

# STONE USAGE GUIDE

IMAGINE WHAT'S POSSIBLE™

Photo features Raine™ Stratus White  
Blend Arabesque Mosaic

 daltile®

## STONE USAGE GUIDE

To assist in deciding whether a specific stone is appropriate for certain uses, the coding system below was developed and corresponds with the charts on the following pages for all available natural stone.

### Special Notes

- Not recommended in wet areas.
- ◆ Can be used in interior wet wall areas, if sealed and maintained properly. If not properly maintained, the stone look could be altered. Please contact your sealer manufacturer or your Daltille sales representative for information about products that can protect the stone from moisture exposure.
- ▼ Might contain dry seams, pits, fossils and glass veins that are filled at the factory or during installation. These are all inherent characteristics of the stone. Since these voids can sometimes lose their fillings, they should be refilled as part of normal maintenance.
- A sealer is recommended. (Note: Some stones, such as limestone and tumbled stone among others, should be sealed prior to grouting.)
- This mosaic has pieces of natural stone and crackled ceramic/porcelain, seal the entire mosaic including the crackled ceramic and porcelain prior to grouting to prevent the grout from staining the mosaic.
- ✘ These stones contain deposits of minerals and iron that may react to moisture. Stone bleeding or rusting is a common example of this. These stones should not be used in installations where they would be exposed to standing, run-off water or too much humidity. A sealer is strongly recommended but will not prevent the chemical reaction from happening. Contact your sealer manufacturer or Daltille sales representative for information about products that can protect the stone from moisture exposure.
- \* White setting materials are recommended.
- ◆ Install with a non-staining epoxy. Do not use any water-based setting material with these stones.
- ◆ Not recommended for shower floors.
- Medium bed mortar is required for tiles with at least one side greater than 15".
- + These stones may change color over time if exposed to direct sunlight.
- ⚙ Use a temporary water soluble grout release during installation.
- ▲ The slip resistance of natural stone tiles vary. Caution should be used in determining if the selected stone will be sufficiently slip resistant for exterior use.
- ♣ Refer to the "Special Limestone Installation Guide".

### COLOR VARIATIONS

- L **Low:** Background color is relatively uniform.
- M **Medium:** Background color contains slight variations.
- H **High:** Background color contains distinct variations.
- R **Random:** Variegated in color and veining. Blending allowances during installation are strongly recommended.

### CONDITIONS OF PURCHASE

Natural stone products inherently lack uniformity and are subject to variation in aesthetics (color, shade, finish, etc.) and performance (hardness, strength, slip resistance, etc.). Natural stone products do not meet minimum coefficient of friction thresholds recommended by safety standard setting organizations. No warranties, expressed or implied, relative to merchantability or fitness for a particular purpose are made regarding the natural stone products distributed by Daltille. Check local building codes prior to specification or installation to verify that product technical characteristics comply with required parameters.

**NOTE:** The existence and dimensions of a bevel may vary from lot to lot. Be sure to request a sample of the specific lot you are planning to order, if the bevel is an important feature for your job.

## EXTERIOR USAGE

- ☀ Suitable for uncovered exterior floor and wall applications in freezing and non-freezing climates.
- ☀ Suitable for uncovered exterior wall applications in freezing and non-freezing climates.
- ☀ Suitable for uncovered exterior floor and wall applications in non-freezing climates only.
- ☀ Suitable for uncovered exterior wall applications in non-freezing climates only.
- EF Suitable for covered\* exterior floors in freezing and non-freezing climates.
- EW Suitable for covered\* exterior walls in freezing and non-freezing climates.
- SF Suitable for covered\* exterior floors in non-freezing climates only.
- SW Suitable for covered\* exterior walls in non-freezing climates only.
- N/A Not recommended for exterior applications.

\*Covered implies an area protected from the elements.

Natural stone products are not recommended for any wet areas where they may be exposed to chemicals such as waterlines and pools, or to extreme humidity and heat, such as steam rooms, among others.

## DURABILITY (FLOOR)

N/A not recommended for floor use.

- 1 **Residential:** Suitable for residential use. Not recommended for commercial areas.
- 2 **Medium/Light Commercial:** Suitable for light commercial and residential use.
- 3 **Heavy Commercial:** Suitable for most commercial and/or high traffic areas.

**NOTE:** Polished surfaces are not recommended for floor areas where slip resistance is a concern. Our durability recommendations are only based on the technical characteristics of the stones, however, slip resistance shall still be taken into consideration when selecting the product for a specific application. Natural stone products do not meet minimum coefficient of friction thresholds recommended by safety standard setting organizations.

## SOUNDNESS

**Group A:** Sound stones with no geological voids or fissures. These stones do not require any filling or patching.

**Group B:** Similar to Group A, but geological imperfections could be evident. These stones may contain holes or voids, which are filled with epoxy or resin.

**Group C:** These stones may contain holes, voids, lines of separation and structural flaws. It is standard practice to repair these stones by filling them or reinforcing them.

**Group D:** Similar to Group C but these stones contain larger natural faults and require more refinishing over time.

Soundness is meant to help classify denser stones (Group A and B) from more fragile stones (Group C and D). Stones classified under Groups C and D may require additional fabrication before, during or after installation as part of regular maintenance.

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Color #	Finish	Size/Thickness	Recommended Grout Joint	Durability Floor	Soundness	Variation	Exterior Residential Usage	Exterior Commercial Usage	Country of Origin	Country of Manufacture	Special Notes
<b>CENTER CITY™</b>											
Arch Grey M323 Marble	Polished	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◀
Arch Grey M323 Marble	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◀
Arch Grey M323 Linear Mosaic Marble	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ◀
Carlton Beige L012 Limestone	Polished	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	2	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◀
Carlton Beige L012 Limestone	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	2	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◀
Carlton Beige L012 Linear Mosaic Limestone	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ◀
Chadwick Charcoal L015 Limestone	Flamed & Brushed	4"x12"x1/2", 12"x24"x1/2", 24"x24"x1/2", 8"xFree Length Patternx1/2"	1/16"	3	A	M	⊕	⊕	Spain	Spain	◆ ▼ ● ♣ ◀
Chadwick Charcoal L015 Limestone	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx1/2"	1/16"	3	A	M	⊕	⊕	Spain	Spain	◀ ◆ ▼ ● ♣ ◀
Chadwick Charcoal L015 Linear Mosaic Limestone	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	A	M	⊕	⊕	Spain	China	◆ ▼ ● ♣ ✦ ◀
Delancey Grey M322 Marble	Polished	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◀
Delancey Grey M322 Marble	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◀
Delancey Grey M322 Linear Mosaic Marble	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ◀
<b>PARKSVILLE STONE™</b>											
Bengali Temple M321 Marble	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	C	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦ ◀
Bengali Temple M321 Marble	Polished	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8"	1/16"	3	C	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦ ◀
Bengali Temple M321 Mosaic Marble	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	C	R	EF/EW	EF/EW	China	China	◆ ▼ ● * ✦
Bengali Temple M321 Victorian Marble	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	C	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦ ◀
Denali Peak T195 Travertine	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8"	1/16"	2	C	R	⊕	⊕	Turkey	China	◀ ◆ ▼ ● * ✦ ◀
Denali Peak T195 Travertine	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	2	C	R	⊕	⊕	Turkey	China	◆ ▼ ● * ✦
Denali Peak T195 Victorian Travertine	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	2	C	R	⊕	⊕	Turkey	China	◀ ◆ ▼ ● * ✦ ◀
Kalahari Beige L010 Limestone	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	A	R	⊕	⊕	Portugal	Portugal	◆ ▼ ● * ✦ ◀
Kalahari Beige L010 Mosaic Limestone	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	A	R	⊕	⊕	Portugal	Portugal	◆ ▼ ● * ✦
Kalahari Beige L010 Victorian Limestone	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	A	R	⊕	⊕	Portugal	Portugal	◆ ▼ ● * ✦ ◀
Matterhorn L011 Limestone	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	A	R	SF/SW	SF/SW	Portugal	Portugal	◀ ◆ ▼ ● * ✦ ◀



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<b>PARKSVILLE STONE™ (continued)</b>											
Matterhorn L011 Limestone	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	A	R	SF/SW	SF/SW	Portugal	Portugal	◆ ▼ ● * ☼ ☾
Matterhorn L011 Victorian Limestone	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	A	R	SF/SW	SF/SW	Portugal	Portugal	◀ ◆ ▼ ● * ☼ ☾ ☼
Yukon White M320 Marble	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ☼ ☾ ☼
Yukon White M320 Marble	Polished	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ☼ ☾ ☼
Yukon White M320 Marble	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◆ ▼ ● * ☼
Yukon White M320 Victorian Marble	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ☼ ☾ ☼
<b>RAINE™</b>											
Cirrus Storm M018 Marble	Honed	3"x9"x3/8" & 12"x24"x3/8"	1/16"	3	B	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ☼ ☾ ☼
Cirrus Storm M018 Marble	Polished	3"x9"x3/8" & 12"x24"x3/8"	1/16"	3	B	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ☼ ☾ ☼
Cirrus Storm Blend DA32 2" Hexagon	Honed	2"x2"x3/8" (11-11/16"x11-7/8"x3/8" sheet)	1/8"	3	B	R	EF/EW	EF/EW	China	China	◆ ▼ ● * ☼
Cirrus Storm Blend DA33 Pebble	Tumbled	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	B	R	☼	☼	China	China	◆ ▼ ● * ☼
Cirrus Storm Blend DA35 Linear Random	Polished & Ceramic	Random Height x Random Length x 1/4" (11-3/4"x11-1/4"x1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	◆ ▼ ● * ☼ ☾
Cirrus Storm Blend DA38 Linked Ring	Honed	(13-5/8"x12-3/16"x3/8" sheet)	1/8"	2	B	R	EF/EW	EF/EW	China/ Italy/ Pakistan	China	◆ ▼ ● * ☼
Cirrus Storm Blend DA41 Arabesque	Polished & Ceramic	(13-3/8"x11-1/4"x3/8" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	◆ ▼ ● * ☼ ☾
Cumulus Grey M019 Marble	Honed	3"x9"x3/8" & 12"x24"x3/8"	1/16"	3	A	M	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ☼ ☾ ☼
Cumulus Grey M019 Marble	Polished	3"x9"x3/8" & 12"x24"x3/8"	1/16"	3	A	M	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ☼ ☾ ☼
Cumulus Grey M019 Marble 2" Hexagon	Honed	2"x2"x3/8" (11-11/16"x11-7/8"x3/8" sheet)	1/8"	3	A	M	EF/EW	EF/EW	China	China	◆ ▼ ● * ☼
Cumulus Grey Blend DA36 Linear Random	Polished & Ceramic	Random Height x Random Length x 1/4" (11-3/4"x11-1/4"x1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	◆ ▼ ● * ☼ ☾
Cumulus Grey Blend DA39 Linked Ring	Honed	(13-5/8"x12-3/16"x3/8" sheet)	1/8"	2	A	R	EF/EW	EF/EW	Indonesia/ China/ Tunisia	China	◆ ▼ ● * ☼
Cumulus Grey Blend DA42 Arabesque	Polished & Ceramic	(13-3/8"x11-1/4"x3/8" sheet)	1/8"	N/A	A	R	N/A	N/A	China	China	◆ ▼ ● * ☼ ☾
Cumulus Grey Blend DA52 Pebble	Tumbled	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	A	R	☼	☼	China	China	◆ ▼ ● * ☼
Stratus White M017 Marble	Honed	3"x9"x3/8" & 12"x24"x3/8"	1/16"	3	B	R	N/A	N/A	Greece	Greece	◀ ◆ ▼ ● * ☼ ☾ ☼
Stratus White M017 Marble	Polished	3"x9"x3/8" & 12"x24"x3/8"	1/16"	3	B	R	N/A	N/A	Greece	Greece	◀ ◆ ▼ ● * ☼ ☾ ☼
Stratus White M017 Marble 2" Hexagon	Honed	2"x2"x3/8" (11-11/16"x11-7/8"x3/8" sheet)	1/8"	3	B	R	N/A	N/A	Greece	China	◆ ▼ ● * ☼
Stratus White M017 Marble Pebble	Tumbled	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	B	R	N/A	N/A	Greece	China	◆ ▼ ● * ☼
Stratus White Blend DA34 Linear Random	Polished & Ceramic	Random Height x Random Length x 1/4" (11-3/4"x11-1/4"x1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	Greece	China	◆ ▼ ● * ☼ ☾

