# TECHNICAL SPECIFICATIONS
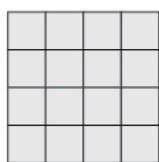
## MML TECHNICAL PORCELAIN, E ≤ 0.5% (B1A, ANNEX G)

| TECHNICAL FEATURES | STANDARDS | INTERNATIONAL STANDARDS | MML TYPICAL STANDARDS |
|---|---|---|---|
| **DIMENSIONAL CHARACTERISTIC** | | | |
| Length and width | ISO 10545-2/ EN 98 | ±0.60%<br>max±2.0mm | ±0.25%<br>max±2.0mm |
| Thickness | ISO 10545-2/ EN 98 | ±5.00%<br>max±0.5mm | ±5.00%<br>max±0.5mm |
| Straightness of sides | ISO 10545-2/ EN 98 | ±0.50%<br>max±1.5mm | ±0.25%<br>max±1.5mm |
| Rectangularity | ISO 10545-2/ EN 98 | ±0.50%<br>max±2.0mm | ±0.30%<br>max±2.0mm |
| Surface flatness | ISO 10545-2/ EN 98 | ±0.50%<br>max±2.0mm | ±0.25%<br>max±2.0mm |
| **CHEMICAL PROPERTIES** | | | |
| Resistance to household chemicals & swimming pool salts | ISO 10545-13/ EN 106 | min UB/GB | UB/GB |
| Resistance to staining | ISO 10545-14 | Test method available | Class 3 / NA |
| **PHYSICAL PROPERTIES** | | | |
| Water absorption | ISO 10545-3/ EN 99 | Group B1a, E≤0.5% | ≤0.12% |
| Breaking strength | ISO 10545-4/ EN 100 | min 1300 N | 1300 N |
| Modulus of rupture | ISO 10545-4/ EN 100 | min 35 N/mm² | ≥42 N/mm² |
| Resistance to deep abrasion | ISO 10545-6/ EN 102 | max 175mm³ | max 150mm³ |
| Slip resistance (wet pendulum method) | AS/NZS 4586, App A | Test method available | Depending on series |
| Slip resistance (ramp method) | AS/NZS 4586, App D | Test method available | Depending on series / NA |

*NA - Not Applicable

Note: The above generic standards on MML Technical Porcelain serves as a general guideline only. Different types of tiles are made to meet different performance requirements. For legal compliance or for specific product technical performance please request a confirmation or report from MMSB Sales & Marketing team or agent.
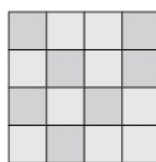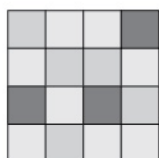
# SHADE VARIATION



**V1 UNIFORM APPEARANCE**
Differences among pieces from the same production run are minimal.
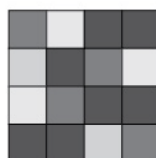


**V2 SLIGHT VARIATION**
Clearly distinguishable texture and/or patterns within the same colour code.



**V3 MODERATE VARIATION**
While the colours present on a single piece of tile will be indicative of the colours to be expected on other tiles, the intensity of colours on each piece may vary significantly.



**V4 SUBSTANTIAL VARIATION**
Random shades. The tiles within the same colour code may have totally different colours and shades compared to each other. Thus, the final installation will be unique.