

2016

STONE  
USAGE  
GUIDE

IMAGINE WHAT'S POSSIBLE™



Photo features Chenille White Limestone 3 x 1-1/2 marquis mosaic.  
Cover photo features Petrified Forest Travertine 8 x 36 field tile on the floor and  
Glass Horizons Atlantic Blend 3/4 x random linear mosaic on the wall.

## 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 DalTile 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.)
- ✘ 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. Please contact your sealer manufacturer 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.
- Large heavy tile 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.

**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.

### 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 Dal-Tile. Check local building codes prior to specification or installation to verify that product technical characteristics comply with required parameters.

## EXTERIOR USAGE

- ☼ Suitable for exterior application in freezing and non-freezing climates.
- EF Suitable for covered\* exterior floors in freezing and non-freezing climates.
- EW Suitable for covered\* exterior walls in freezing and non-freezing climates.
- EC Suitable for covered\* exterior countertops 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.

## 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>MARBLE</b>											
Argun Gray M102 Versailles Pattern	Leather & Brushed Edge	16" x 24" x 5/8", 16" x 16" x 5/8", 8" x 16" x 5/8" & 8" x 8" x 5/8" (sold in pattern only)	1/16"	3	B	M	EW	EW	Turkey	Turkey	◆ ▼ ● ✦ ✧ ✨
Botticino Fiorito M704	Polished	18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	2	C	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨
Botticino Semi Classico M703	Polished	12" x 12" x 3/8"	1/16"	2	C	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨
Breccia Oniciata M705	Polished	12" x 12" x 3/8"	1/16"	1	D	H	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨
Calacatta Gold M475	Polished	12" x 24" x 3/8", 18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	2	B	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨ ✖
Calacatta Gold M475	Honed	12" x 24" x 3/8", 18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	2	B	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara Gioia M702	Polished	12" x 12" x 3/8"	1/16"	2	A	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701	Polished	12" x 24" x 3/8", 18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	2	A	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701	Honed	12" x 24" x 3/8", 18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	2	A	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701	Polished	3" x 6" x 3/8"	1/16"	2	A	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701	Honed	3" x 6" x 3/8"	1/16"	2	A	M	EW	EW	Italy	Italy	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 1 x Random	Polished, Honed & Sand Blasted	1" x Random (12" x 12" sheet)	As needed	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 2" Hexagon	Polished	2" x 2" x 3/8" (13" x 12-1/2" sheet)	1/8"	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 Abstract	Polished	1" & 2" x 3" x 3/8" (12" x 12" sheet)	1/8"	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 Baroque	Polished	3" x 3" x 3/8" (13-3/8" x 13-3/4" sheet)	1/8"	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 Cladding	Polished	2" x 3/8" x 1/4" to 1/2" (12" x 13" sheet)	As needed	N/A	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 Marquise	Polished	3" x 1-1/2" x 3/8" (13-3/8" x 13-3/4" sheet)	1/8"	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 Modern	Polished	Irregular shape x 3/8" (12" x 12" sheet)	1/8"	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 Oval	Polished	1-1/2" x 5/8" x 3/8" (12" x 12-1/2" sheet)	1/16"	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Carrara White M701 Triangle	Polished	2-3/4" x 2-1/2" x 3/8" Triangle (11" x 14" sheet)	1/8"	2	A	M	EW	EW	Italy	China	◆ ▼ ● ✦ ✧ ✨ ✖
Cedar Oniciata M715	Polished	16" x 16" x 3/8" & 12" x 12" x 3/8"	1/16"	1	B	H	EW	EW	Greece	Greece	◆ ▼ ● ✦ ✧ ✨ ✖
China Black M751	Polished	12" x 12" x 3/8"	1/16"	2	B	M	N/A	N/A	China	China	■ ▼ ● ✦ ✧ ✨ ✖
