TECHNICAL DATA SHEET
DS 087

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PAGE	1 of 6
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TITLE. Installation Instructions for Acoustic Wall Ties

For dimensional details of Acoustic Wall Ties see leaflet PL032

General Notes

Check acoustic wall tie is suitable for the type of installation and cavity size i.e. external face brick/blockwork to inner cavity walls or studwork.

Each masonry tie must be embedded a minimum of 50mm into brick/blockwork.

Acoustic wall ties must be installed with rubber part upper most or ‘top’ on masonry tie.

Ensure wall loading and spacings do not exceed acoustic wall tie maximum working load of 0.75 kN.

It is important that no oil or solvent be allowed to contaminate the wall tie rubber during installation (refer to data sheet DS 041 for details of natural rubber properties).

Assembly Instructions

Brick/Blockwork to Brick/Blockwork

1) Bed masonry tie of acoustic wall tie type AWT.BW into mortar of wall construction. Ideally inner and outer walls should be built up together to ensure alignment of acoustic wall ties to opposing brick/blockwork coarses (See Figure 1). (Note: Recommended maximum acoustic wall tie spacings are 450mm intervals vertically, 900mm intervals horizontally, positioned in a staggered pattern with additional ties at doors, windows and changes of direction).

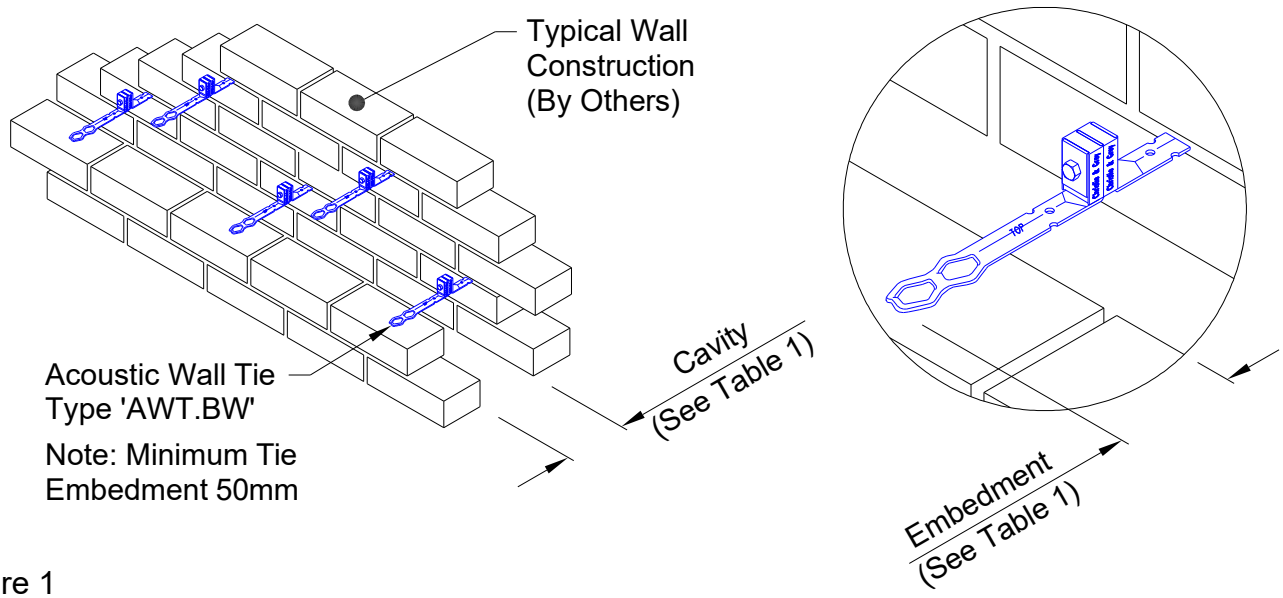

Figure 1

TITLE. Installation Instructions for Acoustic Wall Ties

Part No.	Cavity Wall Width (mm)	Tie Embedment (mm)
AWT.BW.100	50 & 75	80 & 67*
AWT.BW.125	100	80
AWT.BW.150	150 & 175	80 & 67*
AWT.BW.175	200	80
AWT.BW.200	250	80

Table 1

Note: above figures are nominal and for guidance only.
* embedment for 75mm and 175mm cavity.

