Kinetics LiftWrx

CMSDANSKIN ACOUSTICS

Technical Data Sheet

Kinetics Lift slab (Jack Up) floating floor system.

Proven effective for intense impact applications ranging from floors for sensitive lab measuring equipment (e.g. metrology and surgical labs) to sports floors over retail/commercial spaces, mechanical or plant rooms.

Lift slab (Jack Up) floating floor systems incorporate spring isolators to decouple 102mm thick concrete slabs from non-isolated structural floors and creating a maximum 50mm airspace. Typically used where vibration and impact isolation are critical and of greater concern than airborne noise transmission.

Mounts are joined together with steel re bar to allow the concrete slab to lift as one.

Re bar and concrete specification by others.

FEATURES and BENEFITS

- 25mm and 50mm deflection springs available
- Rubber cap assembly protects against resonant frequencies
- Performance and layout drawings available
- In-slab or perimeter seismic restraint elements available where required
- Springs ship in ready-to-install sub-assemblies
- Castings are stocked ready to ship

PHYSICAL PROPERTIES

- Spring isolator natural frequencies (fn)
  - 3.13 Hz for 25mm rated deflection springs
  - 2.21 Hz for 50mm rated deflection springs
- Other rated deflection springs are available.
- The LiftWrx system uses a 102mm floating concrete slab over 50mm maximum airspace.

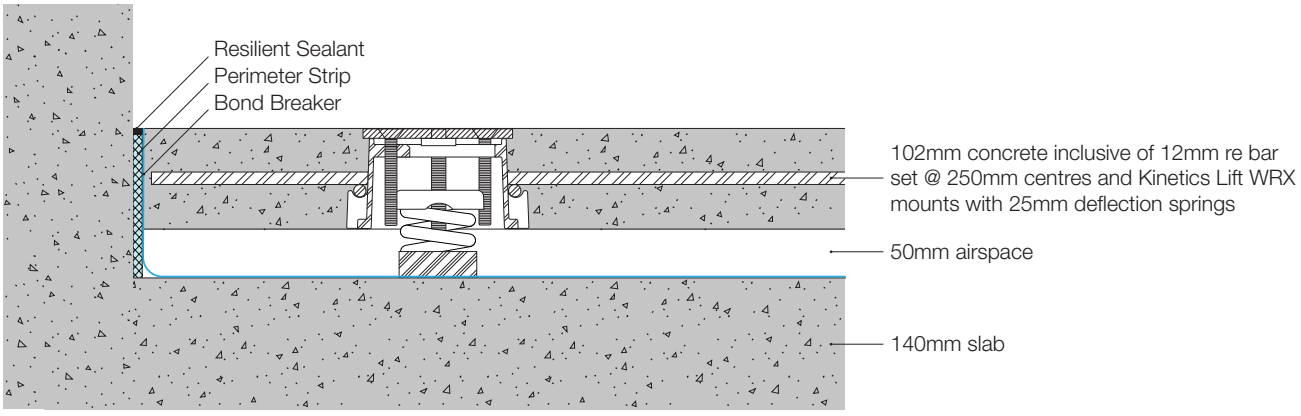
Kinetics LiftWrx Mounts	186mm (L) x 164mm (W) x 102mm (H) available with 25mm or 50mm spring deflection rate
LiftWrx Isolators	Positioned at 1200mm centres subject to layout, load and performance requirement

Factory-engineered detailed drawings consider spacing, spring load/deflections and structural floor flatness requirements.

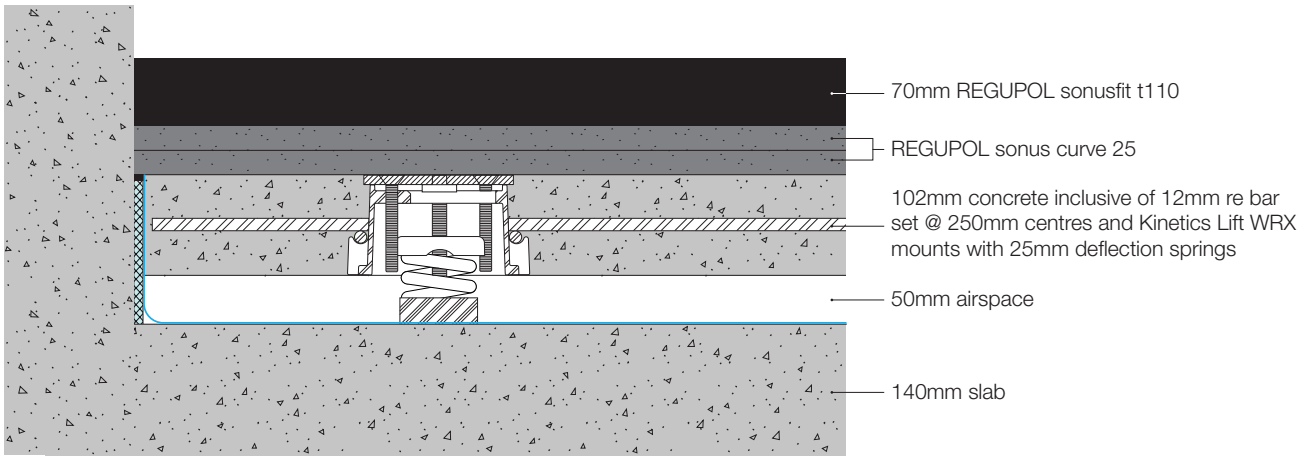
A lead time applies for project specific drawings.

