technical data sheet

SHIMPAC® SYSTEMS

SHIMPAC® Systems Technical data

Uses: For original installations, remedial and maintenance purposes. SHIMPAC® System ROADSHIMS®, Planks, Collars and other special or bespoke products are designed for use in Civil Engineering, Highway, Ports, Airports, Railway, Utility, Services, Construction and similar applications to provide accurate and long term seating and leveling of external ironwork such as inspection covers, gullies, control boxes, valves and other items that need installing and locating accurately. *[see installtion guide for further information]*	
Density (average)	1300 Kg/m'
Compression strength Highways England - HA104/09 Ports & Airports - BS EN 124-1- Class F900 (compliant)	(min) 15 N/mm2 60 Kn/m2 (60 tonne rating - three layer configuration) 90 KN/m2 (90 tonne rating - three layer configuration)
Bending Strength	(min) 9 N/mm2
Tensile strength (parallel to surface) **Tensile strength** (perpendicular to surface)	 4.0 N/mm2 0.5 Nmm2
Modulus of Elasticity	4500 N/mm2
Dimensional Stability	0. 11% for an increase in relative humidity from 65% to 90% 0. 16% for an increase in relative humidity from 65% to saturation
Thickness Swelling (total immersion in water)	0.7% (average) Water vapour permeability 30/50 EN 13986
Moisture Content (ex production)	9% ± 3% by weight
Thickness tolerances Unsanded: Calibrated: 1 Calibrated: 2 Calibrated: 3 Length Width Squareness	 8 to 10mm ± 0.7mm 8 to 12mm ± 0.3mm 19 to 37mm ± 1.0mm 22 to 42mm ± 1.5mm ±5mm ±5mm -2.5mm on panel diagonal difference
Bonding Agent	Shims are odourless, since the bonding agent is free from formaldehyde
Surface Alkalinity	pH between 11 and 13
Thermal Conductivity Coefficient	0.26W/mk
Fire Rating	Tested to BS 476 Part 6.7 - classified as Class '0' building board with a Class 1 surface spread of flame. For further information see Fire Information

CE Declaration of Performance	Highways Authority Standard HA104/09 [Ch. 6&7) Ports & Airports Standard BS EN 124-1- Class F900 compliant Notified Testing Laboratory: Lucidion [ref:191257 (QT-54649/1/GMB)/Ref. 1]	DoP No: 1034- CPR- 2157/1/2014 Harmonised standard EN 13986:2004 Notified testing laboratories: HFB (1034-CPD-1383/1.4/2013); EMI (M-3036/2007);FCBA (No 0380)

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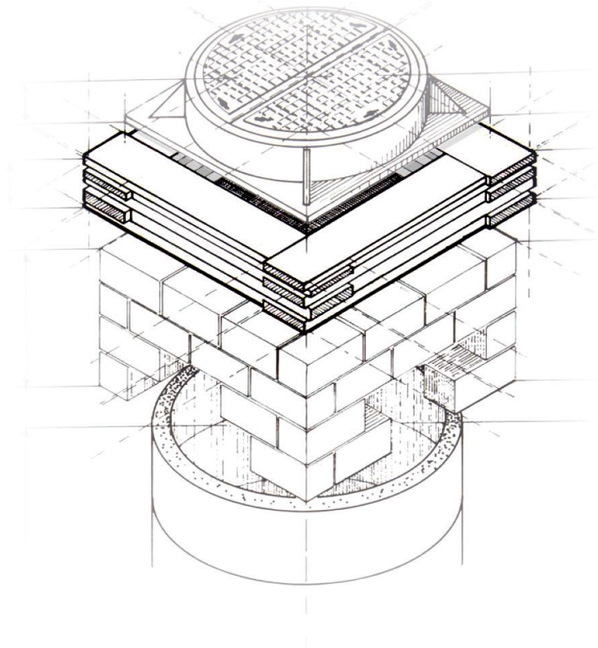
technical data sheet

SHIMPAC® SYSTEMS

Ironwork + SHIMPAC®



simple

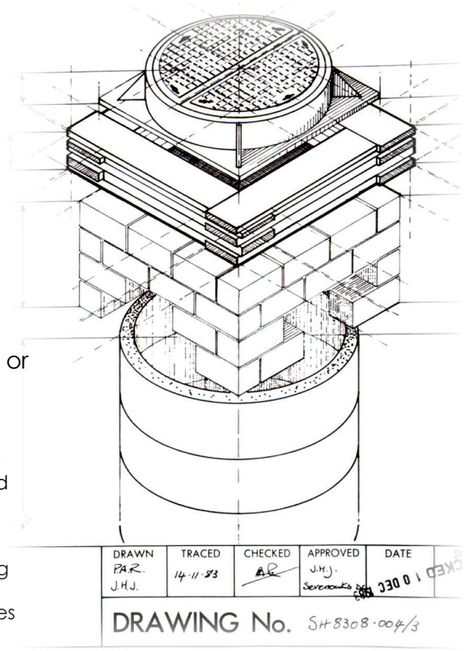
fast, effective,
ironwork seating and levelling

