

ONIX<sup>®</sup>

Technical Characteristics

# Technical Characteristics

| Format. | Series.                | Test UNE-EN-ISO 10545-3 | Test UNE-EN-ISO 101-92=101 | Test UNE-EN-ISO 10545-9       | Test UNE-EN-ISO 10545-12 | Test UNE-EN-ISO 10545-13:1998<br>Resistance to chemical attack. |                       |
|---------|------------------------|-------------------------|----------------------------|-------------------------------|--------------------------|---|-----------------------|
|         |                        | Water Absorption.       | Surface hardness. Mohs.    | Resistance to thermal shocks. | Frost Resistance.        | Domestic Products.  | Pool water additives. |
| Penny   | Penny Vanguard         | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penny Ecostones        | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penny Ecostones Matte  | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penny Cotto            | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penny Natureglass      | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penny Stoneglass       | None                    | 9                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penny Shiny            | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penny Opalo            | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
| Hex XL  | Hex XL Hexagon Blends  | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Stoneblends     | None                    | 9                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Canvas          | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Ecostones       | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Ecostones Matte | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Cotto           | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Zelik           | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Stoneglass      | None                    | 9                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex XL Natureglass     | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
| Hex     | Hex Boreal             | None                    | 4                          | Resistant                     | Resistant                | GA  |                       |
|         | Hex Opalo              | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex Vintage Blends     | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex Craquele           | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |

| Test UNE-EN-ISO 10545-13:1998<br>Resistance to chemical attack. |                         | Test UNE-EN-ISO 10545-14 | Test UNE-EN-ISO 10545-11=1997 | DIN 51094  | DCOF   | DIN 51130:2004                 | DIN 51097                     | Test UNE-ENV 12633:2003 (CTE)                                       |
|---|-------------------------|--------------------------|-------------------------------|--|--|--------------------------------|-------------------------------|---|
| Low acid and alkalins.  | High acid and alkalins. | Resistance to staining.  | Cracking.                     | Colour Stability on exposure to light and UV rays. | Wet Dynamic Coefficient of Friction ANSI A 137.1 Standard. | SLIP Resistance wearing shoes. | SLIP Resistance in bare feet. | Anti skid coefficient, suitable for outdoor use and swimming pools. |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R11                            | Class C                       | Class 3   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R11                            | Class C                       | Class 3   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R9                             | Class A                       | Class 2   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R9                             | Class A                       | Class 2   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R11                            | Class C                       | Class 3   |
|   |                         | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |

# Technical Characteristics

| Format. | Series.             | Test UNE-EN-ISO 10545-3 | Test UNE-EN-ISO 101-92=101 | Test UNE-EN-ISO 10545-9       | Test UNE-EN-ISO 10545-12 | Test UNE-EN-ISO 10545-13:1998<br>Resistance to chemical attack. |                       |
|---------|---------------------|-------------------------|----------------------------|-------------------------------|--------------------------|---|-----------------------|
|         |                     | Water Absorption.       | Surface hardness. Mohs.    | Resistance to thermal shocks. | Frost Resistance.        | Domestic Products.  | Pool water additives. |
| Hex     | Hex Stoneblends     | None                    | 9                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hexagon Blends      | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex Canvas          | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex Ecostones       | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex Ecostones Matte | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex Stoneglass      | None                    | 9                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Hex Natureglass     | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
| Penta   | Penta Ecostones     | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Penta Cotto         | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
| Square  | Boreal              | None                    | 4                          | Resistant                     | Resistant                | GA  | *                     |
|         | Stoneglass Blends   | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Metal Blends        | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Ecostones           | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Ecostones Matte     | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Stoneglass          | None                    | 9                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Natureglass         | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Natureglass Matte   | None                    | 5                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Opalo               | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |
|         | Lisa                | None                    | 4                          | Resistant                     | Resistant                | GA  | GA                    |

| Test UNE-EN-ISO 10545-13:1998<br>Resistance to chemical attack. |                         | Test UNE-EN-ISO 10545-14 | Test UNE-EN-ISO 10545-11=1997 | DIN 51094  | DCOF   | DIN 51130:2004                 | DIN 51097                     | Test UNE-ENV 12633:2003 (CTE)                                       |
|---|-------------------------|--------------------------|-------------------------------|--|--|--------------------------------|-------------------------------|---|
| Low acid and alkalins.  | High acid and alkalins. | Resistance to staining.  | Cracking.                     | Colour Stability on exposure to light and UV rays. | Wet Dynamic Coefficient of Friction ANSI A 137.1 Standard. | SLIP Resistance wearing shoes. | SLIP Resistance in bare feet. | Anti skid coefficient, suitable for outdoor use and swimming pools. |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R9                             | Class A                       | Class 2   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,60   | R11                            | Class C                       | Class 3   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R9                             | Class A                       | Class 2   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R11                            | Class C                       | Class 3   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,60   | R11                            | Class C                       | Class 3   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| * Nador   |                         | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,60   | R11                            | Class C                       | Class 3   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R9                             | Class A                       | Class 2   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  | ≥ 0,42   | R11                            | Class C                       | Class 3   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |
| GLA   | GHA                     | Class 5                  | Resistant                     | Resistant  |  |                                |                               |   |

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