Timber I-joist separating floor

Robust Detail E-FT-5

CELLECTA ScreedBoard® 28 laid on timber sub-floor
Use with timber frame walls only

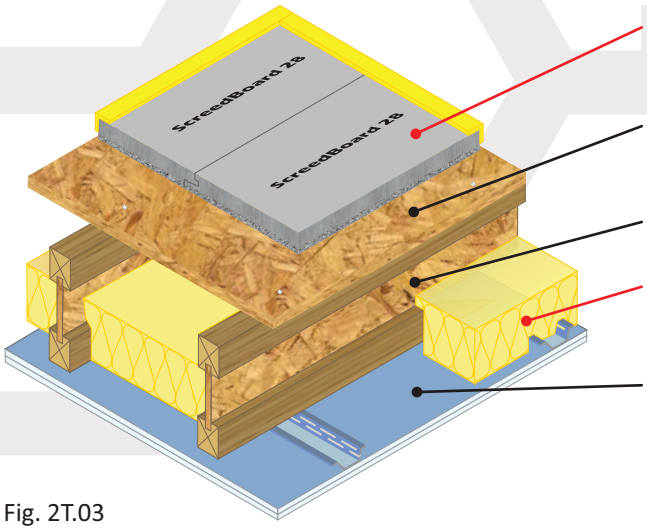


Fig. 2T.03

Floating floor treatment	CELLECTA ScreedBoard® 28 (See Table 2T.03a for full details)
Floor decking	15mm[(1)] (min) thick wood based board, density 600kg/m³ (min)
Joists	235mm[(2)] (min) timber I-joists
Absorbing material	○ 50mm CELLECTA FIBREfon® Micro 50 ● 100mm (min) quilt insulation (10-36kg/m³)
Ceiling	See Table 2T.03b for ceiling treatment options

[(1)] 18mm(min) required for Robust Detail applications
[(2)] 240mm (min) required for Robust Detail applications when adopting CT3 ceiling treatment

FASTRACKCAD ARCHITECTURAL CAD DATABASES
Available on bimstore.co
nbsPlus

Table 2T.03a

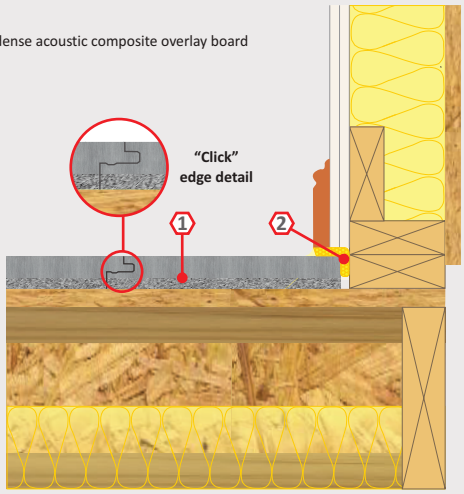
Installation Details

Resilient overlay platform floor system

① **ScreedBoard® 28** Ultra high performance, dense acoustic composite overlay board
28mm x 600mm x 1200mm
Weight: 26kg/m² / 18.72kg/board

Ⓐ **CELLECTA Pro Adhesive**
ScreedBoard joint adhesive
Bottle size: 1L / 33m² coverage

② **YELOfon® FS50**
Preformed flanking strip:
6mm x 50mm x 30mm x 2m



Additional items required:
CELLECTA ScreedBoard® fixing tools
Sound absorbing quilt laid between joists:
○ 50mm CELLECTA FIBREfon® Micro 50 non-itch polyester wool
● 100mm (min) Mineral wool 10-33kg/m³

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

Table 2T.03b

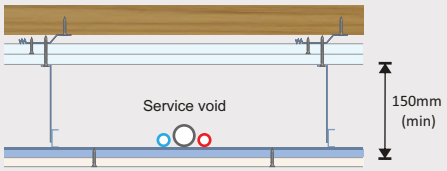
Ceiling Treatment Options

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

CT1 Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m²) fixed with 32mm screws and 12.5mm (nominal 10kg/m²) fixed with 42mm screws, with all joints staggered.

CT2 Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.

Plus sacrificial ceiling
Metal ceiling system with a 150mm (min) void fixed to underside of primary ceiling. One layer of nominal 8kg/m² gypsum based board.



CT3 30mm CELLECTA **HP30** resilient bars mounted at right angles to the joists at 600mm (max) centres.

Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.

