

What is Gdeck?

The Gdeck EPS Panel System is a revolutionary new way to insulate ground floors. The system comprises of pre-stressed concrete beams and Gdeck EPS insulation panels. The infill silver insulation panels provide high thermal performance which are then combined with high density white EPS rails which gives Gdeck great strength. The system offers many benefits including:

Extremely quick install times for groundworkers

Easy to fit insulation panels

Symmetrical products with rails locatable on either side of the infill panel

Finished floor easily monitored for quality assurance

Instant photographic evidence can be taken to prove correct installation

Load bearing Gdeck rails show groundworker safe areas to walk on

Min 3kN/m line load capacity for all beams profiles at maximum spacing

Improved speed of install compared with concrete block and beam

Lightweight panels reduce working load to groundworker

Gdeck Multi Rails remove need for grouting multiple beam locations

Reduced dig out required, saving money on spoil removal

No need for top sheet insulation

No Topsheet joint issues for installed line loads

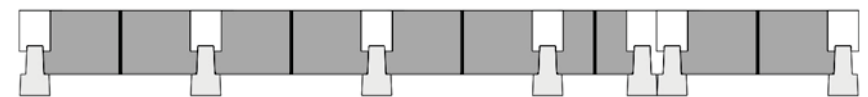
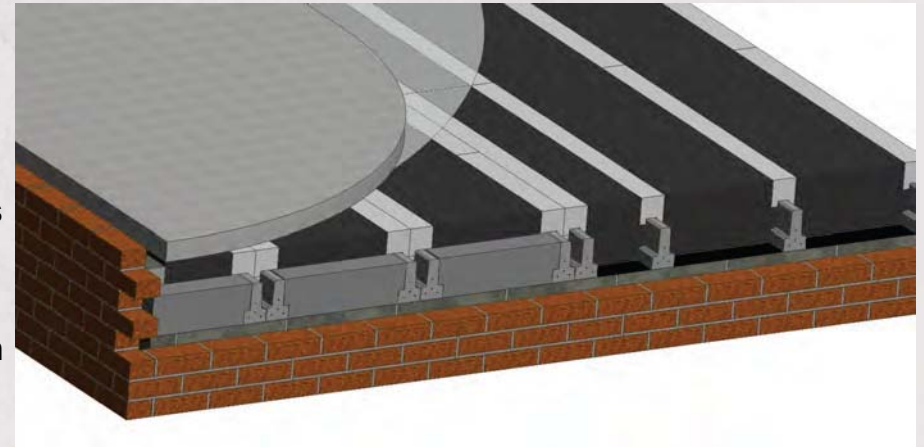
Can be used with variety of concrete toppings including reinforced micro-fibre

Minimal waste

Recyclable EPS panels

Range of U-values available

Install with hand tools. removing need for power tools



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INSTALL GUIDELINES

1. Starter Panel- The approved drawing will state the measurement for the required starter panel. This will normally be cut from a full panel. The cut off from the starter panel can be used as the end panel unless the approved drawing states otherwise.



2. Once the starter panels are in place the next row can be installed. The approved drawing will specify if a full or half panel is needed. The Gdeck rail sits on the beam and the silver infill panel will rest on the shoulders of 2 beams filling the void.



3. When the row of panels has been installed there may be excess. Once marked, the panel can be cut to fit the floor. This offcut can then be used to begin the next row.



4. Multi Rails- where drawings specify multiple beams the Gdeck multi rail is used. This is simply installed along the top of the beams. The multi rail has a toe piece which fits into the gap between the beams. You therefore do not need to screed between multiple beam locations when using Gdeck. Once the multi rails are installed the next panel will fit as normal



5. Cut Rows- Sometimes an approved drawing will designate a row which is not a full or half panel. This can be called a 'cut row'. On these occasions you will need to simply mark the required width on the panel. You then cut along the silver panel.



5. Cut Rows- Install the cut panel as normal. The cut panel will sit flush against the beam which prevents the next rail going onto the beam. To avoid cutting the profile of the silver panel we need to remove part of the white rail before fitting.



6. Service Pipes- all penetrations including service pipes should be cut as neatly as possible. Any gaps around the service pipes should be filled using a polyurethane expanding foam. Excess expanding foam should be removed to leave a sealed neat finish.



7. End Panel- complete the installation as per approved drawing. The offcut from the starter panel should be used as the end panel which will again rest on starter clips if they are being used.

8. Closure blocks- concrete closure blocks are used to sit between the ends of the beams on either end of the floor. These will need to be mortared in place.

9. Membrane sheets- a gas or damp proof membrane can be installed if required

10. Psi Strip- before applying concrete topping, the Psi Strip must be applied to the perimeter wall. This is provided in 75mm height to match screed perimeter height.