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<b>RAINE™ (continued)</b>											
Stratus White Blend DA37 Linked Ring	Honed	(13-5/8"x12-3/16"x3/8" sheet)	1/8"	2	B	R	EF/EW	EF/EW	Greece/China/Tunisia	China	◆ ▼ ● *
Stratus White Blend DA40 Arabesque	Polished & Ceramic	(13-3/8"x11-1/4"x3/8" sheet)	1/8"	N/A	B	R	N/A	N/A	Greece	China	◆ ▼ ● * ✦
<b>MARBLE</b>											
Antico Scuro M049	Polished	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	H	EW/SF	EW/SF	Pakistan	China	◀ ◆ ▼ ● * ✦ ◌
Antico Scuro M049	Honed	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	H	EW/SF	EW/SF	Pakistan	China	◀ ◆ ▼ ● * ✦ ◌
Antico Scuro M049 Ingot	Polished	4"x6"x3/8" (11"x12-5/8" x3/8" sheet)	1/8"	3	A	H	EW/SF	EW/SF	Pakistan	China	◀ ◆ ▼ ● * ✦
Antico Scuro M049 Raked	Scraped	4"x19-5/8"x5/8"	N/A - As needed	N/A	A	H	EW	EW	Pakistan	China	◆ ▼ ● * ✦
Antico Scuro M049 Wedge	Honed, Saw Cut & Sand Blasted	4-3/4"x23-13/16"x1/4" to 1/2" sheet	N/A - As needed	N/A	A	H	EW	EW	Pakistan	China	◆ ▼ ● * ✦
Arch Grey M323 Marble	Polished	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◌
Arch Grey M323 Marble	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◌
Arch Grey M323 Linear Mosaic Marble	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦
Bengali Temple M321 Marble	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	C	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦ ◌
Bengali Temple M321 Marble	Polished	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8"	1/16"	3	C	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦ ◌
Bengali Temple M321 Mosaic Marble	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	C	R	EF/EW	EF/EW	China	China	◆ ▼ ● * ✦
Bengali Temple M321 Victorian Marble	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	C	R	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦
Black/White M753 6" Hexagon	Polished	6"x6"x3/8" (10-1/4" x 11-7/8" x 3/8" sheet)	1/8"	2	A	M	⊕	⊕	Italy	China	◀ ◆ ▼ ● * ✦ ✖
Black/White M753 Blend Modern Linear	Polished, Honed, & Scraped	11-3/4" x 11-1/4" x 3/8"	1/8"	N/A	A	M	⊕	⊕	Italy	China	◀ ◆ ▼ ● * ✦ ✖
Botticino Fiorito M704	Polished	18"x18"x3/8", 12"x12"x3/8", 12" x 24" x 3/8"	1/16"	3	C	M	⊕	⊕	Italy	Italy	◀ ◆ ▼ ● * ✦ ◌
Calacatta Gold M475	Polished	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	B	M	EF/EW	EF/EW	Italy	Italy	◀ ◆ ▼ ● * ✦ ◌ ✖
Calacatta Gold M475	Honed	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	B	M	EF/EW	EF/EW	Italy	Italy	◀ ◆ ▼ ● * ✦ ◌ ✖
Carrara Gioia M702	Polished	12"x12"x3/8"	1/16"	3	A	M	EF/EW	EF/EW	Italy	Italy	◀ ◆ ▼ ● * ✦ ✖
Carrara White M701	Polished	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8", 18" x 20-3/4" x 3/8" Hexagon	1/16"	3	A	M	EF/EW	EF/EW	Italy	Italy	◀ ◆ ▼ ● * ✦ ◌ ✖
Carrara White M701	Honed	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	A	M	EF/EW	EF/EW	Italy	Italy	◀ ◆ ▼ ● * ✦ ◌ ✖
Carrara White M701	Polished	3"x6"x3/8"	1/16"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✦ ✖
Carrara White M701	Honed	3"x6"x3/8"	1/16"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✦ ✖
Carrara White M701 1" x Random	Polished, Honed & Sand Blasted	1"x Random (12"x12" sheet)	As needed	3	A	M	EW	EW	Italy	China	◆ ▼ ● * ✦ ✖

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<b>MARBLE (continued)</b>											
Carrara White M701 2" Hexagon	Polished	2"x2"x3/8" (13"x12-1/2" sheet)	1/8"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✖
Carrara White M701 6" Hexagon	Polished	6" x 6" x 3/8" (10-1/4" x 11-7/8" x 3/8" sheet)	1/8"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✖
Carrara White M701 Abstract	Polished	1" & 2"x 3" x3/8" (12"x12" sheet)	1/8"	3	A	M	EW	EW	Italy	China	◆ ▼ ● * ✖
Carrara White M701 Baroque	Polished	3"x3"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✖
Carrara White M701 Cladding	Polished	2"x3/8"x 1/4"to 1/2" (12"x13" sheet)	As needed	N/A	A	M	EW	EW	Italy	China	◆ ▼ ● * ✖
Carrara White M701 Marquise	Polished	3"x1-1/2"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✖
Carrara White M701 Modern	Polished	Irregular shape x 3/8" (12"x12" sheet)	1/8"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✖
Carrara White M701 Modern Linear	Polished, Honed, & Scraped	11-3/4" x 11-1/4" x 3/8"	1/8"	N/A	A	M	EW	EW	Italy	China	◆ ▼ ● * ✖
Carrara White M701 Oval	Polished	1-1/2"x5/8"x3/8" (12"x12-1/2" sheet)	1/16"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✖
Carrara White M701 Triangle	Polished	2-3/4"x2-1/2"x3/8 Triangle (11"x14" sheet)	1/8"	3	A	M	EF/EW	EF/EW	Italy	China	◀ ◆ ▼ ● * ✖
China Black M751	Polished	12"x12"x3/8"	1/16"	2	B	M	N/A	N/A	China	China	■ ▼ ● * ✖
Contempo White M313	Polished	12"x24"x3/8" & 12"x12"x3/8"	1/16"	1	A	M	N/A	N/A	Turkey	Turkey	◆ ▼ ● * ✖
Contempo White M313	Tumbled	4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	1	A	M	N/A	N/A	Turkey	Turkey	◆ ▼ ● * ✖
Contempo White M313	Polished	3"x6"x3/8"	1/16"	1	A	M	N/A	N/A	Turkey	Turkey	◆ ▼ ● * ✖
Contempo White M313	Honed	3"x6"x3/8"	1/16"	1	A	M	N/A	N/A	Turkey	Turkey	◆ ▼ ● * ✖
Contempo White M313 Wedge	Polished	2"x3"x3/8" (12"x13-3/8" sheet)	1/8"	1	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Contempo White M313 Linear	Polished	5-3/4"x1/2"x3/8" (12"x12" sheet)	1/8"	1	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Contempo White M313 Oval	Polished	1-1/2"x3/4"x3/8" (11-3/4"x12" sheet)	1/8"	1	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Contempo White M313 Mosaic	Polished	1/2"x1/2"x3/8" (12"x12" sheet)	1/8"	1	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Contempo White M313 High-Low Random	Polished & Honed	"2" High-Low Random x1/4",1/2",3/8" (11-3/8"x11-3/8" sheet)	As needed	N/A	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Contempo White M313 Basketweave	Honed	1-1/2"x3/4"x3/8" (12"x12" sheet)	As needed	N/A	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Contempo White M313 Random Brick-joint	Split Face	3/8" Random x3/8" (11"x11" sheet)	As needed	N/A	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Contempo White M313 High-Low	Split Face	3/4"x3/4"x1/4" to 1/2" (12"x12" sheet)	As needed	N/A	A	H	N/A	N/A	Greece	China	◆ ▼ ● * ✖
Crema Marfil Classico M722	Polished	18"x18"x1/2", 12"x12"x3/8", 12" x 24" x 3/8"	1/16"	2	C	M	EF/EW	EF/EW	Spain	Spain	◀ ◆ ▼ ● * ✖
Crema Marfil Classico M722	Honed	12"x12"x3/8" & 12" x 24" x 3/8"	1/16"	2	C	M	EF/EW	EF/EW	Spain	Spain	◀ ◆ ▼ ● * ✖
Crema Marfil Classico M722	Polished	3"x6"x3/8"	1/16"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● * ✖
Crema Marfil Classico M722	Honed	3"x6"x3/8"	1/16"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● * ✖
Crema Marfil Classico M722 Random	Polished,Honed & Split Face	3/8"x Random x 3/8" (12"x12" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ✖
Crema Marfil Classico M722	Split Face	1"x2"x1/2" (12"x12"sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ✖
Crema Marfil Classico M722	Tumbled	4"x4"x3/8"	1/8" to 3/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● * ✖
Crema Marfil Classico M722	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● * ✖
Crema Marfil Classico M722 1" x Random	Polished, Honed & Sand Blasted	1"x Random (12"x12" sheet)	As needed	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ✖

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<b>MARBLE (continued)</b>											
Crema Marfil Classico M722 2" Hexagon	Polished	2"x2"x3/8" (13"x12-1/2" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● *
Crema Marfil Classico M722 Abstract	Polished	1" & 2"x 3" x3/8" (12"x12" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● * ✦
Crema Marfil Classico M722 Baroque	Polished	3"x3"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● * ✦
Crema Marfil Classico M722 Marquise	Polished	3"x1-1/2"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● *
Crema Marfil Classico M722 Oval	Polished	1-1/2"x5/8"x3/8" (12"x12-1/2" sheet)	1/16"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● *
Crema Marfil Classico M722 Triangle	Polished	2-3/4"x2-1/2"x3/8" Triangle (11"x14" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ● *
Crema Marfil Elegance M721	Polished	18"x18"x1/2", 12"x12"x3/8" & 12" x 24" x3/8"	1/16"	2	C	M	EF/EW	EF/EW	Spain	Spain	◀ ◆ ▼ ● * ✦ ◂
Crema Marfil Elegance M721	Honed	12"x12"x3/8" & 12" x 24" x 3/8"	1/16"	2	C	M	EF/EW	EF/EW	Spain	Spain	◀ ◆ ▼ ● * ✦
Daphne White M103	Polished	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	A	H	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦ ◂ ✖
Daphne White M103	Honed	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	A	H	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● * ✦ ◂ ✖
Delancey Grey M322 Marble	Polished	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◂
Delancey Grey M322 Marble	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	3	B	M	SF/SW	SF/SW	China	China	◀ ◆ ▼ ● * ✦ ◂
Delancey Grey M322 Linear Mosaic Marble	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦
Emperador Dark M725	Polished	18"x18"x3/8" & 12"x12"x3/8"	1/16"	2	C	M	EW	EW	Spain	Spain	◀ ◆ ▼ ● * ✦ ◂ ✧
Emperador Dark M725	Polished	3"x6"x3/8"	1/16"	2	C	M	EW	EW	Spain	China	◀ ◆ ▼ ● * ✦
Emperador Dark M725 Random	Polished,Honed & Split Face	3/8"x Random x 3/8" (12"x12" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ✦
Emperador Dark M725 Split Face	Split Face	1"x2"x1/2" (12"x12" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ✦
Emperador Dark M725	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◀ ◆ ▼ ●
Emperador Light M712	Polished	18"x18"x5/8" & 12"x12"x3/8"	1/16"	2	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ✦ ◂
Emperador Light M712	Polished	3"x6"x3/8"	1/16"	2	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ✦
Emperador Light M712	Honed	3"x6"x3/8"	1/16"	2	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ✦
Emperador Light M712 Random	Polished,Honed & Split Face	3/8"x Random x 3/8" (12"x12" sheet)	As needed	N/A	B	H	EW	EW	Turkey	Turkey	◆ ▼ ● * ✦
Emperador Light M712	Split Face	1"x2"x1/2" (12"x12" sheet)	As needed	N/A	B	H	EW	EW	Turkey	Turkey	◆ ▼ ● * ✦
Emperador Light M712	Tumbled	12"x12"x3/8",6"x6"x3/8",4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	2	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ●
Emperador Light M712	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	2	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ●
Emperador Light M712 Basketweave	Polished	1"x1-7/8"x3/8" & 3/8"x3/8"x3/8" dots (12-3/4"x 12-3/4" sheet)	1/8"	2	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ✦
Empress Green M741	Polished	12"x12"x3/8"	1/16"	2	A	M	EW	EW	Taiwan	Taiwan	■ ▼ ● * ✦ ◂ ✖
Empyrean Ice M050	Polished	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	M	☼	☼	China	China	◀ ◆ ▼ ● * ✦ ◂
Empyrean Ice M050	Honed	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	M	☼	☼	China	China	◀ ◆ ▼ ● * ✦ ◂

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<b>MARBLE (continued)</b>											
Empyrean Ice M050 Ingot	Polished	4"x6"x3/8" (11"x12"-5/8" x3/8" sheet)	1/8"	3	A	M			China	China	
Empyrean Ice M050 Raked	Scraped	4"x19-5/8"x5/8"	N/A - As needed	N/A	A	M			China	China	
Empyrean Ice M050 Wedge	Honed, Saw Cut & Sand Blasted	4-3/4"x23-13/16"x1/4" to 1/2" sheet	N/A - As needed	N/A	A	M			China	China	
First Snow Elegance M190	Polished	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	A	H			China	China	
First Snow Elegance M190	Honed	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	A	H			China	China	
First Snow Elegance M190	Polished	3"x6"x3/8"	1/16"	3	A	H			China	China	
First Snow Elegance M190	Honed	3"x6"x3/8"	1/16"	3	A	H			China	China	
First Snow Elegance M190	Polished	1/2"x1"x3/8" (12"x12" sheet)	1/8"	3	A	H			China	China	
First Snow Elegance M190	Honed	1"x1"x3/8" (12"x12" sheet)	1/8"	3	A	H			China	China	
First Snow Elegance M190	Polished, Honed & Split Face	3/8"x Random x 3/8" (12"x12" sheet)	As needed	N/A	A	H			China	China	
First Snow Elegance M190	Split Face	1"x2"x1/2" (12"x12" sheet)	As needed	N/A	A	H			China	China	
First Snow Elegance M190	Tumbled	6"x6"x3/8", 4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	3	A	H			China	China	
First Snow Elegance M190	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	3	A	H			China	China	
First Snow Elegance M190 Lantern	Polished	2-1/2"x2-1/2"x3/8" (12-3/4"x11-1/4" sheet)	1/8"	3	A	H			China	China	
First Snow Elegance M190 Random Linear	Polished	Randomx3/8" (18"x11-12" sheet)	1/8"	3	A	H			China	China	
First Snow Elegance M190 Wave	Polished	Randomx3/8" (11-1/2"x12" sheet)	1/8"	3	A	H			China	China	
Havana Tan M104 Random Linear	Polished & Honed	Random height x random length x3/8" (12"x15" sheet)	1/8"	3	C	M	EF/EW	EF/EW	Turkey	Turkey	
Latte M047	Polished	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	H	EF/EW	EF/EW	Turkey	Turkey	
Latte M047	Honed	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	H	EF/EW	EF/EW	Turkey	Turkey	
Latte M047 Ingot	Polished	4"x6"x3/8" (11"x12"-5/8" x3/8" sheet)	1/8"	3	A	H	EF/EW	EF/EW	Turkey	China	
Latte M047 Raked	Scraped	4"x19-5/8"x5/8"	N/A - As needed	N/A	A	H	EW	EW	Turkey	China	
Latte M047 Wedge	Honed, Saw Cut & Sand Blasted	4-3/4"x23-13/16"x1/4" to 1/2" sheet	N/A - As needed	N/A	A	H	EW	EW	Turkey	China	
Meili Sand M106	Polished	12"x24"x1/2", 18"x18"x1/2" & 12"x12"x3/8"	1/16"	3	B	M	SF/SW	SF/SW	Turkey	Turkey	
Meili Sand M106	Honed	12"x24"x1/2", 18"x18"x1/2" & 12"x12"x3/8"	1/16"	3	B	M	SF/SW	SF/SW	Turkey	Turkey	
Meili Sand M106 Versailles Pattern	Leather & Brushed Edge	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (sold in pattern only)	1/16"	3	B	M	SF/SW	SF/SW	Turkey	Turkey	
Meili Sand M106 Lantern	Polished	2-1/2"x2-1/2"x3/8" (12-3/4"x11-1/4" sheet)	1/8"	3	B	M	SF/SW	SF/SW	Turkey	China	
Meili Sand M106 Random Linear	Polished	Randomx3/8" (18"x11-12" sheet)	1/8"	3	B	M	SF/SW	SF/SW	Turkey	China	



