Structural separating floor - Timber

PCT solution

MiTeK Posi-Joist, Prestaplan Presweb or WOLF easi-joist metal web joists
Cellecta ScreedBoard® 28 laid on sub-floor
Use with timber frame walls only

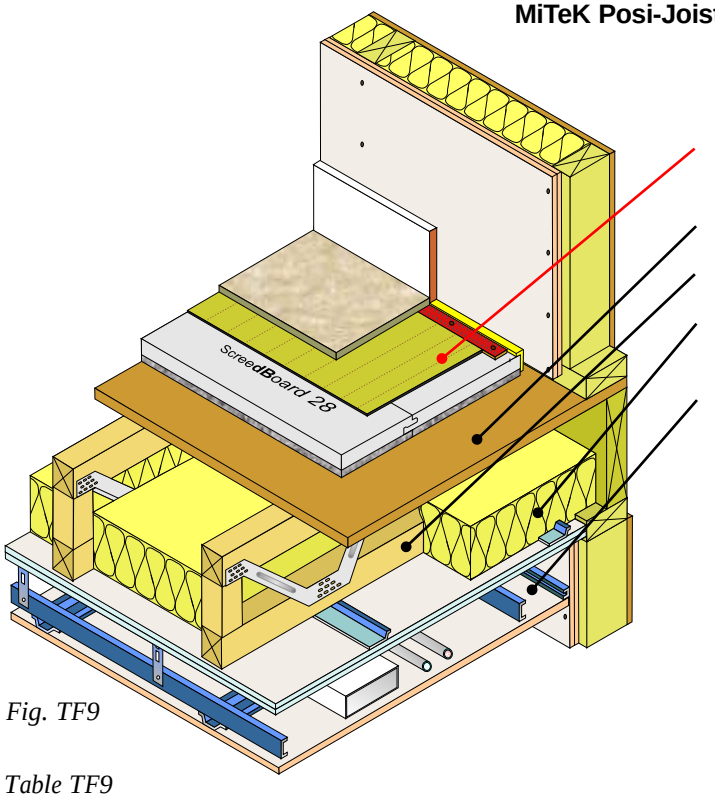


Fig. TF9

Floating floor treatment	ScreedBoard 28 (See *Table TF9* for full details)
Floor decking	15mm thick (min) OSB
Joists	253mm (min) metal web joists
Absorbing material	100mm (min) quilt insulation (10-36g/m^3) between joists
Ceiling	See *Table TF9* for ceiling treatment

Proposed Robust detail
Application N° 72
Metal web joist floors
ScreedBoard 28
Resilient overlay platform floor system laid on timber sub-floor

FASTRACKCAD® ARCHITECTURAL CAD DATABASES

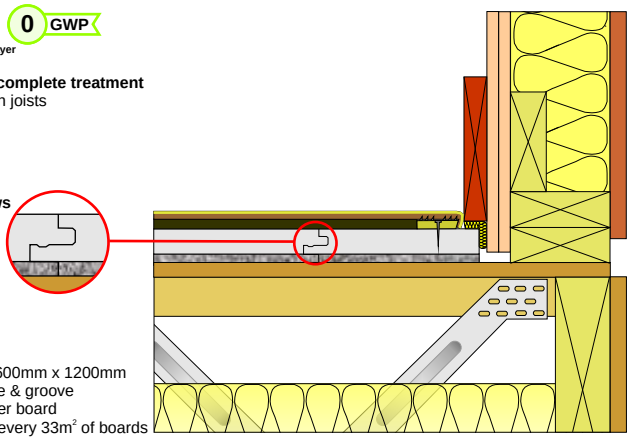
Table TF9

PCT floating floor treatment

ScreedBoard 28 **0** GWP
Dry screed board with composite resilient layer

Additional layers required to complete treatment
- Mineral wool quilt laid between joists
  - 100mm (min) 10-33kg/m^3

No need for screws
Interlocking edges glued together with *Cellecta* **SB** joint adhesive



Product information
Board dimensions: 28mm (t) x 600mm x 1200mm
Edge profile: Interlocking tongue & groove
Weight: 26.00kg/m^2 / 18.72kg per board
Cellecta **SB** joint adhesive: 1L for every 33m^2 of boards

Typical PCT performance [2]

$D_{nT,w} + C_{tr}$	= 51dB
$L_{nT,w}$	= 56dB

Code credits*

Mat 1	Pol 1	Hea 2
2	1	3

Construction notes
Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments MUST be isolated from the floating floor with YELOfon FS50 flanking strip. Ensure services do not bridge the resilient layer. Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

Perimeter resilient flanking strip required

YELOfon
FS50

Pre-formed polyethylene foam flanking angle: 6mm (t) x 50mm (w) x 30mm (h) x 2m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.