technical data sheet

SHIMPAC® Systems - ROADSHIM® PLANKS

the ironwork seating and levelling system

- Complies with Highways Authority Standard HA104/09 ch. 6&7
- Whole life solution
- 30 years with no recorded failures
- Cost effective and easy to use
- Virtually no remedial work
- Very high compression resistance
- Exceptional lateral strength and sheer resistance
- Unique ironwork levelling capability
- Recyclable
- Ideally suited for all ironwork
- Designed for concrete, plastic and brick chambers
- Can be used for new chambers, levelling and raising existing or reparir of broken and damaged chamber tops



The Industry Standard for fast, simple and cost effective ironwork seating and levelling; SHIMPAC® ROADSHIM® planks have a highly successful track record for seat street ironwork, communications equipment, inspection covers and many more similar applications.

SHIMPAC® ROADSHIM® planks, in conjunction with a high strength fast setting mortar, secure chamber tops and provide the strongest of platforms for ironwork, handling extreme weather conditions and heavy road use, it ensures that ironwork installations and repairs last years without further attention.

SHIMPAC® ROADSHIM® planks are quick and easy to install, can be adjusted to size on site without the need for specialist tools and are compatible with fast setting mortar. The product range comes in various thicknesses, allowing the contractor to build up the area beneath the frame to achieve the correct level. Designed specifically to secure the chamber top and provide a platform to bed and level any ironwork to exactly the right height and angle.

SHIMPAC® Systems ROADSHIM® planks are approved for use by Councils, Utility Companies, Highway and Transport Authorities and Civil Engineers.

SHIMPAC® Systems ROADSHIM® planks comply with requirements of the Highway Agency Specification HA104/09 ch.6&7.

Since the first installation of SHIMPAC® Systems ROADSHIM® planks in 1984 there have been no reported failures.

Highways Authority Standard
HA104/09 ch. 6&7

Ports & Airports Standard
BS EN 124-1- Class F900 compliant

European Standards
EN 634-1 & EN 634-2

CE

Declaration of Performance

Material Composition

SHIMPAC® System boards are generally light grey in colour with a smooth cementatious surface. SHIMPAC® planks, collars and bungs are a combination of compressed cement (70%), treated natural fibres (15%) and proprietary bonding materials. Cement is the predominant material by weight. Small quantities of chemicals are added to the wet mix, one of their purposes is to accelerate cement setting.

SHIMPAC® System products are intended for external use and have a very high level of performance in the presence of moisture.

SHIMPAC® System products comply with the general requirements as listed in EN634-1 together with the requirements set out in table 1 of this standard.

SHIMPAC® System products also conform to the European Standards EN 634-2. This standard specifies the requirements for particle boards bonded with Ordinary Portland Cement (O PC) for use in exterior, humid and/or dry conditions.

SHIMPAC® System products have the advantage of meeting increasingly stringent building regulations and demands for ever higher standards of durability, safety and economy.

SHIMPAC® System product contain no hazardous volatiles, are asbestos free and their process dust is non-aggressive.

SHIMPAC® System products may be sawn, planed, sanded, drilled, routed, nailed and screwed.

SHIMPAC® System products are durable, even when unprotected, and are able to withstand the destructive influences of weather, moisture, insects, vermin and fungi. SHIMPAC® is robust against impact, therefore the possibility of damage is reduced. The product will not build up static charges

SHIMPAC® System products will not rot - suitable for use as permanent shuttering

SHIMPAC® System products are compatible with mortar and can be installed using approved fast setting mortar

SHIMPAC® System products can be cut on site Cutting

- Tungsten tipped saw (where necessary)
- Stihl saw I disc cutter
- Planks up to 24mm thickness can be scored and snapped to length

SHIMPAC® System products Health and Safety information and COSHH data sheet is available on request.

For further Technical Specifications on page 3 of this data sheet

SHIMPAC® ROADSHIM® Systems:-
Planks and Chamber Collars

Standard Plank and Collar thicknesses

8mm
12mm
18mm
24mm
36mm

Standard Plank Sizes

875mm x 100mm
810mm x 100mm
690mm x 100mm
610mm x 100mm

Standard Chamber Collar Shapes