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<b>MARBLE (continued)</b>											
Meili Sand M106 Wave	Polished	Randomx3/8" (11-1/2"x12" sheet)	1/8"	3	B	M	SF/SW	SF/SW	Turkey	China	◀ ◆ ▼ ● * ✦
Phaedra Cream M107	Polished	12"x24"x1/2", 18"x18"x1/2" & 12"x12"x1/2"	1/16"	3	B	M	SF/SW	SF/SW	Turkey	Turkey	◀ ◆ ▼ ● * ✦ ✨
Phaedra Cream M107	Honed	12"x24"x1/2", 18"x18"x1/2" & 12"x12"x1/2"	1/16"	3	B	M	SF/SW	SF/SW	Turkey	Turkey	◀ ◆ ▼ ● * ✦ ✨
Phaedra Cream M107 Versailles Pattern	Leather & Brushed Edge	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (sold in pattern only)	1/16"	3	B	M	SF/SW	SF/SW	Turkey	Turkey	◀ ◆ ▼ ● * ✦ ✨
Rojo Alicante M724	Polished	12"x12"x3/8"	1/16"	2	C	H	EW	EW	Spain	Spain	◆ ▼ ● ✦ ✨
Silver Screen M744 (Vein-cut)	Honed	12"x24"x3/8"	1/16"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744 (Vein-cut)	Polished	8"x36"x3/8", 6"x36"x3/8"	1/16"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744 (Vein-cut)	Honed	8"x36"x3/8", 6"x36"x3/8"	1/16"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744	Polished	3"x6"x3/8"	1/16"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744	Honed	3"x6"x3/8"	1/16"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744 Brick-joint	Polished	1/2"x1"x3/8" (12"x12" sheet)	1/8"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744 Random	Polished,Honed & Split Face	3/8"x Random x 3/8" (12"x12"sheet)	As needed	N/A	A	H	EW	EW	China	China	◆ ▼ ● * ✦ ✨
Silver Screen M744	Split Face	1"x2"x1/2" (12"x12" sheet)	As needed	N/A	A	H	EW	EW	China	China	◆ ▼ ● * ✦ ✨
Silver Screen M744	Tumbled	6"x6"x3/8"	1/8" to 3/8"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744 (Vein-cut)	Tumbled	3"x6"x3/8"	1/8" to 3/8"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
Silver Screen M744	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	2	A	H	EW/SF	EW/SF	China	China	◀ ◆ ▼ ● * ✦ ✨
St.Laurent Oriental M408	Polished	12"x12"x3/8"	1/16"	1	A	M	SW	SW	China	China	◆ ▼ ● ✦ ✨
Stone River M315 (Vein-cut)	Polished	8"x36"x5/8", 6"x36"x5/8" & 12"x24"x5/8"	1/16"	3	B	M	Ⓢ	Ⓢ	Greece	Greece	◀ ◆ ▼ ● * ✦ ✨
Stormy Mist M048	Polished	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	H	Ⓢ	Ⓢ	China	China	◀ ◆ ▼ ● * ✦ ✨
Stormy Mist M048	Honed	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	H	Ⓢ	Ⓢ	China	China	◀ ◆ ▼ ● * ✦ ✨
Stormy Mist M048 Ingot	Polished	4"x6"x3/8" (11"x12-5/8" x3/8" sheet)	1/8"	3	A	H	Ⓢ	Ⓢ	China	China	◀ ◆ ▼ ● * ✦ ✨
Stormy Mist M048 Raked	Scraped	4"x19-5/8"x5/8"	N/A - As needed	N/A	A	H	Ⓢ	Ⓢ	China	China	◆ ▼ ● * ✦ ✨
Stormy Mist M048 Wedge	Honed, Saw Cut & Sand Blasted	4-3/4"x23-13/16"x1/4" to 1/2" sheet	N/A - As needed	N/A	A	H	Ⓢ	Ⓢ	China	China	◆ ▼ ● * ✦ ✨
Thassos White M420	Polished	12"x12"x3/8"	1/16"	2	A	L	EW	EW	Greece	Greece	◆ ▼ ● * ✦ ✨ ✖
Uptown Blend M314 Block Random	Polished	Block Random Blend x 3/8" (12"x12" sheet)	1/8"	1	C	L	SW	SW	China	China	◆ ▼ ● ✦ ✨
Urban Bluestone L222 Wedge	Polished	2"x3"x3/8" (12"x13-3/8" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● ✦ ✨
Urban Bluestone L222 Linear	Polished	5-3/4"x1/2"x3/8" (12"x12" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● ✦ ✨
Urban Bluestone L222 Oval	Polished	1-1/2"x3/4"x3/8" (11-3/4"x12" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● ✦ ✨
Urban Bluestone L222 Mosaic	Polished	1/2"x1/2"x3/8" (12"x12" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● ✦ ✨
Urban Bluestone L222 High-Low Random	Polished & Honed	2" High-Low Random x1/4",1/2",3/8" (11-3/8"x11-3/8" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● ✦ ✨
Urban Bluestone L222 Basketweave	Honed	1-1/2"x3/4"x3/8" (12"x12" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● ✦ ✨

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<b>MARBLE (continued)</b>											
Urban Bluestone L222 Random Brick-joint	Split Face	3/8" Random x3/8" (11"x11" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● ◆
Urban Bluestone L222 High-Low	Split Face	3/4"x3/4"x1/4" to 1/2" (12"x12" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● ◆
Venetian Calacatta M474	Polished	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474	Honed	12"x24"x3/8", 18"x18"x3/8" & 12"x12"x3/8"	1/16"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474	Polished	3"x6"x3/8"	1/16"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474	Honed	3"x6"x3/8"	1/16"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474	Polished	1"x1"x3/8" (12"x12" sheet)	1/8"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474	Honed	1"x1"x3/8" (12"x12" sheet)	1/8"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 1" x Random	Polished, Honed & Sand Blasted	1"x Random (12"x12" sheet)	As needed	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 2" Hexagon	Polished	2"x2"x3/8" (13"x12-1/2" sheet)	1/8"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 Random	Polished, Honed & Split Face	3/8"x Random x 3/8" (12"x12" sheet)	As needed	N/A	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 Baroque	Polished	3"x3"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 Brick-Joint	Polished	1/2"x1"x3/8" (12"x12" sheet)	1/8"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 Marquise	Polished	3"x1-1/2"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 Random Linear	Polished & Honed	Random height x random length x3/8" (12"x15" sheet)	1/8"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 Oval	Polished	1-1/2"x5/8"x3/8" (12"x12-1/2" sheet)	1/16"	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
Venetian Calacatta M474 River Pebble	Polished	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	A	H	⊕	⊕	China	China	◆ ▼ ● ◆ * ◆
White Cliffs M105	Polished	18"x18"x1/2", 12"x24"x5/8", 12"x12"x1/2" & 6"x18"x1/2"	1/16"	2	C	M	⊕	⊕	Turkey	Turkey	◆ ▼ ● ◆ * ◆
White Cliffs M105 Straight Joint	Polished	5/8"x4"x3/8" (12"x12" sheet)	1/8"	2	C	M	⊕	⊕	Turkey	Turkey	◆ ▼ ● ◆ * ◆
White Cliffs M105 Random Linear	Polished & Honed	Random height x random length x3/8" (12"x15" sheet)	1/8"	2	C	M	⊕	⊕	Turkey	Turkey	◆ ▼ ● ◆ * ◆
Yukon White M320 Marble	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◆ ▼ ● ◆ * ◆
Yukon White M320 Marble	Polished	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◆ ▼ ● ◆ * ◆
Yukon White M320 Marble	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◆ ▼ ● ◆ * ◆
Yukon White M320 Victorian Marble	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	A	R	EF/EW	EF/EW	Turkey	Turkey	◆ ▼ ● ◆ * ◆

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<b>TRAVERTINE</b>											
Baja Cream T720	Honed	16"x16"x3/8" & 12"x12"x3/8"	1/16"	2	C	M			Mexico	Mexico	
Baja Cream T720	Honed	3"x6"x3/8"	1/16"	2	C	M			Mexico	Mexico	
Baja Cream T720 Random	Polished,Honed & Split Face	3/8"x Random x 3/8" (12"x12" sheet)	As needed	N/A	C	M			Mexico	Mexico	
Baja Cream T720	Split Face	1"x2"x1/2" (12"x12" sheet)	As needed	N/A	C	M			Mexico	Mexico	
Baja Cream T720 Pebble Accent	Tumbled	Irregular shape X 3/8" (1 sq. ft. sheet)	As needed	2	C	M			Mexico	Mexico	
Baja Cream T720	Tumbled	12"x12"x3/8",6"x6"x3/8",4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	2	C	M			Mexico	Mexico	
Baja Cream T720	Tumbled	2"x2"x3/8" (12"x12"sheet)	1/8"	2	C	M			Mexico	Mexico	
Denali Peak T195 Travertine	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8"	1/16"	2	C	R			Turkey	China	
Denali Peak T195 Travertine	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	2	C	R			Turkey	China	
Denali Peak T195 Victorian Travertine	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	2	C	R			Turkey	China	
Durango T714	Honed	16"x16"x3/8" & 12"x12"x3/8"	1/16"	2	C	H			Mexico	Mexico	
Ivory Classico BE10	Tumbled	6"x6"x3/8", 4"x4"x3/8 & 3"x6"x3/8"	1/8" to 3/8"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	
Ivory Classico BE10	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	
Light Noce BE11	Tumbled	6"x6"x3/8", 4"x4"x3/8 & 3"x6"x3/8"	1/8" to 3/8"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	
Light Noce BE11	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	
Mediterranean Ivory T730	Honed	24"x24"x1/2", 12"x24"x1/2, 18"x18"x1/2" & 12"x12"x3/8"	1/16"	2	C	M			Turkey	Turkey	
Mediterranean Ivory T730	Honed	3"x6"x3/8"	1/16"	2	C	M			Turkey	Turkey	
Mediterranean Ivory T730 Random	Polished,Honed & Split Face	3/8"x Random x 3/8" (12"x12" sheet)	As needed	N/A	C	M			Turkey	Turkey	
Mediterranean Ivory T730	Split Face	1"x2"x1/2" (12"x12" sheet)	As needed	N/A	C	M			Turkey	Turkey	
Mediterranean Ivory T730	Split Face	4"x12"x5/8"	As needed	N/A	C	H			Turkey	Turkey	
Mediterranean Ivory T730	Tumbled	16"x16"x3/8", 12"x12"x3/8", 6"x6"x3/8", 4"x4"x3/8 & 3"x6"x3/8"	1/8" to 3/8"	2	C	M			Turkey	Turkey	
Mediterranean Ivory T730	Tumbled	2"x2"x3/8" (12"x12" sheet)	1/8"	2	C	M			Turkey	Turkey	
Mendocino BE14	Honed	24"x24"x1/2", 18"x18"x1/2", 12"x24"x1/2" & 12"x12"x3/8"	1/16"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	
Mendocino BE14 Versailles Pattern	Brushed & Chiseled Edge	16"x24"x1/2", 16"x16"x1/2,8"x16"x1/2" & 8"x8"x1/2" (sold in pattern only)	1/16" to 1/8"	3	C	H			Turkey	Turkey	
Napa BE15 Versailles Pattern	Brushed & Chiseled Edge	16"x24"x1/2", 16"x16"x1/2,8"x16"x1/2" & 8"x8"x1/2" (sold in pattern only)	1/16" to 1/8"	3	C	R			Turkey	Turkey	
Noce T311	Honed	12"x24"x3/8", 18"x18"x1/2" & 12"x12"x 3/8"	1/16"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	
Noce T311	Split Face	1"x2"x1/2" (12"x12" sheet)	As needed	N/A	C	H	EW	EW	Turkey	Turkey	
Noce T311	Tumbled	16"x16"x1/2", 12"x12"x3/8", 6"x6"x3/8", 4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	

