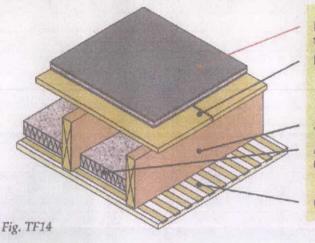


HPK/2012/0630

Structural separating floor - Timber (existing)

PCT solution

- 5 NOV 2012ing timber joists Acoustic treatment laid on sub-floor



Floating floor treatment

Floor decking

Joists Absorbing material

Cellina

DECK fon Ultramat 15

(See Table TF14 for full details)

18mm thick (min) wood based board, density 600kg/m3 (min) or existing floor boards (with all gaps sealed with suitable flexible mastic)

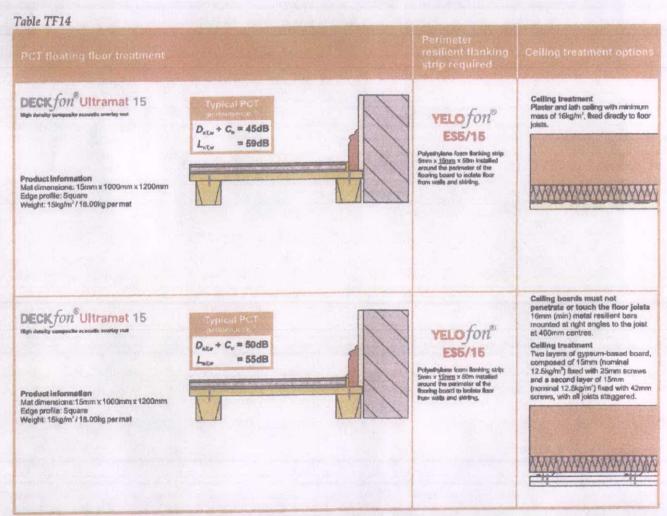
Solid timber joists

- . 50mm FIBRE fon MICRO SLAB 50
- · 100mm (min) mineral wool insulation (45kg/m³) between joists

See Table TF14 for ceiling treatments







Construction notes Materials must be installed in accordance with manufacturers instructions to achieve stated accustic velues. Well treatments <u>MUST</u> be isolated from the floor treatment with YELOfon ESS/15 flanking strip. Ensure services do not come into contact with the floor treatment. Acoustic values

Acoustic values

*Values quoted are typical, based on the treatment being installed correctly, covered with
a 9mm MDF board and pre-completion tested.

Airborne performance tested in accordance with BS EN ISO 140-4:1998
Impact performance tested in accordance with BS EN ISO 140-7: 1998

PCT / up-grade solution

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

Absorbing

25mm (min) - 50mm (max) mineral material (existing) wool (10 - 45kg/m3) between studs

Wall treatment

FIBRE fon HIGYP 32 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

strip

Perimeter flanking Cellecta J-strip self-adhesive acoustic foam strip





Fig. TW shows FIBRE fon HiGYP 32 fixed to 16mm resilient bars, fixed to one side of an existing timber stud wall (TW.T1)

Table TW

PCT wall lining options

Typical PCT performance	Timber stud wall 89mm x 38mm timber studs at 600mm centres 25 - 50mm mineral wool fitted in between studs. 1 x 12.5mm plasterboard 8kg/m³ fixed to both sides.	TW. T1 FIBREfon HIGYP 32 fixed to resilient bars set at 800mm centres fixed to one face of the existing timber stud wall. Resilient bar cavity filled with FIBREfon Micro Stab 15.	face of the existing timber	TW. T3 FIBREfon HIGYP 32 fixed to resilient bars set at 600mm (max) centres fixed to both sides of the timber stud. FIBREFon Micro Stab 50 fitted in between studs.	TW. T4 FIBREfon HIGYP 32 fixed to resilient bars set at 500mm (max) centres fixed to both sides of the timber stud. FIBREfon Micro Stab 50 fitted in between studs. Additional layer of gypsumbased board 8kg/m* (min)
R _w + Ctr	35dB	45dB	49dB	49dB	52dB
Improvement on basic timber stud partition ΔR _w		14dB	16dB	18dB	20dB
Perimeter resilient flanking strip required Cellecta J-strip Self-adhesive polyuty/ene foam flanking strip: 2.5mm (t) x 37mm (w) x 40m (t). Used to isolate wall lining from adioning walls, ceiling and floor.	114mm	114 48	126 48	48 89 48	60 89 48
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. 044
Airborne results tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance and SS ISO 717-1: 1997.