Separating floor - Pre-cast concrete plank

Robust Detail E-FC-8

CELLECTA DECKfon Ultralay 5 acoustic floor covering adhered to screed
Screed laid on CELLECTA isolation layers

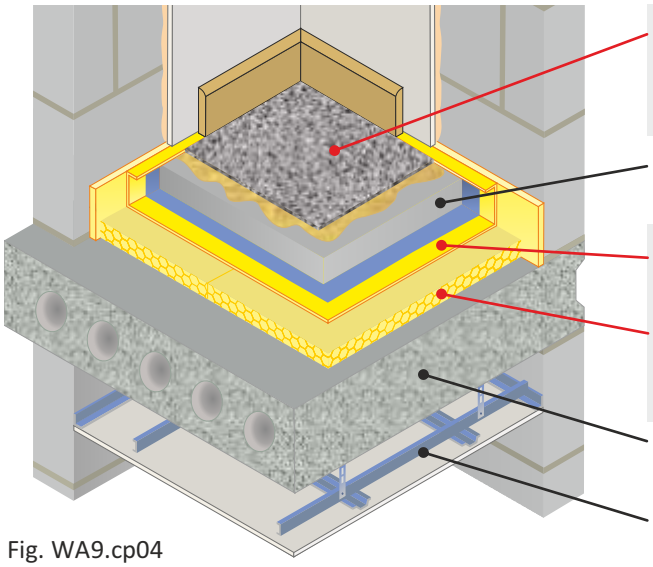


Fig. WA9.cp04

Resilient layer	5mm **DECKfon Ultralay 5** acoustic floor covering fully bonded to slab with **CELLECTA UL80** adhesive
Screed	• 65mm (min) sand cement screed • 40mm proprietary screed, nominal 80kg/m^2
1st Isolation layer	5mm **CELLECTA YELOfon HD5** extruded polyethylene (30kg/m^3)
2nd isolation layer	25mm (min) **CELLECTA XFLOOR 250/300/500** extruded polystyrene insulation board
Structural floor	• 150mm (min) pre-cast concrete floor plank • 300kg/m^2 (min) mass per unit area
Ceiling	See Table WA9.cp04b for ceiling treatment options

FASTRACKCAD ARCHITECTURAL CAD DATABASES

NBSPlus

Table WA9.cp04a

Installation Options

Resilient layer bonded to screed

DECKfon Ultralay 5 High density recycled acoustic floor covering
Dimensions: 5mm x 1.2m x 10m (12m^2)

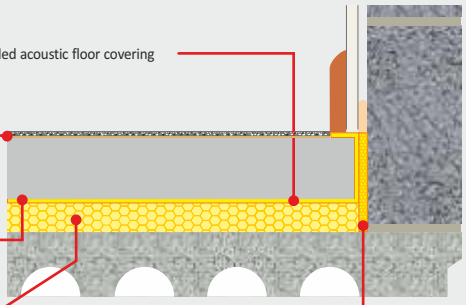
CELLECTA UL80
Soft floor covering adhesive
Size: 15kg tub (up to 80m^2 coverage)

Under screed isolation layer 1

YELOfon HD5
5mm extruded polyethylene (30kg/m^3)
Dimensions: 5mm x 1.5m x 75m (112.5m^2 per roll)

Under screed isolation layer 2

XFLOOR 250/300/500
High compressive strength extruded polystyrene
Dimensions: 25-160mm x 600mm x 2500mm



YELOfon ES10/100 Perimeter edge strip
Dimensions: 10mm x 100mm x 50m

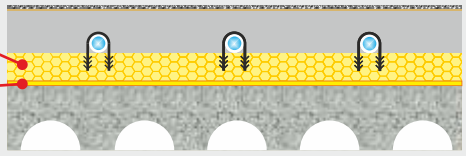
Underfloor heating system incorporated within screed

Resilient layer 1

XFLOOR 250/300/500

Resilient layer 2

YELOfon HD5

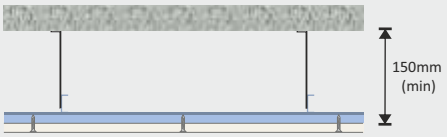


Construction notes
Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values.
Wall treatments MUST be isolated from the floating floor with **YELOfon HD5** and **ES10/100** perimeter edge strip.

Table WA9.cp04b

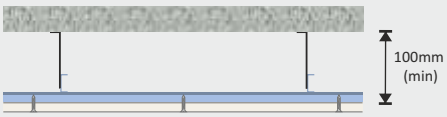
Ceiling Treatment Options

CT0 - Metal ceiling - 150mm void
To be used with 150mm (min) depth concrete planks



One layer of nominal 10kg/m^2 gypsum-based board

CT1 - Metal ceiling - 100mm void
To be used with 200mm (min) depth concrete planks



One layer of nominal 10kg/m^2 gypsum-based board

IMPORTANT
If adopting this treatment, all three components MUST be installed:
1) **DECKfon Ultralay 5** (resilient layer)
2) **YELOfon HD5** (isolation layer 1)
3) **HEXATHERM XFLOOR 250/300/500** (isolation layer 2)

rd impact performance values quoted were conducted at Sound Research Laboratories, UKAS ref. 0444 in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997 as detailed in Appendix D of the Robust Details handbook (minimum value required *rd* DL_w = 17dB).
PCT values quoted are typical, based on the treatment being installed correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact performance tested in accordance with BS EN ISO 140-7: 1998.

Acoustic Performance

		Building Regulations
Airborne:	52dB $D_{nT,w} + C_{tr}$	+ 5dB
Impact:	40dB $L_{nT,w}$ rd DL_w = 25dB	

Third Party Accreditation and Approvals

RD Compliant Treatment

NHBC
LABC warranty
Premier Guarantee
Accepted

BMTRADA ISO 9001: 2015

Environmental Credentials

GWP <5

100% Recyclable Foams

zero ODP

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