

## ETERNAL LIMESTONES



*live inspired*

COLOR BODY PORCELAIN TILE | RECTIFIED | 3D PRINTING TECHNIQUE | MADE IN THE USA





## LIFETIME ENDURANCE

Natural limestone has endured through the ages as a popular building material in locales across the world. Now the beauty and extensive color variations found in the original is recreated in ETERNAL LIMESTONES, Ragno USA's newest Color Body porcelain. Next-level digital print technology imitates the distinctive intricacies of Crema Europa, Jura and Lagos Blue limestones with such a high level of accuracy that it is difficult to distinguish the natural stone from the porcelain tile.

## LIMITLESS POSSIBILITIES

Clean, rectified edges accommodate narrower grout joints which give the illusion of an uninterrupted honed surface with few visual breaks. Natural limestone is characterized by pits, fossils and dry seams that require filling (and potentially, re-filling, over time); low abrasion resistance ratings; and rigorous, often professional, maintenance routines. Conversely, ETERNAL LIMESTONES has a Class 4 rating and an ADA-recognized coefficient of friction of  $> 0.60$ , cove base trims and minimal maintenance requirements, making it ideal for not only residential but also commercial floor and wall spaces.









## EXPANDING DESIGN

Creative customization is easy with five large-format square and plank sizes plus four unique mosaic options. All these choices – colors, sizes, mosaics – free the imagination to craft personal design statements with the feel of authentic limestone.

# ETERNAL LIMESTONES

| COLOR BODY PORCELAIN TILE

**R** Rectified Tile

**3D** 3d Printing Technique

- 20" x 20" Rectified
- 12" x 24" Rectified
- 13" x 13" Rectified
- 6" x 24" Rectified
- 3 1/4" x 6 1/2" Rectified



**AL26 Limestone AN**  
20"x20" Rectified



**AL29 Limestone AN**  
13"x13" Rectified



**AL25 Limestone BI**  
20"x20" Rectified



**AL28 Limestone BI**  
13"x13" Rectified



**AL23 Limestone AN**  
12"x24" Rectified



**AL2C Limestone AN**  
6"x24" Rectified



**AL2F Limestone AN**  
3 1/4"x6 1/2" Rectified



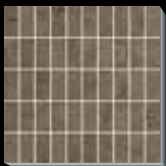
**AL22 Limestone BI**  
12"x24" Rectified



**AL2B Limestone BI**  
6"x24" Rectified



**AL2E Limestone BI**  
3 1/4"x6 1/2" Rectified



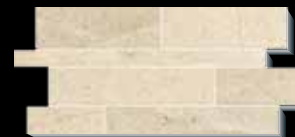
**AL2W Limestone AN**  
Mosaic 1 1/4"x2 1/2"  
13"x13"



**AL2Z Limestone AN**  
Strip Mosaic  
12"x24"



**AL2V Limestone BI**  
Mosaic 1 1/4"x2 1/2"  
13"x13"



**AL2Y Limestone BI**  
Strip Mosaic  
12"x24"

20" x 20" Rectified  
 12" x 24" Rectified  
 13" x 13" Rectified  
 6" x 24" Rectified  
 3<sup>1</sup>/<sub>4</sub>" x 6<sup>1</sup>/<sub>2</sub>" Rectified



DECORATIVE OPTIONS



AL36 Grecian  
 Metallic Deco  
 2"x13"



AL33 Limestone MC  
 Mixed Mosaic  
 13"x13"



AL27 Limestone BG  
 20"x20" Rectified



AL2A Limestone BG  
 13"x13" Rectified



AL24 Limestone BG  
 12"x24" Rectified



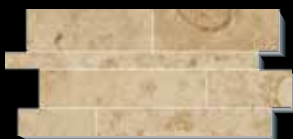
AL2D Limestone BG  
 6"x24" Rectified



AL2G Limestone BG  
 3<sup>1</sup>/<sub>4</sub>" x 6<sup>1</sup>/<sub>2</sub>" Rectified



AL2X Limestone BG  
 Mosaic 1<sup>1</sup>/<sub>4</sub>" x 2<sup>1</sup>/<sub>2</sub>"  
 13"x13"

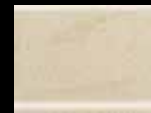


AL32 Limestone BG  
 Strip Mosaic  
 12"x24"

TRIMS



AL2J Limestone AN Bullnose  
 AL2K Limestone AG Bullnose  
 AL2H Limestone BI Bullnose  
 3"x13"



AL2M Limestone AN Cove Base  
 AL2N Limestone BG Cove Base  
 AL2L Limestone BI Cove Base  
 6"x13"



AL2T Limestone AN Cove Base Out Angle  
 AL2U Limestone BG Cove Base Out Angle  
 AL2S Limestone BI Cove Base Out Angle  
 1"x6"



