

# 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.

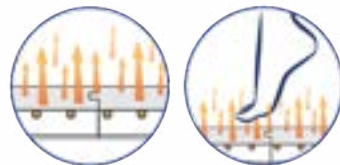
### Soundproofing & Underfloor Heating

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.

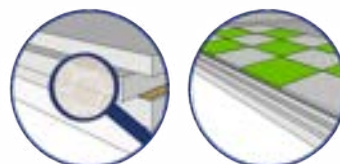
### Key Benefits



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

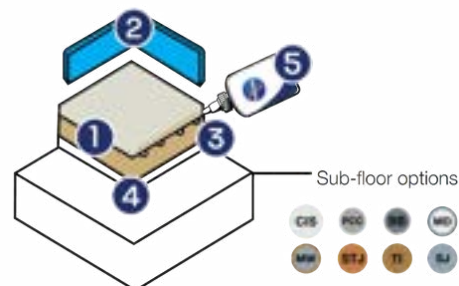


Dry system reduces build times. Does not burn when exposed to fire (non-combustible). EN 13501-1, A2-s1,d0



### 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 m<sup>2</sup>** 0.72 m<sup>2</sup> Per Panel

**Panels Per Pallet** 50 Panels / 36m<sup>2</sup>

**Thermal Conductivity** 0.038 W/mk

**Density** 1200 kg/m<sup>3</sup>

\*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<sup>®</sup> 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<sup>®</sup> 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

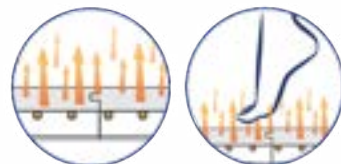
The pre-grooved ResoThermXPS<sup>®</sup> insulation boards (18-50mm) are suitable for all types of underfloor heating pipes (12-16mm)

10mm ResoFleece is a high performance resilient layer technically bonded below ResoThermXPS<sup>®</sup> insulation boards

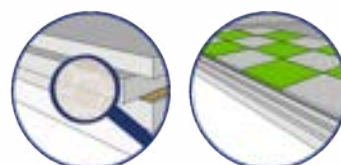
### Key Benefits



Excellent impact and airborne sound reduction\*



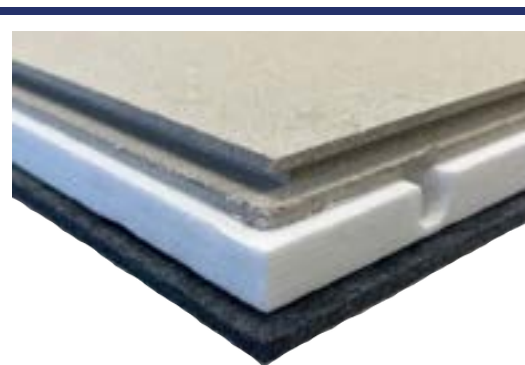
Low thermal resistance for optimum floor heating conditions\*\*



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

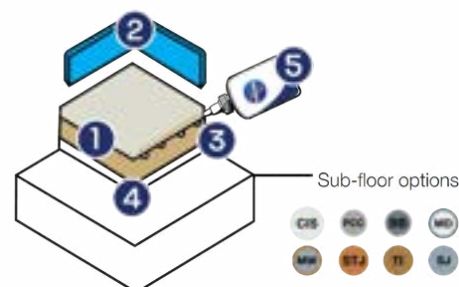


Dry system reduces build times. Does not burn when exposed to fire (non-combustible)  
EN 13501-1, A2-s1,d0



### System Components

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



### Dimensions

<b>Panel Dimensions</b> (GYPDECK 18)	18mm (H), 600mm (W) 1200mm (L)
<b>Panel m<sup>2</sup></b>	0.72 m <sup>2</sup> Per Panel
<b>Panels Per Pallet</b>	50 Panels / 36m <sup>2</sup>
<b>Thermal Conductivity</b>	0.038 W/mk
<b>Density</b>	1200 kg/m <sup>3</sup>
<b>Panel Dimensions</b> (ResoTherm XPS)	600mm / 1200mm (W) 1200mm / 2400mm (L) 18mm, 20mm, 25mm, 30mm, 25mm, 35mm 50mm, 75mm, 100mm
<b>Dimensional Tolerances</b>	(+/- 1mm)
<b>Compressive Strength</b>	200kPa / 300kPa
<b>Moisture Absorption</b>	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<sup>®</sup> 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	

