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QUALITY CERTIFICATE / CERTIFICADO DE CALIDAD

SIZES AND SURFACE QUALITY CARACTERÍSTICAS TÉCNICAS DE LAS BALDOSAS

PHOTOGRAPHY FOTOGRAFIA:

| | |
|--------------------------------|------------------|
| Series Serie | ATENEA |
| Finishing of the piece Acabado | |
| Colour Color | BEIGE |
| Nominal Size Medida Nominal | 60 x 60 |
| Work Size Medida Fabricación | 600 x 600 |
| Norme Norma EN 14.411 | |
| Name Denominación | GRES PORCELANICO |



| Required/Requisito | Tolerance/ Tolerancia |
|--------------------|-----------------------|
|--------------------|-----------------------|

SIZES AND SURFACE QUALITY DIMENSIONES Y ASPECTO SUPERFICIAL

| Property | Standard | Part | Unit | Value | Result |
|--|-------------------|---------|------|---------------|-----------------------------|
| Length and width Longitud y anchura | UNE-EN-ISO 10.545 | Parte 2 | % | 0,5% : -0,3 % | Passes Standard Test Cumple |
| Thickness Espesor | UNE-EN-ISO 10.545 | Parte 2 | % | ± 0,10 | Passes Standard Test Cumple |
| Measurement of Side Straightness Rectitud de los lados | UNE-EN-ISO 10.545 | Parte 2 | % | ± 0,3 | Passes Standard Test Cumple |
| Squareness Ortogonalidad | UNE-EN-ISO 10.545 | Parte 2 | % | ± 0,5 | Passes Standard Test Cumple |
| Surface flatness Planitud de la superficie | UNE-EN-ISO 10.545 | Parte 2 | % | 0,5% : -0,3 % | Passes Standard Test Cumple |
| Central curvature Curvatura central | | | % | 0,5% : -0,3 % | Passes Standard Test Cumple |
| Edge curvature Curvatura lateral | | | % | 0,5% : -0,3 % | Passes Standard Test Cumple |
| Warpage Alabeo | | | % | 0,5% : -0,3 % | Passes Standard Test Cumple |
| Surface Quality Aspecto superficial | | | % | 95 | Passes Standard Test Cumple |

PHYSICAL PROPERTIES DIMENSIONES Y ASPECTO SUPERFICIAL

| | | | | | |
|--|-------------------|----------|-------------------|-------------------------|-----------------------------|
| Water Absorption Absorción de agua | UNE-EN-ISO 10.545 | Parte 3 | % | 0,5% < E ≤ 3% | 0,5% < E ≤ 3% |
| Breaking strength (N) Fuerza de rotura (N) | UNE-EN-ISO 10.545 | Parte 4 | N | > 1100 N | 1800 - 2400 N |
| Bending Strengt (N/mm ²) Resistencia a la flexión (N/mm ²) | UNE-EN-ISO 10.545 | Parte 4 | N/mm ² | > 30 N/mm ² | > 35 N/mm ² |
| Impact resistance Resistencia al impacto | UNE-EN-ISO 10.545 | Parte 5 | | No required No exigida | (-) |
| Resistance to abrasion Resistencia a la abrasión | | | | No required No exigida | (-) |
| Deep Abrasion (UGL: Unglazed) Abrasión profunda (UGL: No esmaltadas) | UNE-EN-ISO 10.545 | Parte 6 | mm ³ | No required No exigida | (-) |
| Surface abrasion (GL: Glazed) Abrasión superficial (GL: Esmaltadas) | UNE-EN-ISO 10.545 | Parte 7 | PEI / N° rev | No required No exigida | PEI 3 |
| Coefficient of thermal linear expansion Coeficiente de dilatación térmica lineal | UNE-EN-ISO 10.545 | Parte 8 | ° c ⁻¹ | No required No exigida | < 7 X 10 ⁻⁶ C |
| Critical angle of slip (pendulum) Resistencia al deslizamiento (péndulo) | UNE-EN-ISO 10.545 | Parte 9 | | No required No exigida | (-) |
| Resistance to thermal shock Resistencia al choque termico | UNE-EN-ISO 10.545 | Parte 10 | mm/m | No required No exigida | < 0,1 mm / m |
| Expansion for dampness Dilatación por expansión | UNE-EN-ISO 10.545 | Parte 11 | | No required No exigida | (-) |
| Crazing resistance (GL: Glazed) Resistencia al cuarteo (GL: Esmaltadas) | UNE-EN-ISO 10.545 | Parte 12 | | Required Exigida | Passes Standard Test Cumple |
| Frost Resistance Resistencia a la helada | UNE-EN-ISO 10.545 | Parte 16 | | Not Required No Exigida | No Resistent No Resiste |
| Small differences of colour (GL: Glazed) Pequeñas diferencias de color (GL:Esmaltadas) | UNE-EN-ISO 10.545 | Parte 16 | | Not Required No Exigida | (-) |
| Slip Resistance Deslizamiento: | | | | | |
| Slipperiness (Tortus) Coeficiente de fricción (Tortus) | UNE-EN-ISO 10.545 | Parte 17 | | (-) | (-) |
| Tilting Pendulo | ENV 12.633 | | | (-) | (-) |
| Slipway (boots) Rampa botas | DIN 51.130 | | | (-) | (-) |
| Slipway (Barefeet) Rampa (pies descalzos) | DIN 51.130 | | | (-) | (-) |
| Scratch resistance(Mohs) Resistencia al rayado (Mohs) | EN 101 | | | (-) | ≥ |

CHEMICAL PROPERTIES PROPIEDADES QUIMICAS

| | | | | | |
|---|-------------------|----------|--|-------------------------|-----|
| Chemical resistance Resistencia a productos químicos: | | | | | |
| Resistance to low concentrations of acids and alkalis Resistencia a ácidos y álcalis de baja concentración | UNE-EN-ISO 10.545 | Parte 13 | | Not required No exigida | GA |
| Resistance to high concentrations of acids and alkalis Resistencia a ácidos y álcalis de alta concentración | | | | Not required No exigida | GA |
| Resistance to household chemicals ans swimming pool salt Resistencia a productos domésticos y sales para piscinas | | | | Min GB | GA |
| Resistance to staining Resistencia a las manchas | UNE-EN-ISO 10.545 | Parte 14 | | > 3 | 5 |
| Emission of lead and cadmium Emisión de plomo y cadmio | UNE-EN-ISO 10.545 | Parte 15 | | Not required No exigida | (-) |

SAFETY SEGURIDAD

| | | | |
|--|---|-----|----|
| Euroclass. Fire resistance Euroclase. Resistencia al fuego | Decision 96/603/CE Modified Decisión 96/603/CE Modificada | (-) | A1 |
|--|---|-----|----|