OPPEIN STONE
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Oppeinbangkok

OPPEIN STONE

www.oppein-stone.com



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P.113 Slab Corresponding Table



P.113 Certificate

Oppein stone , counte op expe

ABOUT OPPEIN STONE

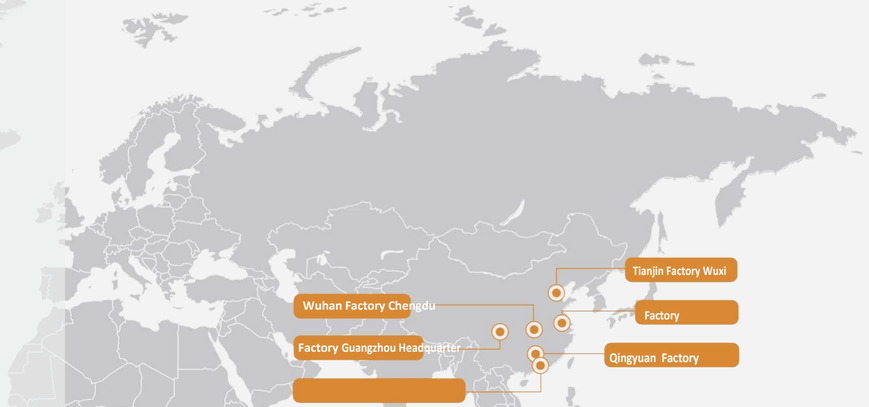
OPPEIN stone, countertop expert, is from OPPEIN Group founded in 1999. OPPEIN stone specializes in the production, development and sales of quartz stone, sintered stone and other hard surface materials. We have our own stone manufacturing factory Owell, which has more than 23 years of experience in hard surface production, and owns 10+ automatic manufacturing line with leading domestic technology. Industry 4.0 technology makes us have became one of the companies with most production lines in the industry.

The core concept of OPPEIN Stone is "insisting on color development, environmental protection, and intelligent control of the manufacturing system". With strong design development, high quality control, supporting services and network resources, we have become one of the first-tier quartz stone brand trusted by consumers. The global demand for quartz stone is growing at a rate of 8.1%. The global market size in 2020 is 18.6 billion USD, and it is predicted to be 32.5 billion USD in 2027. 70% of global stone materials and 50% of quartz stone slabs come from China. And OPPEIN stone has been widespread around the world and exported to 128 countries.

ABOUT OPPEIN GROUP

Founded in 1994, OPPEIN Group is China's No.1 kitchen and customized home decor brand, and the world's largest cabinetry manufacturer. We design and manufacture high-quality kitchens, wardrobes, bespoke home furniture, bathroom products, interior doors, aluminum windows & doors and home furnishing, capable of offering one-stop home décor products and solutions. Output and sales of kitchen cabinet reached 830 thousand sets, ranking No.1 in the kitchen industry.

In 2021, OPPEIN's sales turnover reached USD 3.14 billion, harvesting its consecutive 28th years of growth. Output and sales of cabinets reached 6 million sets, ranking No.1 in the cabinetry industry. Our products have been exported to 118 countries and regions, and the total market value of OPPEIN exceeded 100 billion RMB (USD 15.3 billion) in March 2021.



1 **Guangzhou Headquarter**
Established in 1994, with 444,000m2

2 **Tianjin Factory**
Established in 2011, with 335,100m2

3 **Wuxi Factory**
Established in 2015, with 519,400m2

4 **Qingyuan Factory**
Established in 2017, with 989,300m2

5 **Chengdu Factory**
Established in 2019, with 496,000m2

6 **Wuhan Factory**
Under construction, with 507,000m2













OPPEIN STONE MANUFACTURING PROCESS

OPPEIN Stone Manufacturing processes - Industry 4.0 Technology.

Colour Sorting System

Raw material test and colour sorting:

The Raw material of the OPPEIN STONE quartz stone will be first sent into the fully-automatic colour sorting system after inspection and quality control.
The Colour sorting system will automatically sort raw quartz sand, and the dimension (mesh) of each quartz sand can be controlled precisely, hence, can obtain sand with more balance mesh, enhance the degree of purity and remove the impurity.



Batching System

Intelligential Batching System:

Raw material will be accurately weighted, less error will occur.
Umbrella shape mixing methodology allow all the raw materials have a more balance mixture; Large tank's maximum capacity is 80 tons per time, and indigent will be sealed and transport to avoid exposure and pollution.



Stirring System

Fully Automatic Stirring System:

Raw material will be then stirred at a high speed and uniform condition.
Large blender mixer provide buffer for material, and improve the production capacity; Singe-colour and Multi-colour line deploy multiple blender; a large diameter mixing container within the system is available for storage.
The stirring amount is triple than the traditional unit, the entire production line capacity increase 50-100% more; during the operation, the production environment is dust-free, hence easy to clean and prevent secondary pollution.



Feeding System

Fully-automated Feeding System:

After stirring, the material will arrive feeding system, colour and grain will be generate in this process.
Automatic-weighted and powder spray machine will be included in the system.
This system replace the traditional feeding process (operate by factory worker), can ensure the safety of worker, at the same time, a more uniform feed can guarantee the stabilization of the colour and grain of the product.



