

## TECHNICAL SPECIFICATION OF RAPHAEL SLAB VITRIFIED TILE

| TEST DISCRIPTION            | STANDARD AS PER ISO-13006/EN14411 GROUP BIA | MEAN VALUE OF RAPHAEL SLAB PGVT | MEAN VALUE OF RAPHAEL SLAB GVT |
|-----------------------------|---|---------------------------------|--------------------------------|
| Deviation in lenght & width | ±0.5 %                                      | ±0.1 %                          | ±0.1 %                         |
| Deviation in thickness      | ±5.0 %                                      | ±4.0 %                          | ±4.0 %                         |
| Straightness in side        | ±0.5 %                                      | ±0.1 %                          | ±0.1 %                         |
| Rectangularity              | ±0.5 %                                      | ±0.1 %                          | ±0.1 %                         |
| Surface flatness            | ±0.5 %                                      | ±0.2 %                          | ±0.2 %                         |
| Color Difference            | Unaltered                                   | No change                       | No change                      |
| Glossiness                  | As per mfg.                                 | Min. 90%                        | Min. 90%                       |
| Water absorption            | ≤0.50 %                                     | ≤0.05 % (±0.02 %)               | ≤0.05 % (±0.02 %)              |
| Apparent density            | >2.0 g/cc                                   | >2.10 g/cc                      | >2.10 g/cc                     |
| Modulus of rupture          | Min. 35 N/mm <sup>2</sup>                   | Min. 40 N/mm <sup>2</sup>       | Min. 40 N/mm <sup>2</sup>      |
| Breaking strenght           | Min. 1300 N                                 | Min. 3000 N                     | Min. 3000 N                    |
| Impact resistance           | As per mfg.                                 | Min. 0.55                       | Min. 0.55                      |
| Surface abrasion resistance | As per mfg.                                 | Min. Class-3                    | Min. Class-3                   |
| MOH's hardness              | As per mfg.                                 | Min. 4                          | Min. 5                         |
| Frost resistance            | No damage                                   | No damage                       | No damage                      |
| Thermal shock resistance    | No damage                                   | No Damage                       | No Damage                      |
| Moisture expansion          | Nil   | Nil                             | Nil                            |
| Thermal Expansion (COE)     | Max 9.0 x 10 <sup>-6</sup>                  | Max. 6.5 x 10 <sup>-6</sup>     | Max. 6.5 x 10 <sup>-6</sup>    |
| Chemical Resistance         | No damage                                   | No damage                       | No damage                      |
| Stain resistance            | Resistance                                  | Resistant                       | Resistant                      |
| Slip resistance             | As per mfg.                                 | >0.40                           | >0.40                          |