

TIVOLI

porcelain stone



COBSA USA

NEW YORK | NEW JERSEY | MIAMI

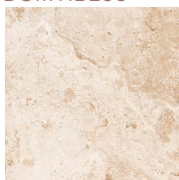


BEIGE

Tivoli

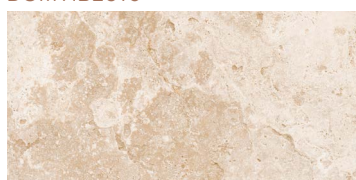


DOMTIBE88



- 8x8 -

DOMTIBE816



- 8x16 -

DOMTIBEHEX



- hexagon mosaic -

DOMTIBEMOS11



- 1x1 mosaic -

DOMTIBE16



- 16x16 -

DOMTIBE1624



- 16x24 -

DOMTIBEHER



- herringbone mosaic -



BIANCO

Tivoli

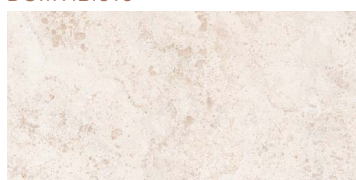


DOMTIBI88



- 8x8 -

DOMTIBI816



- 8x16 -

DOMTIBIHEX



- hexagon mosaic -

DOMTIBIMOS11



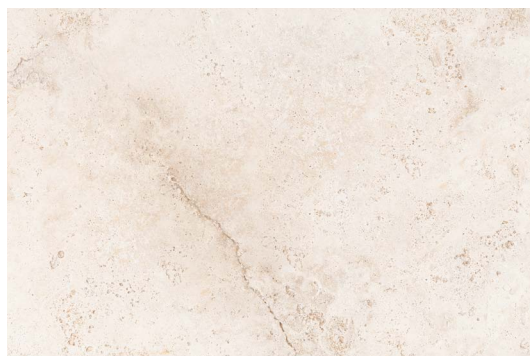
- 1x1 mosaic -

DOMTIBI16



- 16x16 -

DOMTIBI1624



- 16x24 -

DOMTIBIHER



- herringbone mosaic -



GRIGIO

Tivoli

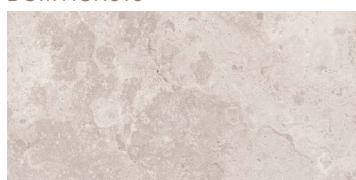


DOMTIGR88



- 8x8 -

DOMTIGR816



- 8x16 -

DOMTIGRHEX



- hexagon mosaic -

DOMTIGRMOS11



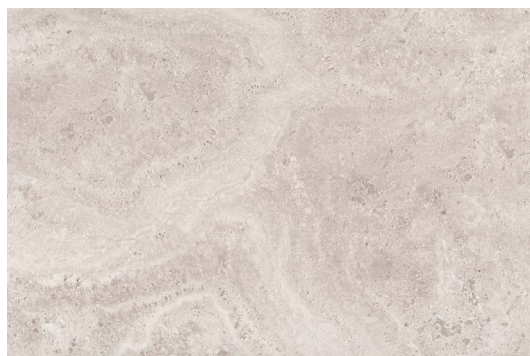
- 1x1 mosaic -

DOMTIGR16



- 16x16 -

DOMTIGR1624



- 16x24 -

DOMTIGRHER



- herringbone mosaic -



TUFO

Tivoli



DOMTITU88



- 8x8 -

DOMTITU816



- 8x16 -

DOMTITUHEX



- hexagon mosaic -

DOMTITUMOS11



- 1x1 mosaic -

DOMTITU16



- 16x16 -

DOMTITU1624

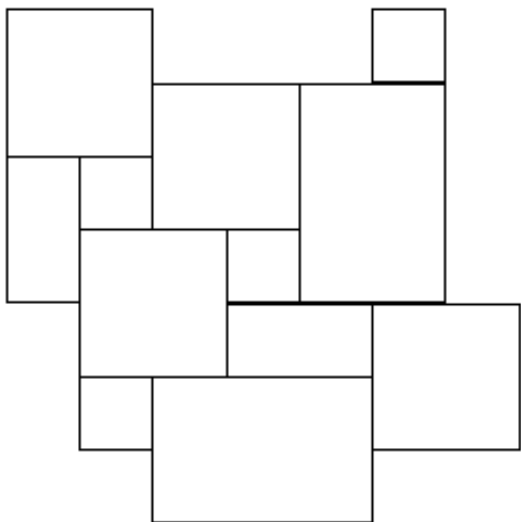


- 16x24 -

DOMTITUHER



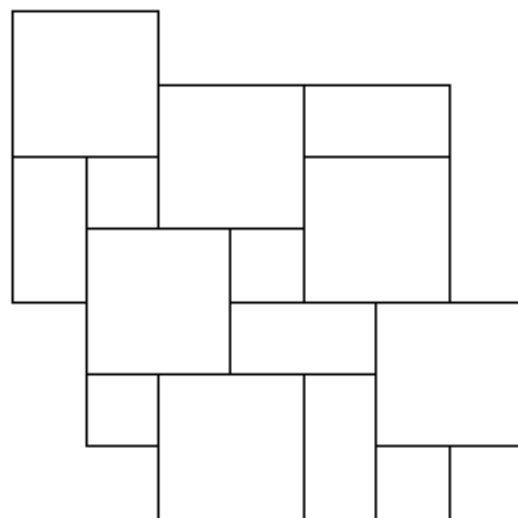
- herringbone mosaic -



LAYING PATTERN #1

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





LAYING PATTERN #2

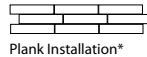
16x16	66.66%
8x16	22.22%
8x8	11.12%



Suggested Applications

Floor ☒Wall ☒Residential ☒Light Commercial ☒Heavy Commercial ☐
*Wear can vary greatly. please consult with a professional.Exterior ☐Pools ☐

Installation Suggestions



Plank Installation* ☐ *Install the offset the width of the plank. For professional installation, the use of leveling spacers for all plank and rectangular (ie. 12x24) format tiles is recommended.



Modular Setting ☒ Joint Size ☒ MIN. 1/4"

EDGE:

Straight/Pressed ☐ Rustic ☒ Rectified ☐

FINISH:

Matte ☒ Polished ☐ Structured ☐Honed ☐ Semi-Polished ☐

Porcelain Type

☐ through-body☐ color-bodied☐ glazed☒ unglazed☐ double-loaded☐ other

Shade Variation

☐ V1
Uniform
Appearance☒ V2
Slight
Variation☐ V3
Moderate
Variation☐ V4
Substantial
Variation

THICKNESS:

9mm

OF FACES:

24 = 16x24
48 = 16x16
70 = 8x16
100 = 8x8

Slip Resistance

DCOF

>0.43



Values

0.42

0.65

Applications

Recommended Standard DCOF value for wet/dry commercial flooring

