



GYPDECK 18

Product Information & Technical Data Sheet

Resonate **GYPDECK 18** is a high density, 'dry screed' panel for floors. As a dry screed system they offer significant time saving benefits over wet screed flooring solutions.

The low thermal resistance of the **GYPDECK 18** boards also makes them hugely effective when used in underfloor heating applications.

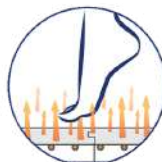
Soundproofing & Underfloor Heating

GYPDECK 18 combined with **ResoTherm** insulation boards, and **ResoFleece** creates a complete acoustic and underfloor heating system. For these reasons the panels are ideal for student accommodation, care homes, residential properties and care facilities.

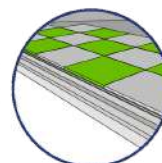
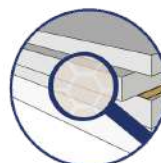
Key Benefits



Excellent impact and airborne sound reduction*



Low thermal resistance for optimum floor heating conditions**



High density boards accept ceramic and porcelain floors directly without a decoupling mat

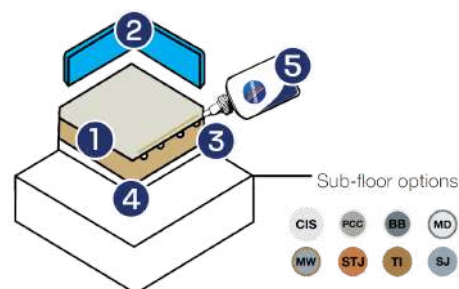


Dry system reduces build times. Does not burn when exposed to fire (non-combustible).
EN 13501-1, A2-s1,d0



System Components

1. Resonate **GYPDECK 18** floor panel
2. **ResoEdge** flanking strip
3. **ResoThermXPS** routed insulation
4. **ResoFleece** polyester resilient layer
5. Resonate **GYPDECK** Adhesive



Dimensions

Panel Dimensions 18mm (H), 600mm (W)
1200mm (L)

Panel m² 0.72 m² Per Panel

Panels Per Pallet 50 Panels / 36m²

Thermal Conductivity 0.038 W/mk

Density 1200 kg/m³

*When installed as an acoustic system

**When installed as an underfloor heating system

Robust Detail Compliant

E-FC-1 (FFT 4)

E-FC-2 (FFT 4)

E-FS-1 (FFT 4)



GYPDECK 18 +ufh

Product Information & Technical Data Sheet

Resonate **GYPDECK 18 +ufh** is a complete under floor heating and acoustic system. **GYPDECK 18** dry screed panels are installed in conjunction with **ResoThermXPS®** insulation boards, and **ResoFleece** to deliver a high performance acoustic and underfloor heating system.

Perfectly suited for residential properties, leisure complexes and care facilities an underfloor heating system featuring **GYPDECK 18 +ufh** provides all round floor performance. The system is installed directly below the floor finish, providing optimum living conditions for occupants.

Excellent Acoustics, Efficient UFH

The **GYPDECK 18** panels feature low thermal resistance, enabling optimum underfloor heating performance. The **ResoThermXPS®** CNC routed insulation panels have high compressive strength XPS, ideal for areas with heavy foot traffic.

18mm ultra high density **GYPDECK 18** gypsum fibre panel

The pre-grooved **ResoThermXPS®** insulation boards (18-50mm) are suitable for all types of underfloor heating pipes (12-16mm)

10mm **ResoFleece** is a high performance resilient layer technically bonded below **ResoThermXPS®** insulation boards

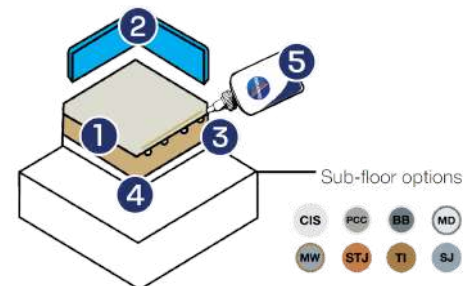
Key Benefits

		Excellent impact and airborne sound reduction*
		Low thermal resistance for optimum floor heating conditions**
		High density boards accept ceramic and porcelain floors directly without a decoupling mat
		Dry system reduces build times. Does not burn when exposed to fire (non-combustible) EN 13501-1, A2-s1,d0