Compressing System

Fully-automated Compressing System:

The CNC compressing machine can provide 232 tons of uniform compressing forces, in this process, less interspace will occur due to high excitation, and product will not easily loose and break;
Single-colour-line use high-pressure strong vibration presser, can effectively decrease product's resin content and increase the product density;
Multi-colour-line use the atmosphere presser, solved quality issues (including water-printed, unstable grain, etc.)



Solidification System

Fully-automated Solidification System:

18 layers High Temperature Curing tower, ensure the completed reaction within product and prevent any remaining chemical monomer.
Each production line will deploy one tower, and the inner temperature will be control between 80 degree Celsius and 100 degree Celsius.
This system have auto-feed-in/out and timing function.



Polishing System

Fully-automated Thickness Determination and Polishing System:

The Italian thickness determination machine improve the manufacturing accuracy and the quality of big board, the production efficiency increased 50%; Each CNC grinding head of the Italian 56-heads water polishing machine's injection flow can reach 40L/min, it can guarantee the dust-free environment, and improve the gloss level (10 to 20 degree) simultaneously, the production efficiency increased 20%.



Quality Control

Quality Control:

Quality control area is part of the production area, fully quality check will be provided to ensure best condition of each product.
Lamination equipment and Inkjet printer will protect and code the product, respectively, so that prevent scratch and damage during delivery.
Automatic board-loading and colour-distinguishing equipment in the production line can specific each individual product based on distinct colour.



PRODUCTION PROCESS



Quartz sand and resin will be stirred, mixed, and spread into stone sheet



Automatic Compressing



Warming and curing till solidified



Cutting, Grinding Polishing

Automatic Production Line | Advanced Equipment | Reasonable Technology

Stable Product Quality

OPPEIN STONE SLAB FEATURES

High Hardness, High Scratch Resistance

The national standard for Mohs hardness of quartz stone is Level 5, while the Mohs hardness of OPPEIN Stone's quartz stone can reach Level 6, exceeding the industry standard. Because of its high hardness, OPPEIN Stone's quartz stone is not easy to be scratched in the process of daily use.

Why OPPEIN Stone's quartz stone is High Hardness?

Reason 1: High hardness of the main raw material. High purity quartz sand with 99.9% quartz content and the Mohs hardness of quartz sand is level 7.

Reason 2: The manufacturing process is compacted. High tonnage compressing system, the OPEIN Stone compressing machine can provide 232 tons of uniform compressing forces, increase the product density. Other compressing machines in the industry press pressure are generally in 100 tons.

Reason 3: The manufacturing process is fully cured 90 degrees, high temperature curing, single sheet curing time up to 60 minutes, the sheet is fully cured.



High Toughness, Strong Durability

OPPEIN Stone's quartz stone hard surface, can withstand 450g steel ball from 1200mm height impact, the hard surface without breakage. OPPEIN Stone's impact resistance is better than the A grade hard surface of national standard, hard surface has high toughness and strong durability.

Why OPPEIN Stone has high toughness?

Reason 1: Choose high-quality coupling reagent for high adhesion.

Reason 2: High-tonnage compressing machine to produce high density of hard surface.

Reason 3: Employing Italian experts to guide and monitor formula to achieve best performance.



High Glossiness

OPPEIN Stone has a brightness of 60 degrees without Nano-protective layer, and the brightness of other companies is only about 50 degrees. The brightness of OPPEIN Stone's slabs can reach 60 degrees under natural light; in the same situation, the brightness of the large board of other companies is only about 50 degrees.

Why OPPEIN Stone has high glossiness?

Reason 1: Special polishing system
1. Imported the Italian thickness determination machine.
2. The polishing system has 36 groups of special polishing process.
3. Each group is equipped with 6 grinding heads, each water polishing machine's injection flow can reach 40L/min tap water under slow hard grinding.

Reason 2: High tonnage compressing system, dense substrate.



Impervious and Stain-resistance

Comparing the water absorption rate with other stone materials has been commonly used in the market, quartz will have the lowest water absorption rate at 0.02%. The characteristic of quartz countertops: low water absorption, high density, and better stain performance.

High color fastness

The Quartz sand's entire toning reaction will be completed when curing the raw material at a high temperature of 90-degree celsius. The fneness and fastness level of the raw material color will remain at a high level without yellowing.

Industry 4.0 Technology Supports

OPPEIN has achieved full automation of the entire production chain, while other brands are only partially automated in a certain link and have not achieved full automation.

- Colour Sorting System
- Batching System
- Stirring System
- Feeding System
- Compressing System
- Solidification System
- Polishing System

High Standards

1, high quality raw materials:
The use of environmentally friendly resin, high quality quartz sand and other materials; stable quality of raw materials to ensure the production of slabs.

2, high standards of slabs:
Full inspection of products through online quality inspection room, to ensure that each piece of slabs provided to customers is of excellent quality (OPPEIN Stone has set strict acceptance standards for slabs, to achieve full coverage of online inspection, and will be revised and upgraded according to customer requirements and market fluctuations)

3, Physical and chemical performance standards
The company has an advanced laboratory, the regular slab sampling inspection of the performance can ensure 100% of the physical and chemical properties of the slabs, testing items will include:
Mohs hardness, pollution resistance, chemical resistance, high temperature resistance, water absorption, compression strength, bending strength, wear resistance, ball impact.



