

## Ceramica del Conca USA - Technical Characteristics

### SERIE HQT2, QUARTZITE 20mm collection.

ANSI A 137.1 - 2019 Table 10 : Porcelain Tile

| Reference            |                                   | Characteristics  | Standard            | Required values |                            | DC USA Values: |
|----------------------|-----------------------------------|------------------|---------------------|-----------------|----------------------------|----------------|
| Dimensional standard | Calibrated                        | Nominal Size     | ASTM C499           | ± 3%            |                            | <b>Comply</b>  |
|                      |                                   | Caliber Range    | ASTM C499           | ± 0.5%          | ± 0.08 in                  | <b>Comply</b>  |
|                      |                                   | Warpage Edge     | ASTM C485           | ± 0.5%          | ± 0.07 in                  | <b>Comply</b>  |
|                      |                                   | Warpage Diagonal | ASTM C485           | ± 0.5%          | ± 0.07 in                  | <b>Comply</b>  |
|                      |                                   | Wedging          | ASTM C502           | ± 0.5%          | ± 0.08 in                  | <b>Comply</b>  |
|                      | Rectified                         | Nominal Size     | ASTM C499           | - 3%            | + 2%                       | <b>Comply</b>  |
|                      |                                   | Caliber Range    | ASTM C499           | ± 0.25%         | ± 0.03 in                  | <b>Comply</b>  |
|                      |                                   | Warpage Edge     | ASTM C485           | ± 0.4%          | ± 0.05 in                  | <b>Comply</b>  |
|                      |                                   | Warpage Diagonal | ASTM C485           | ± 0.4%          | ± 0.07 in                  | <b>Comply</b>  |
|                      |                                   | Wedging          | ASTM C502           | ± 0.25%         | ± 0.03 in                  | <b>Comply</b>  |
| Mechanical Standard  | Thickness                         | ASTM C499        | ± 0.040 in          |                 | <b>Comply</b>              |                |
|                      | DEEP Abrasion                     | ASTM C1243       | <175mm <sup>3</sup> |                 | <b>~ 40 mm<sup>3</sup></b> |                |
|                      | Bond Strength                     | ASTM C482        | ≥ 50 psi            |                 | <b>Comply</b>              |                |
|                      | Water absorption                  | ASTM C373        | Maximum 0.5%        |                 | <b>~ 0.1%</b>              |                |
|                      | Thermal shock resistance          | ASTM C484        | Pass                |                 | <b>Comply</b>              |                |
|                      | Chemical resistance               | ASTM C650        | Pass                |                 | <b>Comply</b>              |                |
|                      | Stain resistance                  | ASTM C1378       | Pass                |                 | <b>Comply</b>              |                |
|                      | Breaking Strength                 | ASTM C648        | ≥ 275 lbf           |                 | <b>Comply</b>              |                |
|                      | Resistance to Freeze/Thaw cycling | ASTM C1026       | As Reported         |                 | <b>Comply</b>              |                |
|                      | Scratch Hardness                  | Mohs             | Declared value      |                 | <b>Mohs ≥6</b>             |                |



|  |                 |                                      |                               |                       |      |                                 |
|--|-----------------|--------------------------------------|-------------------------------|-----------------------|------|---------------------------------|
|  |                 | Fire reaction - floor                | EN 13823                      | Not Required          |      | <b>A1fl class (No reaction)</b> |
|  |                 | Fire reaction - wall                 | EN 13823                      | Not Required          |      | <b>A1 class (No reaction)</b>   |
|  |                 | VOC                                  | <b>No VOC</b>                 |                       |      |                                 |
|  | US Requirements | Dynamic coefficient of Friction DCOF | ANSI A326.3-2017 release 2019 | Wet value $\geq$ 0.42 | 20mm | <b>0.73</b>                     |

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.