System Components

1. Resonate **GYPDECK 18** floor panel
2. **ResoTherm** flanking strip
3. **ResoThermXPS®** routed insulation
4. **ResoFleece** polyester resilient layer
5. Resonate **GYPDECK** Adhesive



Dimensions

Panel Dimensions (GYPDECK 18)	18mm (H), 600mm (W) 1200mm (L)
Panel m²	0.72 m ² Per Panel
Panels Per Pallet	50 Panels / 36m ²
Thermal Conductivity	0.038 W/mk
Density	1200 kg/m ²
Panel Dimensions (ResoTherm XPS)	600mm / 1200mm (W) 1200mm / 2400mm (L) 18mm, 20mm, 25mm, 30mm, 25mm, 35mm 50mm, 75mm, 100mm
Dimensional Tolerances	(+/- 1mm)
Compressive Strength	200kPa / 300kPa
Moisture Absorption	0.6%

Robust Detail Compliant

E-FC-1 (FFT 4)

E-FC-2 (FFT 4)

E-FS-1 (FFT 4)



Product Applications and Typical Acoustic Performances

Concrete In-situ Floor

CIS



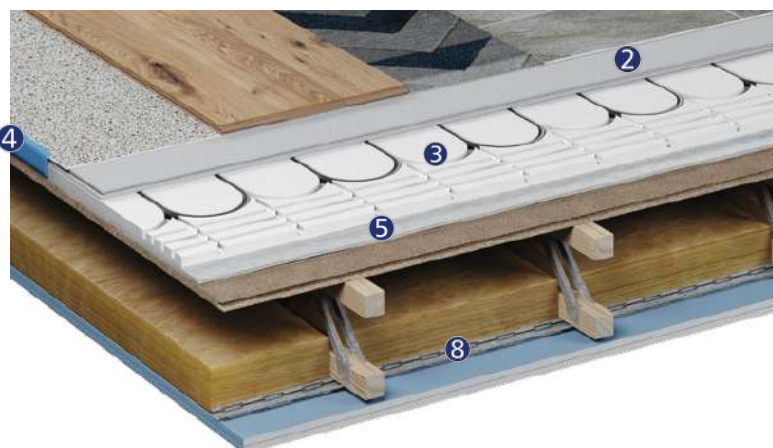
1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate GYPDECK 18 floor panel
3. UFH pipes laid in ResoThermXPS® insulation
4. ResoThermEdge flanking strip
5. ResoFleece polyester fibre resilient layer
6. Levelling compound to achieve SR2 flatness
7. 200mm Reinforced insitu concrete slab
8. MF Ceiling (min 100mm void)
9. 1 x 9.5mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	51dB
Impact Sound Performance LnT,W	47dB
Impact Noise Improvement ΔLw	24dB



Metal Web Timber Joisted Floor

MW



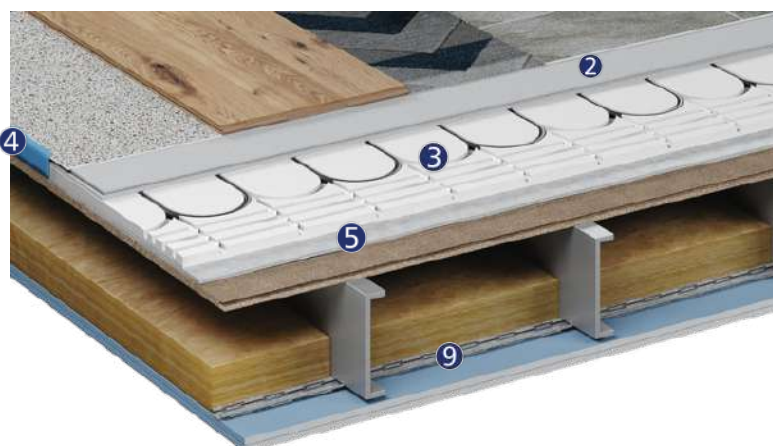
1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate GYPDECK 18 floor panel
3. UFH pipes laid in ResoThermXPS® insulation
4. ResoThermEdge flanking strip
5. ResoFleece polyester fibre resilient layer
6. 225mm (min) metal web timber joist
7. 100mm 45kg/m³ mineral wool
8. 30mm ResoBar resilient bars
9. 2 x 15mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	50dB
Impact Sound Performance LnT,W	56dB