Non-standard customization

1, Non-standard Finish

Type		Time
Finish	Monochrome	3 Days
	Complex color, undirected line pattern	5-7 Days

Customers need to provide samples, only provide pictures cannot be toned (particles, solid color sample size in 100 * 100 suitable, small pattern sample size in 200 * 100 suitable, Calacatta White sample size in 200 * 100 above, note that the sample should be cut with Calacatta White texture base color, at the same time need to provide Calacatta White large plate high-definition photos)

Color mixing involves a minimum order quantity, Calacatta White series also involves grinding tool fee

2, Non-standard size

Size		Type
Length	Metric System: 1800-3200 mm (Imperial Units: 70.87-125.98 inch)	MOQ order of 120 pieces of each finish
Width	Metric System: 700-1600 mm (Imperial Units: 27.56-62.99 inch)	

Orders to MOQ, no additional sizing fee.

The full range of product can be made, including medium-large, medium-small, and fine grain series.

The same order can be made in 2 to 3 different sizes in the same batch, which allow an easier processing and increases the utilization rate of the plates.

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CALACATTA SERIES

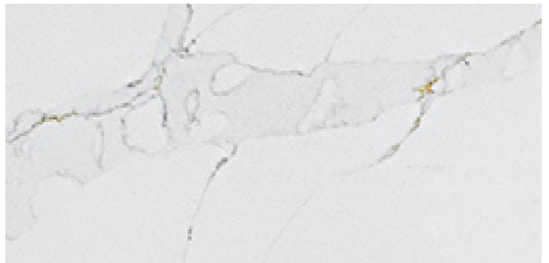
鱼肚白系列

3200*1600mm(126''*63'')

Thickness: 20mm







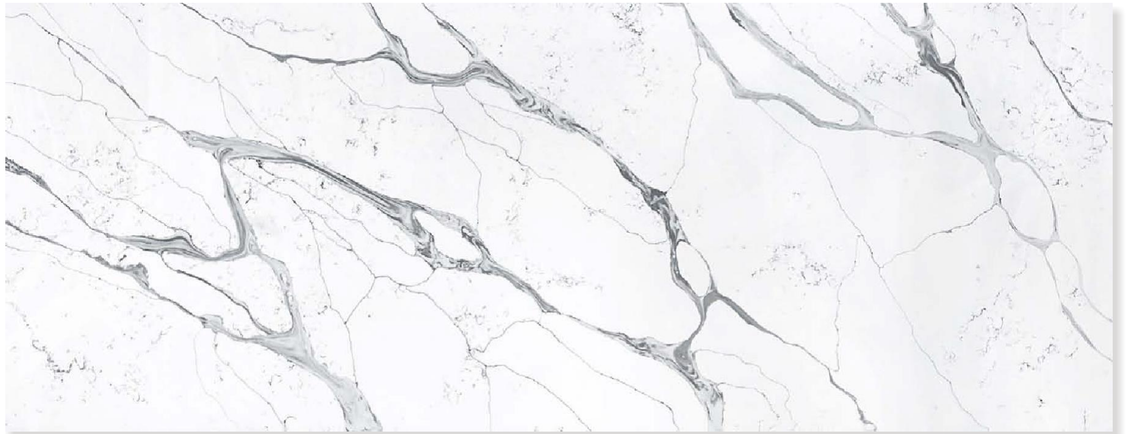
OWS7 152

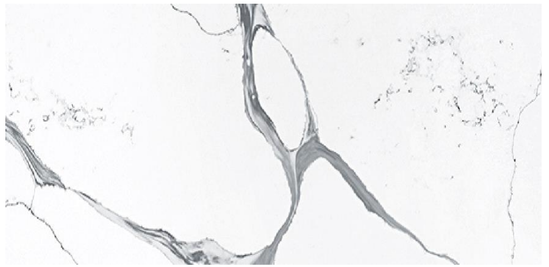
流沙金 Calacatta Bella

3200*1600mm(126''*63'')

Thickness: 20mm







OWS7 153

极地冰川 Oriental White

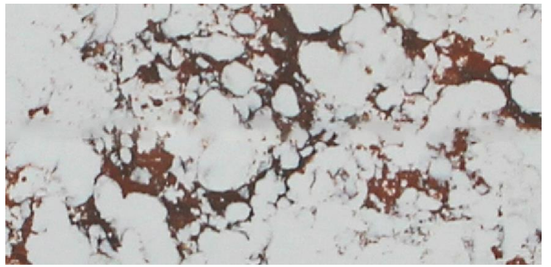
3200*1600mm(126''*63'')

Thickness: 20mm



OWS7 157





OWS7 157

鱼肚金 Calacatta Gold

3200*1600mm(126''*63'')

