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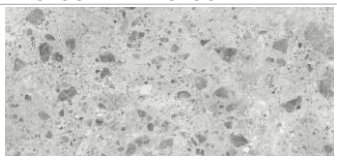
ITT CERAMIC — INNOVATING TRENDING TILES

SANICERAMIC GROUP

# QUALITY CERTIFICATE / CERTIFICADO DE CALIDAD

## SIZES AND SURFACE QUALITY CARACTERISTICAS TÉCNICAS DE LAS BALDOSAS

**PHOTOGRAPHY** FOTOGRAFIA:



| | |
|---|---|
| **Series** Serie | AMSTERDAM GRIP |
| **Finishing of the piece** Acabado | POLISHED/PULIDO |
| **Colour** Color | GREY |
| **Nominal Size** Medida Nominal | 60X120 |
| **Work Size** Medida Fabricación | 600X1200X10,5 |
| **Norme** Norma **EN 14.411** | BIa |
| **Name** Denominación | GLAZED PORCELAIN/PORCELANICO ESMALTAD |

## SIZES AND SURFACE QUALITY DIMENSIONES Y ASPECTO SUPERFICIAL

| | | | | | Required/ Requisito | Value/ Valor |
|---|---|---|---|---|---|---|
| **Length and width** Longitud y anchura | **UNE-EN-ISO 10.545** | Parte 2 | % | | ±0,6% | **Passes Standard Test** Cumple |
| **Thickness** Espesor | **UNE-EN-ISO 10.545** | Parte 2 | % | | ±5% | **Passes Standard Test** Cumple |
| **Rectitud de los lados** Measurement of Side Straightness | **UNE-EN-ISO 10.545** | Parte 2 | % | | ±0,5% | **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 | | | | |
| **Central curvature** Curvatura central | | | % | | ±0,5% | **Passes Standard Test** Cumple |
| **Edge curvature** Curvatura lateral | | | % | | ±0,5% | **Passes Standard Test** Cumple |
| **Warpage** Alabeo | | | % | | ±0,5% | **Passes Standard Test** Cumple |
| **Surface Quality** Aspecto superficial | | | % | | <0,5% | **Passes Standard Test** Cumple |

## PHYSICAL PROPERTIES PROPIEDADES FISICAS

| | | | | | | |
|---|---|---|---|---|---|---|
| **Water Absorption** Absorción de agua | **UNE-EN-ISO 10.545** | Parte 3 | % | | <0,5% | **Passes Standard Test** Cumple |
| **Breaking strength (N)** Fuerza de rotura (N) | **UNE-EN-ISO 10.545** | Parte 4 | N | | >1300 | |
| **Bending Strengt (N/mm²)** Resistencia a la flexión (N/mm²) | **UNE-EN-ISO 10.545** | Parte 4 | N/mm2 | | >35 | |
| **Impact resistance** Resistencia al impacto | **UNE-EN-ISO 10.545** | Parte 5 | | | - | - |
| **Resistence to abrasion** Resistencia a la abrasión | | | | | | |
| **Deep Abrasión (UGL: Unglazed)** Abrasión profunda (UGL: No esmaltadas) | **UNE-EN-ISO 10.545** | Parte 6 | mm3 | | < 175 | **Passes Standard Test** Cumple |
| **Surface abrasion (GL: Glazed)** Abrasión superficial (GL: Esmaltadas) | **UNE-EN-ISO 10.545** | Parte 7 | PEI / Nº rev | | - | |
| **Coefficient of thermal linear expansion** Coeficiente de dilatación térmica lineal | **UNE-EN-ISO 10.545** | Parte 8 | $^{\circ}C^{-1}$ | | - | |
| **Resistance to thermal shock** Resistencia al choque termico | **UNE-EN-ISO 10.545** | Parte 9 | | | **According to use** Según Uso | |
| **Expansión por humedad** Determination of moisture expansion | **UNE-EN-ISO 10.545** | Parte 10 | mm/m | | | |
| **Crazing resistance (GL: Glazed)** Resistencia al cuarteo (GL: Esmaltadas) | **UNE-EN-ISO 10.545** | Parte 11 | | | **According to use** Según Uso | - |
| **Frost Resistance** Resistencia a la helada | **UNE-EN-ISO 10.545** | Parte 12 | | | - | - |
| **Small differences of colour (GL: Glazed)** Pequeñas diferencias de color (GL:Esmaltadas) | **UNE-EN-ISO 10.545** | Parte 16 | | | **ΔEcmc < 0,75** | - |
| **Small differences of colour (GL: Glazed)** Pequeñas diferencias de color (UGL:No Esmaltadas) | **UNE-EN-ISO 10.545** | Parte 16 | | | **ΔEcmc < 1,0** | - |
| **Slip Resistance** Deslizamiento: | | | | | | |
| **Slipperiness (Tortus)** Coeficiente de fricción (Tortus) | **ISO/DIS 10545** | Parte 17 | | | - | |
| **Tilting** Pendulo | **UNE-ENV 12.633** | | | | - | |
| **Slipway (boots)** Rampa botas | **DIN 51.130** | | | | - | |
| **Slipway (Barefeet)** Rampa (pies descalzos) | **DIN 51.097** | | | | - | |
| **Scratch resistance(Mohs)** Resistencia al rayado (Mohs) | **UNE-67101:1985** | | | | - | |

## CHEMICAL PROPERTIES PROPIEDADES QUIMICAS

| | | | | | | |
|---|---|---|---|---|---|---|
| **Cheminal resistance** Resistencia a productos químicos: | **UNE-EN-ISO 10.545** | Parte 13 | | | | |
| **Resistance to low concentrations of acids and alkalis** Resistencia a ácidos y álcalis de baja concentración | | | | | - | **GLB** |
| **Resistance to high concentrations of acids and alkalis** Resistencia a ácidos y álcalis de alta concentración | | | | | - | **GHB** |
| **Resistance to household chemicals ans swimming pool salt** Resistencia a productos domésticos y sales para piscinas | | | | | **B** | **GA** |
| **Resistance to staining** Resistencia a las manchas | **UNE-EN-ISO 10.545** | Parte 14 | | | **3** | |
| **Emission of lead and cadmium** Emisión de plomo y cadmio | **UNE-EN-ISO 10.545** | Parte 15 | | | - | - |

## SAFETY SEGURIDAD

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