Steel Joisted Floor

SJ



1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate GYPDECK 18 floor panel
3. UFH pipes laid in ResoThermXPS® insulation
4. ResoThermEdge flanking strip
5. ResoFleece polyester fibre resilient layer
6. 18mm (min) timber sub floor
7. 225mm (min) steel floor joists
8. 100mm 45kg/m³ mineral wool
9. 30mm ResoBar resilient bars
10. 2 x 15mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	50dB
Impact Sound Performance LnT,W	56dB

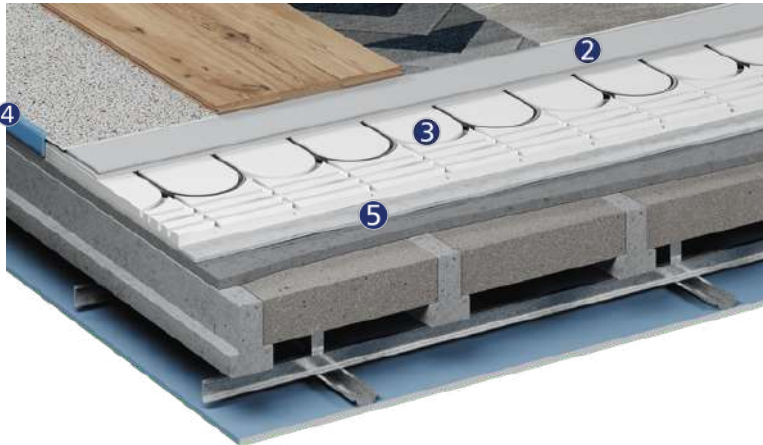




Product Applications and Typical Acoustic Performances

Concrete Block Beam Floor

BB



1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate **GYPDECK 18** floor panel
3. UFH pipes laid in **ResoThermXPS** insulation
4. **ResoThermEdge** flanking strip
5. **ResoFleece** polyester fibre resilient layer
6. Levelling compound to achieve SR2 flatness
7. Concrete block beam
8. MF Ceiling (min 100mm void)
9. 1 x 9.5mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	51dB
Impact Sound Performance LnT,W	47dB
Impact Noise Improvement ΔLw	24dB



Pre-Cast Concrete Floor

PCC



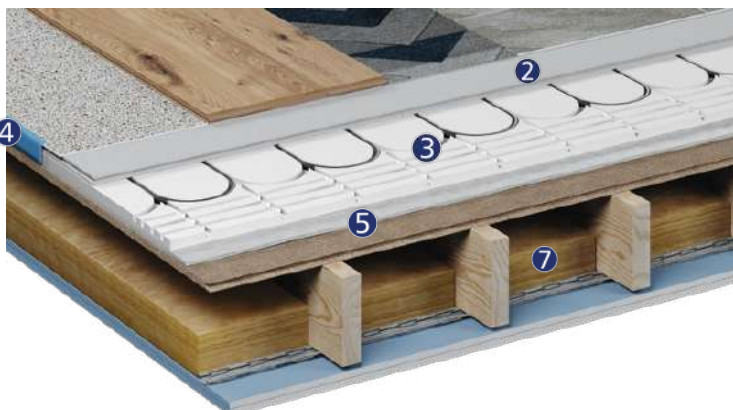
1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate **GYPDECK 18** floor panel
3. UFH pipes laid in **ResoThermXPS** Insulation
4. **ResoThermEdge** flanking strip
5. **ResoFleece** polyester fibre resilient layer
6. Levelling compound to achieve SR2 flatness
7. 150mm Pre - cast concrete slab
8. MF ceiling (min 100mm void)
9. 1 x 9.5mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	52dB
Impact Sound Performance LnT,W	47dB



