

Vana

porcelain stoneware



WHITE

COBSA-USA

NEW YORK | NEW JERSEY | MIAMI



DOMVABE848





DOMVAGR848





DOMVANE848





DOMVAWH848



PORCELAIN STONEWARE



BEIGE



Suggested Applications



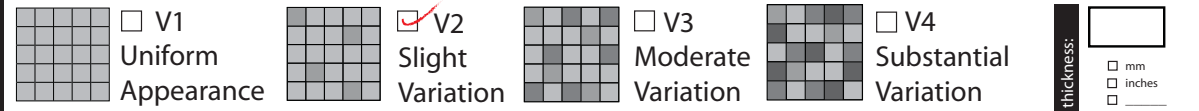
Installation Suggestions



Porcelain Type



Shade Variation



Slip Resistance



COF (coefficient of friction)

	WET		DRY	
	standard*	result	standard*	result
accessible routes	.6		.6	
ramps	.8		.8	



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

DCOF >0.42

DIN 51130

<input type="checkbox"/>	R9*	3-10°
<input checked="" type="checkbox"/>	R10	10-19°
<input type="checkbox"/>	R11	19-27°
<input type="checkbox"/>	R12	27-35°
<input type="checkbox"/>	R13	>35°

DIN 51097 Class

<input checked="" type="checkbox"/>	A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
<input checked="" 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°

ASTM C-1028
DIN 51097/51130

*Industry Standard/ADA Requirements

Scratch Resistance



MOH'S SCALE
UNI EN ISO 10545.6

Mineral

- Talc (Talc)
- Gypsum (Fingernail)
- Calcite (Penny)
- Flourite (Some Marbles)
- Apatite (Knife Blade)

Mineral

- Microline (Glass, Glazed Tile)
- Quartz (Unglazed Porcelain)
- Topaz (Granite)
- Corundum (Ruby)
- Diamond (Diamond)

Industry standard ≤175mm²

Wear Resistance

PEI RATING
UNI EN ISO 10545.7

- Class 1: Walls only
- Class 2: Resid. floors w/minimal abrasive traffic.
- Class 3: Resid. interiors normal use and foot traffic.
- Class 4: Light-medium commercial applications.
- Class 5: Commercial applications.

Stain Resistance

ASTM C1378-04
UNI EN ISO 10545.14

5

- Removed after 5 minutes (hot water running)
- Removed by immersion (24 hrs in suitable solvent)
- Removed by mechanical cleaning (strong detergent)
- Removed by manual cleaning (weak detergent)
- Removed after 5 minutes (hot water running)

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



Industry standard should be greater than 250 lbs or 50 N/MM²
45 N/MM₂

Facial Dimension

ASTM c499-09
UNI EN ISO 10545.02

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

Chemical Resistance

ASTM C650
UNI EN ISO 10545.13



Allowances for: GA

	result
acid	
bases	
chemicals	

Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Sustainable Sites

Site selection

- SS CREDIT 1 Heat Island Effect-non roof
Material with a solar reflectant index of at least 29.

Energy & Atmosphere

- 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

- 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.

Allowances for:

	1 Point	2 Points
Materials & Resources		
M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% <input type="checkbox"/>	70% <input 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 type="checkbox"/>	20% <input checked="" 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"/>
Innovation in Design		1-5 Points
ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.		<input type="checkbox"/>

Type: Porcelain Stoneware

Product Line: Vana

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