

PRODUCT TECHNICAL STATEMENT (PTS)

**Date of issue:** April 2013.

**Revision:** V 5.0 July 2023

**Product Description:** Silca System – Interlocking structural deck grates for elevated decks and patios.  
400 x 450 x 38 mm 100% Recycled, engineered polycarbonate grate.

**Manufacture:** Manufactured by Jakaar Industries Limited – 66 Cryers Rd, East Tamaki. ISO 9001 under advisement by Merx Pacific Limited.

**Material:** PC/ABS KB00-BK with UV Stabiliser

**Scope of use:** Silca System is fixed directly to the joists of a timber, aluminium or steel deck construction or over-membrane joist system. It provides a solid, flat, braced surface on which to lay tiles or paving.

It is suitable for use in all climate zones.

It is fixed direct to, centered on, each joist with x6 screws per unit and within accordance with the manufacture's installation guide and specifications.

Silca System can be used on structures within the scope of NZS 3604.

Ensure all deck substructure is in compliance with NZBC or site specific engineered as required.

**Limitations:** Polycarbonate (PCABS) with UV Stabiliser does have strong resilience to chemicals and acids, however as a precaution it is advised to not wash or store Silca System with *undiluted* strong acids and chemicals.

**Compliance with NZBC:**

**Structure – B1:** Silca System installed per manufacturers recommendations and technical specifications provides an acceptable level of structural integrity and meets the requirements NSBC Clause B1. Every run of product is tested to over 5 tonne deformation when spanned from edge to edge, under strict quality control procedures by an ISO 9001 manufacturing facility. It tests at over 68tonne compression test. QC Load test reports available upon request.

**Durability – B2:** Silca System installed per manufacturers recommendations and technical specifications provides an acceptable level of durability of the product and meets the requirements of NZBC Clause B2. It is manufactured from Polycarbonate (PCABS) with UV Stabiliser additive. It is manufactured under strict quality control procedures by an ISO 9001 accredited facility.

**Safety from falling – F4:** Silca System installed per manufacturers recommendations and technical specifications provides an acceptable surface to Clause F4.2 in conjunction with Clauses B1 and B2. Where deck height is over 1m suitable railing and/or fall protection is required per Clauses 4.3.1 – 4.3.5.

**Installation and Support:**

Silca System must be installed in accordance with the Silca System Manufacturers Recommendations and Installation Guide – and Technical specifications.

Available on the website [www.silcasystem.co.nz](http://www.silcasystem.co.nz) or email to [info@silcasystem.co.nz](mailto:info@silcasystem.co.nz).