

**Range Name:**  
Royal Theatre Terrazzo

**Ref:** P+E--TDS-01  
*Technical specification of full body porcelain wall and floor tiles  
manufactured in accordance with the EN 14411 standard, Bla group.*

|                                            | Testing To Standard | Average Typical Values | Result                                        |
|--------------------------------------------|---------------------|------------------------|-----------------------------------------------|
| Physical Properties                        |                     |                        |                                               |
| Group                                      |                     |                        | Bla                                           |
| Values According To                        |                     |                        | UNE-EN 14411 / SASO ISO 13006:2018            |
| Material                                   |                     |                        | Full Body Porcelain                           |
| Colours                                    |                     |                        | White, Smoke, Cinnamon, Light Grey, Dark Grey |
| Finish                                     |                     |                        | Matt                                          |
| Size Formats (mm)                          |                     |                        | 300 x 600                                     |
| Thickness (mm)                             |                     |                        | 9.5                                           |
| Rectified                                  |                     |                        | Yes                                           |
| Shade Variation                            |                     |                        | V2                                            |
| Technical Properties                       |                     |                        |                                               |
| Dimensions and Surface Quality             |                     |                        |                                               |
| Dimensions and Surface Aspect              | UNE-EN-ISO 10545-2  |                        | Complies                                      |
| Water Absorption                           | UNE-EN-ISO 10545-3  |                        | ≤ 0.5%                                        |
| Breaking Strength                          | UNE-EN-ISO 10545-4  |                        | 1600-2400 N                                   |
| Flexural Strength                          | UNE-EN-ISO 10545-4  |                        | 35-45 N/mm²                                   |
| Deep Surface Abrasion                      | UNE-EN-ISO 10545-6  |                        | N/a                                           |
| Surface Abrasion                           | UNE-EN-ISO 10545-7  |                        | N/a                                           |
| Linear Thermal Expansion                   | UNE-EN-ISO 10545-8  |                        | <7.0 x 10-6 °C-1                              |
| Resistance to Thermal Shock                | UNE-EN-ISO 10545-9  |                        | Resists                                       |
| Cracking Resistance                        | UNE-EN-ISO 10545-11 |                        | Resists                                       |
| Frost Resistance                           | UNE-EN-ISO 10545-12 |                        | Resists                                       |
| Chemical Resistance Properties             |                     |                        |                                               |
| Ammonium Chloride 100 g/l                  | UNE-EN-ISO 10545-13 |                        | A                                             |
| Sodium Hypochlorite 20 mg/l                | UNE-EN-ISO 10545-13 |                        | A                                             |
| Hydrochloric Acid 3%                       | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Citric Acid 100 G/L                        | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Potassium Hydroxide 30 G/L                 | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Stain Resistance Properties                |                     |                        |                                               |
| Green Oxide In Light Oil                   | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Alcoholic Solution Of Iodine               | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Olive Oil                                  | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Slip Resistance Properties                 |                     |                        |                                               |
| Slip Resistance (Pendulum)                 | UNE-41901:2017 EX   |                        | Class 1                                       |
| Critical Angle of Slip (Inclined Platform) | DIN 51130           |                        | -                                             |
| Critical Angle of Slip (Wet Barefoot)      | DIN 51097           |                        | -                                             |
| Pendulum (Dry)                             | BS 7976             |                        | -                                             |
| Pendulum (Wet)                             | BS 7976             |                        | -                                             |
| Coefficient of Friction                    | ANSI A326.3         |                        | -                                             |