Thickness: 20mm

SGS NSF ISO 9000







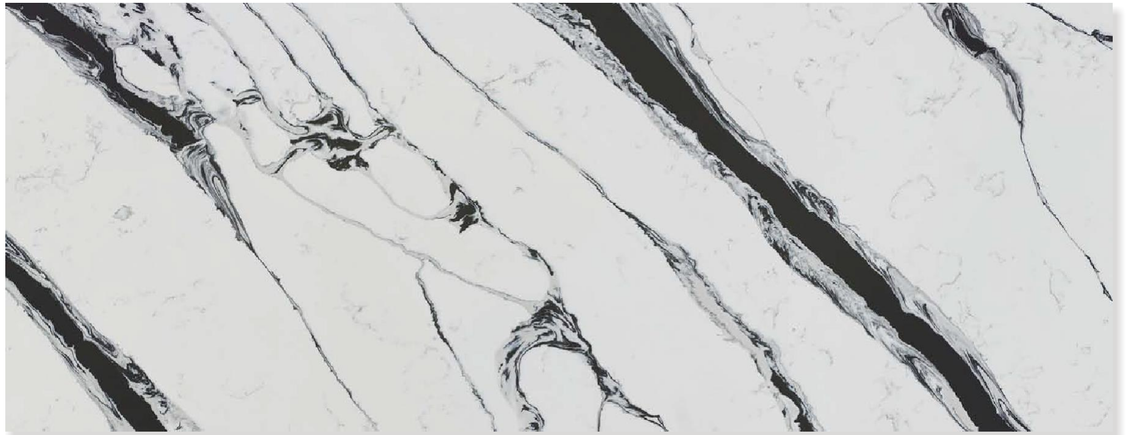
OWS7 158

阿拉斯加白 Calacatta Light

3200*1600mm(126''*63'')

Thickness: 20mm







OWS7 159

熊猫白 Panda White

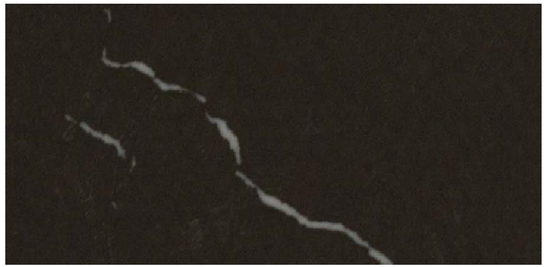
3200*1600mm(126"*63")

Thickness: 20mm



OWS7 160





OWS7 160

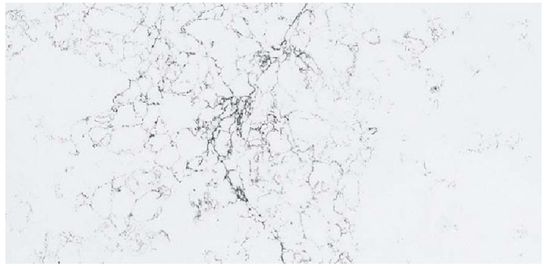
喜马拉雅 Calacatta Black

3200*1600mm(126"*63")

Thickness: 20mm







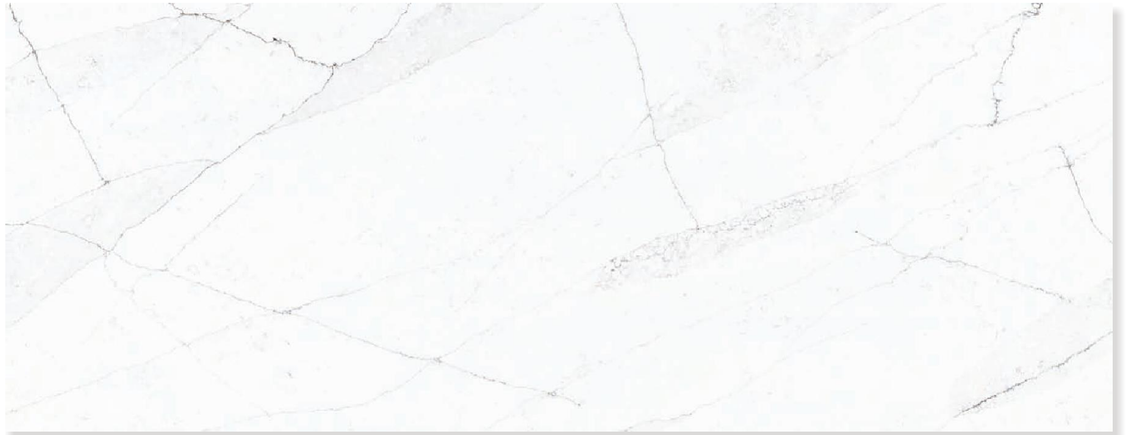
OWS7 161

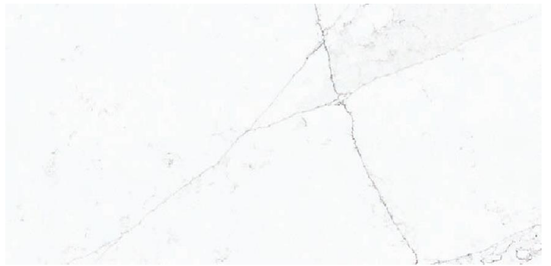
慕斯白 Calacatta Diamond

3200*1600mm(126''*63'')