Alternative Fixing Arrangements

a) Acoustic wall tie type AWT.ZBW for brick/blockwork to partition walls or existing wall to new brick/blockwork outer wall (See Figure 2 and Table 2).

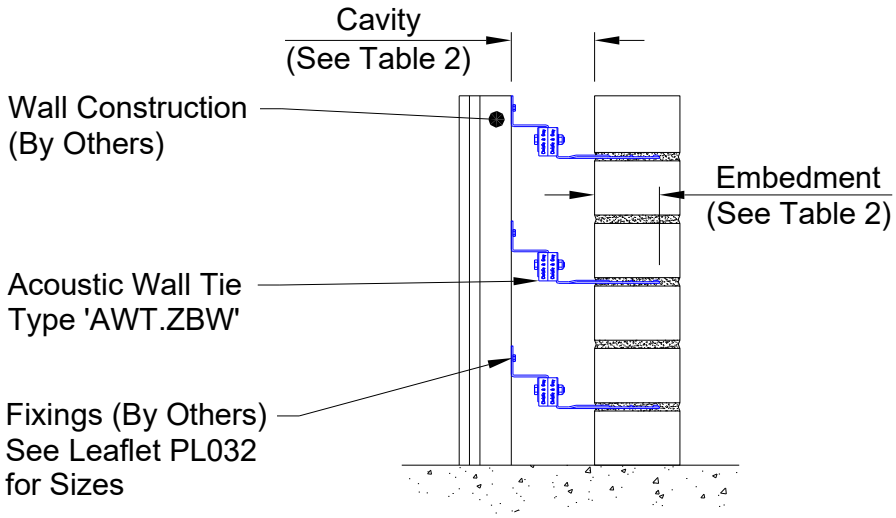

Figure 2

Part No.	Cavity Wall Width (mm)	Tie Embedment (mm)
AWT.ZBW.100	75	80
AWT.ZBW.125	100	80
AWT.ZBW.175	150	80
AWT.ZBW.200	175 & 200	80 & 55*

Note: above figures are nominal and for guidance only.
* embedment for 200mm cavity.

Table 2

b). Alternative fixing for brick/blockwork to cross bracing of inner partition walls using acoustic wall tie type AWT.LBW (See Figure 3 and Table 3).

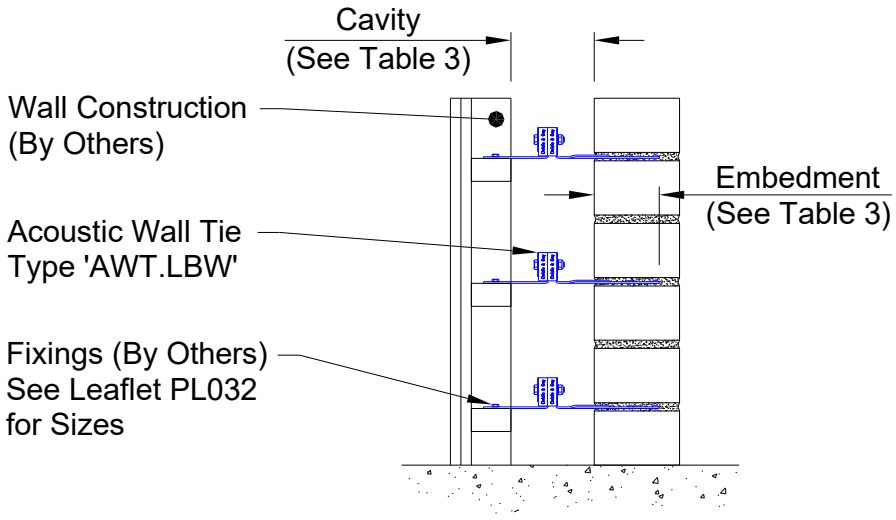

Figure 3

Part No.	Cavity Wall Width (mm)	Tie Embedment (mm)
AWT.LBW.100	75	80
AWT.LBW.125	100	80
AWT.LBW.175	150	80
AWT.LBW.200	175	80

Table 3

Note: above figures are nominal and for guidance only.

c). Internal double partition walls with cavity wall widths of 50 to 125mm using acoustic wall tie type AWT.LL (See Figure 4).