Acoustic Performance

Airborne:	51dB $D_{nT,w} + C_{tr}$	Building Regs
Impact:	55dB $L_{nT,w}$	+ 5dB

Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT).
Airborne performance tested in accordance with BS EN ISO 140-4:1998
Impact performance tested in accordance with BS EN ISO 140-7: 1998

Third Party Accreditation and Approvals

RD Proprietary Treatment

NHBC
LABC warranty
Premier Guarantee
Accepted

bmtrada 2015

CLASS B*fl*,S1
BS EN13501-1
2017

Environmental Credentials

GWP <5

100% Recyclable Gypsum

01634 29-66-77 cellecta.co.uk technical@cellecta.co.uk

Timber I-joist separating floor

Robust Detail E-FT-5 + UFH

CELLECTA Mojave® acoustic / UFH floating floor system laid on timber sub-deck
Use with timber frame walls only

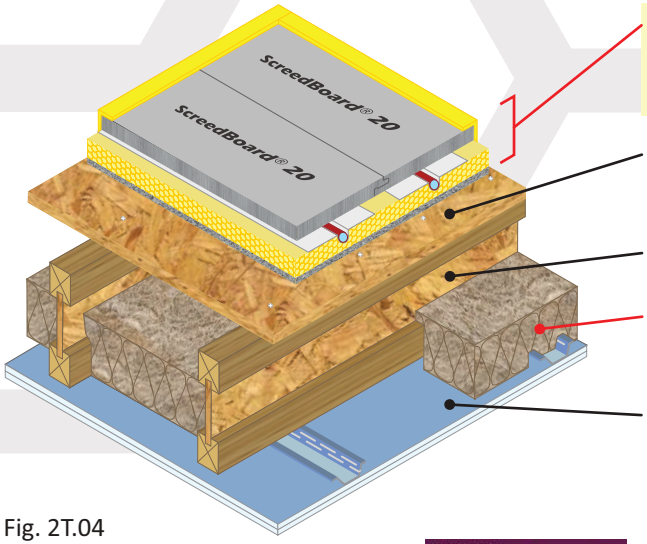


Fig. 2T.04

Acoustic + UFH treatment	**CELLECTA Mojave® S1/8** acoustic treatment incorporating underfloor heating (see Table 2T.04a for full details)
Floor decking	15mm[(1)] (min) thick wood based board, density 600kg/m³ (min)
Joists	235mm[(2)] (min) timber I-joist
Absorbing material	○ 50mm CELLECTA FIBRE*fon*® Micro 50 ● 100mm (min) quilt insulation (10-36kg/m³)
Ceiling	See Table 2T.04b for ceiling treatment options featuring 30mm deep CELLECTA **HP30** resilient bars

[(1)] 18mm(min) required for Robust Detail applications
[(2)] 240mm (min) required for Robust Detail applications when adopting CT3 ceiling treatment

housebuilder product awards 2020 winner — Best Services Product

FASTRACKCAD ARCHITECTURAL CAD DATABASES

Available on bimstore.co

nbsPlus

Table 2T.04a

Table 2T.04b

Installation Details

Resilient overlay platform floor system incorporating underfloor heating

CELLECTA Mojave® S1/8
Dry laid acoustic treatment incorporating underfloor heating system

1 ScreedBoard® 20
High conductivity overlay board
Dimensions: 20mm x 600mm x 1200mm
Weight: 25kg/m² / 18.00kg/board
Thermal resistance: 0.05m²K/W

A CELLECTA Pro Adhesive
ScreedBoard joint adhesive
Bottle size: 1L / 33m² coverage

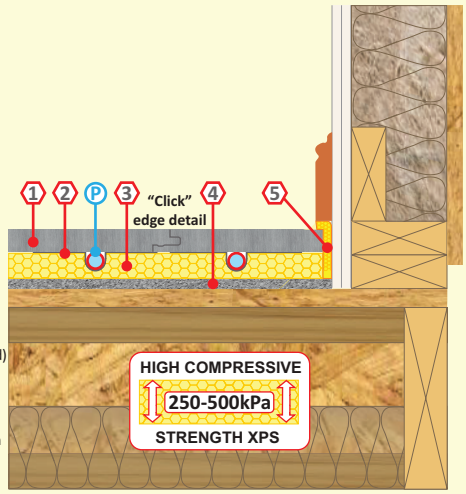
2 ULTRAplate
Aluminium heat diffuser plate (to suit pipe installed)
Dimensions: 130mm x 1000mm

3 XFLO® 250, 300, 500 (kPa)
High compressive strength routed XPS insulation
Dimensions: 15-75mm x 600mm x 2500mm
Pipe centre: 150, 200, 300mm
Pipe bore size (OD): 10 - 20mm
(manufactured to suit)

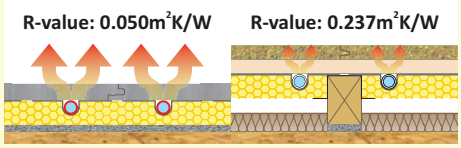
4 FIBRE*fon*® 8
High performance resilient layer
Dimensions: 8mm x 600mm x 1200mm
Weight: 1kg/m² / 0.72kg/board

5 YELO*fon*® ES5/100
Perimeter edge strip
Dimensions: 5mm x 100mm x 50m

Ⓟ UFH water pipe (by others)



Screedboard 20 is **5x more thermally conductive** than an 18mm chipboard + 19mm plasterboard plank combination, enabling the underfloor heating system to be more responsive and the heat source to run more efficiently at a lower temperature.