Thickness: 20mm







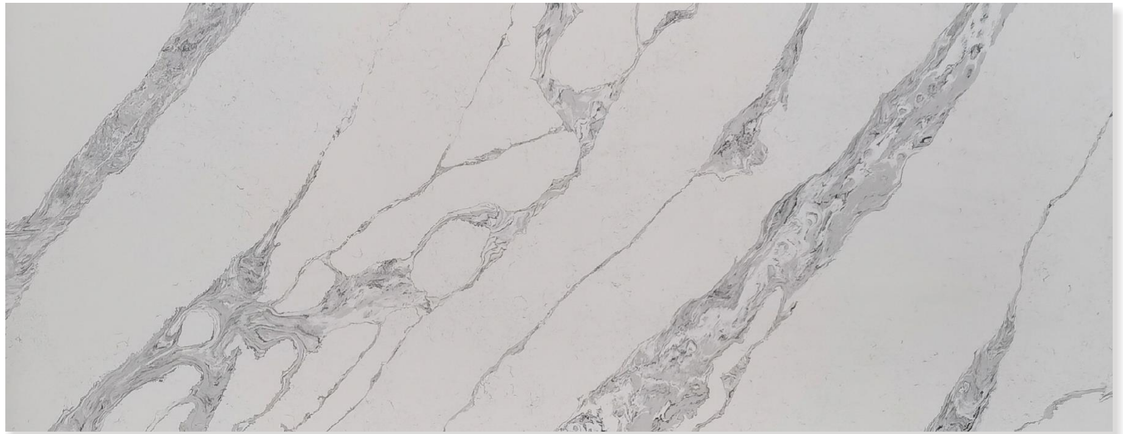
OWS7 162

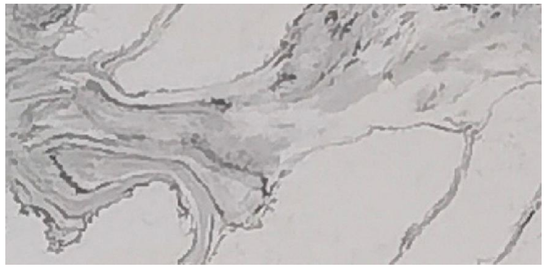
瑶台月 Calacatta Venice

3200*1600mm(126''*63'')

Thickness: 20mm







OWS7 163

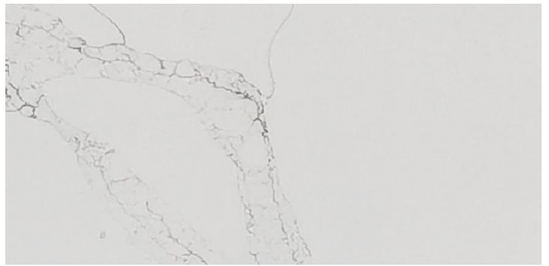
东方破晓 Calacatta White

3200*1600mm(126"*63")

Thickness: 20mm







OWS7 164

鎏金岁月 Calacatta Crack

3200*1600mm(126''*63'')

Thickness: 20mm







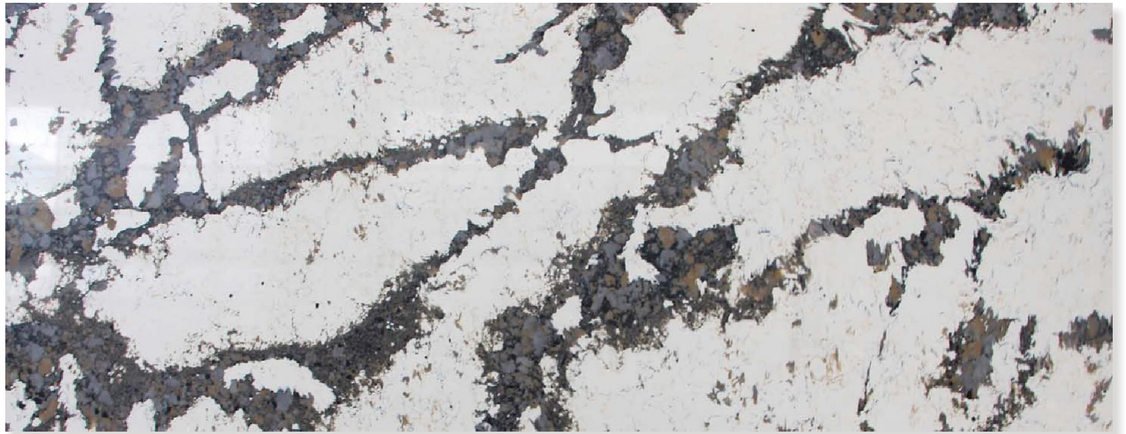
OWS7 165

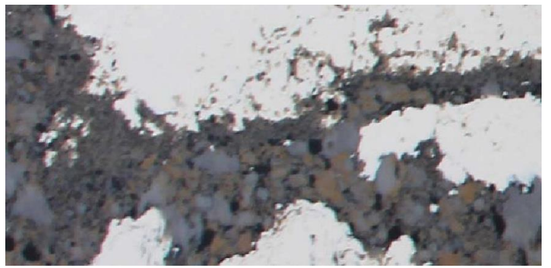
云雾灰 Streamo Grey

3200*1600mm(126''*63'')

