

Ceramica del Conca SpA Technical Characteristics

SERIE HMN, MONTEVERDE collection.

EN 14411:2016 Annex G Required for BIa

| Reference | Characteristics | Standard | Required values | | CdC Values: |
|----------------------|---------------------------|--------------|------------------------|----------|---|
| Dimensional standard | Length and width | ISO 10545-2 | ± 0.6% | ± 2.0 mm | Comply |
| | Straightness of sides | ISO 10545-2 | ± 0.5% | ± 1.5 mm | Comply |
| | Rectangularity | ISO 10545-2 | ± 0.5% | ± 2.0 mm | Comply |
| | Flatness-Centre curvature | ISO 10545-2 | ± 0.5% | ± 2.0 mm | Comply |
| | Flatness - Edge curvature | ISO 10545-2 | ± 0.5% | ± 2.0 mm | Comply |
| | Flatness - Warpage | ISO 10545-2 | ± 0.5% | ± 2.0 mm | Comply |
| | Thickness | ISO 10545-2 | ± 5% | ± 0.5 mm | Comply |
| | Surface quality | ISO 10545-2 | Minimum 95% | | Comply |
| Mechanical Standard | Water absorption | ISO 10545-3 | Maximum 0.5% | | ~ 0.1% |
| | Modulus of rupture | ISO 10545-4 | > 35 N/mm ² | | Comply |
| | Breaking Strength | ISO 10545-4 | > 1300 N | | Comply |
| | Impact resistance | ISO 10545-5 | Declared value | | ~ 0.89 (COR) |
| | Linear thermal expansion | ISO 10545-8 | Declared value | | $\alpha = \sim 6.4 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$ |
| | Thermal shock resistance | ISO 10545-9 | Pass | | Comply |
| | Moisture Expansion | ISO 10545-10 | Declared value | | ~ 0.04 mm/m |
| | Crazing Resistance | ISO 10545-11 | Pass | | Comply |
| | Frost resistance | ISO 10545-12 | Pass | | Comply |
| | Chemical resistance | ISO 10545-13 | Minimum class GB | | Comply |
| | DEEP Abrasion | ISO 10545-6 | <175mm ³ | | 135 mm³ |
| | MOHS | | Declared value | | Mohs ≥ 6 |

| | | | | | | |
|-----------------|----------------------------|--|-------------------------------|-----------------------|--------------------------------------|--------------------------------------|
| Safety Standard | International requirements | Stain resistance | ISO 10545-14 | Minimum class 3 | | Comply |
| | | Fire reaction - floor | EN 13823 | Not Required | | A1fl class (No reaction) |
| | | Fire reaction - wall | EN 13823 | Not Required | | A1 class (No reaction) |
| | | VOC | | | | No VOC |
| | EU requirements | Ramp resistance | DIN51130 | Not Required | Nat | R9 |
| | | | | | Grip | R12 |
| | | | | | 20 mm | R11 |
| | | Barefoot ramp resistance | DIN51097 | Not Required | Nat | B |
| | | | | | Grip | C |
| | | | | | 20 mm | C |
| | US Requirements | Dynamic coefficient of Friction DCOF | ANSI A326.3-2017 release 2019 | Wet value \geq 0.42 | Nat | 0.58 |
| | | | | | 20 mm | 0.73 |
| | IT Requirements | Determination of slipperiness BCR tortus | DM 236-89 | > 0.40 | Nat | DRY: 0.48 WET: 0.43 |
| 20 mm | | | | | DRY: 0.75 WET: 0.70 | |

Values reflect an average among test performed in our laboratory according to the standard requirements and/or through third party laboratory.

Test are performed on actual production, first choice material. Values may vary between single individual production run.

Ceramica del Conca Technical team will be pleased to integrate and answer specific questions.