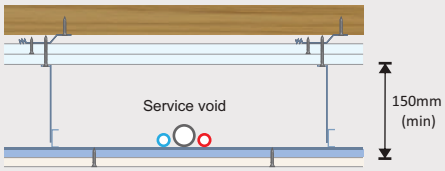
Ceiling Treatment Options

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

CT1 Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m²) fixed with 32mm screws and 12.5mm (nominal 10kg/m²) fixed with 42mm screws, with all joints staggered.

CT2 Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.

Plus sacrificial ceiling
Metal ceiling system with a 150mm (min) void fixed to underside of primary ceiling. One layer of nominal 8kg/m² gypsum based board.



CT3 30mm CELLECTA **HP30** resilient bars mounted at right angles to the joists at 600mm (max) centres.

Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.

Acoustic Performance

Airborne:	52dB $D_{nT,w} + C_{tr}$	Building Regs
Impact:	55dB $L_{nT,w}$	+ 5dB

Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT).
Airborne performance tested in accordance with BS EN ISO 140-4:1998
Impact performance tested in accordance with BS EN ISO 140-7: 1998

Third Party Accreditation and Approvals

RD Proprietary Treatment

NHBC LABC warranty Premier Guarantee Accepted

bmtrada 2015

CLASS B*fl*,S1 BS EN13501-1 2017

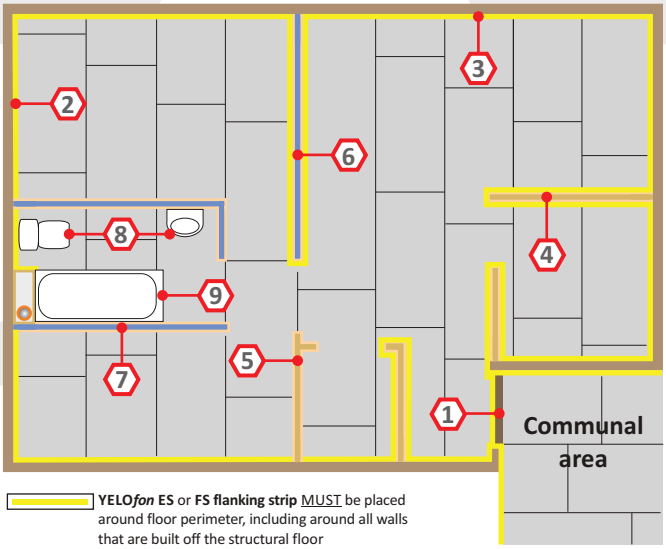
Environmental Credentials

GWP <5

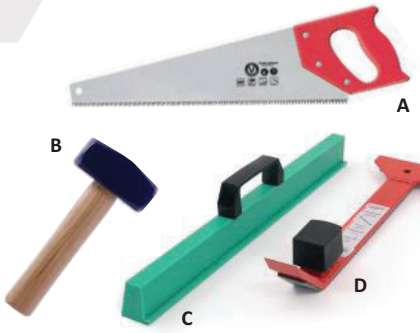
100% Recyclable Gypsum

Floating floor treatment design & installation details: ScreedBoard® 20/28

The acoustic performance of the floor structure will be compromised if the **ScreedBoard**'s are not completely isolated from the sub-floor, soil pipes, door frames, surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed accordingly.

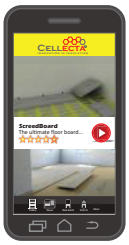


YELO*fon* ES or **FS flanking strip** MUST be placed around floor perimeter, including around all walls that are built off the structural floor



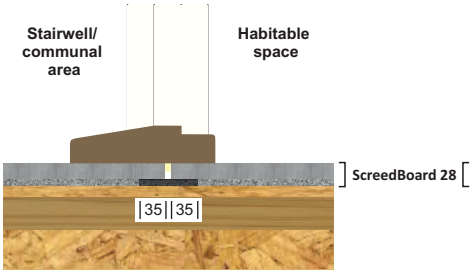
Fixing tools & adhesive required

A. Hand or skill saw
B. Club hammer
C. ScreedBoard "Fixing batten"
D. ScreedBoard "Pull bar"
E. CELLECTA Pro Adhesive (1Ltr)
+ Packing shims (not shown)



