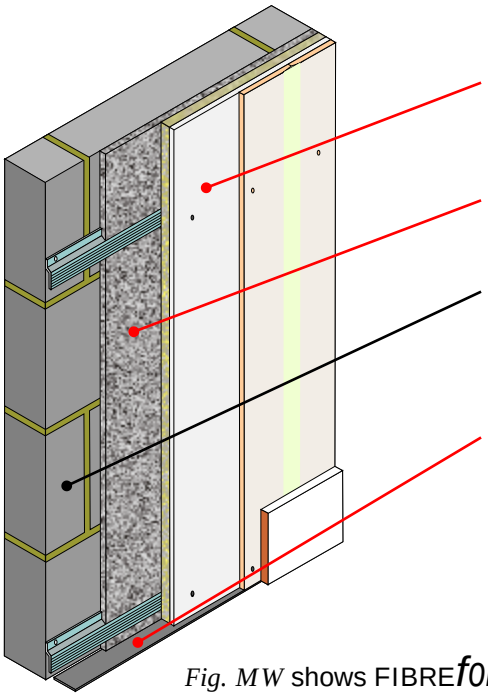
# Solid masonry wall

# PCT / up-grade solution

Composite wall lining
Suitable for new and existing solid aircrete and aggregate block walls



| | |
|---|---|
| **Wall treatment** | FIBRE*fon* HiGYP 28 fixed to 16mm resilient bars set at 600mm (max) centres (See *Table MW* for treatment options) |
| **Absorbing material** | 15mm FIBRE*fon* MICRO SLAB 15 fitted in resilient bar void |
| **Masonry wall** | • 100mm (min) aircrete block (600kg/m$^3$)<br>• 100mm (min) aggregate block (1350 - 2300kg/m$^3$) - open-faced side sealed with a 13mm parge coat (min 10kg/m$^2$) |
| **Perimeter flanking strip** | *Cellecta* J-strip self-adhesive acoustic foam strip |

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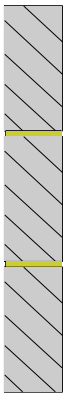
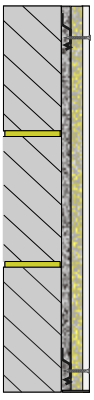
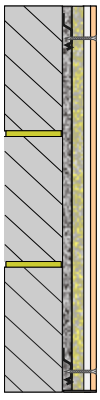
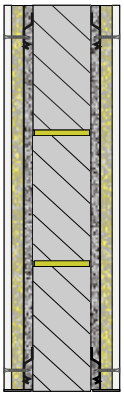
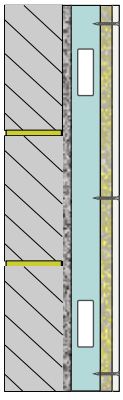
*Fig. MW* shows FIBRE*fon* HiGYP 28 fixed to 16mm resilient bars, fixed to one side of a masonry wall (**MW.T1b**)

*Table MW*

**PCT wall lining options**

| | Solid masonry wall | MW. T1a | MW. T1b | MW. T2 | MW. T3 |
|---|---|---|---|---|---|
| **Typical PCT performance** | 100mm aircrete - 600kg/m$^3$ (min) | **Single face upgrade:** FIBREfon HiGYP 28 fixed to resilient bars at 600mm centres. Cavity filled with FIBREfon Micro Slab 15. | **Single face upgrade:** FIBREfon HiGYP 28 fixed to resilient bars at 600mm centres, covered with a 9.5mm plasterboard, taped and skimmed. Cavity filled with FIBREfon Micro Slab 15. | **Double lining:** FIBREfon HiGYP 28 fixed to resilient bars at 600mm centres to both sides of the wall, resilient bar. Cavities filled with FIBREfon Micro Slab 15. | **Independent wall lining:** FIBREfon HiGYP 28 fixed to 48mm metal frame, set 15mm off existing wall. Cavity filled with FIBREfon Micro Slab 15. |
| $R_w$ | 40dB | 55dB | 57dB | 59dB | 58dB |
| $R_w + C_{tr}$ | 37dB | 48dB | 50dB | 51dB | 53dB |
| Improvement on basic masonry wall $DR_w + C_{tr}$ | - | 11dB | 13dB | 14dB | 16dB |
| Wall detail |  100mm |  100 44 |  100 44 10 |  44 100 44 |  100 91 |
| **Perimeter resilient flanking strip required** | *Cellecta* J-strip<br>Self-adhesive polyethylene foam flanking strip: 2.5mm (t) x 37mm (w) x 40m (l). Used to isolate wall lining from adjoining walls, ceiling and floor. | | | | |

**Acoustic values**
Test data quoted has been conducted at Sound Research Laboratories, Sudbury, UKAS ref. 0444. Airborne results tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS ISO 717-1: 1997.