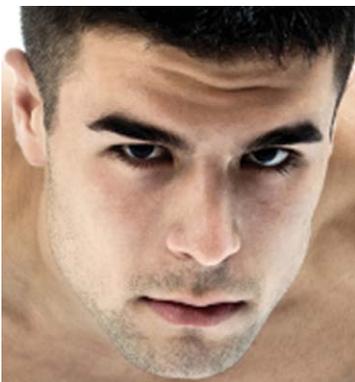
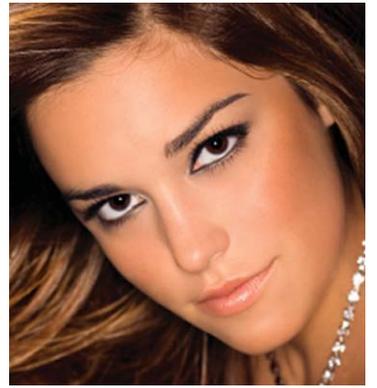


landscape
digital technology, rectified,
through color bodied porcelain



COBSA-USA

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| canyon |



| 18x18 |



| 12x12 |



| 2x2 |
mosaic



| 3x12 |
bullnose

| mountain |



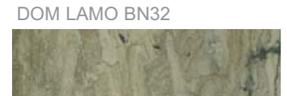
| 18x18 |



| 12x12 |



| 2x2 |
mosaic



| 3x12 |
bullnose

| valley |



| 18x18 |



| 12x12 |



| 2x2 |
mosaic



| 3x12 |
bullnose

| prairie |



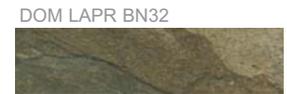
| 18x18 |



| 12x12 |



| 2x2 |
mosaic



| 3x12 |
bullnose

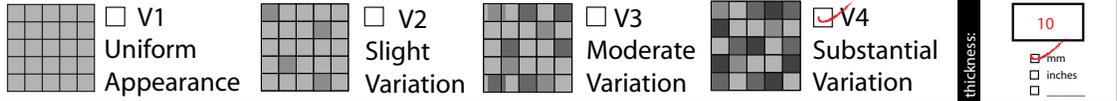
Suggested Applications



Installation Suggestions



Shade Variation



Slip Resistance

| accessible routes | Coefficient of Friction WET | | Coefficient of Friction DRY | | DIN 51130 | DIN 51097 | | |
|-------------------|-----------------------------|--------|-----------------------------|--------|--|---------------------------------------|---|----------------|
| | standard* | result | standard* | result | | Class | Typical applications | Critical angle |
| routes | .6 | .7 | .6 | .6 | <input type="checkbox"/> R9* 3-10° | <input checked="" type="checkbox"/> A | Barefoot, but mainly dry aisles and walkways, dry changing areas | ≥12° |
| ramps | .8 | | .8 | | <input checked="" type="checkbox"/> R10 10-19° | <input type="checkbox"/> B | Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) | ≥18° |
| | | | | | <input type="checkbox"/> R11 19-27° | <input type="checkbox"/> C | Areas constantly under water, e.g. steps into pools, foot baths, included pool surrounds, jacuzzis (plus all Class A&B areas) | ≥24° |
| | | | | | <input type="checkbox"/> R12 27-35° | | | |
| | | | | | <input type="checkbox"/> R13 >35° | | | |

Values: 0-0.50, 0.50-0.60, >0.60
 Tile Classification: Questionable, Conditionally Slip Resistant, Slip Resistant

ASTM C-1028
 DIN 51097/51130

*Industry Standard/ADA Requirements

Scratch Resistance

| Mineral | Mineral |
|----------------------------|-----------------------------------|
| 1. Talc (Talc) | 6. Microline (Glass, Glazed Tile) |
| 2. Gypsum (Fingernail) | 7. Quartz (Unglazed Porcelain) |
| 3. Calcite (Penny) | 8. Topaz (Granite) |
| 4. Fluorite (Some Marbles) | 9. Corundum (Ruby) |
| 5. Apatite (Knife Blade) | 10. Diamond (Diamond) |