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manufactured in accordance with the EN 14411 standard, Bla group.*

|                                            | Testing To Standard | Average Typical Values | Result                                        |
|--------------------------------------------|---------------------|------------------------|-----------------------------------------------|
| Physical Properties                        |                     |                        |                                               |
| Group                                      |                     |                        | Bla                                           |
| Values According To                        |                     |                        | UNE-EN 14411 / SASO ISO 13006:2018            |
| Material                                   |                     |                        | Full Body Porcelain                           |
| Colours                                    |                     |                        | White, Smoke, Cinnamon, Light Grey, Dark Grey |
| Finish                                     |                     |                        | Matt                                          |
| Size Formats (mm)                          |                     |                        | 600 x 600                                     |
| Thickness (mm)                             |                     |                        | 9.5                                           |
| Rectified                                  |                     |                        | Yes                                           |
| Shade Variation                            |                     |                        | V2                                            |
| Technical Properties                       |                     |                        |                                               |
| Dimensions and Surface Quality             |                     |                        |                                               |
| Dimensions and Surface Aspect              | UNE-EN-ISO 10545-2  |                        | Complies                                      |
| Water Absorption                           | UNE-EN-ISO 10545-3  |                        | ≤ 0.5%                                        |
| Breaking Strength                          | UNE-EN-ISO 10545-4  |                        | 1600-2400 N                                   |
| Flexural Strength                          | UNE-EN-ISO 10545-4  |                        | 35-45 N/mm²                                   |
| Deep Surface Abrasion                      | UNE-EN-ISO 10545-6  |                        | N/a                                           |
| Surface Abrasion                           | UNE-EN-ISO 10545-7  |                        | N/a                                           |
| Linear Thermal Expansion                   | UNE-EN-ISO 10545-8  |                        | <7.0 x 10-6 °C-1                              |
| Resistance to Thermal Shock                | UNE-EN-ISO 10545-9  |                        | Resists                                       |
| Cracking Resistance                        | UNE-EN-ISO 10545-11 |                        | Resists                                       |
| Frost Resistance                           | UNE-EN-ISO 10545-12 |                        | Resists                                       |
| Chemical Resistance Properties             |                     |                        |                                               |
| Ammonium Chloride 100 g/l                  | UNE-EN-ISO 10545-13 |                        | A                                             |
| Sodium Hypochlorite 20 mg/l                | UNE-EN-ISO 10545-13 |                        | A                                             |
| Hydrochloric Acid 3%                       | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Citric Acid 100 G/L                        | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Potassium Hydroxide 30 G/L                 | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Stain Resistance Properties                |                     |                        |                                               |
| Green Oxide In Light Oil                   | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Alcoholic Solution Of Iodine               | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Olive Oil                                  | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Slip Resistance Properties                 |                     |                        |                                               |
| Slip Resistance (Pendulum)                 | UNE-41901:2017 EX   |                        | Class 1                                       |
| Critical Angle of Slip (Inclined Platform) | DIN 51130           |                        | -                                             |
| Critical Angle of Slip (Wet Barefoot)      | DIN 51097           |                        | -                                             |
| Pendulum (Dry)                             | BS 7976             |                        | -                                             |
| Pendulum (Wet)                             | BS 7976             |                        | -                                             |
| Coefficient of Friction                    | ANSI A326.3         |                        | -                                             |