Thickness: 20mm





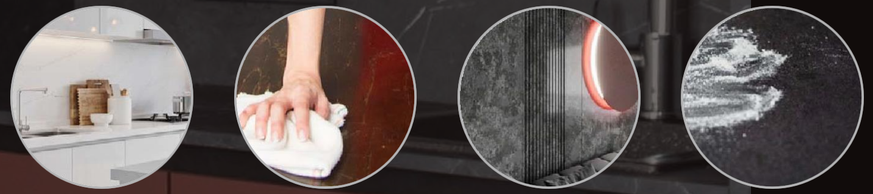


OWS7 166

潘多拉 Pandora

3200*1600mm(126''*63'')

Thickness: 20mm



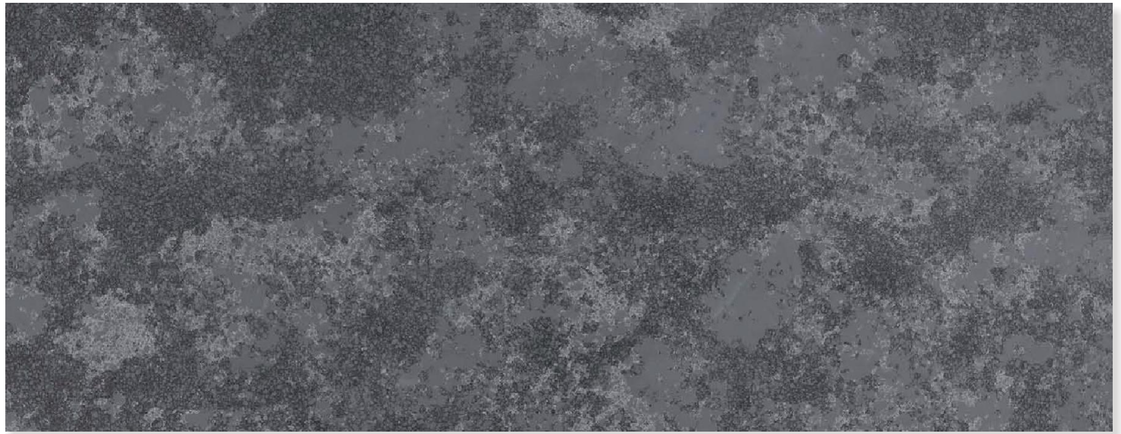
CONCRETE SERIES

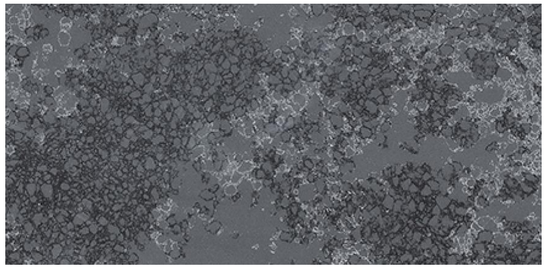
工业风系列

3200*1600mm(126''*63'')

Thickness: 20mm







OWS8 155

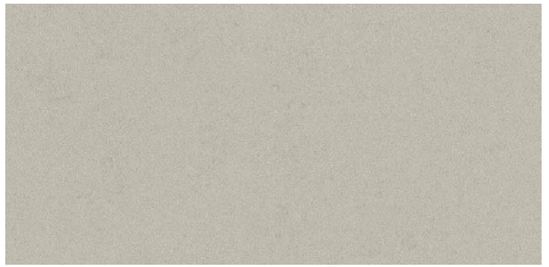
青山墨 Chinese Painting

3200*1600mm(126''*63'')

Thickness: 20mm







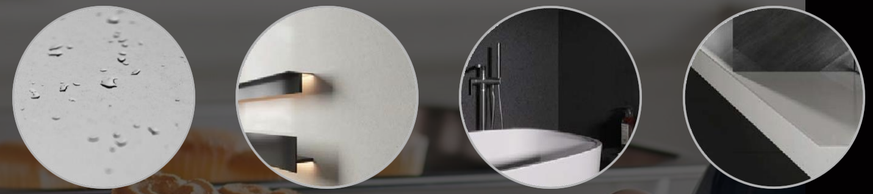
OWS8 167

浪淘沙 Crema Luna

3200*1600mm(126''*63'')

Thickness: 20mm





NATURAL SERIES

简约系列

3050*1520mm(120''*60'')

Thickness: 15mm，20mm







OWS1 172

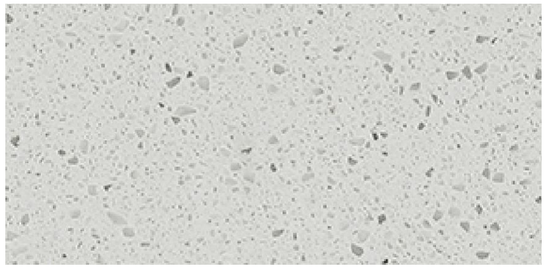
雪花 Ice Snow

3050*1520mm (120"*60")