MOH'S SCALE 6-7
 UNI EN ISO 10545.6
 Industry standard ≤175mm²

Wear Resistance

| |
|---|
| <input type="checkbox"/> Class 1: Walls only |
| <input type="checkbox"/> Class 2: Resid. floors w/minimal abrasive traffic. |
| <input type="checkbox"/> Class 3: Resid. interiors normal use and foot traffic. |
| <input type="checkbox"/> Class 4: Light-medium commercial applications. |
| <input checked="" type="checkbox"/> Class 5: Commercial applications. |

PEI RATING UNI EN ISO 10545.7

Stain Resistance

- Removed after 5 minutes (hot water running)
 - Removed by manual cleaning (weak detergent)
 - Removed by mechanical cleaning (strong detergent)
 - Removed by immersion (24 hrs in suitable solvent)
 - Stain not removed
- ASTM C1378-04
 UNI EN ISO 10545.14

Water Absorption

| | | | |
|---|---|---|--|
| <input checked="" type="checkbox"/> Absorbs 0-.5% | <input type="checkbox"/> Absorbs .5-3% | <input type="checkbox"/> Absorbs 3-7% | <input type="checkbox"/> Absorbs 7% + |
| Impervious Interior/exterior Frost Resistant | Vitreous Interior/exterior Frost Resistant | Semi-Vitreous Indoor use only | Non-Vitreous Indoor use only |

ASTM C-373
 UNI EN ISO 10545.3

Breaking Strength

Industry standard should be greater than 250 lbs or 45 N/MM²

ASTM C648
 UNI EN ISO 10545.4

Facial Dimension

| | Standard | Tolerance | Result |
|--------------|--------------------|-----------|--------|
| flatness | ± 5mm | ± .5% | ± 0.3% |
| thickness | ± 6mm | ± .5% | ± 0.5% |
| straightness | ± 4.5mm | ± .5% | ± 0.3% |
| squareness | ± 5.4mm | ± .6% | ± 0.3% |
| sides L/W | ± 1.1mm ± 4.5mm | ± .5% | ± 0.3% |

ASTM c499-09
 UNI EN ISO 10545.02

Chemical Resistance

Allowances for:

| | result |
|-----------|--------|
| acid | GLA |
| bases | GLA |
| chemicals | GA |

ASTM C650
 UNI EN ISO 10545.13

Leed Information

| Sustainable Sites | Allowances for: | |
|--|---|---|
| | 1 Point | 2 Points |
| SS CREDIT 1 Heat Island Effect-non roof Material with a solar reflectant index of at least 29. | <input checked="" type="checkbox"/> | |
| Energy & Atmosphere | 1 Point | |
| EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT | <input checked="" type="checkbox"/> | |
| Indoor Environmental Quality Low-Emitting Materials-Flooring Systems | 1 Point | |
| IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals. | <input checked="" type="checkbox"/> | |
| IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC | <input checked="" type="checkbox"/> | |
| IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems. | <input checked="" type="checkbox"/> | |
| Materials & Resources | 1 Point | 2 Points |
| M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials. | 50% <input checked="" type="checkbox"/> | 70% <input checked="" type="checkbox"/> |
| M&R CREDIT 4.1-4.2 Recycled Content: The sum of post consumer plus 1/2 of the pre consumer reps at least 10-20% of total value of materials. | 10% <input checked="" type="checkbox"/> | 20% <input checked="" type="checkbox"/> |
| M&R CREDIT 5 Regional Materials: Materials manufactured within 500 miles of the project site. | 10% <input checked="" type="checkbox"/> | 20% <input checked="" type="checkbox"/> |
| Innovation in Design | 1-5 Points | |
| ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance. | <input checked="" type="checkbox"/> | |

Type: Digital Technology, rectified, through color bodied porcelain

Product Line: Landscape



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Due to printing and variations, colors shown could vary from actual sample.