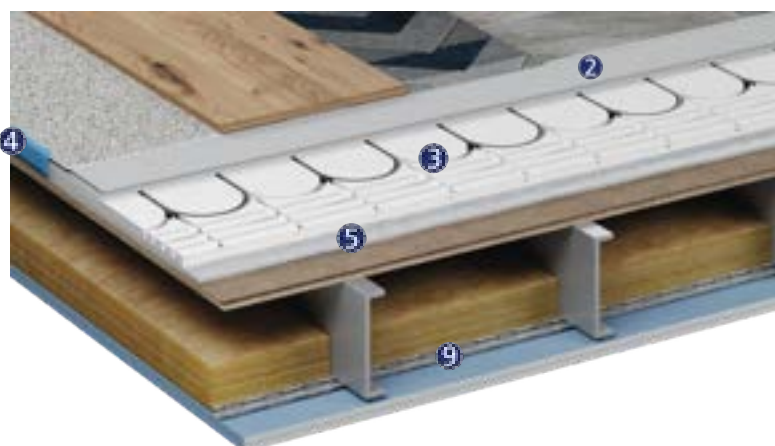
## Metal Web Timber Joisted Floor MW





1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate GYPDECK 18 floor panel
3. UFH pipes laid in ResoThermXPS<sup>®</sup> insulation
4. ResoThermEdge flanking strip
5. ResoFleece polyester fibre resilient layer
6. 225mm (min) metal web timber joist
7. 100mm 45kg/m<sup>3</sup> 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<sup>®</sup> 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/m<sup>3</sup> 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**

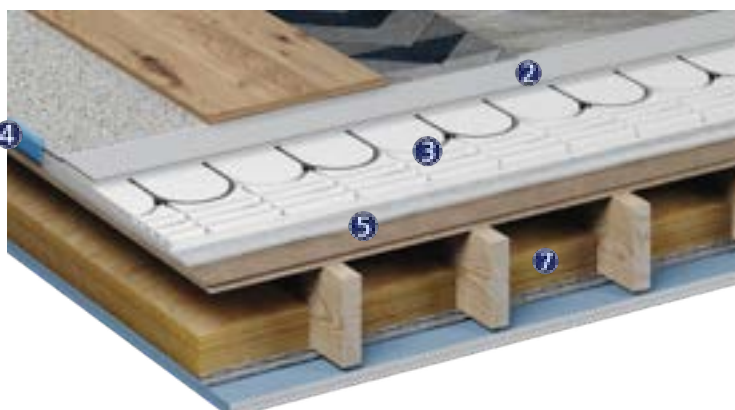


1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Resonate **GYPDECK** 18 floor panel
3. UFH pipes laid in **ResoThermXPS** Insulation
4. **ResoThermEdge** flanking strip
5. **ResoFleece** polyester fibre resilient layer
6. Levelling compound to achieve SR2 flatness
7. 150mm Pre - cast concrete 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



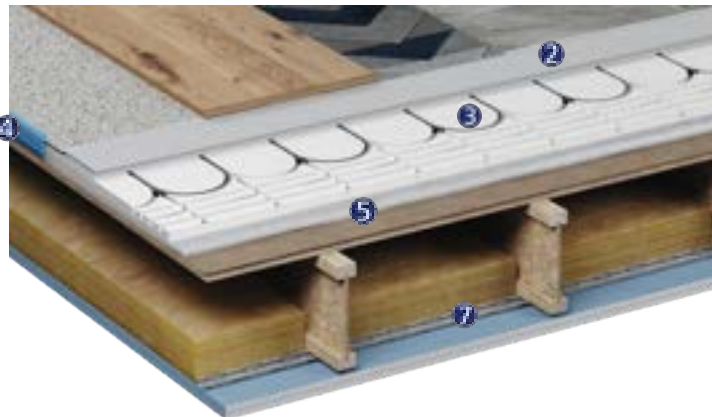
1. Ceramic Tiles / Timber flooring / Carpet / Vinyl
2. Adhesive or decoupling layer
3. Resonate GYPDECK 18 floor panel
4. UFH pipes laid in ResoThermXPS® insulation
5. ResoThermEdge flanking strip
6. ResoFleeco polyester fibre resilient layer
7. Levelling compound to achieve SR2 flatness
8. 130mm concrete 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. ResoFleeco polyester fibre resilient layer
6. 225mm (min) timber I-joisted floor
7. 30mm ResoBar resilient bars
8. 100mm 45kg/m<sup>3</sup> mineral wool
9. 2 x 15mm acoustic plasterboard

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