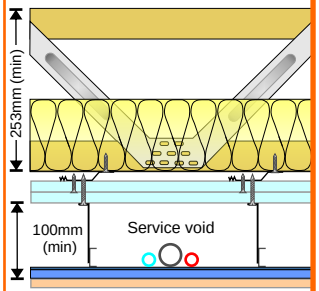
Ceiling treatment

Ceiling board fixings must not penetrate or touch the floor joists
16mm (min) metal resilient bars mounted at right angles to the joist at 400mm centres.

Primary ceiling:
CT1-Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m^2) fixed with 32mm screws and 12.5mm (nominal 10kg/m^2) fixed with 42mm screws, with all joists staggered.

CT2-Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m^2) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m^2) fixed with 42mm screws, with all joists staggered.

Sacrificial ceiling:
Metal ceiling system with a 100mm (min) void fixed to underside of primary ceiling. One layer of nominal 8kg/m^2 gypsum-based board.



Construction notes
Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

* Code for Sustainable Homes (CSH) credits quoted are typical. Mat 1 value taken from the BRE Green Guide. Pol 1 credit is only awarded if all the other insulation products used have a GWP of <5. Hea 2 credits are based on the floor being pre-completion tested and the separating wall performing to at least the same acoustic standard. Credits subject to relevant category weighted value. See page 5 for further information.

Acoustic values
[2] Values quoted are typical, based on the treatment being installed correctly 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

Structural separating floor - Timber

PCT solution

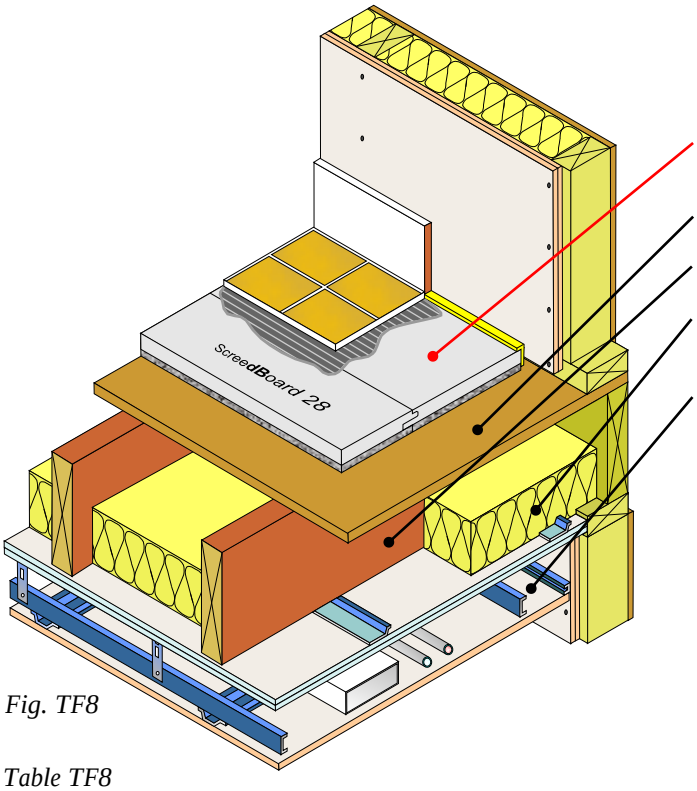


Fig. TF8

Table TF8

Solid timber joists
Cellecta ScreedBoard® 28 laid on sub-floor
Use with timber frame walls only

Floating floor treatment	ScreedBoard 28 (See *Table TF8* for full details)
Floor decking	15mm thick (min) OSB
Joists	220mm (min) solid timber joists
Absorbing material	100mm (min) quilt insulation (10-36g/m^3) between joists
Ceiling	See *Table TF8* for ceiling treatment

MADE FROM RECYCLED MATERIALS

FASTRACKCAD® ARCHITECTURAL CAD DATABASES

The specification clause for this acoustic treatment can be found on page 19.

