The Product Technical Statement is a form of documentary evidence stating that the properties and performance of a building material, product or form of construction fulfill specific requirements from the National Construction Code (NCC) 2019. This Product Technical Statements describes the application and intended use of the construction material, how the building material complies with NCC Volume 1 and 2 and specifies any limitations of the building material in question.

Material, product or form of construction  Concrete block pavers

Issued by:  The Concrete Masonry Association of Australia (CMAA) representing the concrete masonry manufacturers of Australia.

Date of issue:  20/08/2019

PRODUCT DESCRIPTION

Product Type:  Type A, B or C

Colour:  Any

Material / Composition:  Concrete (sand, cement, aggregate) and any related additives.

Density:  2050 kg/m3 ± 550 kg/m3

Abrasion Resistance:  <7

Slip Resistance:  > P0 Grade

Other Descriptions: (optional):  See manufacturers for more details.

Unit specification comply in accordance with Australian Standards (AS) AS 4455.2 - “Masonry units, Pavers, Flags and Segmental Retaining Walls - Part 2: Pavers and Flags”.
Units are tested to methods listed in AS 4456 - “Masonry Units, Segmental Pavers and Flags – Methods of Test”.
All Pavers have strength properties in accordance with AS 4455.2 - Masonry units, Pavers, Flags and Segmental Retaining Walls - Part 2: Pavers and Flags”, minimum characteristic breaking load of 6kN ± 4 kN.

APPLICATION AND INTENDED USE

Applicable Range:  Residential, Commercial or Industrial use.

Suitable Traffic Purpose:  Pedestrian, light vehicle, normal traffic, heavy traffic, others

Suitable Basecourse:  Granular base OR Cement-stabilised base OR Reinforced concrete slab OR OTHER

Suitable Bedding:  Sand OR Adhesive OR Mortar OR OTHER

Bonding/ Joint Filling:  Sand OR Adhesive OR Mortar OR OTHER

For pedestrian traffic volume - Low: maximum abrasion index = 7, Medium: maximum abrasion index = 5.5, High: maximum abrasion index 3.5.
For vehicular traffic, loading as designed in accordance with Austroads’ Guide to Pavement Design part 2: Structural Design.
Suitable for all soil classifications, as reported in accordance with AS 2870 - “Residential Slabs and Footings”.

Warranty:  See Manufacturer’s document for more details.
COMPLIANCE WITH THE NATIONAL CONSTRUCTION CODE (A statement providing evidence to support compliance claims, such as technical standards and design guidance or other supporting information for the product.)

See manufacturer’s documents and engineering design specifications.

LIMITATIONS OF USE
See manufacturers’ specifications for more details.

CONDITIONS OF USE
Expert judgement shall be used to verify the design and planned construction methodology of the pavement structure where a performance solution is used.

INSTRUCTIONS FOR DESIGN, CONSTRUCTION OR INSTALLATION

TRAFFIC LOAD DESIGN
For structural units equivalent Standard Axle (ESA)/ Annual Average Daily Traffic (AADT) in accordance with Austroads’ Guide to Pavement Technology Volume 2: Structural Design. Refer to manufacturers specification.

DRAINAGE/ STORMWATER/ WATER-HARVESTING DESIGN NEED
See manufacturers’ specifications.

INSTALLATION GUIDANCE

OTHERS (If applicable)
Any

WORK HEALTH AND SAFETY CONCERN
Management of silica dust from concrete pavers cutting to be in accordance with CMAA’s Management of Silica Dust On Site Safety Factsheet. Additional guidance for constructing with concrete block pavers can be found in CMAA’s Health and Safety Factsheets.

MAINTENANCE INSTRUCTIONS
Refer to engineering specifications and manufacturer instructions. Guidance is also available through the Concrete Masonry Association of Australia’s Technical Manual, Factsheets and Guides.

SUPPORT

Additional Documents
Refer to the CMAA PA manual series. PA series are industry recognised and may be used with engineering judgement as performance solutions. CMAA manuals are not recognised as ACP within the NCC 2019.

Please contact The CMAA for any enquiries relating to this Product Technical Statement and its application.

DISCLAIMER: The information provided within this product Technical Statement is intended to encompass conventional Australian units, as evidence of their compliance with the NCC 2019. The manufacturers of the units must always be consulted to check that this Product Technical Statement reflects the unit that is intended on being used in the project. Design and or construction information is provided only to assist the use of the product in regards to relevant regulation, but each unit is not defaulted to be in compliance with certain design loads.

Warranty: See Manufacturer’s document for more details