**Range Name:**  
Royal Theatre Terrazzo

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|                                            | Testing To Standard | Average Typical Values | Result                                        |
|--------------------------------------------|---------------------|------------------------|-----------------------------------------------|
| <b>Physical Properties</b>                 |                     |                        |                                               |
| Group                                      |                     |                        | Bla                                           |
| Values According To                        |                     |                        | UNE-EN 14411 / SASO ISO 13006:2018            |
| Material                                   |                     |                        | Full Body Porcelain                           |
| Colours                                    |                     |                        | White, Smoke, Cinnamon, Light Grey, Dark Grey |
| Finish                                     |                     |                        | Matt                                          |
| Size Formats (mm)                          |                     |                        | 600 x 1200                                    |
| Thickness (mm)                             |                     |                        | 10.5                                          |
| Rectified                                  |                     |                        | Yes                                           |
| Shade Variation                            |                     |                        | V2                                            |
| <b>Technical Properties</b>                |                     |                        |                                               |
| <b>Dimensions and Surface Quality</b>      |                     |                        |                                               |
| Dimensions and Surface Aspect              | UNE-EN-ISO 10545-2  |                        | Complies                                      |
| Water Absorption                           | UNE-EN-ISO 10545-3  |                        | ≤ 0.5%                                        |
| Breaking Strength                          | UNE-EN-ISO 10545-4  |                        | 1600-2400 N                                   |
| Flexural Strength                          | UNE-EN-ISO 10545-4  |                        | 35-45 N/mm²                                   |
| Deep Surface Abrasion                      | UNE-EN-ISO 10545-6  |                        | N/a                                           |
| Surface Abrasion                           | UNE-EN-ISO 10545-7  |                        | N/a                                           |
| Linear Thermal Expansion                   | UNE-EN-ISO 10545-8  |                        | <7.0 x 10-6 °C-1                              |
| Resistance to Thermal Shock                | UNE-EN-ISO 10545-9  |                        | Resists                                       |
| Cracking Resistance                        | UNE-EN-ISO 10545-11 |                        | Resists                                       |
| Frost Resistance                           | UNE-EN-ISO 10545-12 |                        | Resists                                       |
| <b>Chemical Resistance Properties</b>      |                     |                        |                                               |
| Ammonium Chloride 100 g/l                  | UNE-EN-ISO 10545-13 |                        | A                                             |
| Sodium Hypochlorite 20 mg/l                | UNE-EN-ISO 10545-13 |                        | A                                             |
| Hydrochloric Acid 3%                       | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Citric Acid 100 G/L                        | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Potassium Hydroxide 30 G/L                 | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| <b>Stain Resistance Properties</b>         |                     |                        |                                               |
| Green Oxide In Light Oil                   | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Alcoholic Solution Of Iodine               | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Olive Oil                                  | UNE-EN-ISO 10545-14 |                        | 5                                             |
| <b>Slip Resistance Properties</b>          |                     |                        |                                               |
| Slip Resistance (Pendulum)                 | UNE-41901:2017 EX   |                        | Class 1                                       |
| Critical Angle of Slip (Inclined Platform) | DIN 51130           |                        | -                                             |
| Critical Angle of Slip (Wet Barefoot)      | DIN 51097           |                        | -                                             |
| Pendulum (Dry)                             | BS 7976             |                        | -                                             |
| Pendulum (Wet)                             | BS 7976             |                        | -                                             |
| Coefficient of Friction                    | ANSI A326.3         |                        | -                                             |

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|                                            | Testing To Standard | Average Typical Values | Result                                        |
|--------------------------------------------|---------------------|------------------------|-----------------------------------------------|
| Physical Properties                        |                     |                        |                                               |
| Group                                      |                     |                        | Bla                                           |
| Values According To                        |                     |                        | UNE-EN 14411 / SASO ISO 13006:2018            |
| Material                                   |                     |                        | Full Body Porcelain                           |
| Colours                                    |                     |                        | White, Smoke, Cinnamon, Light Grey, Dark Grey |
| Finish                                     |                     |                        | Matt                                          |
| Size Formats (mm)                          |                     |                        | 750 x 1500                                    |
| Thickness (mm)                             |                     |                        | 10.5                                          |
| Rectified                                  |                     |                        | Yes                                           |
| Shade Variation                            |                     |                        | V2                                            |
| Technical Properties                       |                     |                        |                                               |
| Dimensions and Surface Quality             |                     |                        |                                               |
| Dimensions and Surface Aspect              | UNE-EN-ISO 10545-2  |                        | Complies                                      |
| Water Absorption                           | UNE-EN-ISO 10545-3  |                        | ≤ 0.5%                                        |
| Breaking Strength                          | UNE-EN-ISO 10545-4  |                        | 1600-2400 N                                   |
| Flexural Strength                          | UNE-EN-ISO 10545-4  |                        | 35-45 N/mm²                                   |
| Deep Surface Abrasion                      | UNE-EN-ISO 10545-6  |                        | N/a                                           |
| Surface Abrasion                           | UNE-EN-ISO 10545-7  |                        | N/a                                           |
| Linear Thermal Expansion                   | UNE-EN-ISO 10545-8  |                        | <7.0 x 10-6 °C-1                              |
| Resistance to Thermal Shock                | UNE-EN-ISO 10545-9  |                        | Resists                                       |
| Cracking Resistance                        | UNE-EN-ISO 10545-11 |                        | Resists                                       |
| Frost Resistance                           | UNE-EN-ISO 10545-12 |                        | Resists                                       |
| Chemical Resistance Properties             |                     |                        |                                               |
| Ammonium Chloride 100 g/l                  | UNE-EN-ISO 10545-13 |                        | A                                             |
| Sodium Hypochlorite 20 mg/l                | UNE-EN-ISO 10545-13 |                        | A                                             |
| Hydrochloric Acid 3%                       | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Citric Acid 100 G/L                        | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Potassium Hydroxide 30 G/L                 | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Stain Resistance Properties                |                     |                        |                                               |
| Green Oxide In Light Oil                   | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Alcoholic Solution Of Iodine               | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Olive Oil                                  | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Slip Resistance Properties                 |                     |                        |                                               |
| Slip Resistance (Pendulum)                 | UNE-41901:2017 EX   |                        | Class 1                                       |
| Critical Angle of Slip (Inclined Platform) | DIN 51130           |                        | -                                             |
| Critical Angle of Slip (Wet Barefoot)      | DIN 51097           |                        | -                                             |
| Pendulum (Dry)                             | BS 7976             |                        | -                                             |
| Pendulum (Wet)                             | BS 7976             |                        | -                                             |
| Coefficient of Friction                    | ANSI A326.3         |                        | -                                             |