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

☒ A

Barefoot, but mainly dry aisles and walkways, dry changing areas

≥12°

☐ B

Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)

≥18°

☐ 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

<175

MINERAL

1. Talc (Talc)

2. Gypsum (Fingernail)

3. Calcite (Penny)

4. Fluorite (Some Marbles)

5. Apatite (Knife Blade)

Industry standard ≤175mm²

6. Microline (Glass, Glazed Tile)

7. Quartz (Unglazed Porcelain)

8. Topaz (Granite)

9. Corundum (Ruby)

10. Diamond (Diamond)

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

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

☒ Absorbs 0-.5%

Impervious

Interior/Exterior

Frost Resistant

☐ Absorbs .5-3%

Vitreous

Interior/Exterior

Frost Resistant

☐ Absorbs 3-7%

Semi-Vitreous

Indoor Use Only

☐ Absorbs 7% +

Non-Vitreous

Indoor Use Only

Breaking Strength

ASTM C648

UNI EN ISO

10545.4

PASS



Industry standard

should be greater than

250 lbs

or

50 N/MM²

Facial Dimension

ASTM c499-09

UNI EN ISO

10545.02

flatness

Standard

± 5mm

Tolerance

± .5%

Result

PASS

thickness

± 6mm

± .5%

PASS

straightness

± 4.5mm

± .5%

PASS

squareness

± 5.4mm

± .6%

PASS

sides L/W

± 1.1mm

± .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

SS CREDIT 1

Heat Island Effect-non roof

Material with a solar reflectant index of at least 29.

☐

Energy & Atmosphere

1 Point

EA CREDIT 4

Green Power: Products that optimize energy

performance for floors and walls using thermal

conductivity. BTU-FT

☐

Indoor Environmental Quality

Low-Emitting Materials-Flooring Systems

1 Point

IEQ CREDIT 3.1-7

Green Cleaning: Reducing occupants exposure

to hazardous cleaning chemicals.

☐

IEQ CREDIT 4.1

Low Emitting Adhesives: Products less than

65 G/L VOC

☐

IEQ CREDIT 4.3

Low Emitting Materials: Flooring systems.

☐

Materials & Resources

1 Point

2 Points

M&R CREDIT 2

Construction Waste Management:

Recycling salvaged construction

waste in to new reusable materials.

50% ☐70% ☐

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% ☐20% ☐

M&R CREDIT 5

Regional Materials: Materials

manufactured within 500 miles

of the project site.

10% ☐20% ☐

Innovation in Design

1-5 Points

ID CREDIT 1

Innovation in Design

Measurable exemplary environmental performance.

☐

Type: Porcelain Stoneware

Product Line: TIVOLI

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