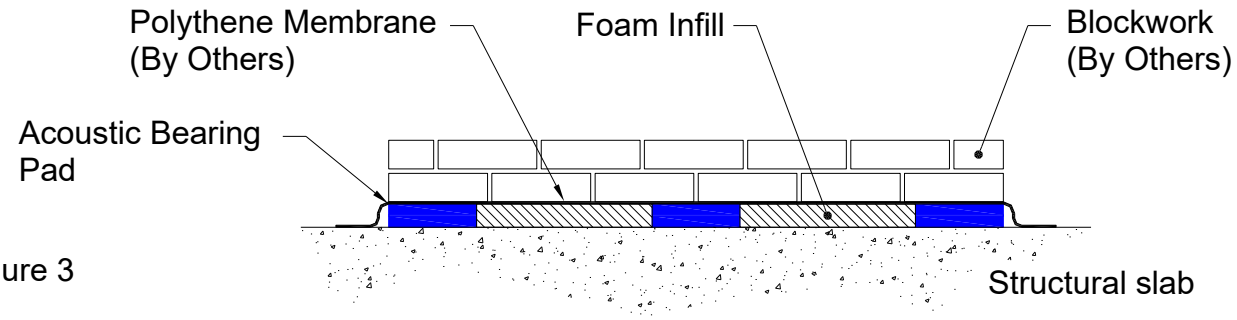

Figure 3

6) Once all blockwork has been completed, remove any debris and mortar snots from around or between the pads to prevent possible vibration short circuits, cut back polythene as necessary and tuck to provide future protection against the ingress of debris (See Figure 4).

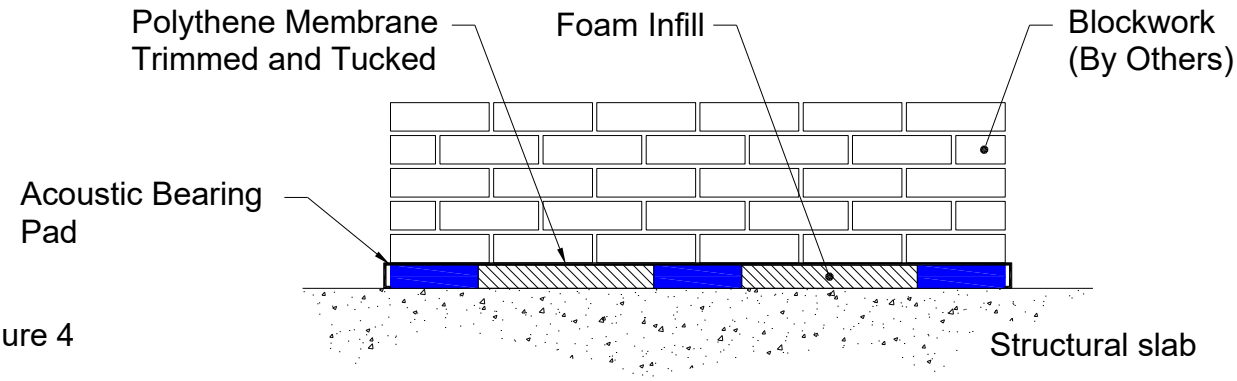

Figure 4

<u>Studflex Bearing Pad Plates Under Profile Steel Decking</u>

7) Studflex bearing pad plates must be laid butt to butt and screwed to upper steel profile (See Figure 5). Note: Self drilling screw length not to exceed depth of bearing pad.