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|                                            | Testing To Standard | Average Typical Values | Result                                        |
|--------------------------------------------|---------------------|------------------------|-----------------------------------------------|
| Physical Properties                        |                     |                        |                                               |
| Group                                      |                     |                        | Bla                                           |
| Values According To                        |                     |                        | UNE-EN 14411 / SASO ISO 13006:2018            |
| Material                                   |                     |                        | Full Body Porcelain                           |
| Colours                                    |                     |                        | White, Smoke, Cinnamon, Light Grey, Dark Grey |
| Finish                                     |                     |                        | Matt                                          |
| Size Formats (mm)                          |                     |                        | 900 x 900                                     |
| Thickness (mm)                             |                     |                        | 10.5                                          |
| Rectified                                  |                     |                        | Yes                                           |
| Shade Variation                            |                     |                        | V2                                            |
| Technical Properties                       |                     |                        |                                               |
| Dimensions and Surface Quality             |                     |                        |                                               |
| Dimensions and Surface Aspect              | UNE-EN-ISO 10545-2  |                        | Complies                                      |
| Water Absorption                           | UNE-EN-ISO 10545-3  |                        | ≤ 0.5%                                        |
| Breaking Strength                          | UNE-EN-ISO 10545-4  |                        | 1600-2400 N                                   |
| Flexural Strength                          | UNE-EN-ISO 10545-4  |                        | 35-45 N/mm²                                   |
| Deep Surface Abrasion                      | UNE-EN-ISO 10545-6  |                        | N/a                                           |
| Surface Abrasion                           | UNE-EN-ISO 10545-7  |                        | N/a                                           |
| Linear Thermal Expansion                   | UNE-EN-ISO 10545-8  |                        | <7.0 x 10-6 °C-1                              |
| Resistance to Thermal Shock                | UNE-EN-ISO 10545-9  |                        | Resists                                       |
| Cracking Resistance                        | UNE-EN-ISO 10545-11 |                        | Resists                                       |
| Frost Resistance                           | UNE-EN-ISO 10545-12 |                        | Resists                                       |
| Chemical Resistance Properties             |                     |                        |                                               |
| Ammonium Chloride 100 g/l                  | UNE-EN-ISO 10545-13 |                        | A                                             |
| Sodium Hypochlorite 20 mg/l                | UNE-EN-ISO 10545-13 |                        | A                                             |
| Hydrochloric Acid 3%                       | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Citric Acid 100 G/L                        | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Potassium Hydroxide 30 G/L                 | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Stain Resistance Properties                |                     |                        |                                               |
| Green Oxide In Light Oil                   | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Alcoholic Solution Of Iodine               | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Olive Oil                                  | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Slip Resistance Properties                 |                     |                        |                                               |
| Slip Resistance (Pendulum)                 | UNE-41901:2017 EX   |                        | Class 1                                       |
| Critical Angle of Slip (Inclined Platform) | DIN 51130           |                        | -                                             |
| Critical Angle of Slip (Wet Barefoot)      | DIN 51097           |                        | -                                             |
| Pendulum (Dry)                             | BS 7976             |                        | -                                             |
| Pendulum (Wet)                             | BS 7976             |                        | -                                             |
| Coefficient of Friction                    | ANSI A326.3         |                        | -                                             |