Contempo White M313	Polished	12" x 24" x 3/8" & 12" x 12" x 3/8"	1/16"	1	A	M	SW	SW	Turkey	Turkey	◆ ▼ ● ✦ ✧ ✨ ✖
Contempo White M313	Tumbled	6" x 6" x 3/8", 4" x 4" x 3/8" & 3" x 6" x 3/8"	1/8" to 3/8"	1	A	M	SW	SW	Turkey	Turkey	◆ ▼ ● ✦ ✧ ✨ ✖
Contempo White M313	Polished	3" x 6" x 3/8"	1/16"	1	A	M	SW	SW	Turkey	Turkey	◆ ▼ ● ✦ ✧ ✨ ✖
Contempo White M313	Honed	3" x 6" x 3/8"	1/16"	1	A	M	SW	SW	Turkey	Turkey	◆ ▼ ● ✦ ✧ ✨ ✖
Crema Marfil Classico M722	Polished	18" x 18" x 5/8" & 12" x 12" x 3/8"	1/16"	2	C	M	EW	EW	Spain	Spain	◆ ▼ ● ✦ ✧ ✨ ✖
Crema Marfil Classico M722	Honed	12" x 12" x 3/8"	1/16"	2	C	M	EW	EW	Spain	Spain	◆ ▼ ● ✦ ✧ ✨ ✖
Crema Marfil Classico M722	Polished	3" x 6" x 3/8"	1/16"	2	C	M	EW	EW	Spain	China	◆ ▼ ● ✦ ✧ ✨ ✖
Crema Marfil Classico M722	Honed	3" x 6" x 3/8"	1/16"	2	C	M	EW	EW	Spain	China	◆ ▼ ● ✦ ✧ ✨ ✖
Crema Marfil Classico M722 Brick-joint	Polished	1/2" x 1" x 3/8" (12" x 12" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● ✦ ✧ ✨ ✖
Crema Marfil Classico M722	Honed	1" x 1" x 3/8" (12" x 12" sheet)	1/8"	2	C	M	EW	EW	Spain	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>MARBLE (continued)</b>											
Crema Marfil Classico M722 Random	Polished, Honed & Split Face	3/8" x Random x 3/8" (12" x 12" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722	Split Face	1" x 2" x 1/2" (12" x 12" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722	Tumbled	6" x 6" x 3/8", 4" x 4" x 3/8" & 3" x 6" x 3/8"	1/8" to 3/8"	2	C	M	EF/EW	EF/EW	Spain	China	◆ ▼ ● *
Crema Marfil Classico M722	Tumbled	2" x 2" x 3/8" & 1" x 1" x 3/8" (12" x 12" 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" x 12" sheet)	As needed	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 2" Hexagon	Polished	2" x 2" x 3/8" (13" x 12-1/2" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 Abstract	Polished	1" & 2" x 3" x 3/8" (12" x 12" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 Baroque	Polished	3" x 3" x 3/8" (13-3/8" x 13-3/4" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 Cladding	Polished	2" x 3/8" x 1/4" to 1/2" (12" x 13" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 Marquise	Polished	3" x 1-1/2" x 3/8" (13-3/8" x 13-3/4" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 Modern	Polished	Irregular shape x 3/8" (12" x 12" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 Oval	Polished	1-1/2" x 5/8" x 3/8" (12" x 12-1/2" sheet)	1/16"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Classico M722 Triangle	Polished	2-3/4" x 2-1/2" x 3/8" Triangle (11" x 14" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Crema Marfil Elegance M721	Polished	18" x 18" x 5/8" & 12" x 12" x 3/8"	1/16"	2	C	M	EW	EW	Spain	Spain	◆ ▼ ● * ◆
Crema Marfil Elegance M721	Honed	12" x 12" x 3/8"	1/16"	2	C	M	EW	EW	Spain	Spain	◆ ▼ ● * ◆
Daphne White M103	Polished	12" x 24" x 3/8", 18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	3	A	H	EW	EW	China	China	◆ ▼ ● * ◆ ✕
Daphne White M103	Honed	12" x 24" x 3/8", 18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	3	A	H	EW	EW	China	China	◆ ▼ ● * ◆ ✕
Emperador Dark M725	Polished	18" x 18" x 3/8" & 12" x 12" x 3/8"	1/16"	2	C	M	EW	EW	Spain	Spain	◆ ▼ ● * ◆
Emperador Dark M725	Polished	3" x 6" x 3/8"	1/16"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Emperador Dark M725	Honed	3" x 6" x 3/8"	1/16"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Emperador Dark M725 Brick-joint	Polished	1/2" x 1" x 3/8" (12" x 12" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Emperador Dark M725	Honed	1" x 1" x 3/8" (12" x 12" sheet)	1/8"	2	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Emperador Dark M725 Random	Polished, Honed & Split Face	3/8" x Random x 3/8" (12" x 12" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Emperador Dark M725 Split Face	Split Face	1" x 2" x 1/2" (12" x 12" sheet)	As needed	N/A	C	M	EW	EW	Spain	China	◆ ▼ ● * ◆
Emperador Dark M725	Tumbled	6" x 6" x 3/8", 4" x 4" x 3/8" & 3" x 6" x 3/8"	1/8" to 3/8"	2	C	M	EF/EW	EF/EW	Spain	China	◆ ▼ ●
Emperador Dark M725	Tumbled	2" x 2" x 3/8" & 1" x 1" x 3/8" (12" x 12" sheet)	1/8"	2	C	M	EF/EW	EF/EW	Spain	China	◆ ▼ ●