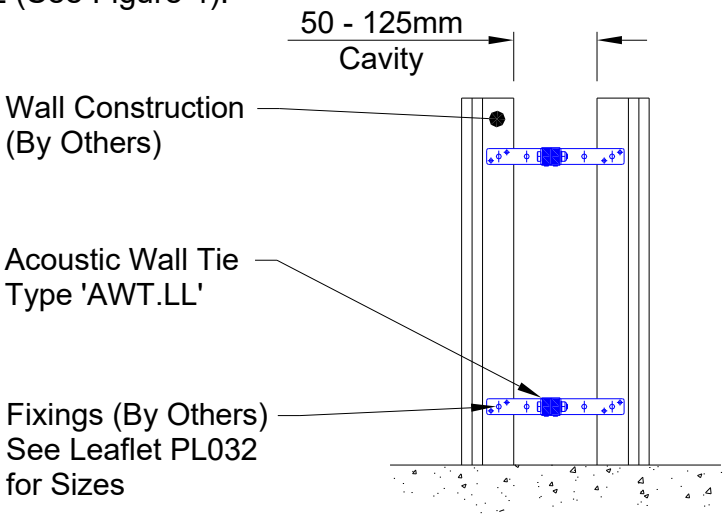

Figure 4

d). Alternative fixing for internal double partition walls with cavity widths of 75 to 100mm using acoustic wall tie type AWT.LZ (See Figure 5).

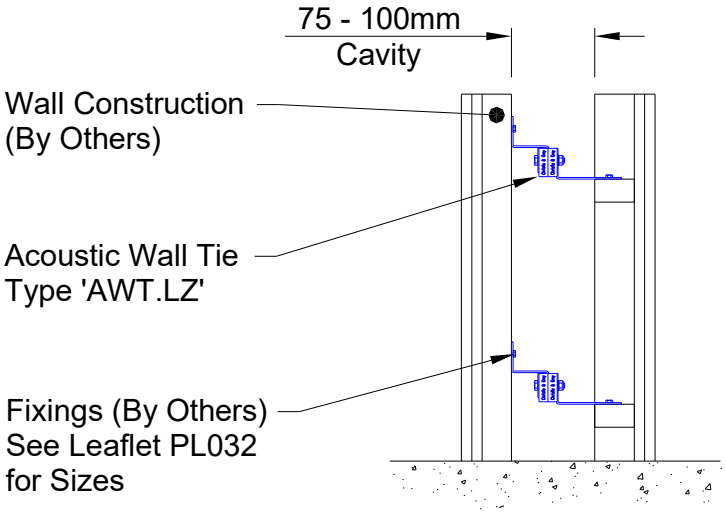

Figure 5

e). Alternative fixing for internal double partition walls with cavity width of 100mm nominal using acoustic wall tie type AWT.ZZ (See Figure 6).

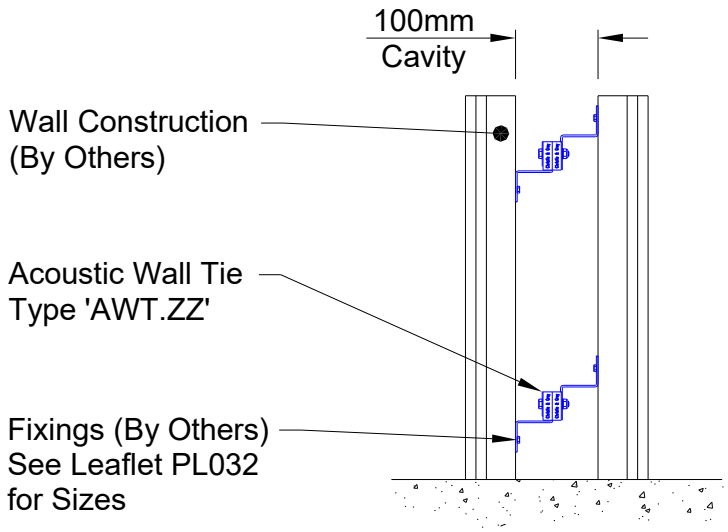

Figure 6

f). Acoustic wall tie type AWT.WPBW for wind post to brick/blockwork walls (See Figure 7 and Table 4). Note: Maximum 3mm compression of rubber components. Do NOT overtighten.

