

Structural Composites - Special Applications

01. Product Sheet - Light-weight, high strength cover panels

The light-weight structural composite SPS is suitable for a multitude of applications where high strength is required at the same time as weight optimization. Used in place of reinforced and cast-in-place concrete, heavy steel or stiffened aluminium panels, which are prone to deformation, it offers a superior high-performance light-weight floor system with inbuilt impact resistance, noise and vibration damping and thermal insulation.



SPS panels are fully removable offering access to below floor spaces. They are capable of withstanding a 7-tonne point load on a 50cm² panel but light enough for one person to lift. Such is their versatility that they have been used extensively by the world's premiere computer chip manufacturer. The panels were designed and installed as cover plates for access ports located on an extremely low vibration waffle floor system.

The cover panels offer a light-weight alternative to conventional solutions (the largest panel weighing approximately 13kg/28lbs); simple to install or remove as required using for example standard suction cups with handles.

The panels comprise a fully welded steel shell with a solid elastomer core, developed by BASF. These unique panels are maintenance-free and fully recyclable. Can be manufactured to any required size or geometry.

