



# GYPDECK Structural

## Product Information & Technical Data Sheet

Resonates **GYPDECK Structural** is a high mass, load bearing gypsum fibre floor panel. It is suitable to spanning joists, pedestals and acoustic cradle and batten systems.

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

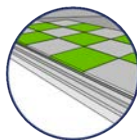
The boards are very dimensionally stable and do not suffer from contraction and expansion issues normally associated with timber based structural flooring. They are also ideal for laying brittle floor finishes directly over, such as porcelain or ceramic tiles (Brinell >40N/mm<sup>2</sup>).

Technical Data	18	25
Mass per m <sup>2</sup>	27 - 29kg	37 - 40kg
Maximum joist centres	400mm	600mm
Pull off bond strength	>1.0N/mm <sup>2</sup>	>1.0N/mm <sup>2</sup>
Expansion/Shrinkage	Changing air humidity at 20°C x 30% 0.6mm/m	
Surface water absorption	(EN20535) <300g/m <sup>2</sup>	(EN20535) <300g/m <sup>2</sup>
Value of vapour diffusion resistance	μ30	μ30
Expansion of thickness after 24hours in water	0.5mm	0.5mm
Expansion/shrinkage by rise & fall temperature	0.02mm/(mk)	0.02mm/(mk)
Conductivity of heat	0.44 AR W/(mk)	0.44 AR W/(mk)
Reaction to fire classification	(EN 13501-1) A1	(EN 13501-1) A1
Working Load		
300x300mm centres	2.7kN	4.5kN
400x400mm centres	2.5kN	4.0kN
600x600mm centres	n/a	3.0kN

### Key Benefits



Excellent impact and airborne sound reduction



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

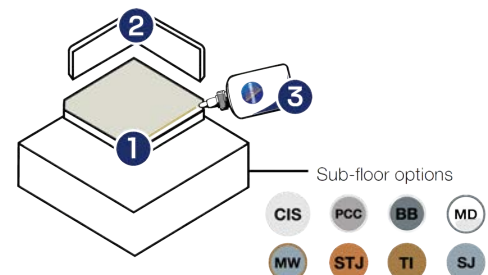


Dry system reduces build times. Does not burn when exposed to fire (non-combustible - A1 fire rating)



### System Components

1. Resonate **GYPDECK Structural** floor panel
2. **ResoEdge** flanking strip
3. Resonate **GYPDECK Adhesive**



### Dimensions

#### Panel Dimensions

600mm (W)  
1200mm (L)  
18mm or 25mm (H)

#### Panel m<sup>2</sup>

0.72m<sup>2</sup> per panel

#### Panels Per Pallet

18 = 50 panels  
25 = 35 panels

#### Density

1600 kg/m<sup>3</sup>

#### Pallet Dimensions

700mm (W)  
1200mm (L)  
1050mm (H)

#### Pallet Weight

18 = 1050kg  
25 = 1025kg

#### Panel Weight

18 = 21kg per panel  
25 = 29kg per Panel

### Robust Detail Compliant

E-FC-1 (FFT 2)

E-FC-2 (FFT 2)

E-FS-1 (FFT 2)