

TIVOLI

porcelain stone



COBSA USA

NEW YORK | NEW JERSEY | MIAMI



BEIGE

Tivoli



LOUNGE
BAR

> POOL
> SPA
> SUITES

Tivoli

BEIGE

DOMTIBE88



- 8x8 -

DOMTIBE816



- 8x16 -

DOMTIBEHEX



- hexagon mosaic -

DOMTIBEMOS11



- 1x1 mosaic -

DOMTIBE16



- 16x16 -

DOMTIBE1624



- 16x24 -

DOMTIBEHER



- herringbone mosaic -



BIANCO

Tivoli



Tivoli

BIANCO

DOMTIBI88



- 8x8 -

DOMTIBI816



- 8x16 -

DOMTIBIHEX



- hexagon mosaic -

DOMTIBIMOS11



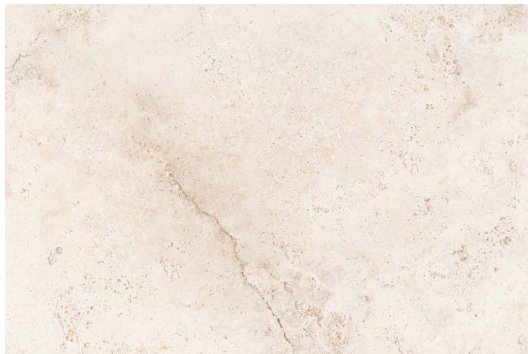
- 1x1 mosaic -

DOMTIBI16



- 16x16 -

DOMTIBI1624



- 16x24 -

DOMTIBIHER



- herringbone mosaic -



GRIGIO

Tivoli



Tivoli

GRIGIO

DOMTIGR88



- 8x8 -

DOMTIGR816



- 8x16 -

DOMTIGRHEX



- hexagon mosaic -

DOMTIGRMOS11



- 1x1 mosaic -

DOMTIGR16



- 16x16 -

DOMTIGR1624



- 16x24 -

DOMTIGRHER



- herringbone mosaic -



TUFO

Tivoli



Tivoli

TUFO

DOMTITU88



- 8x8 -

DOMTITU816



- 8x16 -

DOMTITUHEX



- hexagon mosaic -

DOMTITUMOS11



- 1x1 mosaic -

DOMTITU16



- 16x16 -

DOMTITU1624

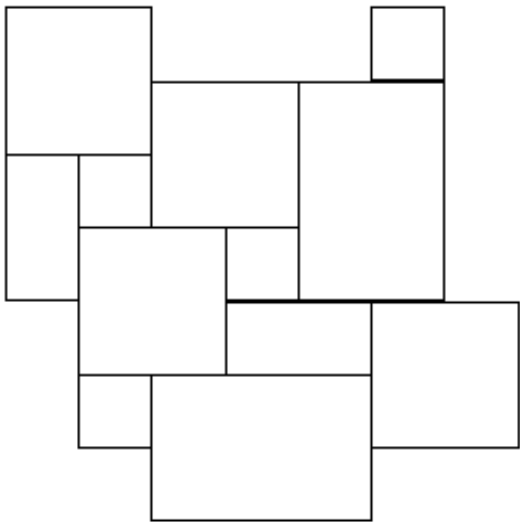


- 16x24 -

DOMTITUHER



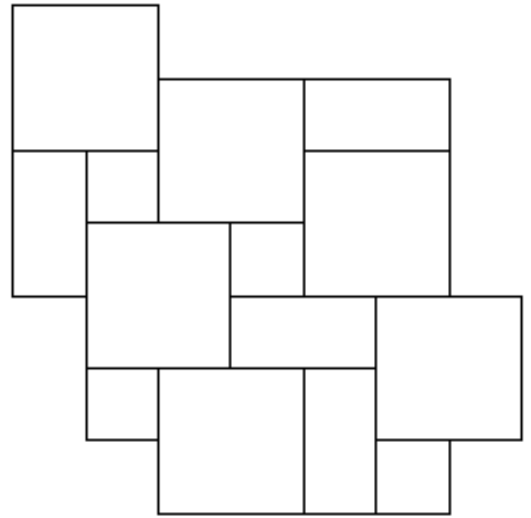
- herringbone mosaic -



LAYING PATTERN #1

| | |
|-------|--------|
| 16x24 | 33.33% |
| 16x16 | 44.44% |
| 8x16 | 11.11% |
| 8x8 | 11.11% |



