



CLEFTSTONE
GLAZED PORCELAIN STONEWARE



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.



CLEFTSTONE MT





CLEFTSTONE BI



CLEFTSTONE BG





CLEFTSTONE GI



CLEFTSTONE MT



CLEFTSTONE VE



CLEFTSTONE NE



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



93M9 Stone BI V-Cap Corner
93M8 Stone BG V-Cap Corner
93M7 Stone GI V-Cap Corner
93M6 Stone MT V-Cap Corner
93M5 Stone VE V-Cap Corner
93M4 Stone NE V-Cap Corner
1 3/4"x2 1/4"



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"



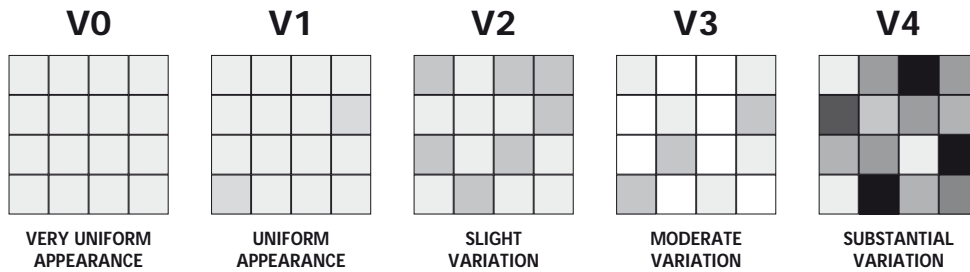
91S8 Stone BI Bullnose
91S7 Stone BG Bullnose
91S5 Stone GI Bullnose
91S4 Stone MT Bullnose
91S3 Stone VE Bullnose
91S2 Stone NE Bullnose
3"x13"

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.

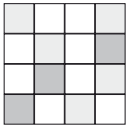
V3 Moderate Variation

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

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

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	≤ 0.50%	≤ 0.50%	C373	
Frost Resistance	As Reported	Resistant	C1026	
Scratch Resistance	MOHS 1-10	7	MOHS SCALE	
Breaking Strength	20"x20"	≥ 250 lbf.	≥ 605 lbf.	C648
	13"x13"	≥ 250 lbf.	≥ 635 lbf.	C648
Facial Dimension	-3.0 % < Nominal < 3.0 %	Within Standard	C499	
Thickness	≤ 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 ≤ 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	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			
V-Cap Corner	1 ^{3/4} "x2 ^{1/4} "	Compatible	04		1.00			
Bullnose	3"x13"	Compatible	20		26.00			



Floor Tile



Wall Tile



Abrasion Resistance



C.O.F. (Wet)



C.O.F. (Dry)



Modular Tile



Decorative Tile



Moderate Variation



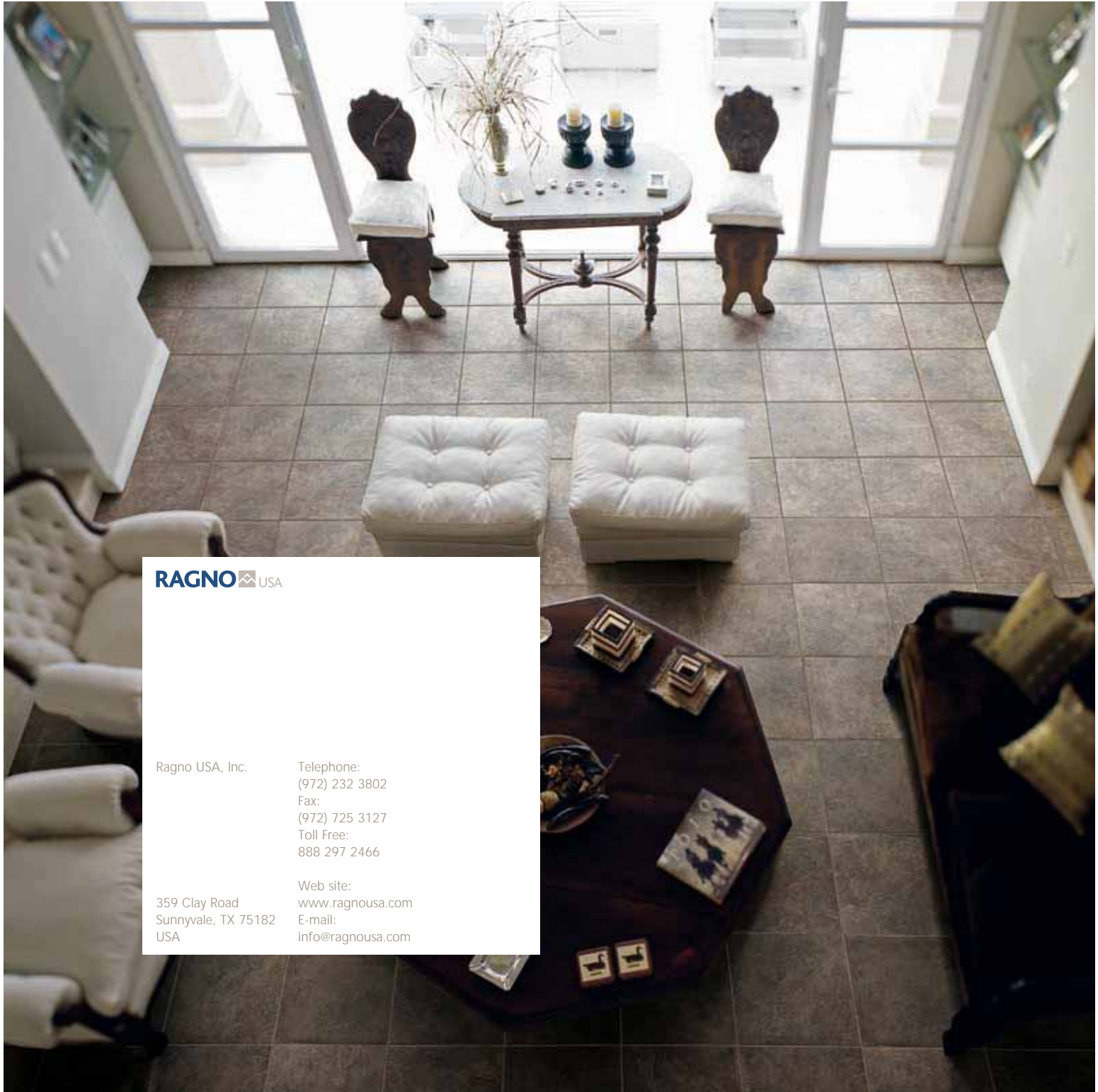
Trim Available



Frost Resistant



Meets ADA Recommendations



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