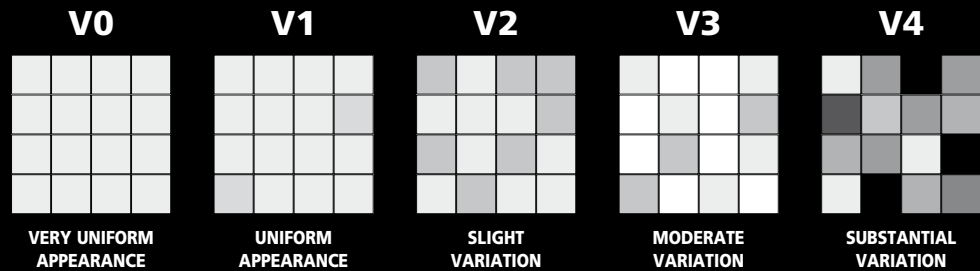
AL2Q Limestone AN Cove Base In Angle  
 AL2R Limestone BG Cove Base In Angle  
 AL2P Limestone BI Cove Base In Angle  
 1"x6"

## SHADE VARIATIONS

The color and shade of all tiles vary to some degree. This variance can be from piece to piece and can also occur from production run to production run.

American National Standard Specifications for Ceramic Tile (ANSI) has implemented a guide that rates ceramic tile on a five-point scale and ranges from V0 through V4.

Instituting the ANSI's color shade variation guidelines you will reduce customer complaints and sell the unique and individual beauty of each ceramic tile.



### V0 Very Uniform Appearance

Pieces of the same shade value are very uniform and smooth in texture.

### V1 Uniform Appearance

Differences among pieces from the same production run are minimal.

### V2 Slight Variation

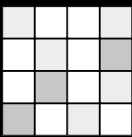
Clearly Distinguishable differences in texture and/or pattern within similar colors.

### V3 Moderate Variation

While the colors and/or texture present on a single piece of tile will be indicative of the colors and/or texture to be expected on the other tiles, the amount of colors and/or texture on each piece may vary significantly. It is recommended that the range be viewed before selection.

### V4 Substantial Variation

Random color and/or texture differences from tile to tile, so that one tile may have totally different colors and/or texture from that on other tiles. Thus, the final installation will be unique. It is recommended that the range be viewed before selection.

SHADE VARIATION AND APPLICATIONS			
V3	Residential	Commercial	Industrial
 MODERATE VARIATION	Floor	•	•
	Wall	•	•
	Countertop	•	•
	Pool	•	•

Water, oil, grease, or other fluids create slippery conditions. Floors with exposure to these conditions require extra caution in product selection and proper maintenance.

## CARE & MAINTENANCE

Eternal Limestones is a stain-resistant porcelain tile. Routine maintenance will keep your tile looking new for years to come.

Ragno USA's products are typically easy to install and maintain using the following general guidelines:

- Choose tile from same dye lot and caliber whenever possible
- Select tile alternately from several boxes and rotate when installing
- Follow industry-accepted installation practices as detailed by Tile Council of America "Handbook for Ceramic Tile Installation" or those recommended by the Ceramic Tile Institute of America
- Remove all grout residue promptly after application; neither acid cleaning nor sealing is recommended
- Clean regularly with clear water and/or a neutral (soapless) cleaner, wipe dry to lessen slippery conditions

## TECHNICAL SPECIFICATIONS

DESCRIPTION	ANSI STANDARD	RESULT	ASTM TEST METHOD
Water Absorption	≤ 0.50%	≤ 0.50%	C373
Frost Resistance	As Reported	Resistant	C1026
Scratch Resistance	MOHS 1-10	7	MOHS SCALE
Breaking Strength	20" x 20"	≥ 250 lbf.	≥ 700 lbf. C648
	12" x 24"	≥ 250 lbf.	≥ 806 lbf. C648
	13" x 13"	≥ 250 lbf.	≥ 535 lbf. C648
Facial Dimension	-3.0 % ≤ Nominal ≤ 2.0 %	Within Standard	C499
Thickness	≤ 0.04 in (1.02 mm max)	Within Standard	C499
Wedging (Squareness)	+/- 0.25 % or +/- 0.8 mm*	Within Standard	C502
Warpage Edge (Flatness)	+/- 0.40 % or +/- 1.3 mm*	Within Standard	C485
Class (PEI)	Class 0 - Class V	Class IV	C1027
C.O.F. (Wet)	As Reported	0.60 ≤ COF < 0.70	C1028
C.O.F. (Dry)	As Reported	0.70 ≤ COF < 0.80	C1028
Chemical Resistance	Class A - Class E	Class A	C650
Stain Resistance	Class A - Class E	Class A	C1378

\* Whichever is less

## PACKAGING

	SIZE	THICKNESS	BOX			PALLET		
			PCS	SQ FT	LBS	BOXES	SQ FT	LBS
Floor Tile	3 1/4" x 6 1/2" R	5/16"	72	10.55	42.00	51	538.05	2142.00
Floor Tile	13" x 13" R	5/16"	13	15.52	58.00	44	682.88	2552.00
Floor Tile	6" x 24" R	7/16"	10	9.46	55.00	40	378.40	2200.00
Floor Tile	12" x 24" R	7/16"	05	9.69	55.00	40	387.60	2200.00
Floor Tile	20" x 20" R	7/16"	06	16.15	84.00	24	387.60	2016.00
Mosaic 1 1/4" x 2 1/2"	13" x 13"	Compatible	10		39.00			
Mosaic Mix	13" x 13"	Compatible	10		39.00			
Strip Mosaic	12" x 24"	Compatible	04		41.00			
Metallic Deco	2" x 13"	Compatible	06		3.00			
Bullnose*	3" x 13"	Compatible	20		21.00			

\* Trim is available in all colors and made to complement Floor Tile.



