

Lifestone

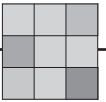


Shown in Crosscut Travertine

*Inspired by Nature,  
Made Possible by...*

**CANCOS**

TILE AND STONE



**CREMA**



USA LICR 1224

| 12 x 24 |

USA LICR 36



| 3 x 6 |

USA LICR 66



| 6 x 6 |



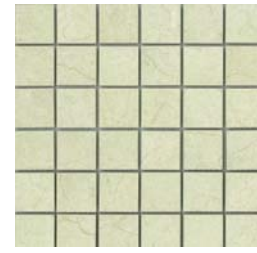
USA LICR 18

| 18 x 18 |



USA LICR 12

| 12 x 12 |



USA LICR MOS22

| 2 x 2 |  
*mosaic*



USA LICR BN32

| 3 x 12 |  
*bullnose*

**CROSSCUT**



USA LICR 1224

| 12 x 24 |

USA LICR 36



| 3 x 6 |

USA LICR 66



| 6 x 6 |



USA LICR 18

| 18 x 18 |



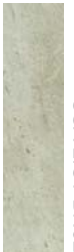
USA LICR 12

| 12 x 12 |



USA LICR MOS22

| 2 x 2 |  
*mosaic*



USA LICR BN32

| 3 x 12 |  
*bullnose*

**DAINO ROYAL**



USA LIDR 1224

| 12 x 24 |

USA LIDR 36



| 3 x 6 |

USA LIDR 66



| 6 x 6 |



USA LIDR 18

| 18 x 18 |



USA LIDR 12

| 12 x 12 |



USA LIDR MOS22

| 2 x 2 |  
*mosaic*



USA LIDR BN32

| 3 x 12 |  
*bullnose*

## EMPERADOR MARRON



USA LIEM 1224

| 12 x 24 |



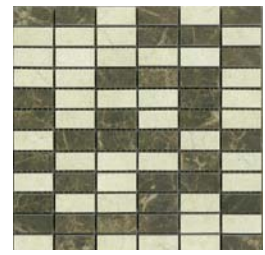
USA LIEM 18

| 18 x 18 |



USA LIEM 12

| 12 x 12 |



USA LIEM MOS21

| 2 x 1 |  
*mosaic*



USA LIEM BN32

| 3 x 12 |  
*bullnose*

## STATUARIO



USA LIST 1224

| 12 x 24 |

USA LIST 36



| 3 x 6 |

USA LIST 66



| 6 x 6 |



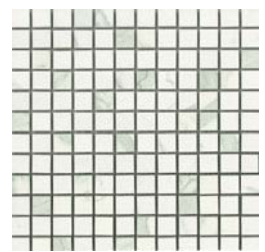
USA LIST 18

| 18 x 18 |



USA LIST 12

| 12 x 12 |



USA LIST MOS22

| 1 x 1 |  
*mosaic*



USA LIST BN32

| 3 x 12 |  
*bullnose*



# Suggested Applications

floor  wall  residential  light commercial  heavy commercial  exterior  pools

# Installation Suggestions

joint size  modular setting  plank installation  edge:  straight  rustic  rectified  finish:  matte  polished  structured  honed  semi-polished  other

# Shade Variation

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

thickness:  3/8  1/2  5/8

# Slip Resistance

**Coefficient of Friction**  
 WET: standard\* .6, result .6  
 DRY: standard\* .6, result .7

accessible routes: standard\* .6, result .6  
 ramps: standard\* .8, result .8

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

Tile Classification: Questionable, Conditionally Slip Resistant, Slip Resistant

DIN 51130:  R9\* 3-10°,  R10 10-19°,  R11 19-27°,  R12 27-35°,  R13 >35°

DIN 51097:
 

Class	Typical applications	Critical angle
<input 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, included pool surrounds, jacuzzis (plus all Class A&B areas)	≥24°