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Royal Theatre Terrazzo

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manufactured in accordance with the EN 14411 standard, Bla group.*

|                                            | Testing To Standard | Average Typical Values | Result                                        |
|--------------------------------------------|---------------------|------------------------|-----------------------------------------------|
| Physical Properties                        |                     |                        |                                               |
| Group                                      |                     |                        | Bla                                           |
| Values According To                        |                     |                        | UNE-EN 14411 / SASO ISO 13006:2018            |
| Material                                   |                     |                        | Full Body Porcelain                           |
| Colours                                    |                     |                        | White, Smoke, Cinnamon, Light Grey, Dark Grey |
| Finish                                     |                     |                        | Matt                                          |
| Size Formats (mm)                          |                     |                        | 1200 x 1200                                   |
| Thickness (mm)                             |                     |                        | 10.7                                          |
| Rectified                                  |                     |                        | Yes                                           |
| Shade Variation                            |                     |                        | V2                                            |
| Technical Properties                       |                     |                        |                                               |
| Dimensions and Surface Quality             |                     |                        |                                               |
| Dimensions and Surface Aspect              | UNE-EN-ISO 10545-2  |                        | Complies                                      |
| Water Absorption                           | UNE-EN-ISO 10545-3  |                        | ≤ 0.5%                                        |
| Breaking Strength                          | UNE-EN-ISO 10545-4  |                        | 1600-2400 N                                   |
| Flexural Strength                          | UNE-EN-ISO 10545-4  |                        | 35-45 N/mm²                                   |
| Deep Surface Abrasion                      | UNE-EN-ISO 10545-6  |                        | N/a                                           |
| Surface Abrasion                           | UNE-EN-ISO 10545-7  |                        | N/a                                           |
| Linear Thermal Expansion                   | UNE-EN-ISO 10545-8  |                        | <7.0 x 10-6 °C-1                              |
| Resistance to Thermal Shock                | UNE-EN-ISO 10545-9  |                        | Resists                                       |
| Cracking Resistance                        | UNE-EN-ISO 10545-11 |                        | Resists                                       |
| Frost Resistance                           | UNE-EN-ISO 10545-12 |                        | Resists                                       |
| Chemical Resistance Properties             |                     |                        |                                               |
| Ammonium Chloride 100 g/l                  | UNE-EN-ISO 10545-13 |                        | A                                             |
| Sodium Hypochlorite 20 mg/l                | UNE-EN-ISO 10545-13 |                        | A                                             |
| Hydrochloric Acid 3%                       | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Citric Acid 100 G/L                        | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Potassium Hydroxide 30 G/L                 | UNE-EN-ISO 10545-13 |                        | Complies                                      |
| Stain Resistance Properties                |                     |                        |                                               |
| Green Oxide In Light Oil                   | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Alcoholic Solution Of Iodine               | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Olive Oil                                  | UNE-EN-ISO 10545-14 |                        | 5                                             |
| Slip Resistance Properties                 |                     |                        |                                               |
| Slip Resistance (Pendulum)                 | UNE-41901:2017 EX   |                        | Class 1                                       |
| Critical Angle of Slip (Inclined Platform) | DIN 51130           |                        | -                                             |
| Critical Angle of Slip (Wet Barefoot)      | DIN 51097           |                        | -                                             |
| Pendulum (Dry)                             | BS 7976             |                        | -                                             |
| Pendulum (Wet)                             | BS 7976             |                        | -                                             |
| Coefficient of Friction                    | ANSI A326.3         |                        | -                                             |