Solid Timber Joisted Floor

STJ



1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate **GYPDECK 18** floor panel
3. UFH pipes laid in **ResoThermXPS** insulation
4. **ResoEdge L30** flanking strip
5. **ResoFleece** polyester fibre resilient layer
6. Timber floor joists (max 600mm centres)
7. **ResoQuilt** 50mm soundproofing wool
8. 30mm **ResoBar** resilient bars
9. 2 x 15mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	50dB
Impact Sound Performance LnT,W	56dB

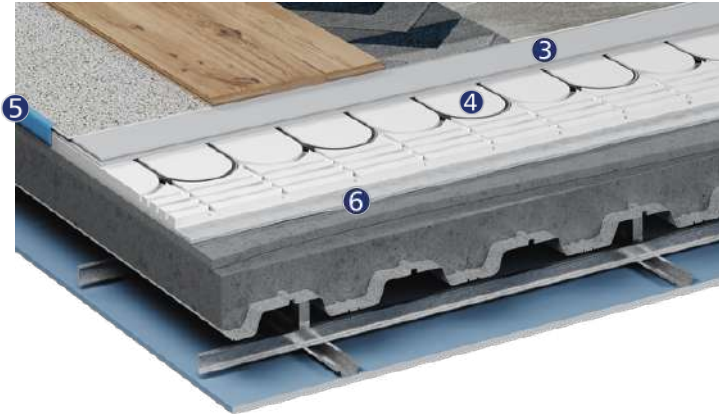




Product Applications and Typical Acoustic Performances

Profiled Metal Deck Floor

MD



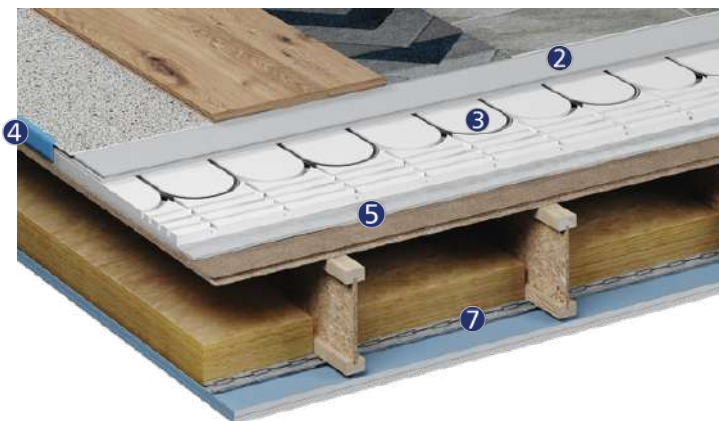
1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Adhesive or decoupling layer
3. Resonate GYPDECK 18 floor panel
4. UFH pipes laid in ResoThermXPS insulation
5. ResoThermEdge flanking strip
6. ResoFleece polyester fibre resilient layer
7. Levelling compound to achieve SR2 flatness
8. 130mm concrete on profiled metal deck
9. MF Ceiling (min 100mm void)
10. 1 x 9.5mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	52dB
Impact Sound Performance LnT,W	47dB



Timber I-Joisted Floor

TI



1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate GYPDECK 18 floor panel
3. UFH pipes laid in ResoThermXPS insulation
4. ResoEdge L30 flanking strip
5. ResoFleece polyester fibre resilient layer
6. 225mm (min) timber I-joisted floor
7. 30mm ResoBar resilient bars
8. 100mm 45kg/m³ mineral wool
9. 2 x 15mm acoustic plasterboard

Airborne Sound Performance DnT,w + Ctr	50dB
Impact Sound Performance LnT,W	56dB