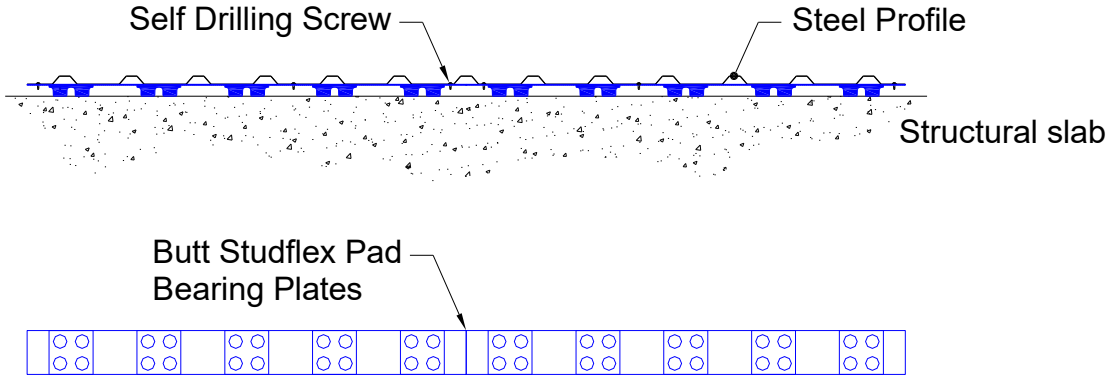

Figure 5

Studflex Bearing Pad Plates Under Blockwork Walls

8) Studflex bearing pad plates must be laid butt to butt. A strip of polythene should be laid over the Studflex bearing pads prior to laying blockwork walls to prevent ingress of mortar and debris during construction. Blockwork walls and mortar joints should be allowed to cure for two courses only before proceeding with further courses (See Figure 6).

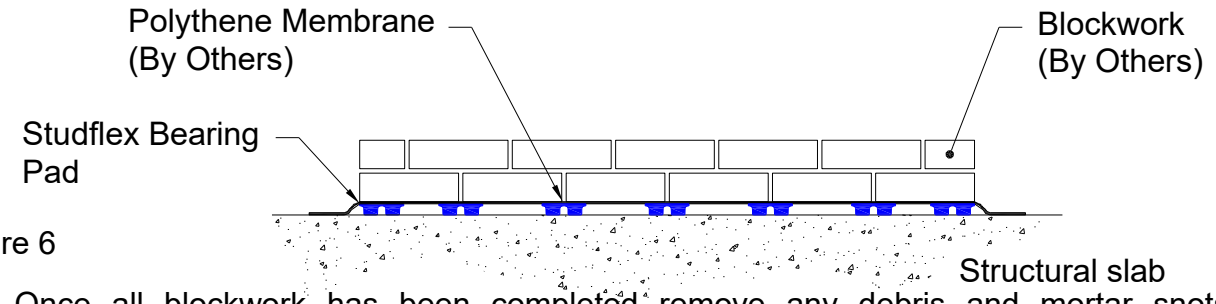

Figure 6

9) Once all blockwork has been completed remove any debris and mortar snots from around or between the pads to prevent possible vibration short circuits, cut back polythene as necessary and tuck to provide future protection against the ingress of debris (See Figure 7).

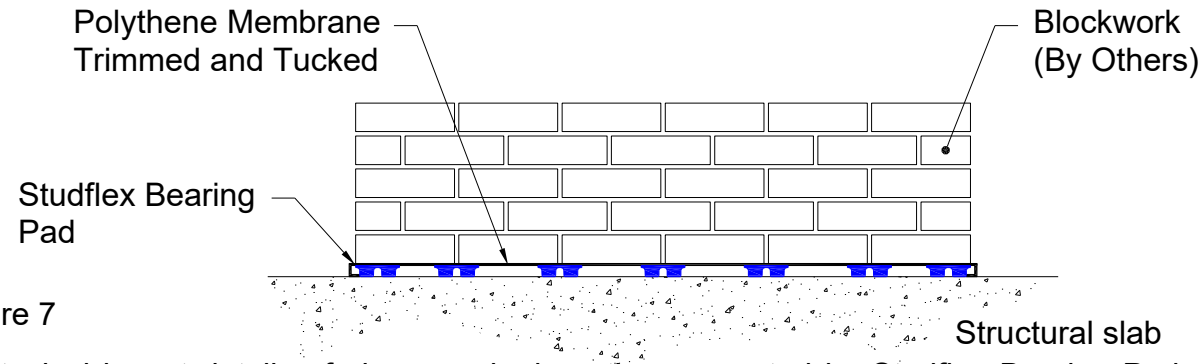

Figure 7

For typical layout details of cinema raked seating supported by Studflex Bearing Pads refer to drawing No. S197 and for blockwork walls drawing No. S195. For building foundation pile caps supported by Acoustic Bearing Pads see drawing No. S194.

It is important that no water, oil or solvent be allowed to contaminate the area to be isolated during or after the installation. Mineral oil will cause natural rubber to swell and deteriorate. Water may cause a hydraulic lock between the pads reducing their efficiency.

Please contact our Technical Department at the address below if you have any problems relating to installation or selection.

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