PCT floating floor treatment

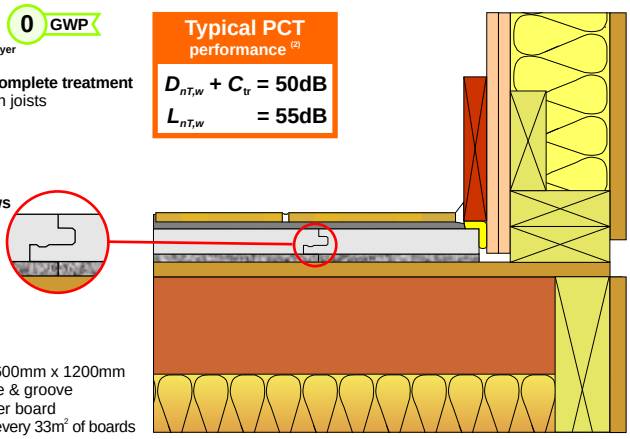
ScreedBoard 28 **0** GWP

Dry screed board with composite resilient layer

Additional layers required to complete treatment
- Mineral wool quilt laid between joists
  - 100mm (min) 10-33kg/m^3

Typical PCT performance [2]
$D_{nT,w} + C_{tr}$ = 50dB
$L_{nT,w}$ = 55dB

No need for screws
Interlocking edges glued together with *Cellecta* **SB** joint adhesive



Product information
Board dimensions: 28mm (t) x 600mm x 1200mm
Edge profile: Interlocking tongue & groove
Weight: 26.00kg/m^2 / 18.72kg per board
Cellecta **SB** joint adhesive: 1L for every 33m^2 of boards

Typical PCT performance [2]
$D_{nT,w} + C_{tr}$ = 50dB
$L_{nT,w}$ = 55dB

Code credits*

Pol 1	Hea 2
1	3

Construction notes
Materials must be installed in accordance with manufacturers'instructions to achieve stated acoustic values. Wall treatments MUST be isolated from the floating floor with YELOfon FS50 flanking strip. Ensure services do not bridge the resilient layer. Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant). ScreedBoards must be sealed with a suitable primer prior to ceramic tile being laid.

Perimeter resilient flanking strip required

YELOfon **FS50**

Pre-formed polyethylene foam flanking angle: 6mm (t) x 50mm (w) x 30mm (h) x 2m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.

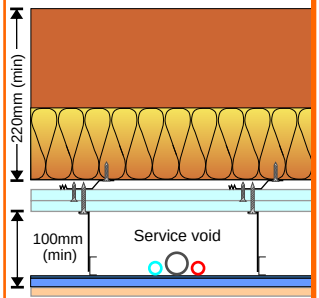
Ceiling treatment

Ceiling board fixings must not penetrate or touch the floor joists
16mm (min) metal resilient bars mounted at right angles to the joist at 400mm centres.

Primary ceiling:
CT1-Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m^2) fixed with 32mm screws and 12.5mm (nominal 10kg/m^2) fixed with 42mm screws, with all joists staggered.

CT2-Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m^2) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m^2) fixed with 42mm screws, with all joists staggered.

Sacrificial ceiling:
Metal ceiling system with a 100mm (min) void fixed to underside of primary ceiling. One layer of nominal 8kg/m^2 gypsum based board.



Construction notes
Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

* Code for Sustainable Homes (CSH) Pol 1 credit is only awarded if all the other insulation products used have a GWP of <5. Hea 2 credits are based on the floor being pre-completion tested and the separating wall performing to at least the same acoustic standard. Credits subject to relevant category weighted value. See page 5 for further information.

Acoustic values
[2] Values quoted are typical, based on the treatment being installed correctly 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