Floor Tile



Wall Tile



Modular Tile



3d Printing Technique



Rectified Tile



Decorative Tile



Trim Available



Suitable for Outdoors



Moderate Variation



Frost Resistant



Meets ADA Recommendations



Abrasion Resistance



C.O.F. (Wet)



C.O.F. (Dry)



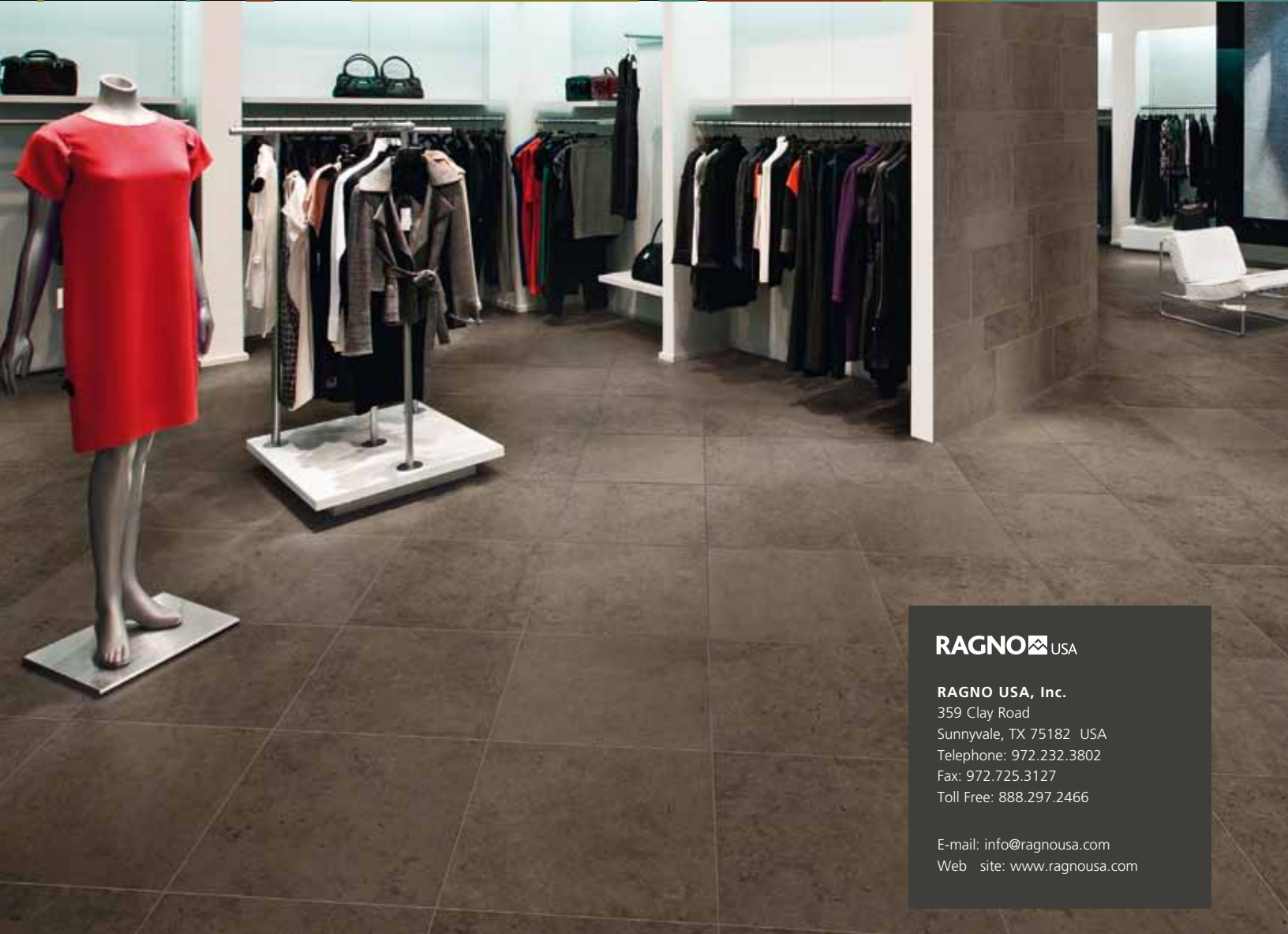
21% Minimum Pre-Consumer Recycled Content



Certified No VOC



Contributes to LEED Credits



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