ASTM C-1028  
DIN 51097/51130

\*Industry Standard/ADA Requirements

# Scratch Resistance

Mineral: 1. Talc (Talc), 2. Gypsum (Fingernail), 3. Calcite (Penny), 4. Fluorite (Some Marbles), 5. Apatite (Knife Blade)

Mineral: 6. Microline (Glass, Glazed Tile), 7. Quartz (Unglazed Porcelain), 8. Topaz (Granite), 9. Corundum (Ruby), 10. Diamond (Diamond)

Industry standard ≤175mm<sup>2</sup>

**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.

MOH'S SCALE 8  
 UNI EN ISO 10545.6

# Stain Resistance

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 .05

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

ASTM C1378-04  
 UNI EN ISO 10545.14 5

# Breaking Strength

Industry standard should be greater than 250 lbs or 50 N/MM<sup>2</sup>

**Facial Dimension**  
 ASTM c499-09  
 UNI EN ISO 10545.02

flatness: Standard ±5mm, Tolerance ±.5%, Result .45  
 thickness: Standard ±6mm, Tolerance ±.5%, Result .078  
 straightness: Standard ±4.5mm, Tolerance ±.5%, Result .01  
 squareness: Standard ±5.4mm, Tolerance ±.6%, Result .07  
 sides L/W: Standard ±1.1mm/±4.5mm, Tolerance ±.5%, Result .01

**Chemical Resistance**  
 ASTM C650  
 UNI EN ISO 10545.13

Allowances for:  
 acid: result NO EFFECT  
 bases: result NO EFFECT  
 chemicals: result NO EFFECT

ASTM C648  
 UNI EN ISO 10545.4

# Leed Information

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: 1 Point  
 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.

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: Color body Porcelain Digital Technology  
 Product Line: Lifestone

# Suggested Applications



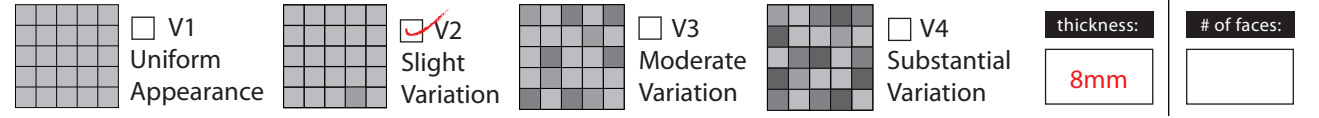
# Installation Suggestions



# Porcelain Type



# Shade Variation



# Slip Resistance



COF		WET		DRY		DCOF		DIN 51130		DIN 51097		
accessible routes	standard*	result	standard*	result	standard*	result		R9*	3-10°	Class	Typical Applications	Critical Angle
	.6	.76	.6	.82				R10	10-19°	A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
ramps	.8		.8					R11	19-27°	B	Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)	≥18°
								R12	27-35°	C	Areas constantly under water, e.g. steps into pools, foot baths, inclined pool surrounds, jacuzzis (plus all Class A&B areas)	≥24°
								R13	>35°			

\*Industry Standard/ADA Requirements

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

ASTM C-1028  
DIN 51097/51130

# Scratch Resistance



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

Industry standard ≤175mm<sup>2</sup>

MOH'S SCALE 8  
UNI EN ISO 10545.6

# 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)
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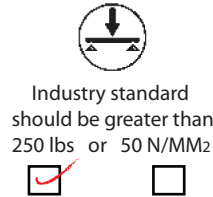
# Water Absorption

ASTM C-373  
UNI EN ISO 10545.3

Water Absorption	0-0.5%	0.5-3%	3-7%	7%+
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impervious	Vitreous	Semi-Vitreous	Non-Vitreous	
Interior/exterior Frost Resistant	Interior/exterior Frost Resistant	Indoor use only	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%	
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:

	result
acid	no affect
bases	no affect
chemicals	no affect

# Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Sustainable Sites	1 Point
Site selection	
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 type="checkbox"/>
Indoor Environmental Quality	1 Point
Low-Emitting Materials-Flooring Systems	
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 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: Limestone polished