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<b>TRAVERTINE (continued)</b>											
Noce T311	Tumbled	2"x2"x3/8" (12"x12"sheet)	1/8"	2	C	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ●
Sonoma BE13	Honed	18"x18"x1/2" & 12"x24"x1/2"	1/16"	2	C	R	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● ✦ ✧
Sonoma BE13 Versailles Pattern	Brushed & Chiseled Edge	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (sold in pattern only)	1/16" to 1/8"	3	C	R	E	E	Turkey	Turkey	◀ ◆ ▼ ● ✦ ✧
Torreon T711	Honed	16"x16"x3/8" & 12"x12"x3/8"	1/16"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦ ✧
Torreon T711 (Vein-cut)	Polished	12"x12"x3/8"	1/16"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦ ✧
Torreon T711 (Vein-cut)	Honed	8"x36"x1/2", 6"x36"x1/2"	1/16"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦ ✧
Torreon T711	Honed	3"x6"x3/8"	1/16"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦ ✧
Torreon T711	Polished	3"x6"x3/8"	1/16"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦ ✧
Torreon T711 6" Hexagon	Honed	6" x 6" x 3/8" (10-1/4" x 11-7/8" x 3/8" sheet)	1/8"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦ ✧
Torreon T711 Random	Polished,Honed & Split Face	3/8"x Random x 3/8" (12"x12"sheet)	As needed	N/A	C	M	W	W	Mexico	Mexico	◆ ▼ ● ✦ ✧
Torreon T711	Split Face	1"x2"x1/2" (12"x12"sheet)	As needed	N/A	C	M	W	W	Mexico	Mexico	◆ ▼ ● ✦ ✧
Torreon T711	Tumbled	12"x12"x3/8", 6"x6"x3/8", 4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦
Torreon T711	Tumbled	2"x2"x3/8" (12"x12"sheet)	1/8"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦
Torreon T711 Versailles Pattern	Tumbled	4"x4"x3/8", 2"x4"x3/8" & 2"x2"x3/8"(1 sq.ft. sheet)	1/8" to 3/8"	2	C	M	E	E	Mexico	Mexico	◀ ◆ ▼ ● ✦
Turco Classico T324 Versailles Pattern	Brushed & Chiseled Edge	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (sold in pattern only)	1/16" to 1/8"	3	C	H	E	E	Turkey	Turkey	◀ ◆ ▼ ● ✦ ✧
Turco Classico T324	Honed	18"x18"x1/2" & 12"x12"x3/8"	1/16"	2	C	H	E	E	Turkey	Turkey	◀ ◆ ▼ ● ✦ ✧
Turco Classico T324 Basketweave	Honed	1"x1-7/8"x3/8" with 3/8"x3/8"x3/8" dots (12-3/4"x12-3/4" sheet)	1/8"	2	C	M	E	E	Turkey	Turkey	◀ ◆ ▼ ● ✦
<b>PAREDON PATTERN</b>											
Andes Grey TS35	Tumbled	8"x12"x3/8", 8"x8"x3/8", 4"x8"x3/8" & 4"x4"x3/8", (sold in pattern only)	1/8" to 3/8"	3	B	R	E	E	Peru	Peru	◀ ◆ ▼ ● ✦
Andes Grey TS35 (Large Format Paredon)	Tumbled	16"x24"x3/8", 16"x16"x3/8", 8"x16"x3/8" & 8"x8"x3/8" (sold in pattern only)	1/8" to 3/8"	3	B	R	E	E	Peru	Peru	◀ ◆ ▼ ● ✦ ✧
Inca Brown TS37	Tumbled	8"x12"x3/8", 8"x8"x3/8", 4"x8"x3/8" & 4"x4"x3/8" (sold in pattern only)	1/8" to 3/8"	3	B	R	E	E	Peru	Peru	◀ ◆ ▼ ●
Inca Brown TS37 (Large Format Paredon)	Tumbled	16"x24"x3/8", 16"x16"x3/8", 8"x16"x3/8" & 8"x8"x3/8" (sold in pattern only)	1/8" to 3/8"	3	B	R	E	E	Peru	Peru	◀ ◆ ▼ ● ✧
Peruvian Cream TS36	Tumbled	8"x12"x3/8", 8"x8"x3/8", 4"x8"x3/8" & 4"x4"x3/8", (sold in pattern only)	1/8" to 3/8"	3	B	R	E	E	Peru	Peru	◀ ◆ ▼ ● ✦
Peruvian Cream TS36 (Large Format Paredon)	Tumbled	16"x24"x3/8", 16"x16"x3/8", 8"x16"x3/8" & 8"x8"x3/8" (sold in pattern only)	1/8" to 3/8"	3	B	R	E	E	Peru	Peru	◀ ◆ ▼ ● ✦ ✧
<b>LIMESTONE</b>											
Adour Crème L341	Polished	18x18"x1/2", 12"x24"x1/2", 12"x12"x3/8", 6"x18"x1/2"	1/16"	3	B	M	EW	EW	Turkey	Turkey	◆ ▼ ● ✦ ✧
Adour Crème L341	Honed	18x18"x1/2", 12"x24"x1/2", 12"x12"x3/8", 6"x18"x1/2"	1/16"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● ✦ ✧
Adour Crème L341 Versailles Pattern	Leather & Brushed Edge	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (sold in pattern only)	1/16"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● ✦ ✧
Adour Crème Blend L341 2" Hexagon***	Honed, Brushed & Scraped	1-7/8"x1-7/8"x3/8" (12"x12-1/2" sheet)	1/8"	3	B	M	EF/EW	EF/EW	Turkey	China	◀ ◆ ▼ ● ✦ ✧ ✨ ✖

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<b>LIMESTONE (continued)</b>											
Arctic Gray L757	Honed	18"x18"x5/8", 12"x24"x1/2" & 12"x12"x3/8"	1/16"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757	Polished	12"x12"x3/8"	1/16"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757	Tumbled	6"x6"x3/8", 4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757	Honed	3"x6"x3/8"	1/16"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757	Polished	3"x6"x3/8"	1/16"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757 Harlequin Beveled	Honed	3"x6"x3/8" (12"x13-1/2" sheet)	1/8"	N/A	B	M	EW	EW	Turkey	Turkey	
Arctic Gray L757	Split Face	2"x6"x3/4" (12"x14" sheet)	As needed	N/A	B	M	EW	EW	Turkey	Turkey	
Arctic Gray L757 Beveled	Honed	2"x4"x3/8" (12"x14" sheet)	1/8"	N/A	B	M	EW	EW	Turkey	Turkey	
Arctic Gray L757	Tumbled	2"x2"x3/8" & 1"x1"x3/8" (12"x12" sheet)	1/8"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757	Honed	1"x1"x3/8" (12"x12" sheet)	1/8"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757 Brick-joint	Polished	1/2"x1"x3/8" (12"x12" sheet)	1/8"	3	B	M	EF/EW	EF/EW	Turkey	Turkey	
Arctic Gray L757 Basketweave	Polished	1"x1-7/8"x3/8" with 3/8"x3/8"x3/8" dots (12-3/4"x12-3/4" sheet)	1/8"	3	C	M	EF/EW	EF/EW	Turkey	Turkey	
Blavet Blanc L340 (Pre-Sealed)*	Honed	18"x18"x1/2", 12"x24"x1/2", 12"x12"x3/8", 6"x18"x1/2"	1/16"	2	C	L	EW	EW	Turkey	Turkey	
Blavet Blanc L340	Honed	3"x6"x3/8"	1/16"	2	C	L	EW	EW	Turkey	Turkey	
Blavet Blanc L340	Tumbled	6"x6"x3/8", 4"x4"x3/8" & 3"x6"x3/8"	1/8" to 3/8"	2	C	L	EW	EW	Turkey	Turkey	
Blavet Blanc Blend L340 2" Hexagon***	Honed, Brushed & Scraped	1-7/8"x1-7/8"x3/8" (12"x12-1/2" sheet)	1/8"	2	C	M	EW	EW	Turkey	China	
Carlton Beige L012 Limestone	Polished	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	2	B	M	SF/SW	SF/SW	China	China	
Carlton Beige L012 Limestone	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx3/8"	1/16"	2	B	M	SF/SW	SF/SW	China	China	
Carlton Beige L012 Linear Mosaic Limestone	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	B	M	SW	SW	China	China	
Chadwick Charcoal L015 Limestone	Flamed & Brushed	4"x12"x1/2", 12"x24"x1/2", 24"x24"x1/2", 8"xFree Length Patternx1/2"	1/16"	3	A	M			Spain	Spain	
Chadwick Charcoal L015 Limestone	Honed	4"x12"x3/8", 12"x24"x3/8", 24"x24"x3/8", 8"xFree Length Patternx1/2"	1/16"	3	A	M			Spain	Spain	
Chadwick Charcoal L015 Linear Mosaic Limestone	Honed, Scraped, Bush Hammered	6"x24"x3/8"	1/8"	N/A	A	M			Spain	China	
Chenille White L191 (Vein-cut)	Honed	12"x24"x3/8" & 18" x 20-3/4" x 3/8" Hexagon	1/16"	2	A	H			China	China	
Chenille White L191 (Vein-cut)	Honed	8"x36"x3/8", 6"x36"x3/8" & 4"x36"x3/8"	1/16"	2	A	H			China	China	
Chenille White L191 (Vein-cut)	Polished	8"x36"x3/8", 6"x36"x3/8" & 4"x36"x3/8"	1/16"	2	A	H			China	China	
Chenille White L191 (Vein-cut)	Honed	3"x8"x3/8" & 4"x12"x3/8"	1/16"	2	A	H			China	China	
Chenille White L191 (Vein-cut)	Polished	3"x8"x3/8" & 4"x12"x3/8"	1/16"	2	A	H			China	China	
Chenille White/Silver Screen DA08 1" x Random	Polished, Honed & Sand Blasted	1" x Random (12"x12" sheet)	As needed	2	A	H			China	China	
Chenille White L191 2" Hexagon	Honed	2"x2"x3/8" (13"x12-1/2" sheet)	1/8"	2	A	H			China	China	
Chenille White L191 6" Hexagon	Honed	6" x 6" x 3/8" (10-1/4" x 11-7/8" x 3/8" sheet)	1/8"	2	A	H			China	China	



# STONE USAGE GUIDE

Color #	Finish	Size/Thickness	Recommended Grout Joint	Durability Floor	Soundness	Variation	Exterior Residential Usage	Exterior Commercial Usage	Country of Origin	Country of Manufacture	Special Notes
<b>LIMESTONE (continued)</b>											
Chenille White L191 Abstract	Polished	1" & 2"x 3" x3/8" (12"x12" sheet)	1/8"	2	A	H	W/SF	W/SF	China	China	◀ ◆ ▼ ● * ✦
Chenille White L191 Baroque	Polished	3"x3"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	2	A	H	W/SF	W/SF	China	China	◀ ◆ ▼ ● * ✦
Chenille White L191 Cladding	Polished	2"x3/8"x1/4" to 1/2" (12"x13" sheet)	As needed	N/A	A	H	EW	EW	China	China	◆ ▼ ● * ✦
Chenille White L191 Marquise	Polished	3"x1-1/2"x3/8" (13-3/8"x13-3/4" sheet)	1/8"	2	A	H	W/SF	W/SF	China	China	◀ ◆ ▼ ● *
Chenille White L191 Modern	Polished	Irregular shape x3/8" (12"x12" sheet)	1/8"	2	A	H	W/SF	W/SF	China	China	◀ ◆ ▼ ● * ✦
Chenille White L191 Modern Linear	Polished, Honed & Scraped	11-3/4" x 11-1/4" x 3/8"	1/8"	N/A	A	H	W/SF	W/SF	China	China	◀ ◆ ▼ ● *
Chenille White L191 Oval	Polished	1-1/2"x5/8"x3/8" (12"x12-1/2" sheet)	1/16"	2	A	H	W/SF	W/SF	China	China	◀ ◆ ▼ ● *
Chenille White L191 Triangle	Polished	2-3/4"x2-1/2"x3/8 Triangle (11"x14" sheet)	1/8"	2	A	H	W/SF	W/SF	China	China	◀ ◆ ▼ ● *
Corton Sable L343	Lite Honed	18"x18"x1/2", 12"x24"x3/8", 12"x12"x3/8", 6"x18"x1/2"	1/16" to 1/8"	2	C	L	EF/EW	EF/EW	Morocco	Morocco	◀ ◆ ▼ ● * ✦ ✧ ✨
Corton Sable L343	Tumbled	12"x24"x5/8"	1/8" to 3/8"	2	C	L	EF/EW	EF/EW	Morocco	Morocco	◀ ◆ ▼ ● *
Corton Sable Blend L343 2" Hexagon***	Honed, Brushed & Scraped	1-7/8"x1-7/8"x3/8" (12"x12-1/2" sheet)	1/8"	2	C	H	N/A	N/A	Morocco	China	■ ▼ ● * ✦ ✧ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨
Crema Europa L221	Honed	12"x24"x5/8", 18"x18"x5/8" & 12"x12"x5/8"	1/16"	2	A	H	W/SF	W/SF	Spain	Spain	◀ ◆ ▼ ● * ✦
Hauteville Beige L344	Honed	18x18"x3/8", 12"x24"x3/8" & 6"x18"x3/8"	1/16"	3	A	L	N/A	N/A	Portugal	Portugal	◀ ■ ▼ ● * ✦ ✧ ✨
Jurastone Beige L711	Honed	12"x24"x3/8" & 12"x12"x3/8"	1/16"	3	A	H	E	E	Germany	Germany	◀ ◆ ▼ ● * ✦ ✧ ✨
Jurastone Gray L712	Honed	12"x24"x3/8" & 12"x12"x3/8"	1/16"	3	A	H	E	E	Germany	Germany	◀ ◆ ▼ ● * ✦ ✧ ✨
Kalahari Beige L010 Limestone	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	A	R	E	E	Portugal	Portugal	◆ ▼ ● * ✦ ✧ ✨
Kalahari Beige L010 Mosaic Limestone	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	A	R	E	E	Portugal	Portugal	◆ ▼ ● *
Kalahari Beige L010 Victorian Limestone	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	A	R	E	E	Portugal	Portugal	◆ ▼ ● * ✦ ✧ ✨
Lagos Blue L983	Honed	18"x18"x3/8", 12"x24"x3/8", 12"x12"x3/8", 6"x18"x3/8"	1/16"	3	A	M	N/A	N/A	Portugal	Portugal	■ ▼ ● ✦ ✧ ✨
Lagos Blue L983	Leather	12"x24"x3/8"	1/16"	3	A	M	N/A	N/A	Portugal	Portugal	■ ▼ ● ✦ ✧ ✨
Matterhorn L011 Limestone	Honed	12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence, 8"xFree Length Patternx3/8"	1/16"	3	A	R	SF/SW	SF/SW	Portugal	Portugal	◀ ◆ ▼ ● ✦ ✧ ✨
Matterhorn L011 Limestone	Honed	2"x2"x3/8" (12"x12" sheet)	1/8"	3	A	R	SF/SW	SF/SW	Portugal	Portugal	◆ ▼ ● ✦ ✧ ✨
Matterhorn L011 Victorian Limestone	Honed	12"x12"x3/8" (12"x12" sheet)	1/8"	3	A	R	SF/SW	SF/SW	Portugal	Portugal	◀ ◆ ▼ ● ✦ ✧ ✨
Moselle Gris L346**	Honed	18x18"x3/8", 12"x24"x3/8", 12"x12"x3/8", 6"x18"x3/8"	1/16"	3	A	H	N/A	N/A	Tunesia	Italy	■ + ✦ ✧ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨
Moselle Gris Blend L346 2" Hexagon**(***)	Honed, Brushed & Scraped	1-7/8"x1-7/8"x3/8" (12"x12-1/2" sheet)	1/8"	3	A	H	N/A	N/A	Tunesia	China	■ + ✦ ✧ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨ ✨
Siberian Tundra L701	Honed	18"x18"x5/8", 12"x24"x1/2", 12"x12"x3/8" & 6"x18"x5/8"	1/16"	3	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ✦ ✧ ✨
Siberian Tundra L701	Polished	12"x12"x3/8"	1/16"	3	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● * ✦ ✧ ✨
Siberian Tundra L701	Honed	Random Height x Random Length x 3/8" (15"x12" sheet)	1/8"	3	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● *
Siberian Tundra L701 Oval	Polished	7/8"x4"x3/8" (14"x12" sheet)	1/8"	3	B	H	EF/EW	EF/EW	Turkey	Turkey	◀ ◆ ▼ ● *