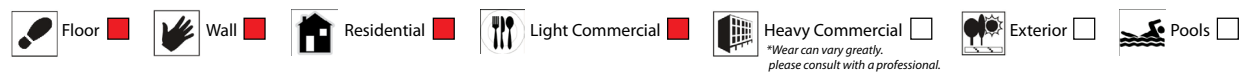


LAYING PATTERN #2

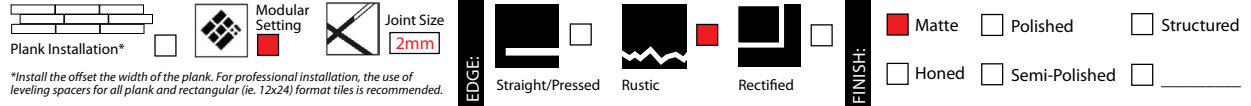
| | |
|-------|--------|
| 16x16 | 66.66% |
| 8x16 | 22.22% |
| 8x8 | 11.12% |



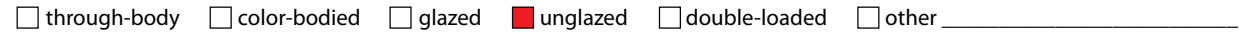
Suggested Applications



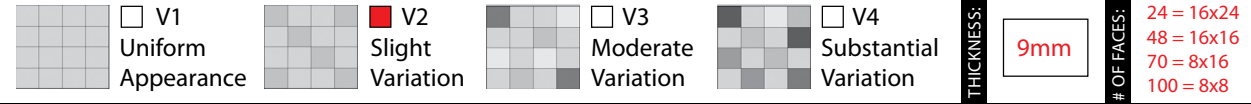
Installation Suggestions



Porcelain Type



Shade Variation



Slip Resistance

| DCOF | Values | Applications |
|-----------------|--------|---|
| >0.43 | 0.42 | Recommended Standard DCOF value for wet/dry commercial flooring |
| | 0.65 | Recommended Standard DCOF value for ADA ramps |

DIN 51130 *R9: Industry Standard/ADA Requirements **R11: Recommended For Exteriors

R9* (3-10°) R10 (10-19°) R11** (19-27°)
 R12 (27-35°) R13 (>35°)

ASTM C-1028
ANSI A137.1
DIN 51097/51130

DIN 51097

| Class | Typical Applications | Critical Angle |
|---------------------------------------|---|----------------|
| <input checked="" type="checkbox"/> A | Barefoot, but mainly dry aisles and walkways, dry changing areas | ≥12° |
| <input type="checkbox"/> B | Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) | ≥18° |
| <input type="checkbox"/> C | Areas constantly under water, e.g. steps into pools, foot baths, inclined pool surrounds, jacuzzis (plus all Class A&B areas) | ≥24° |

Scratch Resistance

MOH'S SCALE
UNI EN ISO
10545.6

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

Industry standard ≤175mm²

Wear Resistance

PEI RATING
UNI EN ISO
10545.7

- Class 1: Walls only
 - Class 2: Residential floors w/minimal abrasive traffic
 - Class 3: Residential interiors/light commercial traffic
 - Class 4: Medium commercial applications
 - Class 5: All commercial applications/heavy traffic
- *Wear can vary greatly. please consult with a professional.*

Stain Resistance

ASTM C1378-04
UNI EN ISO
10545.14

- 5: Removed after 5 minutes (hot water running)
- 4: Removed by manual cleaning (weak detergent)
- 3: Removed by mechanical cleaning (strong detergent)
- 2: Removed by immersion (24 hrs in suitable solvent)
- 1: Stain not removed

Water Absorption

ASTM C-373
UNI EN ISO
10545.3

| | | | |
|--|--|---------------------------------------|---------------------------------------|
| | | | |
| <input checked="" type="checkbox"/> Absorbs 0-0.5% | <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 |

Breaking Strength

ASTM C648
UNI EN ISO
10545.4



Facial Dimension

ASTM c499-09
UNI EN ISO
10545.02

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

Chemical Resistance

ASTM C650
UNI EN ISO
10545.13

Allowances for:

| | result |
|-----------|--------|
| Acid | PASS |
| Bases | PASS |
| Chemicals | PASS |

Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

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

Type: **Porcelain Stoneware**

Product Line: **TIVOLI**

The marketing name for this product is property of Cobas-USA. This same product may be marketed under different names.