

**True Stone Honeycomb
Composite Finishes**





Yongsan KTX Train Terminal in Seoul, Korea. The name has now been changed to HDC Duty Free. Completed in 2016 using Silver metallic 10mm thick 15,755SM.



Osong high-speed train station in Osong, Korea. 100mm thick Silver metallic color 18,000SM. Completed in 2011.



Salalah International Airport Expansion Passenger Terminal Bldg in Salalah, Oman. Completed in 2014 with 20mm thick Silver metallic, 14,120SM.

Grand View's Alucomb Panels Offer a Robust Yet Lightweight Cladding Solution for Natural, Beautiful Aesthetics with High Quality Standards.

Alucomb is constructed with hexagonal honeycomb shapes of aluminum core between two sturdy aluminum sheets or with a stone finish. With Grand View's progressive technology, up to 10 meters of panels can be produced each time with the patented Automatic Manufacturing Facility (AMF) machine. With this innovation, Alucomb is constructed through one of the most advanced technologies in the industry.

For consistent, long lasting color finishes, Kynar 500 PVdF (Polyvinylidene difluoride) supplied by PPG Inc. is utilized. Kynar 500 is the most superior grade resin that provides outstanding resilience to abrasion, humidity, impact, salt spray and weatherability. All coatings are tested and supported by PPG Inc. to AAMA 605.2 requirements. Moreover, finishes come in 2 or 3 coats as well as 5 to 30 years warranty.

For specific warranty periods, please consult with our team before order placement. The finish chart proposes a wide variety of our natural stone patterns. Be sure to view our additional brochures for our standard solid and metallic colors, stone pattern (texture or non-texture), that could be applied to honeycomb panels. If you do not see the color or pattern that matches your need, we will be glad to produce the custom color for you.

Finish Performance Properties (25mm thick)

Mechanical Specification			
1. Flatwise Strength	ASTM C 297	MPa	≥ 0.4
2. Flatwise Compressive Strength	ASTM C 365	MPa	≥ 1.0
3. Flexural Strength	ASTM C 393	MPa	≥ 7
4. T-Peel Strength	ASTM D 1876	N/50mm	≥ 100
5. Acoustic Reduction, Rw	ISO 717-1	dB	23
6. Thermal Resistance	ASTM E 1461	m²K/W	0.009
7. Thermal Conductivity	ASTM E 1461	W/mK	2.7
8. Temperature Stability		°C	-20 ~ +70

Aluminum Core Specification			
1. Aluminum Alloy	ASTM B 209	-	3104
2. Temper of Aluminum	ASTM B 209	H	18
3. Tensile Strength	ASTM B 209	N/mm²	≥ 205
4. Elasticity Modulus	ASTM D 638	N/mm²	69,000
5. Elongation	ASTM B 209	%	≥ 1.0

Adhesive Specification			
1. RoHS, Halogen	IEC 62321	-	N.D. (Not Detected)
2. LOI	ASTM D 2863	-	20.6

Fire Behaviour			
1. Fire Propagation	BS 476, Part 6	-	Index 0
2. Surface Flame Spread	BS 476, Part 7	-	Class 1
3. Non Combustibility	ISO 1182	-	Class 1
4. Smoke Generation	ASTM E 662	-	Ds(1.5)=1 Ds(4.0)=1 in flaming mode
		-	Ds(1.5)=1 Ds(4.0)=1 in non-flaming mode
5. Surface Flammability	ASTM E 162	-	Is = 5
6. NFPA 130	-	-	Passed

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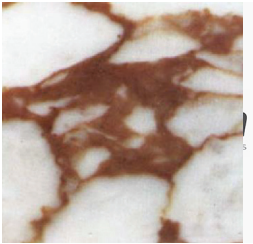




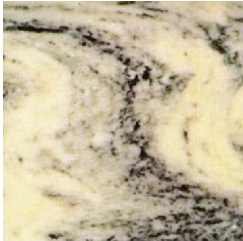











				
Crema Moca	Crema Marfil	Botticino Ivory	Filetatto America	Chiampo Mandorlato
				
Botticino	Brown Light	Giallo California	Ivory White	Light Emperador
				
Tree Branch Vein	Sunny Beige	Travertino Tivoli	Mocha Creme Grao Fino	Bahia
				
Arabescato	Arabescato White	Aran White	Ariston White	Ariston White 2

Given the limitations of commercial printing, all natural stone patterns illustrated in this brochure are as close to the actual patterns as possible.

Please note because stones are harvested from the earth, stones will exhibit different natural sizes and patterns including and not limited to natural cracks, crystals, stone vein direction, holes, and weathering.

Grand View reserves the right to change the stone pattern offering on our marketing materials without notice.