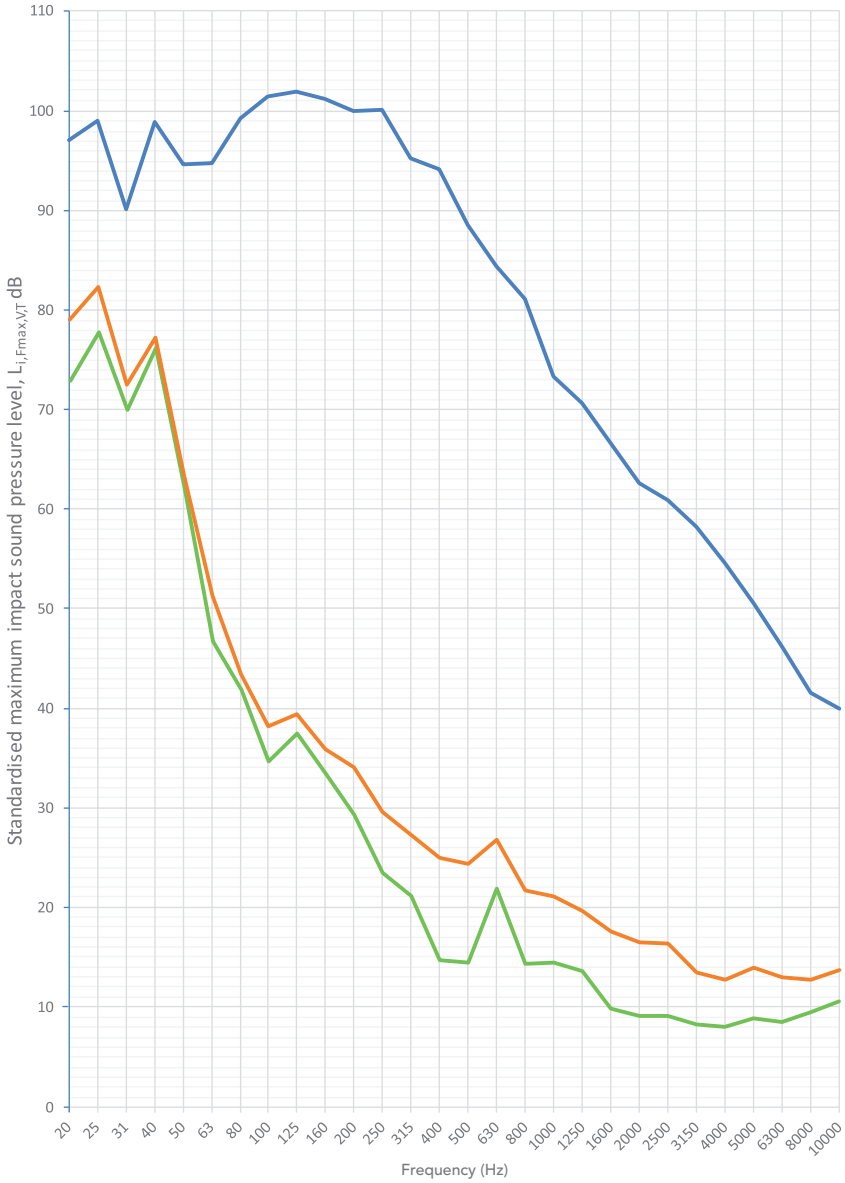
For greater thickness floating concrete slabs or greater airspace heights see Kinetics LSM option.
https://kineticsnoise.com/lsm/spring-floor

Standard Perimeter Detail



SJF-RL220





10mm everroll $L_{iA,Fmax,V,T}$ = 97dB (36kg weight drop)

SJF-RL220 $L_{iA,Fmax,V,T}$ = 36dB (36kg weight drop)

SJF-RL220 $L_{iA,Fmax,V,T}$ = 33dB (20kg weight drop)

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