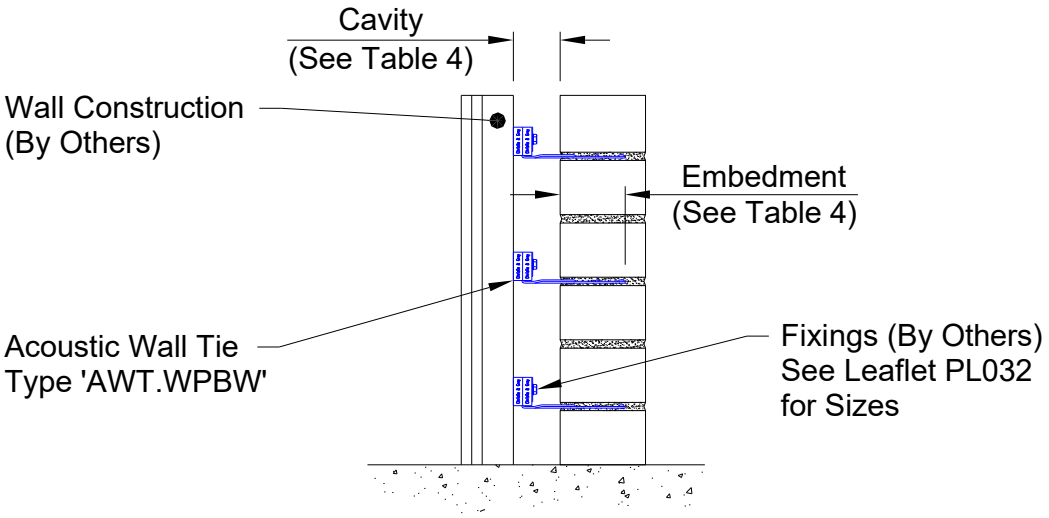

Figure 7

Part No.	Cavity Wall Width (mm)	Tie Embedment (mm)
AWT.WPBW.125	50	85
AWT.WPBW.150	75	85
AWT.WPBW.175	100	85
AWT.WPBW.200	125 & 150*	85 & 60*

Table 4

Note: above figures are nominal and for guidance only.
* embedment for 150mm cavity.

g). Acoustic wall tie type AWT.WPL for wind post to internal partition walls with cavity widths of 25 to 65mm (See Figure 8). Note: Maximum 3mm compression of rubber components. Do NOT overtighten.