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Color #	Finish	Size/Thickness	Recommended Grout Joint	Durability Floor	Soundness	Variation	Exterior Residential Usage	Exterior Commercial Usage	Country of Origin	Country of Manufacture	Special Notes
<b>LIMESTONE (continued)</b>											
Sormonne Brun L351**	Honed	18"x18"x3/8", 12"x24"x3/8", 12"x12"x3/8", 6"x18"x3/8"	1/16"	3	A	H	N/A	N/A	Tunisia	Italy	■ + ● ◆ ✦ ✧ ✨
Sormonne Blend L351 2" Hexagon**(****)	Honed, Brushed & Scraped	1-7/8"x1-7/8"x3/8" (12"x12-1/2" sheet)	1/8"	3	A	H	N/A	N/A	Tunisia	China	■ + ● ◆ ✦ ✧ ✨
Touques Gris L345	Lite Honed	18"x18"x1/2", 12"x24"x3/8", 12"x12"x3/8", 6"x18"x1/2"	1/16" to 1/8"	2	C	M	EF/EW	EF/EW	Morocco	Morocco	◀ ▶ ◆ ▼ ● ✨ ✧ ✨
Touques Gris L345	Tumbled	12"x24"x5/8"	1/8" to 3/8"	2	C	M	EF/EW	EF/EW	Morocco	Morocco	◀ ▶ ◆ ▼ ● ✨ ✧ ✨
Volcanic Gray L725	Polished	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	2	A	H	EW/SF	EW/SF	Tunisia	China	◀ ▶ ◆ ▼ ● ✨ ✧ ✨
Volcanic Gray L725	Honed	8"x36"x5/8", 24"x24"x5/8", 12"x24"x3/8", 12"x12"x3/8", 3"x6"x3/8" & 3"x15"x3/8" Picket Fence	1/16"	2	A	H	EW/SF	EW/SF	Tunisia	China	◀ ▶ ◆ ▼ ● ✨ ✧ ✨
Volcanic Gray L725 Ingot	Polished	4"x6"x3/8" (11"x12-5/8" x3/8" sheet)	1/8"	2	A	H	EW/SF	EW/SF	Tunisia	China	◀ ▶ ◆ ▼ ● ✨ ✧ ✨
Volcanic Gray L725 Raked	Scraped	4"x19-5/8"x5/8"	N/A - As needed	N/A	A	H	EW	EW	Tunisia	China	◆ ▼ ● ✨ ✧ ✨
Volcanic Gray L725 Wedge	Honed, Saw Cut, & Sand Blasted	4-3/4"x23-13/16"x1/4" to 1/2" sheet	N/A - As needed	N/A	A	H	EW	EW	Tunisia	China	◆ ▼ ● ✨ ✧ ✨
<b>GRANITE</b>											
Absolute Black G771	Polished	24" x 24" 5/8", 12"x24"x3/8", 18"x18"x1/2" & 12"x12"x3/8"	1/16"	3	A	L	Ⓢ	Ⓢ	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Absolute Black G771	Honed	12"x12"x3/8"	1/16"	3	A	L	Ⓢ	Ⓢ	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Absolute Black G771	Flamed	12"x24"x3/8" & 12"x12"x3/8"	1/16"	3	A	L	Ⓢ	Ⓢ	China	China	◀ ▶ ◆ ● ✨ ✧ ✨
Galaxy Black G772	Polished	18"x18"x1/2" & 12"x12"x3/8"	1/16"	3	A	L	Ⓢ	Ⓢ	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
New Venetian Gold G215	Polished	18"x18"x1/2"	1/16"	3	B	M	EF/EW	EF/EW	Brazil	Brazil	◀ ▶ ◆ ● ✨ ✧ ✨
<b>SLATE</b>											
Autumn Mist S772	Natural Cleft	16"x16"x1/2" & 12"x12"x3/8" (Gauged)	1/4" to 3/8"	1	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Autumn Mist TS71	Tumbled	4"x4"x3/8" (Gauged)	1/4" to 3/8"	1	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Autumn Mist TS71	Tumbled	1"x1"x3/8" (12"x12" sheet) (Gauged)	1/8" to 3/8"	1	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Autumn Mist S772 Beehive	Natural Cleft	2"x2"x3/8" Hexagon (11-7/8"x10-5/8" sheet)	1/4"	1	C	R	EF/EW	EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Autumn Mist S772 Brick-joint	Natural Cleft	1-1/4"x2-7/8"x3/8" (11-3/4"x11-7/8" sheet)	1/8"	1	C	R	EF/EW	EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Autumn Mist S772 Kayla High-Low	Natural Cleft	Random length x random height x 3/8"-1" (6"x24" sheet)	1/8"	N/A	C	R	EW	EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Brazil Black S762	Natural Cleft	16"x16"x3/8", 12"x12"x3/8" & 12" x 24" 3/8" (Gauged)	1/4" to 3/8"	2	A	L	Ⓢ	Ⓢ	Brazil	Brazil	◀ ▶ ◆ ● ✨ ✧ ✨
Brazil Gray S201	Natural Cleft	16"x16"x3/8" & 12"x12"x3/8" (Gauged)	1/4" to 3/8"	2	A	L	Ⓢ	Ⓢ	Brazil	Brazil	◀ ▶ ◆ ● ✨ ✧ ✨
California Gold S700	Natural Cleft	12"x24"x1/2", 16"x16"x1/2" & 12"x12"x3/8" (Gauged)	1/4" to 3/8"	2	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
California Gold S700	Honed	12"x12"x3/8" (Gauged)	1/8" to 3/8"	2	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
California Gold S700 Versailles Pattern	Natural Cleft	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (Gauged) (Pattern covers 15.75 sq.ft.)	3/8"	2	C	R	EW	EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Indian Multicolor S771	Natural Cleft	12"x24"x1/2", 16"x16"x1/2" & 12"x12"x3/8" (Gauged)	1/4" to 3/8"	1	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Indian Multicolor TS70	Tumbled	4"x4"x3/8" (Gauged)	1/4" to 3/8"	1	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨
Indian Multicolor TS70	Tumbled	1"x1"x3/8" (12"x12" sheet) (Gauged)	1/8" to 3/8"	1	C	R	EF/EW	EF/EW	India	India	◀ ▶ ◆ ● ✨ ✧ ✨



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Color #	Finish	Size/Thickness	Recommended Grout Joint	Durability Floor	Soundness	Variation	Exterior Residential Usage	Exterior Commercial Usage	Country of Origin	Country of Manufacture	Special Notes
<b>SLATE (continued)</b>											
Indian Multicolor S771 Versailles Pattern	Natural Cleft	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (Gauged) (Pattern covers 15.75 sq.ft.)	3/8"	1	C	R	EF/EW	EF/EW	India	India	◀ ■ ● ● * ✦ ✦
Mongolian Spring S781	Natural Cleft	16"x16"x3/8" & 12"x12"x3/8" (Gauged)	1/4" to 3/8"	2	C	R	EF/EW	EF/EW	China	China	◀ ■ ● ● * ✦ ✦
Mongolian Spring S781 Pattern Flagstone	Natural Cleft	Average sizes from 8"x12"x1/2" to 5"x9"x1/2" (Gauged) (Pattern covers 2.7 sq.ft. per sheet)	1/4" to 3/8"	2	C	R	EF/EW	EF/EW	China	China	◀ ■ ● ● * ✦ ✦
Mongolian Spring S781 Versailles Pattern	Natural Cleft	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (Gauged) (Pattern covers 15.75 sq.ft.)	3/8"	2	C	R	EF/EW	EF/EW	China	China	◀ ■ ● ● * ✦ ✦
<b>QUARTZITE</b>											
Golden Sun S783	Natural Cleft	16"x16"x3/8 & 12"x12"x3/8" (Gauged)	1/4" to 3/8"	3	A	R	⊕	⊕	China	China	◀ ◆ ● ● ● ●
Golden Sun S783 Pattern Flagstone	Natural Cleft	Average sizes from 8"x12"x1/2" to 5"x9"x1/2" (Gauged) (Pattern covers 2.7 sq.ft. per sheet)	1/4" to 3/8"	3	A	R	⊕	⊕	China	China	◀ ◆ ● ● ● ●
Golden Sun S783 Versailles Pattern	Natural Cleft	16"x24"x1/2", 16"x16"x1/2", 8"x16"x1/2" & 8"x8"x1/2" (Gauged) (Pattern covers 15.75 sq.ft.)	3/8"	3	A	R	⊕	⊕	China	China	◀ ◆ ● ● ● ●
<b>SLIMLITE SLATE &amp; QUARTZITE</b>											
Autumn Mist Slate S772	Natural Cleft	24"x48"x1/32" to 1/8" & 12"x24"x1/32" to 1/8" (Gauged)	1/16"	N/A	C	R	EW	EW	India	India	■ ● ● * ✦ ✦
Black Slate S197	Natural Cleft	24"x48"x1/32" to 1/8" & 12"x24"x1/32" to 1/8" (Gauged)	1/16"	N/A	C	M	EW	EW	India	India	◆ ● ● * ✦
California Gold Slate S700	Natural Cleft	24"x48"x1/32" to 1/8" & 12"x24"x1/32" to 1/8" (Gauged)	1/16"	N/A	C	R	EW	EW	India	India	■ ● ● * ✦ ✦
Copper Quartzite S776	Natural Cleft	24"x48"x1/32" to 1/8" & 12"x24"x1/32" to 1/8" (Gauged)	1/16"	N/A	C	R	EW	EW	India	India	◆ ● ● * ✦
Indian Multicolor Slate S771	Natural Cleft	24"x48"x1/32" to 1/8" & 12"x24"x1/32" to 1/8" (Gauged)	1/16"	N/A	C	R	EW	EW	India	India	■ ● ● * ✦ ✦
Silver Quartzite S196	Natural Cleft	24"x48"x1/32" to 1/8" & 12"x24"x1/32" to 1/8" (Gauged)	1/16"	N/A	C	R	EW	EW	India	India	◆ ● ● * ✦
<b>STACKED STONE</b>											
Beijing Green S282 Stacked Stone	Natural Cleft	6"x24"x3/8" to 3/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	China	China	◆ ● ● ● ●
Dynasty Mountain S318 Stacked Stone	Natural Cleft	6"x24"x3/8" to 3/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	India	India	◆ ● ● ● ●
Eastern Sand S319 Stacked Stone	Natural Cleft	6"x24"x3/8" to 3/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	India	India	◆ ● ● ● ●
Golden Sun S783 Stacked Stone	Natural Cleft	6"x24"x3/8" to 3/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	China	China	◆ ● ● ● ●
Haikou Grey S703 Stacked Stone	Natural Cleft	6"x24"x3/8" to 3/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	India	India	◆ ● ● ● ●
Imperial Falls S316 Stacked Stone	Natural Cleft	6"x24"x3/4" to 1-1/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	China	China	◆ ● ● ● ●
Macau Black S701 Stacked Stone	Natural Cleft	6"x24"x3/8" to 3/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	India	India	◆ ● ● ● ●
Sanya White S702 Stacked Stone	Natural Cleft	6"x24"x3/8" to 3/4" (Ungauged)	As needed	N/A	A	R	⊕	⊕	China	China	◆ ● ● ● ●
Shanghai Rust S349 Stacked Stone	Natural Cleft	6"x24"x1" to 1-1/2" (Ungauged)	As needed	N/A	A	R	⊕	⊕	China	China	◆ ● ● ● ●
Tibetan Slate S317 Stacked Stone	Natural Cleft	6"x24"x1" to 1-1/2" (Ungauged)	As needed	N/A	C	R	EW	EW	China	China	■ ● ● ● ● ✦ ✦



