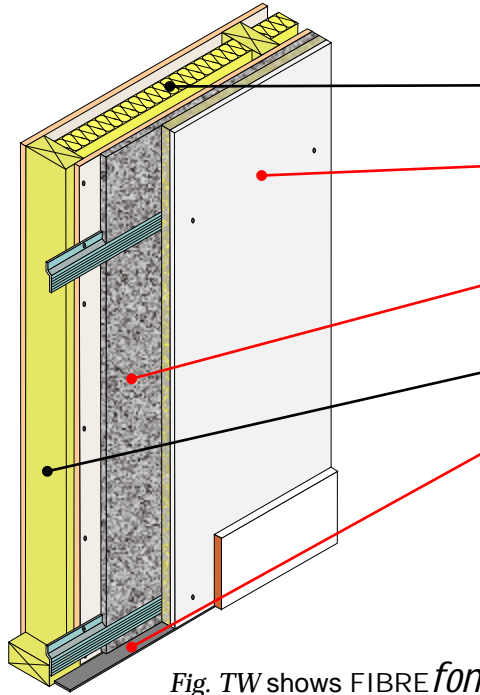


Timber stud wall

PCT / up-grade solution

Composite wall lining
 Suitable for new and existing timber stud walls
 Acoustic treatment indirectly fixed to timber studs



- Absorbing material (existing)** 25mm (min) - 50mm (max) mineral wool (10 - 45kg/m³) between studs
- Wall treatment** FIBRE *fon* HiGYP 28 fixed to 16mm resilient bars set at 600mm (max) centres (See *Table TW* for treatment options)
- Absorbing material** 15mm FIBRE *fon* MICRO SLAB15 between resilient bars
- Timber stud wall (existing)** 89mm (min) x 38mm timber stud wall set at 600mm (max) centres
- Perimeter flanking** *Collecta* J-strip self-adhesive acoustic foam strip



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Fig. TW shows FIBRE *fon* HiGYP 28 fixed to 16mm resilient bars, fixed to one side of an existing timber stud wall (TW.T1)

Table TW

PCT wall lining options

	Timber stud wall	TW. T1	TW. T2	TW. T3	TW. T4
Typical PCT performance	89mm x 38mm timber studs at 600mm centres 25 - 50mm mineral wool fitted in between studs. 12.5mm plasterboard (8kg/m ²) fixed to both sides.	FIBREfon HiGYP 28 fixed to resilient bars set at 600mm centres fixed to one face of the existing timber stud wall. Resilient bar cavity filled with FIBREfon Micro Slab 15.	FIBREfon HiGYP 28 fixed to resilient bars set at 600mm centres fixed to one face of the existing timber stud wall. Resilient bar cavity filled with FIBREfon Micro Slab 15. Additional layer of 12.5mm gypsum-based board (8kg/m ²) fixed to one face.	FIBREfon HiGYP 28 fixed to resilient bars set at 600mm (max) centres fixed to both sides of the timber stud. FIBREfon Micro Slab 50 fitted in between studs.	FIBREfon HiGYP 28 fixed to resilient bars set at 600mm (max) centres fixed to both sides of the timber stud. FIBREfon Micro Slab 50 fitted in between studs. Additional layer of 12.5mm gypsum-based board (8kg/m ²) fixed to one face.
R _w	40dB	54dB	56dB	58dB	60dB
R _w + Ctr	35dB	45dB	49dB	49dB	52dB
Improvement on basic timber stud partition ΔR _w	-	14dB	16dB	18dB	20dB
Wall detail					
Perimeter resilient flanking strip required					
Collecta J-strip 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.					
Fire resistance	30 minutes	30 minutes	60 minutes	60 minutes	60 minutes

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.