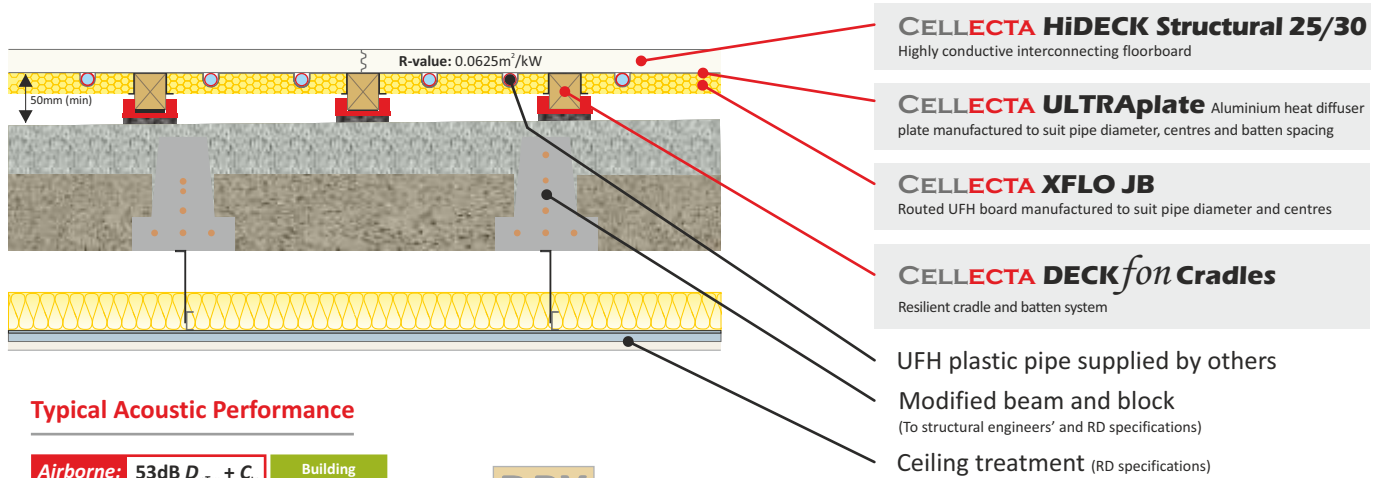# Separating floor - Modified beam and block

Robust Detail E-FC-7

CELLECTA **HiDECK Structural** installed on CELLECTA **RUBBER**_fon_ **Cradle** and batten system
CELLECTA **XFLO JB** underfloor heating insulation boards installed between battens
System levels uneven structural floors

WU9.sbb2

R-value: 0.0625m²/kW
50mm (min)

- CELLECTA **HiDECK Structural 25/30**
  Highly conductive interconnecting floorboard
- CELLECTA **ULTRAplate** Aluminium heat diffuser plate manufactured to suit pipe diameter, centres and batten spacing
- CELLECTA **XFLO JB**
  Routed UFH board manufactured to suit pipe diameter and centres
- CELLECTA **DECK**_fon_ **Cradles**
  Resilient cradle and batten system
- UFH plastic pipe supplied by others
- Modified beam and block
  (To structural engineers' and RD specifications)
- Ceiling treatment (RD specifications)

Typical Acoustic Performance

		Building Regulations
Airborne:	53dB $D_{nT,w} + C_{tr}$	≥+8dB
Impact:	51dB $L_{nT,w}$ rd DL_w = 25dB	

DRY System

UFH Insulation Board

XFLO® JB

CELLECTA's **XFLO JB** boards are manufactured from 100% recyclable HEXATHERM, using a CNC to route out the pipe diameter and centres required. The board's are made to suit the specific batten spacing. When used in conjunction with CELLECTA's **ULTRAplates** (heat diffuser plates) will provide outstanding heat output.

Key Benefits

- Manufactured to suit pipe and centres required
- Works in conjunction with heat diffusion plates
- Outstanding thermal output
- Supplied to suit batten spacing

Physical Properties

		XFLO JB		
		250	**300**	**ULTRAplate**
		High strength UFH board	High strength UFH board	Aluminium heat diffuser plate
Strength at 10% compression	kPa	250	300	-
Thermal conductivity	W/mk	0.033	0.033	-
Temperature range	°C	-50/+75	-50/+75	-
Route sizes available (to suit pipe diameter)	mm	10, 12, 14, 15, 16, 18, 20	10, 12, 14, 15, 16, 18, 20	10, 12, 14, 15, 16, 18, 20
Pipe centres	mm	150, 200	150, 200	150, 200
Board / plate size	mm	300 x 1250/2500 350 x 1200		340/390 x 1000
Thickness' (other sizes manufactured to order)	mm	**20, 25, 30, 35**	**40, 50**	**0.5**

Structural Board

FFT2

HiDECK® Structural 25/30

High conductivity structural floorboard
Thickness': 25, 30mm
Board size: 600 x 1200mm
Weight: 25 - 31.25kg/m², 30 - 37.50kg/m²
Thermal resistance (m²k/W): 25 - 0.0625, 30 - 0.075

Heat Diffuser

ULTRAplate 2C/0.5

High performance pressed aluminium diffuser plate
Number of channels: 2   **Plate thickness:** 0.5mm
Plate width: 340m   **Plate length:** 1000m
To suite pipe sizes: 10, 12, 14, 15, 16, 20mm

Acoustic Cradle and Batten Levelling System

RUBBER_fon_® Cradles

Resilient cradle system

Dimensions: 12mm x 100mm x 100mm
Packers: 2, 3, 5mm   **Elevation blocks:** 20, 30, 40mm

Perimeter Edge Strip

YELO_fon_® ES5/120

Closed-cell extruded polyethylene edge strip
Thickness: 5mm x 120mm x 50m

Accreditation & Approvals

RD Compliant Treatment
BBA VERIFIED RD DATA
NHBC
LABC warranty
Premier Guarantee
Accepted
BMTRADA SYSTEM CERTIFICATION ISO 9001
ISO 9001: 2015

Environmental Credentials

GWP <5
100% Recyclable Foam
zero ODP