FINISH TYPE

				
Bethel White	Bianco Carrara	Calacatta Delicato	Aalacatta Vagli Extra	Calacatta Vagli
				
Calacatta White	Corchia Venato	Crema White	Cremo Tirreno	Dora Cloud Grey
				
Granite	Grey Crystal	Fior Di Pesco Carnico	Intelle White	New Bianco
				
White Travertine	Shandong Sesame White	Softe Gold	Volakas White	Volakas

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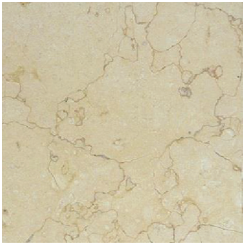
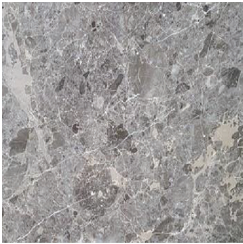










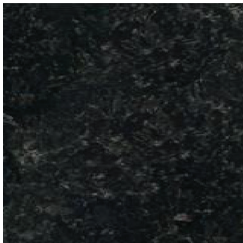

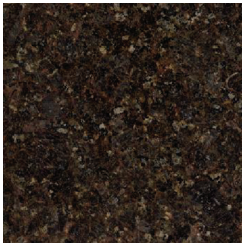
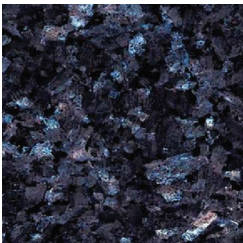
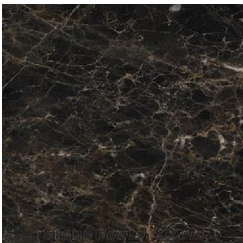
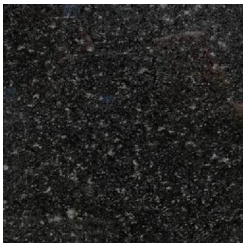
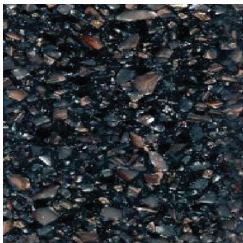
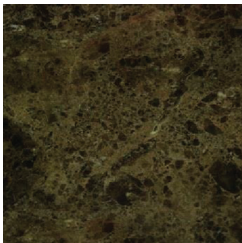
				
White Traventino	Empress Green Marble	Green Marble 1	Green Marble 2	Baltic Red
				
Bardur Red	Carmen Red	Tan Brown	Imperial Red	Giallo Reale
				
Rosso Verona	Rosso Alicante	Yellow Traventino	Cappuccino	Crema Bello
				
Crema Mora	Crema Valencia	Crystal Light	Samaha	Fossil

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FINISH TYPE

				
Galala	Grigio Billiemi	Marone Dark	Tea Rose	Peach Rose
				
Sinai Pearl	Travertino Classico	Filetto Rosso	Platinum Beige	Yellow Wood Grain
				
Travertine Brown	Baltic Brown	Black Crystal	Black Galaxy	Black Spot Granite
				
Blue Pearl	Dark Emperador	Imperial Black	Volcanics Taos	Maron Emperador Dark

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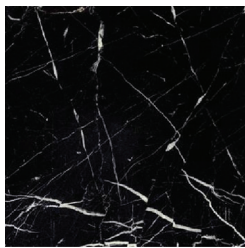
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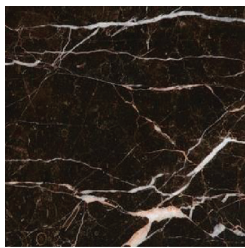
True Stone Honeycomb Composite Line

10-25mm Thick Honeycomb Panels

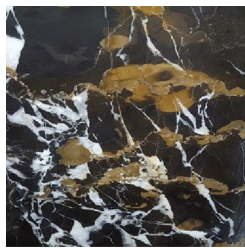
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Nero Marquina



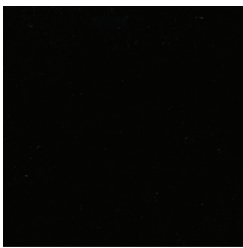
Portor Gold



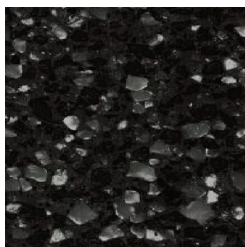
Portoro



Rasso Grigio



Shanxi Black



Volcanics Merapi

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Available Finish Lines

Solid & Metallic Standard Finish Color Line

This color line is handpicked from the most popular color selections our clients use. This color pallet is always in stock allowing architects and designers to readily choose from and meet project delivery schedules.

Natural Woodgrain Design Line

We understand wood requires thorough maintenance over time and is often more expensive compared to other materials. Hence, we offer over 70 woodgrain patterns to choose from.

Natural Earth Stone Design Line

Inspired by nature, this line offers unique texture while displaying imitations of stone. This product enables designers to be truly creative to utilize variations of texture, pattern, color and gloss.

True Stone Honeycomb Composite Line

Harvested from the earth, real stone panels offer a timeless design for pure elegant aesthetics. The patterns of each stone panel are different as they occur in the natural form directly from the earth.





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