Structural separating floor - Timber

PCT solution

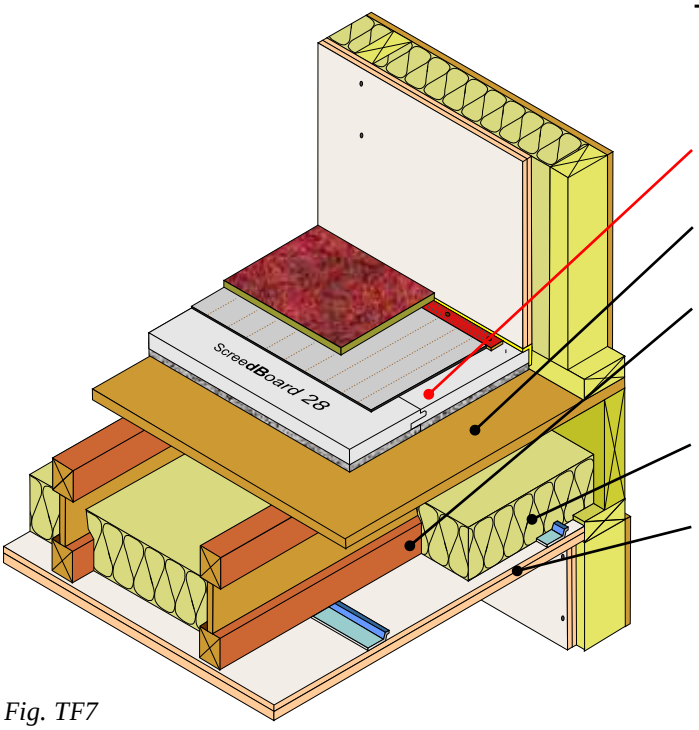


Fig. TF7

Timber I-joists, solid timber, metal web or timber web joists
Cellecta ScreedBoard® 28 laid on sub-floor
Use with timber frame walls only

Floating floor treatment	ScreedBoard 28 (See *Table TF7* for full details)
Floor decking	15mm thick (min) wood based board, density 600kg/m^3 (min)
Joists	• 220mm (min) solid timber joist • 240mm (min) timber I-joists • 253mm (min) metal web joists • 254mm (min) timber web joists
Absorbing material	100mm (min) quilt insulation (10-36g/m^3) between joists
Ceiling	See *Table TF7* for ceiling treatment options

MADE FROM RECYCLED MATERIALS

The specification clause for this acoustic treatment can be found on page 19.

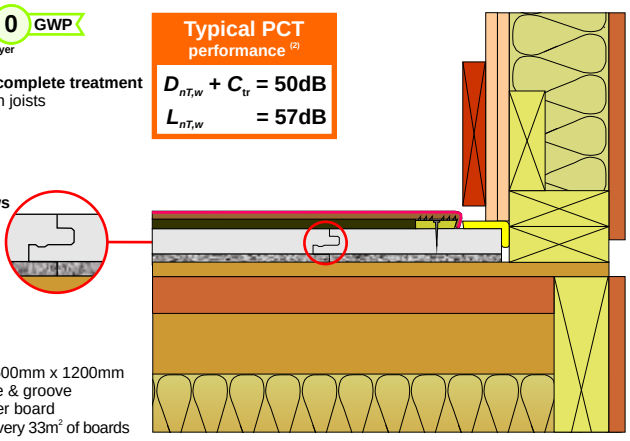
Table TF7

PCT floating floor treatment

ScreedBoard 28 **0** GWP
Dry screed board with composite resilient layer

Additional layers required to complete treatment
- Mineral wool quilt laid between joists
  - 100mm (min) 10-33kg/m^3

Typical PCT performance [2]
$D_{nT,w} + C_{tr}$ = 50dB
$L_{nT,w}$ = 57dB



No need for screws
Interlocking edges glued together with *Cellecta* **SB** joint adhesive

Product information
Board dimensions: 28mm (t) x 600mm x 1200mm
Edge profile: Interlocking tongue & groove
Weight: 26.00kg/m^2 / 18.72kg per board
Cellecta **SB** joint adhesive: 1L to every 33m^2 of boards

Typical PCT performance [2]
$D_{nT,w} + C_{tr}$ = 50dB
$L_{nT,w}$ = 57dB

Code credits*

Pol 1	Hea 2
1	1

Construction notes
Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments MUST be isolated from the floating floor with YELOfon FS50 flanking strip. Ensure services do not bridge the resilient layer. Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

Perimeter resilient flanking strip required

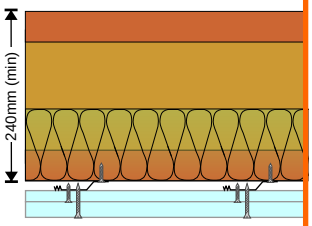
YELOfon
FS50
Pre-formed polyethylene foam flanking angle: 6 mm (t) x 50mm (w) x 30mm (h) x 2m(l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.

Ceiling treatment

Ceiling board fixings must not penetrate or touch the floor joists
16mm (min) metal resilient bars mounted at right angles to the joist at 400mm centres.

CT1-Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m^2) fixed with 32mm screws and 12.5mm (nominal 10kg/m^2) fixed with 42mm screws, with all joists staggered.

CT2-Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m^2) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m^2) fixed with 42mm screws, with all joists staggered.



Construction notes
Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

* Code for Sustainable Homes (CSH) Pol 1 credit is only awarded if all the other insulation products used have a GWP of <5. Hea 2 credits are based on the floor being pre-completion tested and the separating wall performing to at least the same acoustic standard. Credits subject to relevant category weighted value. See page 5 for further information.

Acoustic values
[2] Values quoted are typical, based on the treatment being installed correctly 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