







CLEFTSTONE NE



CLEFTSTONE proposes all the timeless beauty and elegance of bright, light or dark colored natural stone in a practical new version. The technology used is that of fully vitrified stoneware, meaning the product is highly resistant to abrasion from pedestrian traffic, making it the trouble-free solution for residential areas as well as commercial settings subject to limited traffic.



A modern living room with large windows overlooking a body of water and a city skyline. The room features a large white sofa, a fireplace with a stone surround, and a coffee table. The floor is covered in large, square, light brown tiles. The text "CLEFTSTONE MT" is overlaid on the image.

CLEFTSTONE MT



# CLEFTSTONE GLAZED PORCELAIN STONEWARE

20"x20"  
13"x13"  
6 1/2"x6 1/2"



**92D1** Cleftstone BI  
20"x20"  
**91S1** Cleftstone BI  
13"x13"  
**91T5** Cleftstone BI  
6 1/2"x6 1/2"



**92D0** Cleftstone BG  
20"x20"  
**91S0** Cleftstone BG  
13"x13"  
**91T4** Cleftstone BG  
6 1/2"x6 1/2"



**92C8** Cleftstone GI  
20"x20"  
**91R8** Cleftstone GI  
13"x13"  
**91T2** Cleftstone GI  
6 1/2"x6 1/2"



**92C7** Cleftstone MT  
20"x20"  
**91R7** Cleftstone MT  
13"x13"  
**91T1** Cleftstone MT  
6 1/2"x6 1/2"



**92C6** Cleftstone VE  
20"x20"  
**91R6** Cleftstone VE  
13"x13"  
**91T0** Cleftstone VE  
6 1/2"x6 1/2"



**92C5** Cleftstone NE  
20"x20"  
**91R5** Cleftstone NE  
13"x13"  
**91S9** Cleftstone NE  
6 1/2"x6 1/2"



**AJ4T** Cleftstone MT  
Mosaic - Square 2"x2"  
13"x13"



**AJ4U** Cleftstone VE  
Mosaic - Square 2"x2"  
13"x13"



**AJ4V** Cleftstone NE  
Mosaic - Square 2"x2"  
13"x13"



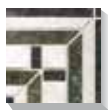
**91Z7** Riverstone RED  
Freccia  
6 1/2"x13"



**91Z6** Riverstone GREEN  
Freccia  
6 1/2"x13"



**91Z9** Riverstone RED  
Freccia Corner  
6 1/2"x6 1/2"



**91Z8** Riverstone GREEN  
Freccia Corner  
6 1/2"x6 1/2"

## TRIMS



**93N5** Stone BI V-Cap  
**93N4** Stone BG V-Cap  
**93N3** Stone GI V-Cap  
**93N2** Stone MT V-Cap  
**93N1** Stone VE V-Cap  
**93N0** Stone NE V-Cap  
2 1/4"x13"



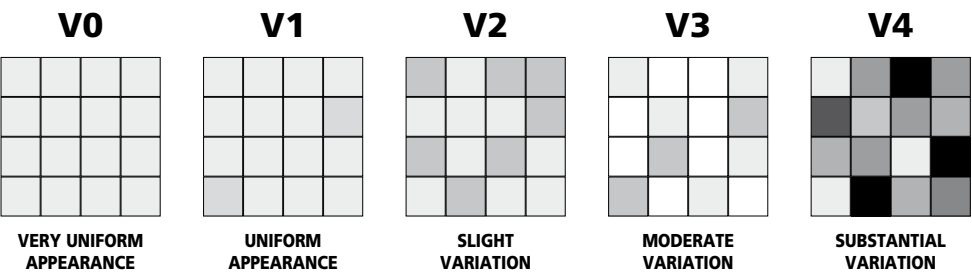
**91S8** Stone BI Bullnose  
**91S7** Stone BG Bullnose  
**91S5** Stone GI Bullnose  
**91S4** Stone MT Bullnose  
**91S3** Stone VE Bullnose  
**91S2** Stone NE Bullnose  
3"x13"

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.



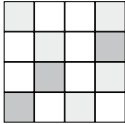
**V0 Very Uniform Appearance**  
Pieces of the same shade value are very uniform and smooth in texture.

**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				
<div><b>V3</b>  <b>MODERATE VARIATION</b></div>		Residential	Commercial	Industrial
	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