Thickness: 15mm, 20mm







OWS1 174

水晶 Crystal White

3050*1520mm (120"*60")

Thickness: 15mm, 20mm







OWS1 308

黑水晶 Galaxy Black

3050*1520mm (120"*60")

Thickness: 15mm, 20mm







OWS2 514

银星白 Polar White

3050*1520mm (120"*60")

Thickness: 15mm, 20mm







OWS2 515

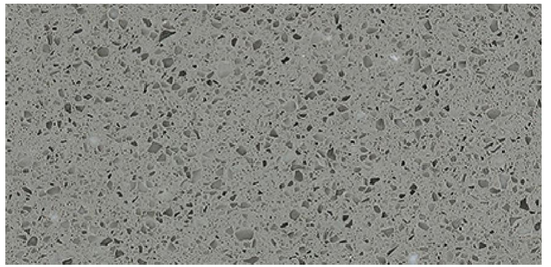
大漠灰 Earl Grey

3050*1520mm (120"*60")

Thickness: 15mm, 20mm







OWS1 611

和世同光 Pebble Grey

3050*1520mm (120"*60")

Thickness: 15mm, 20mm







OWS1 511

天山暮雪 Meridian White

3050*1520mm (120"*60")

Thickness: 15mm, 20mm

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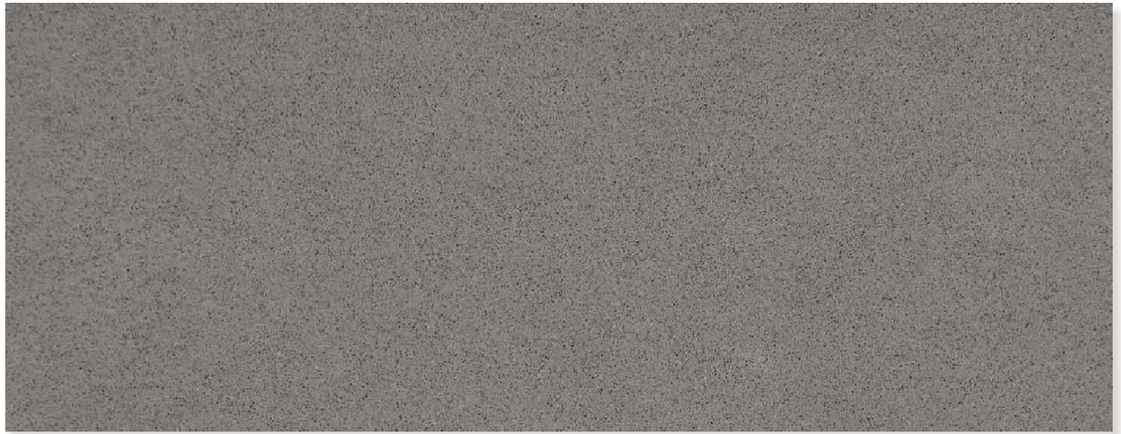
DESIGNER SERIES

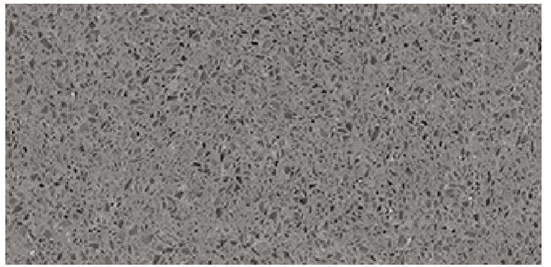
时尚系列

3050*1520mm(120''*60'')

Thickness: 20mm







OWS2 004

沙漠灰 Sand Grey

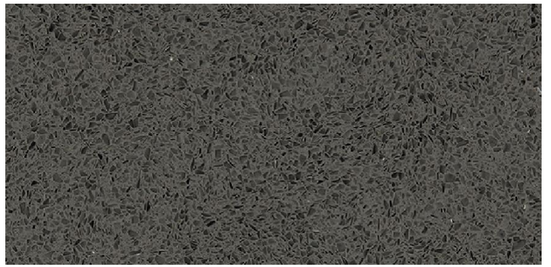
3050*1520mm (120"*60")

Thickness: 20mm



OWS2 136





OWS2 136

普利灰 Light Grey

3050*1520mm (120"*60")

Thickness: 20mm







OWS2 512

银点 Ivory White

3050*1520mm (120"*60")

Thickness: 20mm



OWS2 517

百合 Pure White

3050*1520mm (120"*60")

Thickness: 20mm



OWS2 518





OWS2 518

沙丘 Dune Bone

3050*1520mm (120"*60")

