

# Stacker Packers Engineered Levelling Shims



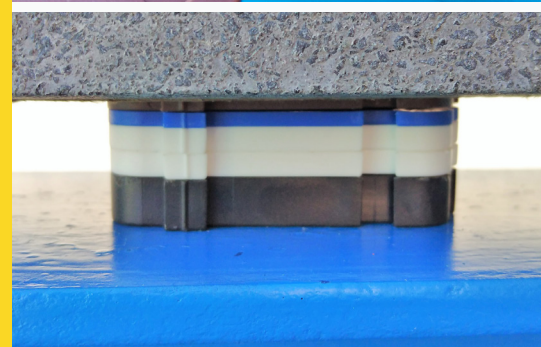
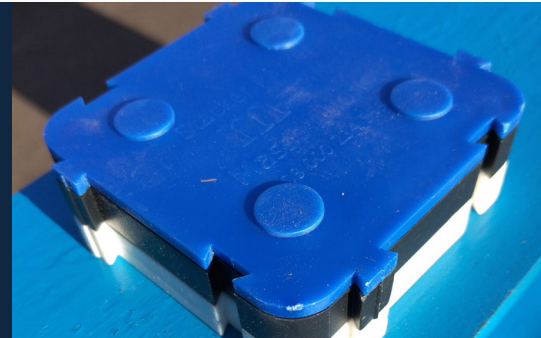
Stacker Packers are an engineered levelling shim solution, specifically designed for levelling precast concrete units. Their integral inbuilt dowels allow the shims to interlock horizontally and vertically, forming a safe and stable structure.

## Applications

- ✓ Precast Concrete Components
- ✓ Steel Frame Buildings
- ✓ Curtain Walling
- ✓ Cladding

## Features and Benefits

- **Modular** – Available in 2mm, 3mm, 5mm and 10mm
- **Unique** – Perimeter profile allows adjustment of the shim stack away from the trapping zone. With other systems this isn't possible.
- **Safe** – Inbuilt dowels allow the shims to interlock horizontally and vertically, forming a safe and stable shim structure, which doesn't slip against each other under load
- **Stability** – With sideways connection, the shims can be increased in length and width to give even greater stability
- **Design** – Projecting inbuilt dowels are designed to depress under load, leaving a flat surface with no high points
- **Strong** – High compressive strength, impact resistant and shatterproof



## Safer Stronger Solution

Manufactured from High Impact Polystyrene (HIPS), Stacker Packers have a high compressive strength. Their integral inbuilt dowels allow the levelling shims to interlock horizontally and vertically, forming a safe and stable shim structure. It means site operatives can easily position them without trapping their fingers.

They've been used on high-profile projects including Barcelona Cathedral, Tottenham Hotspur Stadium, Fulham Football Club, Anfield Main Stand, Wimbledon Court One and Emirates Stadium.



Emirates Stadium  
(Arsenal)



La Sagrada Familia Cathedral  
(Barcelona)

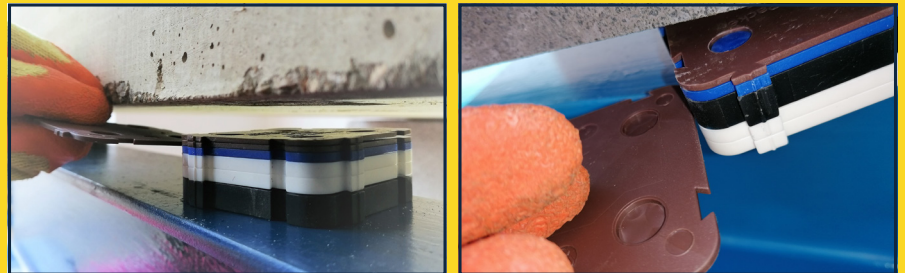
# Stacker Packers Product Range

Product Code	Dimensions	Colour	Quantity Per Box
MSP2	35mm x 35mm x 2mm	Brown	3000
MSP3	35mm x 35mm x 3mm	Blue	2000
MSP5	35mm x 35mm x 5mm	White	1250
MSP10	35mm x 35mm x 10mm	Black	600
SPK2	70mm x 70mm x 2mm	Brown	1000
SPK3	70mm x 70mm x 3mm	Blue	750
SPK5	70mm x 70mm x 5mm	White	500
SPK10	70mm x 70mm x 10mm	Black	250

## Materials

During the design phase, we reviewed the material within standard shims and found in most cases, manufacturers use a variety of relatively low quality, recycled, substandard materials. These materials are often combined with a blowing agent to keep the cost down, which results in formed air voids within the material, which has no compressive strength.

To ensure high quality and consistency in manufacture, **Stacker Packers** utilise virgin High Impact Polystyrene (HIPS), resulting in an engineered solution to a critical structural interface between components.

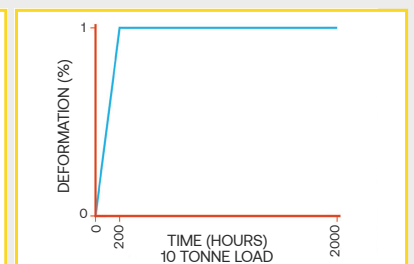
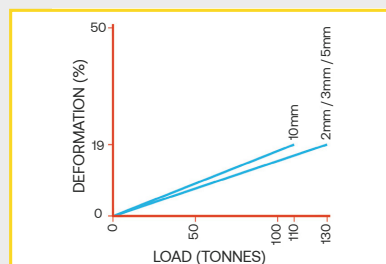


## Independent Tests

Compression tests have been carried out on 50mm and 100mm high stacks containing shims of different thicknesses.

A load of up to 200kN was applied and the compressive strength achieved for both 50mm and 100mm stacks were in excess of 40N/mm<sup>2</sup>. The compression tests were carried out at the HCC Highways Laboratory.

Please refer to these graphs for the finite analysis for the Stacker Packers.



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