Cleftstone 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	$\leq 0.50\%$	$\leq 0.50\%$	C373
Frost Resistance	As Reported	Resistant	C1026
Scratch Resistance	MOHS 1-10	7	MOHS SCALE
Breaking Strength	20"x20"	$\geq 250$ lbf.	$\geq 605$ lbf.
	13"x13"	$\geq 250$ lbf.	$\geq 635$ lbf.
Facial Dimension	-3.0 % < Nominal < 3.0 %	Within Standard	C499
Thickness	$\leq 0.04$ in (1.02 mm max)	Within Standard	C499
Wedging (Squareness)	+/- 0.50 % or +/- 2.0 mm*	Within Standard	C502
Warpage (Flatness)	+/- 0.75 % or +/- 2.3 mm*	Within Standard	C485
Abrasion Resistance	Class 0 - Class V	Class IV	C1027
C.O.F. (Wet)	As Reported	$0.60 \leq \text{COF} < 0.70$	C1028
C.O.F. (Dry)	As Reported	$0.70 \leq \text{COF} < 0.80$	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	20"x20"	7/16"	06	16.15	80.00	24	387.60	1920.00
Floor Tile	13"x13"	5/16"	13	15.52	59.00	44	682.88	2596.00
Floor Tile	6 1/2"x6 1/2"	5/16"	36	10.55	42.00	51	538.05	2131.00
Mosaic - Square 2"x2"	13"x13"	Compatible	10		39.00			
Freccia	6 1/2"x13"	Compatible	06		17.00			
Freccia Corner	6 1/2"x6 1/2"	Compatible	04		6.00			
V-Cap	2 1/4"x13"	Compatible	06		5.00			
Bullnose	3"x13"	Compatible	20		26.00			



Floor Tile



Wall Tile



Modular 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)



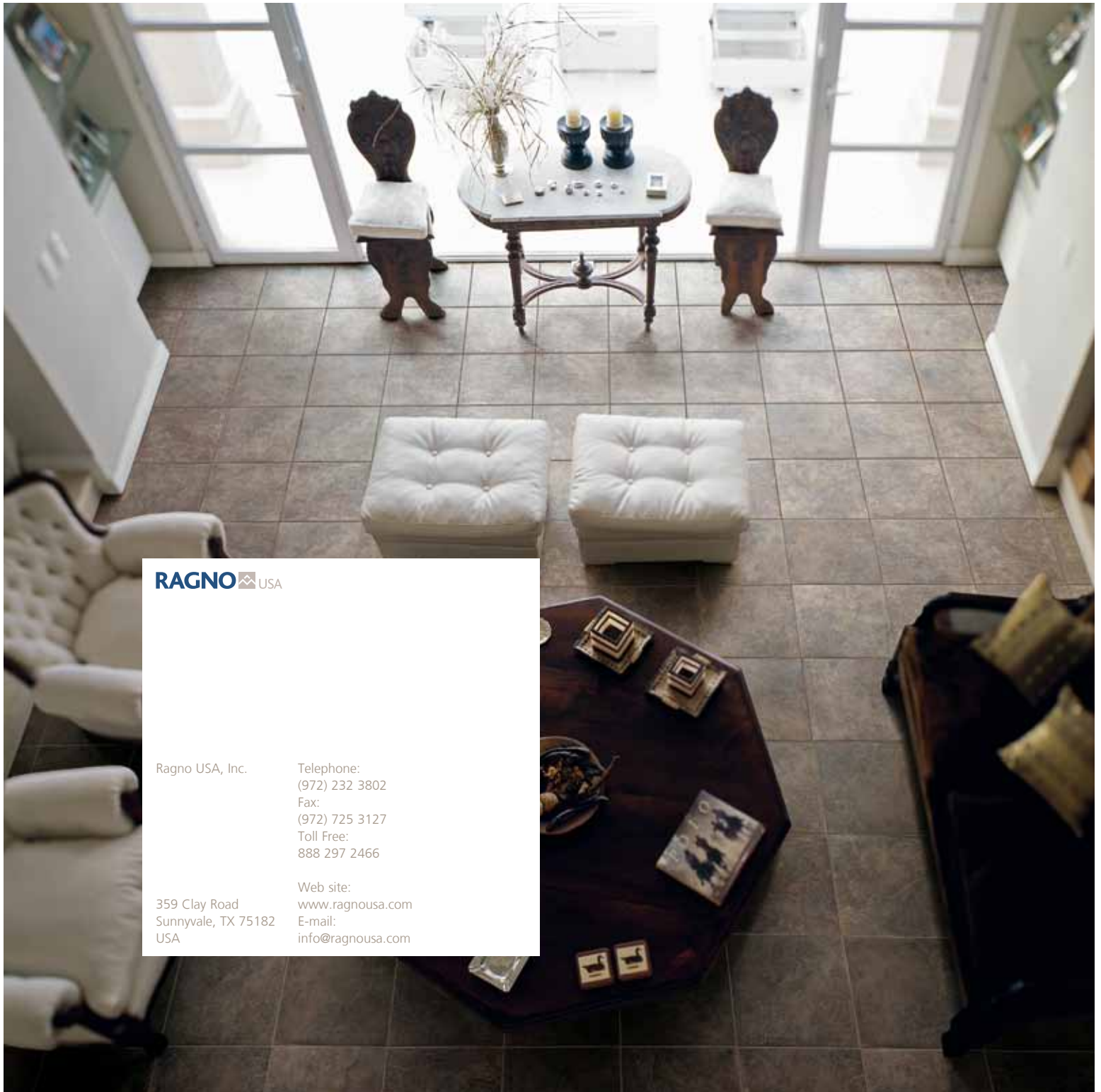
21% Minimum Pre-Consumer Recycled Content



Certified No VOC



Contributes to  
LEED Credits



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