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<b>ACCENT MOSAICS</b>											
Adda DA83 Blend Brick-joint	Polished	1/2"x1"x3/8" (12"x11-7/8" sheet)	1/8"	2	C	M	EW	EW	Spain	China	▶ ◆ ▼ ● *
Antico Scuro Blend DA28 Framed Baroque	Polished	(11"x12-5/8"x3/8" sheet)	1/8"	2	A	H	EF/EW	EF/EW	Pakistan & China	China	▶ ◆ ▼ ● *
Argyle Blend Beige DA22	Polished	3"x4"x3/8" (11-1/2"x12-5/16"x3/8" sheet)	1/8"	2	A	H	EF/EW	EF/EW	Turkey/Pakistan/China	China	▶ ◆ ▼ ● *
Argyle Blend Gray DA23	Polished	3"x4"x3/8" (11-1/2"x12-5/16"x3/8" sheet)	1/8"	2	A	H	EF/EW	EF/EW	China	China	▶ ◆ ▼ ● *
Argyle Blend White DA21	Polished	3"x4"x3/8" (11-1/2"x12-5/16"x3/8" sheet)	1/8"	2	A	H	EF/EW	EF/EW	China	China	▶ ◆ ▼ ● *
Black River DA05 River Pebble	Saw Cut	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	B	H	⊕	⊕	China	China	▶ ◆ ▼ ● *
Blanc Et Beige DA20 Baroque****	Cast Stone & Iridescent Glass	2"x2-3/8"x5/16" (12-3/4"x11-1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	▼ ● * ✦
Blanc Et Beige DA20 Raindrop****	Cast Stone & Iridescent Glass	1-3/8"x2-3/8"x5/16" (12"x13-3/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	▼ ● * ✦
Brenta DA87 Blend	Honed	1"x1"x3/8" (11-3/4"x11-7/8" sheet)	1/8"	2	C	M	EW	EW	Turkey	Turkey	▶ ◆ ▼ ● *
Chenille White L191 River Pebble	Tumbled	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	2	A	H	EF/EW	EF/EW	China	China	▶ ◆ ▼ ● *
Cirrus Storm Blend DA32 2" Hexagon	Honed	2"x2"x3/8" (11-11/16"x11-7/8"x3/8" sheet)	1/8"	3	B	R	EF/EW	EF/EW	China	China	◆ ▼ ● *
Cirrus Storm Blend DA33 Pebble	Tumbled	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	B	R	⊕	⊕	China	China	◆ ▼ ● *
Cirrus Storm Blend DA35 Linear Random	Polished & Ceramic	Random Height x Random Length x 1/4" (11-3/4"x11-1/4"x1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	◆ ▼ ● ✦ ✧
Cirrus Storm Blend DA38 Linked Ring	Honed	(13-5/8"x12-3/16"x3/8" sheet)	1/8"	2	B	R	EF/EW	EF/EW	China/Italy/Pakistan	China	◆ ▼ ● *
Cirrus Storm Blend DA41 Arabesque	Honed & Ceramic	(13-3/8"x11-1/4"x3/8" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	◆ ▼ ● ✦ ✧
Creamy Sand DA06 River Pebble	Saw Cut	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	B	H	⊕	⊕	China	China	▶ ◆ ▼ ● *
Cumulus Grey Blend DA36 Linear Random	Polished & Ceramic	Random Height x Random Length x 1/4" (11-3/4"x11-1/4"x1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	◆ ▼ ● ✦ ✧
Cumulus Grey Blend DA39 Linked Ring	Honed	(13-5/8"x12-3/16"x3/8" sheet)	1/8"	2	A	R	EF/EW	EF/EW	Indonesia/China/Tunesia	China	◆ ▼ ● *
Cumulus Grey Blend DA42 Arabesque	Polished & Ceramic	(13-3/8"x11-1/4"x3/8" sheet)	1/8"	N/A	A	R	N/A	N/A	China	China	◆ ▼ ● ✦ ✧
Cumulus Grey Blend DA52 Pebble	Tumbled	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	A	R	⊕	⊕	China	China	◆ ▼ ● *
Earthy Blend DA07 River Pebble	Saw Cut	Irregular shape x 3/8" (1 sq. ft. sheet)	As needed	3	B	H	⊕	⊕	China	China	▶ ◆ ▼ ● *
Empyrean Ice Blend DA24 Framed Baroque	Polished	(11"x12-5/8"x3/8" sheet)	1/8"	2	A	H	EF/EW	EF/EW	China	China	▶ ◆ ▼ ● *
Fusion Blanc DA15 Large Chevron	Honed	Random Height x 8-5/8" Length x 5/16" (22"x12" sheet)	1/8"	2	B	R	EW	EW	China/Turkey	China	◆ ▼ ● ✦ ✧
Fusion Cris DA16 Large Chevron**	Honed	Random Height x 8-5/8" Length x 5/16" (22"x12" sheet)	1/8"	2	B	R	N/A	N/A	China/Turkey/Tunesia	China	■ ▼ ● ✦ ✧ ✨ ✨ ✨ ✨

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Color #	Finish	Size/Thickness	Recommended Grout Joint	Durability Floor	Soundness	Variation	Exterior Residential Usage	Exterior Commercial Usage	Country of Origin	Country of Manufacture	Special Notes
<b>ACCENT MOSAICS (continued)</b>											
Fusion Crème DA17 Large Chevron	Honed	Random Height x 8-5/8" Length x 5/16" (22"x12" sheet)	1/8"	2	B	R	N/A	N/A	Turkey/Germany	China	■ ▼ ● ♦ * ✦ ✧ ✨
Fusion Brun DA18 Large Chevron**	Honed	Random Height x 8-5/8" Length x 5/16" (22"x12" sheet)	1/8"	2	B	R	N/A	N/A	Turkey/Tunesia/Germany	China	■ ▼ ● ♦ * ✦ ✧ ✨
Gris Et Blanc DA19 Baroque****	Cast Stone & Iridescent Glass	2"x2-3/8"x5/16" (12-3/4"x11-1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	▼ ● ♦ ✨
Gris Et Blanc DA19 Raindrop****	Cast Stone & Iridescent Glass	1-3/8"x2-3/8"x5/16" (12"x13-3/4" sheet)	1/8"	N/A	B	R	N/A	N/A	China	China	▼ ● ♦ ✨
Latte Blend DA25 Framed Baroque	Polished	(11"x12-5/8"x3/8" sheet)	1/8"	2	A	H	EF/EW	EF/EW	Turkey & China	China	◀ ◆ ▼ ● ♦ ✨
Lumia Leaf Beige DA30	Polished	2"x3" 5/16" (10-7/16"x12-7/16"x5/16" sheet)	1/8"	N/A	B	H	EW	EW	Turkey & China	China	◆ ▼ ● ♦ ✨
Lumia Leaf Gray DA31	Polished	2"x3" 5/16" (10-7/16"x12-7/16"x5/16" sheet)	1/8"	N/A	B	H	EW	EW	Tunesia & China	China	◆ ▼ ● ♦ ✨
Lumia Leaf White DA29	Polished	2"x3" 5/16" (10-7/16"x12-7/16"x5/16" sheet)	1/8"	N/A	B	H	EW	EW	China	China	◆ ▼ ● ♦ ✨
Panaro DA90 Blend Brick-joint	Polished	5/8"x1"x3/8" (12"x12" sheet)	1/8"	2	C	M	EW	EW	Turkey	China	◆ ▼ ● ♦ ✨
Stormy Mist Blend DA26 Framed Baroque	Polished	(11"x12-5/8"x3/8" sheet)	1/8"	2	A	H	EF/EW	EF/EW	China	China	◀ ◆ ▼ ● ♦ ✨
Stratus White Blend DA34 Linear Random	Polished & Ceramic	Random Height x Random Length x 1/4" (11-3/4"x11-1/4"x1/4" sheet)	1/8"	N/A	B	R	N/A	N/A	Greece	China	◆ ▼ ● ♦ ✨
Stratus White Blend DA37 Linked Ring	Honed	(12-3/16"x12-1/5"x3/8" sheet)	1/8"	2	B	R	EF/EW	EF/EW	Greece/China/Tunesia	China	◆ ▼ ● ♦ ✨
Stratus White Blend DA40 Arabesque	Honed & Ceramic	(13-3/8"x11-1/4"x3/8" sheet)	1/8"	N/A	B	R	N/A	N/A	Greece	China	◆ ▼ ● ♦ ✨
Taro DA89 Blend	Polished	1"x1"x3/8" (11-7/8"x12" sheet)	1/8"	2	C	M	EW	EW	Turkey	Turkey	◆ ▼ ● ♦ ✨
Ticino DA84 Blend Stacked-joint	Polished	1/2"x2"x3/8" (12"x12"sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● ♦ ✨
Tirso DA88 Blend	Honed	1"x1"x3/8" (11-7/8"x12" sheet)	1/8"	2	C	M	EW	EW	Turkey	Turkey	◆ ▼ ● ♦ ✨
Volcanic Gray Blend DA27 Framed Baroque	Honed	(11"x12-5/8"x3/8" sheet)	1/8"	2	A	H	EW/SF	EW/SF	Tunesia & China	China	◀ ◆ ▼ ● ♦ ✨
Waterfall Cool Blend DA91 Random	Polished	3"x Random height x3/8" (12"x12" sheet)	1/8"	2	C	R	EW	EW	China	China	◆ ▼ ● ♦ ✨
Waterfall Warm Blend DA92 Random	Polished	3"x Random height x3/8" (12"x12" sheet)	1/8"	2	C	R	EW	EW	Italy, Portugal & Spain	China	■ ▼ ● ♦ ✨

<b>STONE A' LA MOD</b>											
Contempo White M313 Wedge	Polished	2"x3"x3/8" (12"x13-3/8" sheet)	1/8"	1	A	H	SW	SW	Greece	China	◆ ▼ ● ♦ ✨ ✦ ✧ ✨
Contempo White M313 Linear	Polished	5-3/4"x1/2"x3/8" (12"x12" sheet)	1/8"	1	A	H	SW	SW	Greece	China	◆ ▼ ● ♦ ✨ ✦ ✧ ✨
Contempo White M313 Oval	Polished	1-1/2"x3/4"x3/8" (11-3/4"x12" sheet)	1/8"	1	A	H	SW	SW	Greece	China	◆ ▼ ● ♦ ✨ ✦ ✧ ✨
Contempo White M313 Mosaic	Polished	1/2"x1/2"x3/8" (12"x12" sheet)	1/8"	1	A	H	SW	SW	Greece	China	◆ ▼ ● ♦ ✨ ✦ ✧ ✨
Contempo White M313 High-Low Random	Polished & Honed	2" High-Low Random x1/4",1/2",3/8" (11-3/8"x11-3/8" sheet)	As needed	N/A	A	H	SW	SW	Greece	China	◆ ▼ ● ♦ ✨ ✦ ✧ ✨
Contempo White M313 Basketweave	Honed	1-1/2"x3/4"x3/8" (12"x12" sheet)	As needed	N/A	A	H	SW	SW	Greece	China	◆ ▼ ● ♦ ✨ ✦ ✧ ✨

