

PRODUCT TECHNICAL STATEMENT (PTS)

**Date of issue:** April 2013.

**Revision:** V 5.1 May 2024

**Product Description:** Silca System interlocking, structural deck grates are specifically designed for the support of heavy finished surface materials over elevated deck structure.

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

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

**Scope of use:** Silca Grates connect together and are securely fastened directly to timber or aluminium deck joists using x6 screws per Grate. This provides a solid, flat, permeable surface on which to install various paving materials such as tiles, natural stone, heavy pavers, artificial turf or porcelain.

Silca System enables a free draining finished surface and air circulation beneath, preventing moisture buildup in the substructure and ensuring the longevity of the decking element. Suitable for standard elevated decks or those floating over a membrane. Silca System can be specified on structures within the scope of NZS 3604.

**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:** Installed per Silca System Design Statement Specifications and Install Guides, provides an acceptable level of structural integrity and complies with Clause B1/VM1 of AS/NZS1170.1. NZBC.

Floor Loading with timber joist ( 2kPa, 1.8kN ) to ( 4kPa, 4.5kN )  
(refer to Design Statement and span tables)

**Durability – B2:** Installed per Silca System Design Statement Specifications and Install Guides, provides an acceptable level of product durability and meets the requirements of Clause B2 of NZBC.

Silca System Grates and Connectors are manufactured from Polycarbonate (PCABS) with UV Stabiliser additive. It is manufactured under strict quality control procedures by an ISO 9001-accredited facility.

**Permeability – E2/AS1:** Silca System provides a suitable support structure on which to install tiles or pavers. Said tiles or pavers installed with a minimum 5mm gap surrounding, complies with E2/AS1 as a permeable surface allowing Level Entry through threshold.

**Resources and Support:**

Silca System must be installed in accordance with Silca System Technical Specifications, Statements and Install Guides. Available on the website for download: <https://silcasystem.co.nz/downloads/> or email to [info@silcasystem.co.nz](mailto:info@silcasystem.co.nz).

