

## THIN SECTION PETROGRAPHIC ANALYSIS

### *“BISCOTTI”*

Mineralogy, Inc. Sample No.: 24111-02

#### ***LITHOLOGIC CLASSIFICATION***

Slightly Fossiliferous, Dolomitic Limestone

#### ***TEXTURAL DATA***

- Very fine to finely crystalline, subhedral, densely interlocked calcite & dolomite
- Mean crystal diameter (calcite matrix): approximately 7-13  $\mu\text{m}$
- Mean allochem grain diameter (rare foram tests): approximately 0.5-0.6 mm
- Maximum allochem grain diameter: 1.95 mm

#### ***THIN SECTION FABRIC***

This limestone sample is characterized as a fine to very finely crystalline, densely interlocked, extensively recrystallized and partially dolomite-replaced, locally burrow mottled, slightly fossiliferous limestone. The limestone is classified as a partially dolomite-replaced, foram lime wackestone using the classification system introduced by Dunham (1962). The fabric of the thin section displays scattered irregularities that are attributed to the activity of burrowing organisms (prior to lithification). This dolomitic limestone is matrix-supported and displays the scattered presence of poorly sorted, and very poorly preserved allochems (mostly foram tests) interspersed with extensively re-crystallized lime mud matrix material. The ‘Almond’ dimension stone displays minor to trace amounts of intercrystalline & intracrystalline (dol-moldic) micro porosity.

#### ***ALLOCHEM GRAIN CONSTITUENTS***

Foraminifera

Undifferentiated, poorly preserved skeletal debris

#### ***CEMENTS & MATRIX CONSTITUENTS***

The calcite matrix, fossil grains and cement constituents are locally replaced with dolomite. The dolomite cement is estimated to account for approximately 25-30% of the overall mineral composition. Traces of hematite ( $\alpha\text{-Fe}_2\text{O}_3$ ) and organic matter (opaque, bitumen-like material) are locally present in association with the calcite matrix material; rendering the stone its subtle almond coloration. Traces of detrital clay matrix material are also locally present (probably illite-rich clay).

#### ***PORE SYSTEM***

This dolomitic limestone sample is characterized by trace to minor amounts of intercrystalline & intracrystalline (dol-moldic) micro porosity. Total porosity present in the thin section sample is visually estimated to account for approximately 1-3% of the bulk volume. The apparent permeability of this stone is estimated to be negligible, suggesting that freeze/thaw degradation of this stone is extremely unlikely for vertical installations (as a building façade).



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Collection	Classic Collection
Finish	Biscotti
<b>BISCOTTI Flat</b>	
Description	6"x24"x3/8" panel with 1-1/4" pieces, glued together creating an interlocking basket woven biscotti look
Colors	Black / Brown / Baja Sand / Chocolate Swirl / Desert Sun / Hazelnut / Mocha Almond / Mocha Latte / Oyster Gray / Oyster Shell /
Height x width	6" x 24"
Thickness	3/8" + texture
Coverage area per piece	1 sq. ft.
<b>BISCOTTI Corner</b>	
Description	6"x12" corner with 1-1/4" pieces glued together creating an "L" Shape panel
Colors	Baja Sand / Black / Desert Sun (Desert Sand + Sand Beige + Red Cherry) / Hazelnut / Red Camel / Oyster Shell
Height x width	6"x12"x6"
Thickness	3/8" + texture
<b>Common</b>	
Use location	Outdoor/Indoor, Waterfalls & Pools
Weight (per sq. ft.)	9 lbs.
Type	Panel
Application method	Mortar / Thin-set
Warranty	Limited Lifetime



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COLORS	VARIATION OF COLORS	DESCRIPTION
Adam Blue	10%	Light Gray background with veins of light and dark blue
Almond	20%	Consistent light almond colour with minimal variation
Baltic	10%	Almond based with small flecks of seashell
Black	20%	Charcoal color with minimal variation in shades
Brownly	30%	Caramel color with splotches of dark brown
Cape Cod	20%	Baltic Based color with a high percentage of grayish seashells
Creamy Chocolate	30%	Milk chocolate color with a small percentage of cream color
Creamy Peach	40%	Blend of tan, beige and peach shades
Desert Sand	40%	Medium beige based color contained with black speckled veins
Oyster Gray	20%	Combination of light to dark tones of gray
Red Camel	20%	A mustard based color with red wine splotches and knots
Red Cherry	20%	Red and beige base color with black speckled veins
Red Rock	30%	Varying shades of rosy brick, mixed with gold and cream hues
Rosso	20%	Variation of tan base with red spots
Sand Beige	20%	Beige colored with minimal variation
Wavy honey	40%	A high variation of earth tone colors including honey cream and milk chocolate shades
Rojo Blush	20%	Tan base with shades of red and black speckled veins
Gray Basalt	30%	Asphalt gray with black specs
Black Basalt	30%	Dark color with minimal variation in shades