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<b>STONE A' LA MOD (continued)</b>											
Contempo White M313 Random Brick-joint	Split Face	3/8" Random x3/8" (11"x11" sheet)	As needed	N/A	A	H	SW	SW	Greece	China	◆ ▼ ● * ✦ ✧
Contempo White M313 High-Low	Split Face	3/4"x3/4"x1/4" to 1/2" (12"x12" sheet)	As needed	N/A	A	H	SW	SW	Greece	China	◆ ▼ ● * ✦ ✧
Uptown Blend M314 Block Random	Polished	Block Random Blend x 3/8" (12"x12" sheet)	1/8"	1	C	L	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 Wedge	Polished	2"x3"x3/8" (12"x13-3/8" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 Linear	Polished	5-3/4"x1/2"x3/8" (12"x12" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 Oval	Polished	1-1/2"x3/4"x3/8" (11-3/4"x12" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 Mosaic	Polished	1/2"x1/2"x3/8" (12"x12" sheet)	1/8"	1	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 High-Low Random	Polished & Honed	2" High-Low Random x1/4",1/2",3/8" (11-3/8"x11-3/8" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 Basketweave	Honed	1-1/2"x3/4"x3/8" (12"x12" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 Random Brick-joint	Split Face	3/8" Random x3/8" (11"x11" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
Urban Bluestone L222 High-Low	Split Face	3/4"x3/4"x1/4" to 1/2" (12"x12" sheet)	As needed	N/A	B	M	SW	SW	China	China	◆ ▼ ● * ✦ ✧
<b>FASHION ACCENTS</b>											
Module Carrara White FA01	Polished M701	2"x11-1/2"x3/8" Mesh Mounted	1/4"	1	A	L	EW/EF	EW/EF	China	China	◆ ▼ ● * ✦ ✧
Module Chenille White FA02	Polished L191	2"x11-1/2"x3/8" Mesh Mounted	1/4"	1	A	L	EW/EF	EW/EF	China	China	◆ ▼ ● * ✦ ✧
Twisted Rope Beige FA03	Honed **L346 & L340	2-14"x12"x3/8" Mesh Mounted	1/4"	1	C	L	N/A	N/A	China	China	◆ ▼ ● * ✦ ✧
Twisted Rope White FA04	Honed M190 & Textured Porcelain	2-14"x12"x3/8" Mesh Mounted	1/4"	1	A	L	EW/EF	EW/EF	China	China	◆ ▼ ● * ✦ ✧
Framed Baroque FA05	Blend M701 Polished & Leathered S762	2-3/4"x11-1/8"x3/8" Mesh Mounted	1/4"	1	A	L	N/A	N/A	China	China	◆ ▼ ● * ✦ ✧
Scalloped Beige FA10	Honed & Waterjet **L346 & L340	3"x12" Mesh Mounted	1/4"	N/A	C	L	N/A	N/A	China	China	◆ ▼ ● * ✦ ✧
Scalloped White FA11	Honed & Waterjet M190 & M053	3"x12" Mesh Mounted	1/4"	N/A	A	L	N/A	N/A	China	China	◆ ▼ ● * ✦ ✧
Almond Eye Beige FA12	Honed L340 & Textured Porcelain	3-1/2"x12"1/2" Mesh Mounted	1/4"	1	C	L	N/A	N/A	China	China	◆ ▼ ● * ✦ ✧
Almond Eye White FA13	Honed M420 & Textured Porcelain	3-1/2"x12"1/2" Mesh Mounted	1/4"	1	A	L	EW/EF	EW/EF	China	China	◆ ▼ ● * ✦ ✧

\* L340 Blavet Blanc Large field tile sizes (12x12", 12x24", 6x18", 18x18") come pre-sealed with VH72 solvent based sealer to protect the stone from staining at time of installation and grouting. Re-seal large field tile sizes as needed depending on traffic.

When re-sealing Blavet Blanc, only use these recommended products:

• Manufacturer: DuPont; Sealers: BulletProof®, Impregnator Pro®, Enhancer Pro™

• Manufacturer: Aquamix; Sealers: Ultra-Solv, Pro-Solv

Refer to Dupont and Aquamix websites for more information on the above products.

\*\* L346 Moselle Gris and L351 Sormonne Brun honed finish may present some granular areas that are a natural characteristic of the stone. These are created by soluble salts present in the body of the stone, which come to the surface while the stone undergoes the natural drying process.

These granier areas do not affect the general look and performance of the stone, and the salt will slowly be removed by regular foot traffic. Should the customer desire to eliminate these salt deposits, Aquamix Eff-Ex can be used prior to sealing the product. Ensure to test a small area to determine the desired results. Refer to Aquamix websites for more information on the recommended product.

\*\*\* A grout release is highly recommended prior to grouting to facilitate the cleaning of the scraped and brushed Hex. Some grout release products may discolor or affect light stones. Make sure to test the product in a small area.

\*\*\*\* Material is not suitable for installation behind a range or an area with high heat exposure.

## NATURAL STONE CARE AND MAINTENANCE GUIDE

Daltile does not manufacture installation products or tile cleaning/maintenance products. Daltile provides the information below to its customers as an information source only. *Please contact an installation product manufacturer directly, PRIOR to usage, to obtain proper handling instructions, application instruction and warnings concerning potential health hazards for any product contemplated for use.* Daltile also strongly recommends testing a small area PRIOR to usage of any installation/tile cleaning/maintenance product to determine whether the product serves its intended purpose.

### SAFETY PRECAUTION TO CUSTOMERS

The products described in this document may have chemicals that cause reactions in certain individuals. Daltile strongly recommends the use of safety glasses, respirators (masks) and gloves in handling any materials that contain chemicals. Daltile recommends the proper disposal of any scrap tile/stone, installation and/or maintenance products discussed herein.

Natural stone has its own unique qualities that not only distinguish it from man-made materials, but also should be considered in selecting it for a particular project. Stone is not manufactured; it is a product of nature. Blocks are removed from the quarry, slabs are cut from these blocks, and the slabs are further fabricated into the final stone to be installed. Each block is different; each slab is different. Skillful blending or matching of the dimension stone blocks, veneer panels, tops, etc., results in a beautiful blending of nature's variety and man's design. "Uniformity of material," when applied to natural stone, is a term of relative value that needs to be understood when making a selection.

To ensure your natural stone products will provide you with a lifetime of aesthetics and utility, proper maintenance is crucial. Natural stone products are porous by nature and require a different maintenance program than traditional ceramic tile.

### NEW INSTALLATION

Sealing is strongly recommended for newly installed natural stones to provide maximum stain protection. Be careful to select a high quality sealer to protect your natural stone.

#### • Pre-Grout Sealing

Due to the narrow grout joints customarily preferred, a non-sanded grout is strongly recommended for natural stone installations with a grout joint smaller than 1/8". (Grout joints larger than 1/8" should use sanded grout.) This type of grout has very fine particles of cement, polymers, and color pigments that can penetrate the microscopic pores of the stone surface, where they become trapped and may appear as a stain in the stone. Therefore, all travertine, slate, tumbled stone, limestone, honed granites and any stones with a textured surface (such as flamed or scraped) should be sealed prior to the grouting process to protect them from staining. The application of a good quality sealer should be used as a pre-grout sealer and applied again during the final sealing process once the installation is finished.

#### • Sealing

A premium natural look penetrating/impregnating sealer is the normal choice on polished or honed marble, travertine, limestone, granite, or where the natural color of a slate is desired. A stone enhancer sealer is often used on tumbled, brushed stones, where a darker, enriched or highlighted character is desired. When choosing either one of these two types of sealers, make sure the brand you have chosen is formulated to provide maximum stain protection for stone products. Stone products should be tested periodically to ensure that the sealer is working effectively. Penetrating/impregnating stone sealers are a no-sheen, natural look sealer that can be water-based or solvent-based, good for interior and exterior applications. Most quality sealers of this type are rated to protect the stone for several years.

Stone enhancer sealers are also a no-sheen, penetrating/impregnating sealer that is formulated to darken, enrich, and highlight the natural color and beauty of stone products. They will rejuvenate and improve the appearance of worn and weathered stone. However, they will also darken the color of grout joints. They are, generally, suitable for interior and exterior use, and rated to protect the stone for several years.

Always reference manufacturers' literature for specific information on the duration of the sealer's protection and make sure that the sealer is applied in strict accordance with the manufacturer's instructions.

### ROUTINE STONE CARE

Natural stone requires a different maintenance routine than traditional, man-made ceramic tile. Many of the cleaners acceptable for use on ceramic tile can stain, damage, or dull stone. Dirt and dust will scratch the surface of stone. Therefore, stone floors should be vacuumed or dust mopped frequently to remove abrasive agents from the stone surface. Natural stone should be cleaned with neutral cleaners specifically designed for stone. These cleaners contain no acids and are concentrated neutral pH cleaners that will not affect existing sealers or other types of coatings. Stone cleaners should never contain acid or bleach. Acids, even a light solution of vinegar and water, will etch and eventually damage many varieties of natural stone. A solution of the cleaner and water mixed to manufacturer instructions should be applied to the tile surface with a sponge or mop. On walls, kitchen counters, or vanity tops, a spray bottle can be used to apply the cleaning solution. Allow sitting per manufacturer recommended specified amount of time. Agitate with a sponge, synthetic mop, soft bristle brush, or through the use of a floor-scrubbing machine with soft brushes. Mop up dirty solution and buff dry. Be sure to change out the cleaning solution every 100 square feet to avoid reintroducing dirty water during the cleaning process. Rinse thoroughly with

clean water when finished. Make sure to always limit the time water puddles and sits on any type of natural stone and mop dry as soon as possible. Some textured stones may require a different cleaning method or additional procedures not specified in this document.

### HEAVY-DUTY STONE CLEANING

When stone areas have been neglected, you will need to use a heavy-duty stone cleaner and degreaser to effectively remove dirt, grease, grime, waxes, and floor finishes. These cleaning products are concentrated and designed to deep clean the stone without damaging it. Apply the solution of the cleaner and water mix per manufacturer instructions to the stone surface with a sponge or mop. Allow to stand for manufacturer-specified amount of time. Agitate with a sponge, synthetic mop, soft bristle brush, or through the use of a floor-scrubbing machine with soft brushes. Mop up dirty solution and buff dry. Be sure to change out the cleaning solution every 100 square feet to avoid reintroducing dirty water during the cleaning process. Rinse thoroughly with clean water when finished. Make sure to always limit the time water puddles and sits on any type of natural stone and mop dry as soon as possible.

### STAIN REMOVAL

A stone poultice can be used to remove stains and grout haze from stone. Poultice is a fine, non-acidic, absorptive clay cleaning powder that removes stains and light cementitious grout haze from polished and unpolished natural stone. Stone poultice efficacy depends on the nature of the stain and how long the stain has been in the stone. Base the selection of the type of poultice on the nature of the stain. If the stain is too old or has penetrated the stone too deeply, a poultice may not be enough to remove it. Spills should always be cleaned up as soon as possible.

**CAUTION:** Poultice may dull the shine of the polished stone. If this occurs you will need to use a marble polish to restore the natural shine.

### RESTORATION

If your natural stone floor has been damaged or is worn, we recommend that you contact a professional stone restoration company.

### SOME RECOMMENDATIONS FOR USING NATURAL STONE:

**Green Marbles & Serpentine:** A mechanism exists in many green colored marbles and serpentine that produces a warp in the tile when exposed to water, or a water-based adhesive. Since all standard portland-based thinset compounds are water activated, setting these stones in standard thinset will likely warp the freshly set tiles. The only failsafe method for setting these stones is to use epoxy-based thinset. Research is encouraged on the particular stone species that is being installed, because some green marbles and serpentine exist that do not exhibit this behavior, and therefore can be installed with water-based adhesives. Other green stones exist that only mildly exhibit this behavior, and can be successfully installed using thinset with reduced water volumes, or by wetting the exposed surface of the tiles after installation to provide balanced saturation levels on both surfaces.

**Fiberglass Mesh Reinforcement:** Many stone products exist on the commercial market with a mesh reinforcement adhered to the back surface of the slab or tile. The adhesive used to attach the mesh is not uniform within the industry, but is commonly an epoxy or polyester based adhesive. Portland cement based adhesives will not reliably bond to this surface. The use of epoxy based thinset is required to provide adequate bonding of these tiles.

**Staining of Light Colored Marbles and Limestones:** Light colored marbles and nearly all limestones are subject to staining from grey portland cement components in thinset adhesive. Only white thinsets are to be used when installing these stones.

**Sanded Grouts:** The sand found in sanded grout compounds is generally harder than any of the calcium carbonate based stones (limestones, travertines, marble, onyx). The use of a sanded grout with these materials, particularly if polished, will result in unsightly scratches on the surface finish of the stone tile.

**Filled Voids in Travertine:** Travertine, due to its unique method of formation, will typically include voids within the stone fabric. Most commonly, these holes will be filled at the fabrication site with either cementitious or resinous filler. Particularly in the case of cross cut tiles, many voids can exist just below the finished surface, concealed only by a slight shell of stone material. This concealment prevents detection and filling of this void in the factory. Once in service, a concentrated load on a small area (commonly from a spike heeled shoe, or a heavily loaded service cart with small diameter wheels) will fracture the thin shell of stone, exposing the void below. This is a common and expected occurrence in travertine flooring, and several return visits to the installation will be required to fill these voids as they appear.

**Pinholes in Marble:** On a much smaller scale than the voids found in travertine, many marbles may have pinholes visible in the face of the material. Frequency can be as high as 100 or more per square foot. This is not considered a defect, but rather a natural characteristic of the material.

**Excessive Depth of Thinset:** Many stone varieties, particularly the softer marbles, limestones, and travertines, are extremely vulnerable to non-uniform shrinkage of thinset adhesives. The shrinkage during cure of the thinset can actually warp the tile enough to produce an extremely fine, although visible, crack in the stone. Extreme care should be exercised in substrate prep and installation to provide a uniform depth of thinset adhesive that is within the minimum and maximum depths prescribed by the adhesive manufacturer.

## NATURAL STONE CARE AND MAINTENANCE GUIDE (CONTINUED)

**Proper Bedding Area:** Natural stones are more vulnerable to cracking as a result of voids in the setting bed than most ceramic products. Back-buttering of the stone tile is essential, and the minimum acceptable bedding area is 95% contact with no voids exceeding 2 in<sup>2</sup> and no voids within 2" of tile corners on 3/8" tile. The minimum acceptable bedding area is 80% contact with no voids exceeding 4 in<sup>2</sup> and no voids within 2" of tile corners on 3/4" or thicker material. All corners and edges of stone tiles must always be fully supported and contact shall always be a minimum of 95% in water-susceptible conditions.