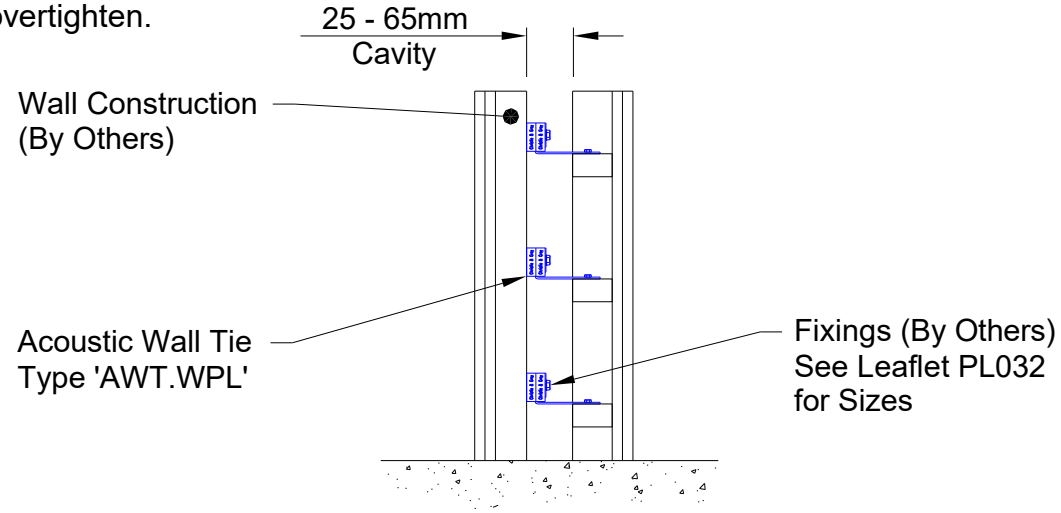

Figure 8

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PAGE	6 of 6
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h). Alternative fixing for wind post to internal partition walls with cavity width of 55mm nominal using acoustic wall tie type AWT.WPZ (See Figure 9). Note: Maximum 3mm compression of rubber components. Do NOT overtighten.

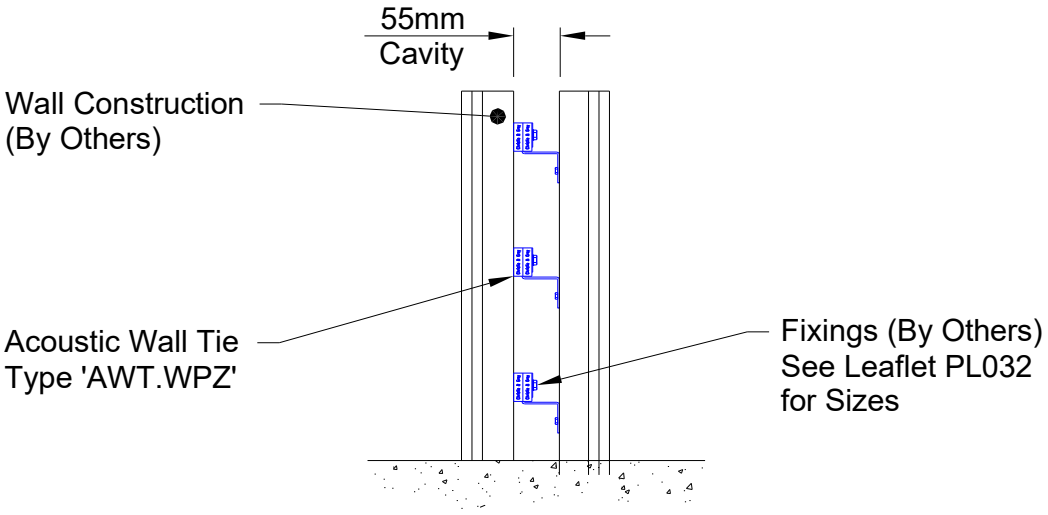

Figure 9

i). Acoustic wall ties can also be used in conjunction with acoustic rubber wall bearing pads (See Figure 10 and Leaflet PL041).

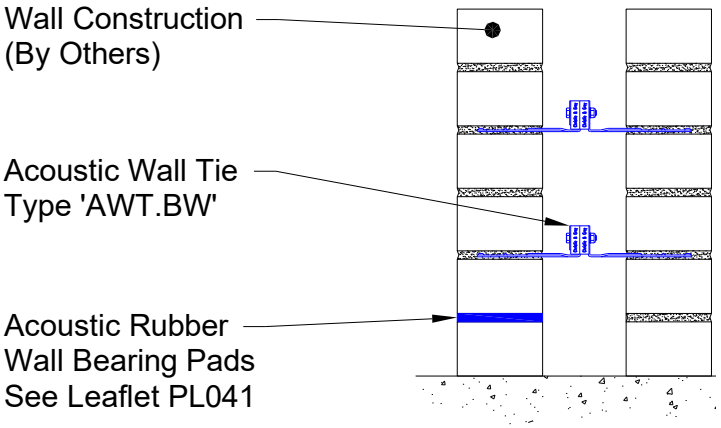

Figure 10

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

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