

## Quality Standard for internal and external walls

The Japan Industrial Standard for Ceramic Tiles (JIS A 5209), along with its testing standards (JIS A 1509-1 to 13), serves as the unified standard for tiles in Japan. Additionally, we are dedicated to quality control through our own more rigorous internal standards, which are based on these JIS standards. For your reference, here is a notation of a part of the JIS product and testing standards.

| characteristics                         |   |                |                      |                      | test method   |
|---|---|----------------|----------------------|----------------------|---------------|
| Water absorption<br>(Boiling or Vacuum) | %                                       | Dry-pressed    |                      | B I : ≤ 3.0          | JIS A 1509-3  |
|   |   | Extruded       |                      | A II : ≤ 10.0        |               |
| Breaking strength                       | N                                       | Internal walls | External walls       |                      | JIS A 1509-4  |
|   |   |                | Surface area         |                      |               |
|   |   |                | < 60 cm <sup>2</sup> | ≥ 60 cm <sup>2</sup> |               |
|   |   | ≥ 108          | ≥ 540                | ≥ 720                |               |
| Thermal shock<br>resistance             |   | No damage      |                      |                      | JIS A 1509-7  |
| Crazing resistance                      |   | No crazing     |                      |                      | JIS A 1509-8  |
| Frost resistance                        |   | No damage      |                      |                      | JIS A 1509-9  |
| Resistance to<br>chemicals              | ammonium chloride<br>solution, 100g/l.  | Declared value |                      |                      | JIS A 1509-10 |
|   | hydrochloric acid<br>solution, 3%       | Declared value |                      |                      |               |
|   | citric acid solution,<br>100g/l         | Declared value |                      |                      |               |
|   | potassium hydroxide<br>solution, 30g/l  | Declared value |                      |                      |               |
|   | sodium hypochlorite<br>solution, 2.0g/l | Declared value |                      |                      |               |
| Lead and cadmium<br>release             | μg/cm <sup>2</sup>                      | Declared value |                      |                      | JIS A 1509-11 |

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### Non-flammable

The reaction to fire performance of ceramic tiles may also be classified also as Class A1 according to EN 13501-1.

## Technical Data Sheet

|                              |                        |                        |
|------------------------------|------------------------|------------------------|
| 1. Collection                | <b>ARCAICO BORDER</b>  |                        |
| 2. Category of tile          | BI Glazed tile         | BI Unglazed tile       |
| 3. Length, Width & Thickness | 240.0 x 20.0 x 12.0 mm | 240.0 x 20.0 x 12.0 mm |
| 4. Item number               | DN-20B/ARC-1~ARC-7     | DN-20B/ARC-101~ARC-104 |

| characteristics                      |        | JIS A 5209       | JIS A 5209       |
|--------------------------------------|--------|------------------|------------------|
| Length (mm)                          |        | 200.0 ± 2.4      | 200.0 ± 2.4      |
| Width (mm)                           |        | 20.0 ± 0.8       | 20.0 ± 0.8       |
| Crook (mm)                           | Length | ≤ 2.0            | ≤ 2.0            |
|                                      | Width  | ≤ 1.0            | ≤ 1.0            |
| Thickness (mm)                       |        | 12.0 ± 1.2       | 12.0 ± 1.2       |
| Centre curvature (mm)                |        | ± 1.5            | ± 1.5            |
| Torsion (mm)                         |        | ≤ 1.2            | ≤ 1.2            |
| Edge curvature (mm)                  |        | N/A              | N/A              |
| Straightness of sides (mm)           |        | ± 1.6            | ± 1.6            |
| Rectangularity (mm)                  |        | N/A              | N/A              |
| Shape of back feet                   |        | Dovetailed shape | Dovetailed shape |
| Height of back feet (mm)             |        | 0.7 - 3.5        | 0.7 - 3.5        |
| Water absorption (%) (Vacuum method) |        | ≤ 3.0            | ≤ 3.0            |
| Breaking strength (N)                |        | ≥ 540            | ≥ 540            |
| Thermal shock resistance             |        | N/A              | N/A              |
| Crazing resistance (-)               |        | No crazing       | N/A              |
| Frost resistance (-)                 |        | No damage        | No damage        |
| Resistance to chemicals (-)          |        | Declared value   | Declared value   |

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Note :

Testing methods are in compliance with JIS A5209:2020 and JIS A 1509.

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