**Grout Dye Staining:** The use of dyes in grouts should always be tested to verify that the dyes will not leach into the stone, causing a "picture frame" stain. This is most common when using grouts of contrasting color, although grouts dyed with matching color to the stone have been known to cause staining in some instances.

**Acid Sensitivity:** The use of natural stones in environments where acid exposure is likely requires a proper stone selection to avoid attack to the stone. Most notably, the calcium carbonate and calcite based stones will react to relatively mild acids, such as lemon juice, vinegar, and sliced tomatoes. The result is not a stain, which could be removed, but an etching of the stone surface, which cannot be removed without refinishing the stone. In polished finish stones, a mild acid attack will usually manifest itself as a "dull" spot within the surrounding glossy surface.

**Delamination:** Many stone varieties have pronounced bedding planes, along which a predetermined "rift" exists. "Rift" is defined simply as the direction along which a stone is most easily split. Bedding planes can be a region of weakness, and some stones, particularly sandstones and some slates, will actually delaminate along inter-bedding plane boundaries after installation. This will result in a portion of the stone thickness separating and dislodging itself from the rest of the stone, and is not related to any failure in adhesive, since the bonded portion of the stone remains in place. Research is required to verify the adequacy of the stone material for the intended application. Differential mineral expansion due to weathering and thermal cycles tend to accelerate this occurrence, and freeze/thaw cycling is obviously an additional factor.

**Lot Specific Issues:** Being products of nature, stones are subject to the variability of any product harvested from nature. Some stone deposits are remarkably uniform through hundreds of feet of depth times vast lateral distances. There are cases of replacement pieces having been quarried to repair or extend building decades old, and the replacements matched the existing nearly seamlessly. In contradiction to these examples, there are quarries where the inter-block, and even intra-block variability are so great that a given lot of material cannot be matched one month later. In such cases, extreme care is necessary to ensure that adequate quantities are ordered, including requirements for waste, breakage, and attic stock.

**Lippage vs Grinding in Place:** Lippage in stone tile flooring is accentuated from what would be perceived in a ceramic tile flooring for several reasons. Natural stones tend to be installed with tighter joints, they typically have extremely slight, or no chamfer at their edges, and many natural stones are provided in a very high gloss, polished surface finish. Industry standards limit lippage between adjacent units of smooth finished natural stone flooring to 1/32", which is approximately the thickness of a standard, plastic credit card. When this is not achieved, there is the option of grinding the stone tiles in place to eliminate the lippage. This work is to be done by skilled, experienced technicians, as care must be taken to avoid a "wavy" looking finished floor. In some cases, installing contractors will plan to grind the finished floor regardless of the lippage amount, usually per the requirement of the client. Lippage should still be minimized to the extent possible during installation to avoid extremely thin stone sections after grinding.

**Requirement for Pre-soaking:** Installing high porosity stones in hot, dry climates often requires that the stone be pre-soaked prior to installation. Failure to do so can result in the stone wicking excessive amounts of water out of the setting bed, leaving the bed with inadequate water to accomplish proper hydration of the cements.

**Translucence:** May occur in some white or very lightly colored marbles and onyxes having a crystal structure that will transmit light to varying degrees depending upon stone thickness and finish. Translucence can be an aesthetically intriguing decorative attribute.

**Mixing Types of Materials:** Designs calling for a mixture of stones with different physical properties, while aesthetically interesting, can give rise to problems of wear and of maintenance, mainly on floor areas. Re-polishing will pose problems, should that need arise. The Specifier should be aware that mixing types of stones means there will be different abrasion resistance levels as well as different densities of stones that must be considered in the long term maintenance of the stone and its wearability.

**Yellowing:** A stone may turn yellow due to dirt or soap scum set in it. Waxes and other types of coatings can also yellow with age. Certain stones will naturally yellow with age as a result of oxidation of the iron within the stone. This is especially true with white marbles.

**Rusting:** Some stones, and specifically slates, contain deposits of minerals that can react to moisture. Stone bleeding or rusting is a common example of this. Caution should be used in installations where slate would be exposed to standing, run off water or too much humidity. As water works its way through the stone, if the stone contains iron oxide, some of it may liquefy. This iron will eventually surface through the stone and deposit itself on the surface of the stone. The rust will return over time and may have to be cleaned periodically.

### MOST COMMON STONE FINISHES:

**Polished:** Mirror gloss, with sharp reflections.

**Honed:** Dull sheen, without reflections, achieved by abrasive heads. The degree of honing depends on the stone, but may vary from light to heavy. Generally, it is recommended that a natural stone floor receive a honed rather than a highly polished finish in commercial applications. Etching, scratching, and traffic paths will be far less obvious on a honed surface, thus making for easier maintenance.

**Flamed or Thermal:** Plane surface with flame finish applied at high temperature by mechanically controlled means to ensure uniformity; changes the color of the stone.

**Water-jet Finish:** Gives a more uniform, textured finish and allows more of the natural color to show.

**Sandblasted:** Coarse plane surface produced by blasting an abrasive, allowing a fine-textured finish; may lighten the color.

**Bush-hammered:** Coarsely textured surface produced by hammering, and may vary according to the metallic head used, from fine point to very coarse, and may leave high, lighter-colored markings.

**Natural Cleft:** A cleavage face formed when the stone is split into any thickness.

**Tumbled:** Method of putting tiles in a mixing container with sand and rotating them, allowing the edges and corners of the tiles to chip. This method is used to give an antique and old look.

**Brushed:** This finish is created by using specific brushes to give the stone a softer, aged look. When stones are brushed, micro-veins open up. With traffic, brushed stones will increase their patina naturally and more veins may open up.

**Gauged:** Done by a machine, usually with circular abrasives to grind the material to a specific thickness.

## SPECIAL LIMESTONE INSTALLATION GUIDE

This installation guide applies to the following stones for horizontal and vertical applications:

Matterhorn Limestone L011  
Chadwick Charcoal Limestone L015  
Lagos Blue Limestone L983

Limestones are natural stone products and due to their natural characteristics it is important that the proper installation materials and methods are used. We recommend that the installation materials are specified by a single source/manufacturer of natural stone installation products. All installation materials should be used according to the manufacturer's instructions. The stone is to be installed per industry standards and applicable building codes.

### MATERIALS:

These stones can be moisture sensitive during the installation process; therefore, the thin-set adhesive must be an ANSI A118.4 or ANSI A118.15 Rapid Setting Modified Dry-Set Cement Mortar that will allow the stone to achieve a "Class A rating," when tested according to the **Modified British Standards (BS) EN 14617-12 Dimensional Stability Test within the first 24 hours**. For exterior applications, use an ANSI A118.3 Epoxy adhesive to achieve a Class A rating. Follow the Stone Usage Guide to determine if the stone is suitable for Exterior Residential and/or Exterior Commercial Usage.

### SUBSTRATE:

It is recommended to install these Limestone over a clean and sound concrete substrate, which is flat, with a steel trowel and fine broom finish. The concrete substrate should readily absorb water and be free of contaminants; including curing compounds, which may prevent a good bond. Deflection of a concrete substrate should not exceed L/360 for horizontal surfaces or more than L/600 for vertical applications. For wood subfloors deflection is not to exceed L/720. Floor configurations shall be in conformance with the IRC for residential applications, and IBC for commercial applications. Mortar bed applications must comply with ANSI A108.1. Tiles installed using a wet-set mortar method, must only use dry-pack mortars that are fully compacted, and reinforced for unbonded mortar beds. Substrates should be free of cracks. Use the installation material manufacturer's membrane for crack isolation and waterproofing protection.

### PREPARATION:

Prior to installation the installer shall examine the areas to be covered, and notify the general contractor or owner representative of any visually obvious defects or conditions that will prevent a satisfactory tile installation. Installation work shall not proceed until satisfactory conditions are provided. Before starting, the surface to be tiled shall be cleaned/scarified to remove curing compounds, sealers, soil, mortar, or any type of contaminate that would interfere with bonding. All rough,

uneven or "out-of-plumb" surfaces shall be made flat, "plumb and true" to within 1/8" in 10' (3mm in 3m) and 1/16" in 24" (1.6mm in 600mm). High spots should be ground down and low spots should be filled. If necessary, use a cementitious self-leveling underlayment to bring floor into tolerance for flatness.

### MOVEMENT JOINTS:

Locate, design, and install movement joints per TCNA EJ171-(Current Year) Industry recommendations. Existing joints in subsurface must be carried through tile work. Movement joints should be installed at all "changes of plane" in the tile work and where tile abuts restraining surfaces, at every 20' to 25' for interiors and 8' to 12' for all exteriors and interior areas exposed to direct sunlight or moisture, in each direction.

### WATERPROOFING AND CRACK ISOLATION MEMBRANES:

Follow the Stone Usage Guide to determine if the stone is suitable to be installed in wet applications and/or in exterior areas.

A waterproof membrane should always be applied over the substrate prior to installing the stone to minimize the risk of efflorescence and spalling. Additional waterproofing protection is required in all wet applications and exterior areas. Where necessary, a crack isolation membrane should be used to either isolate existing cracks in the substrate or to provide protection against future substrate cracking. When using Limestone in showers get approval by installation product's manufacturer. Use only membranes as supplied by the installation manufacturer for single source responsibility that is part of their labor and material warranty. For stone to be used successfully in wet areas, it must be installed in a manner so there are no voids behind the tile for water to collect, and surface and sub-surface water must be able to readily drain away from the stone. Surfaces and sub-surfaces in wet areas must have a slope to drain between 1/4" per foot to 1/2" per foot. Exterior applications must have a waterproof membrane beneath the tile.

### INSTALLATION OF TILE:

Install stone tiles per installation product manufacturer's instructions and to meet industry standards per ANSI A108, TCNA Handbook for Ceramic, Glass, and Stone Tile Installation, and Marble Institute of America Dimension Stone Design Manual Standards. It is necessary to contact the manufacturer of installation products to qualify which products to use for the intended application. The thin-set adhesive should be an ANSI A118.4 or ANSI A118.15 Modified Dry-Set Cement Mortar, or a Rapid Setting Modified Dry-Set Cement Mortar if accelerated curing is required. White thin-set should be used for light color tiles and when using light color grouts. For concerns with dimensional stability the rapid thin-set selected for installing this stone must achieve a "Class A rating," when tested according to the **Modified British Standards (BS) EN 14617-12 Dimensional Stability Test within the first 24 hours**. Use an epoxy adhesive if necessary. For exterior applications an epoxy must be utilized.

## SPECIAL LIMESTONE INSTALLATION GUIDE CONTINUED

Clean the back of the tile and the substrate during the installation process. The thin-set adhesive must be applied to the cleaned substrate surface to be tiled and to the back of the tile with the flat side of trowel using a firm scraping motion to key the thin-set into the surface to be covered. While the thin-set applications are still tacky, back-butter the tile with more thin-set by troweling so the thin-set ridges are parallel to the short side of the tile, and parallel to each other, to ensure substantially 100% thin-set coverage and full contact between the tile and substrate (no thicker than 1/4" after compressed). Only apply as much thin-set to the substrate that can be covered with tile without the thin-set skinning over. Set the tile into the setting bed of thin-set, and beat and slide it into place perpendicular to the direction of the trowel ridges to ensure full contact. Tiles should be installed to be in-plane to the surface of adjacent tiles to avoid excessive tile lippage. It is recommended that grout joint widths are at least 1/8" wide and never butted together. Tiles should be aligned to achieve uniform grout joints. Thin-set should be allowed to set until firm before grouting. Excess thin-set must be cleaned from the tile surface and grout joints while the thin-set is still fresh.

### GROUTING:

If necessary, prior to grouting apply an appropriate breathable stone sealer or grout release to the tile to facilitate cleaning and for protection against staining from setting materials and contrasting color grouts. Grout joints should be packed full and free of all voids and pits. Excess grout should be cleaned from the surface as the work progresses, while grout is fresh and before it hardens. No acids should be used for cleaning. Prior to grouting, test an area to make sure the surface does not scratch or stain during grouting. Follow manufacturers' recommendation for the use of sanded or unsanded grout, which is determined by the width of the grout joint. For wider grout joints use a grout bag to fill joints and strike joints after they have become finger-print hard.

### SEALING:

After the stone is installed, grouted, properly cured, and clean, seal the stone with an appropriate high quality breathable stone sealer to minimize water absorption, efflorescence, and potential staining. If necessary, apply an anti-graffiti coating that is compatible with the stone. Follow sealer manufacturers' installation instructions and reseal the tile as necessary to provide adequate protection from staining and spalling.

### PROTECTION:

The tile installer shall take precautions to protect the finished work from damage by other trades and traffic. Do not allow construction traffic on fresh tile or grout joints. Allow the grout to cure for a minimum of 7 days before aggressive use or steam cleaning.

### MAINTENANCE:

Regular dust mopping or sweeping to remove grit and dirt from the surface is recommended, or use an appropriate mechanical method. Keep the tile surface clean and use walk-off mats at door entrances to minimize wear on tile and to provide protection against slipping during wet conditions. For cleaning, as needed, use a neutral cleaner to scrub tile and grout. For floors it is recommended to use a wet and dry vacuum for picking up dirty water after cleaning and rinsing. As necessary reseal the tile to maintain protection against staining and spalling. If drops of water do not bead up on tile surface and/or if stone absorbs water causing it to darken in those spots, then it is time to reseal the tile. Proper maintenance of a stone tile installation will extend the beauty and functional life of the tile, as well as keep it a safe area for public use. For exterior applications, don't allow sprinklers to over spray onto the tile surface.



Photo features Center City™ Chadwick Charcoal Limestone 8" x Free Length Pattern on the floor and Carlton Beige Limestone linear mosaic on the wall.