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|--|---|---|--|---|--|
| DESIGN QUALIFYING REPORT   |   |   |  |   |  |
| DIGITAL PRINTING ARENARIA-MATT COLLECTION  |   |   |  |   |  |
| Size   | Code  | Finish  | Name   |   |  |
| 600X600  | RC.RSS.000232.MA.05   | Matt  | Arenaria - Bone  |   |  |
| FEATURES   |   |   |  |   |  |
| DIMENSION & SURFACE QUALITY  |   |   |  |   |  |
|  |   | Description of the Test   | Test Method  | International Specification   | Royal Ceramics Value                                 |
| 1  |    | Length & Width (Average)  | ISO 10545.2  | Set by Manufacturer   | R(600X600mm)   |
|  |   | Deviation in Length & Width   | ISO 10545.2  | ± 0.3 %   | ±0.2mm   |
| 2  |    | Thickness (Average)   | ISO 10545.2  | Set by Manufacturer   | 9.0mm  |
|  |   | Deviation in Thickness  | ISO 10545.2  | ± 5 %   | ±0.3mm   |
| 3  |    | Straightness of Sides   | ISO 10545.2  | ± 0.5 % (Max 2 mm)  | ±0.8mm   |
| 4  |    | Rectangularity  | ISO 10545.2  | ± 0.6 % (Max 4 mm)  | ±1.5mm   |
| 5  |    | Surface Flatness  | ISO 10545.2  | ± 1.8 mm(Max)   | ±1.6mm   |
| 6  |    | Surface Quality   | ISO 10545.2  | Min 95 %  | More than 95% of tiles are free from visible defects |
| PHYSICAL PROPERTIES  |   |   |  |   |  |
| 7  |    | Water Absorption by mass (Average)  | ISO 10545.3  | < 0.5 %   | Maximum < 0.5 %                                      |
| 8  |    | Modulus of Rupture  | ISO 10545.4  | > 35 N/mm2  | Minimum > 35 N/mm2                                   |
| 9  |   | Abrasion Resistance (Maximum)-Deep Abrasion   | ISO 10545.6  | Maximum 175mm3  | Maximum < 165mm3                                     |
| 10   |  | Moh's Scale Hardness  | EN 101   | Set by Manufacture  | 6  |
| 11   |  | Slipperiness  | ISO 10545.17   | Set by Manufacture  | R=10(PTV=35 Average)                                 |
| 12   |  | Colour Resistance to light  | ISO 10545.16   | Resistant   | Resistant  |
| THERMAL PROPERTIES   |   |   |  |   |  |
| 13   |  | Thermal Expansion   | ISO 10545.8  | < 90.0 X 10 <sup>-7</sup> °C-1  | < 65.0 X10 <sup>-7</sup> °C-1                        |
| 14   |  | Moisture Expansion  | ISO 10545.10   | Nil   | N/D  |
| 15   |  | Resistance to Thermal Shock   | ISO 10545.9  | Min 10 Cycle  | Resistant  |
| 16   |  | Resistance to Crazing   | ISO 10545.11   | Min 4 Cycle   | Resistant  |
| 17   |  | Frost Resistance  | ISO 10545.12   | Resistant   | Resistant  |
| CHEMICAL PROPERTIES  |   |   |  |   |  |
| 18   |  | Chemical Resistance   | ISO 10545.13   | Resistant   | Resistant  |
| 19   |  | Resistance to Stains  | ISO 10545.14   | Min Class III   | Class V  |
| RANDOMNESS & DISPLAY OF TILES  |   |   |  |   |  |
| 20   |  | Display of Tiles  | At least 4 tiles should be properly displayed to express random effect |   |  |
| APPLICATIONS   |   |   |  |   |  |
| Product is glazed vitrified porcelain with <b>medium scratch hardness</b> . It is recommended to apply in <b>medium traffic areas</b> . Cleaning and maintenance can be done with fresh water and household chemicals. |   |   |  |   |  |
| Certifications of Conformity   |   |   |  |   |  |
| <br>ISO 9001, ISO 13006, ISO 14001, ISO 45001   |   |  |  |    |  |
|  |   |   |  |  |  |
| Prepared by:   | Eng.Production  | Date:   | 10/9/2023  |   |  |
| Revision No.   | Manager - QA and R & D  | Date of Revision:   | 10/9/2023  |   |  |