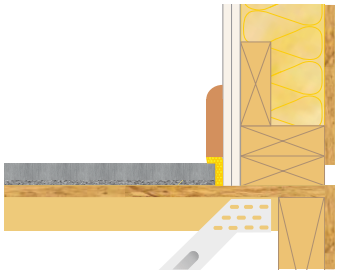
Installation video on the CELLECTA app

1 Door threshold



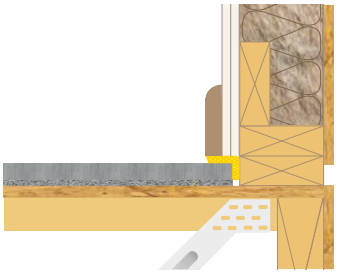
To add additional support, trim off 35mm of the resilient later from the leading edges and install a 75mm wide **RUBBER*fon* Threshold Support Strip (TSS)**.

2 Wall treatment installed before the floor treatment



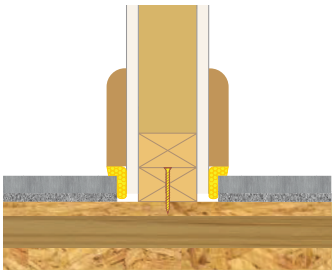
Wall treatments MUST be isolated from the **ScreedBoard 20/ 28** with **YELO*fon* ES** or **FS** strip.

3 Wall treatment installed after the floor treatment



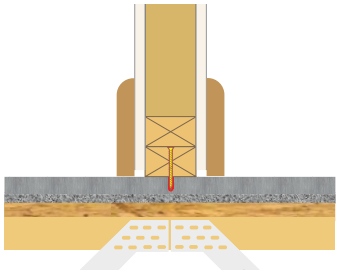
Wall treatments MUST be isolated from the **ScreedBoard 20/ 28** with **YELO*fon* ES** or **FS** strip.

4 Timber stud partition built off the structural floor



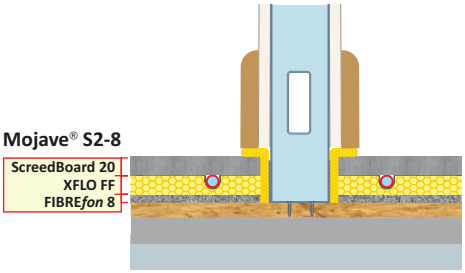
Internal timber stud walls built off the structural floor MUST be isolated from the **ScreedBoard 20/28** with **YELO*fon* ES** or **FS** strip.

5 Non-load bearing timber stud partition built off the floor treatment



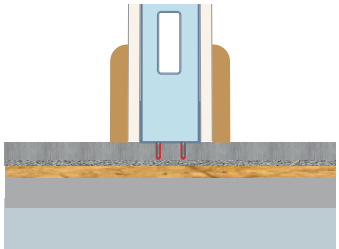
Non-load bearing timber stud walls can be built directly off the **ScreedBoard 20/28**. Care should be taken to ensure screws DO NOT penetrate the resilient layer.

6 Metal frame partition built off the structural floor



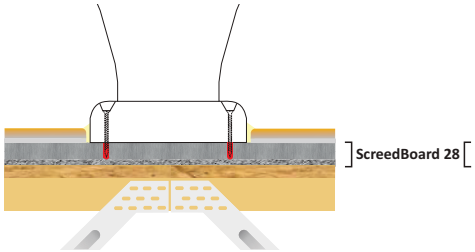
Internal metal frame walls built off the structural floor MUST be isolated from the **ScreedBoard 20/28** with **YELO*fon* ES** or **FS** strip.

7 Non-load bearing metal frame partition built off the floor treatment



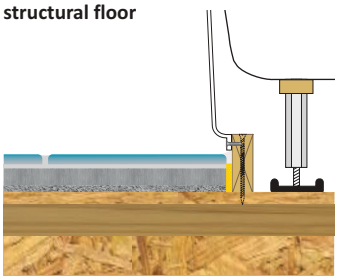
Non-load bearing metal frame walls can be built directly off the **ScreedBoard 20/28**. Care should be taken to ensure screws DO NOT penetrate the resilient layer.

8 Sanitary ware built off the floor treatment.



Sanitary ware can be built directly off the **ScreedBoard 20/28**. Ensure the screws do not penetrate the resilient layer.

9 Baths, shower trays built off the structural floor



Baths and shower trays built off the structural floor should be isolated from the **ScreedBoard 20/ 28** and any floor finished **YELO*fon* ES** or **FS** strip.

01634 29-66-77 cellecta.co.uk technical@cellecta.co.uk