Thickness: 20mm







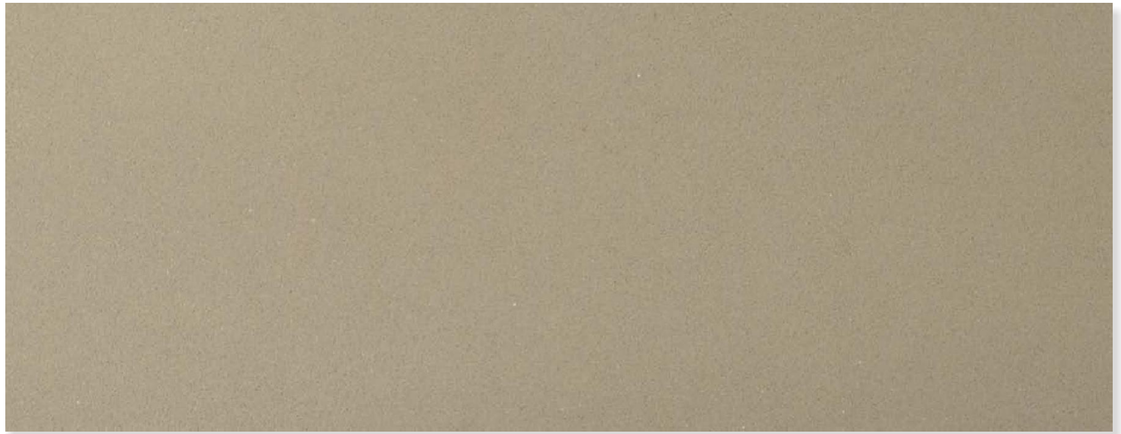
OWS2 519

玄华 Mystery Brown

3050*1520mm (120"*60")

Thickness: 20mm







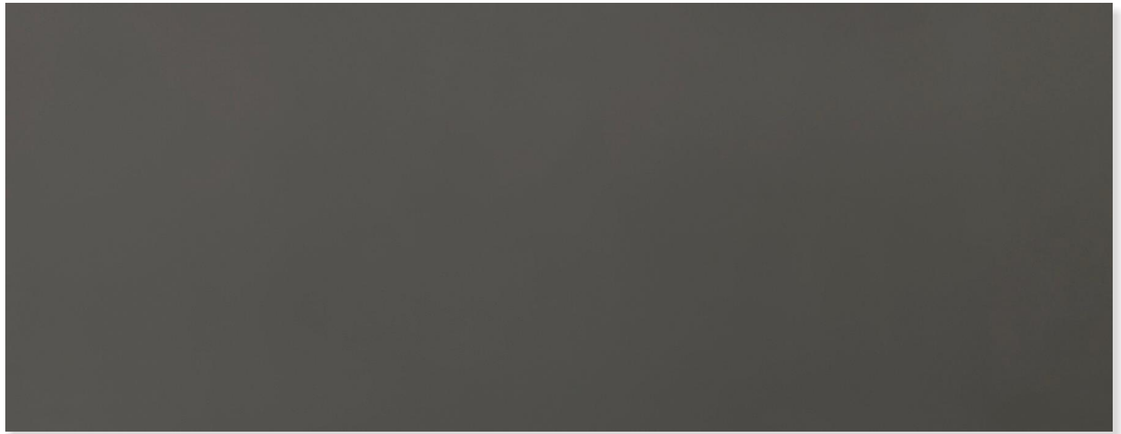
OWS2 520

诸石 Ash Brown

3050*1520mm (120"*60")

Thickness: 20mm







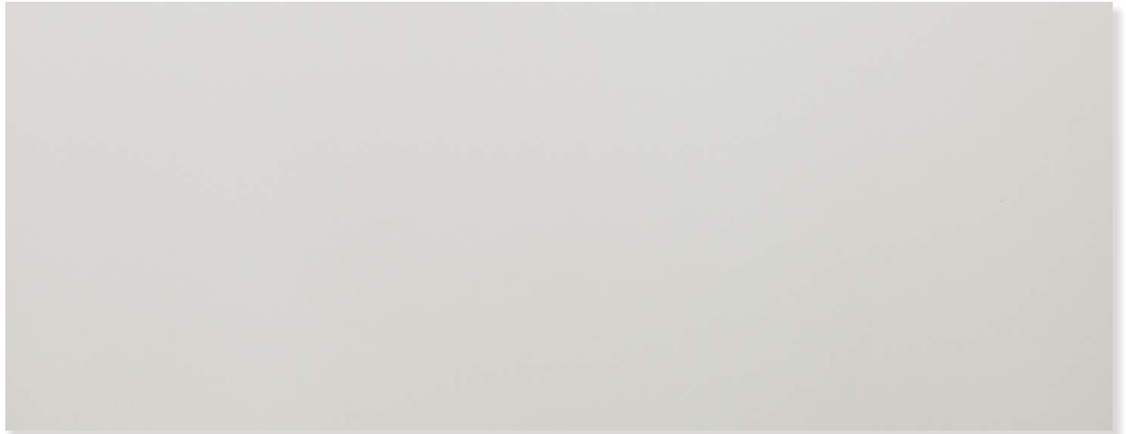
OWS2 521

璃棕 Coco Brown

3050*1520mm (120"*60")

Thickness: 20mm





OWS2 522

极地白 Ultra White

3050*1520mm (120"*60")

Thickness: 20mm



OWS3 143

纯白 Chantilly White

3050*1520mm (120"*60")

Thickness: 20mm

OPPEIN STONE

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CARRARA SERIES

轻奢系列

3050*1520mm(120''*60'')

Thickness: 20mm





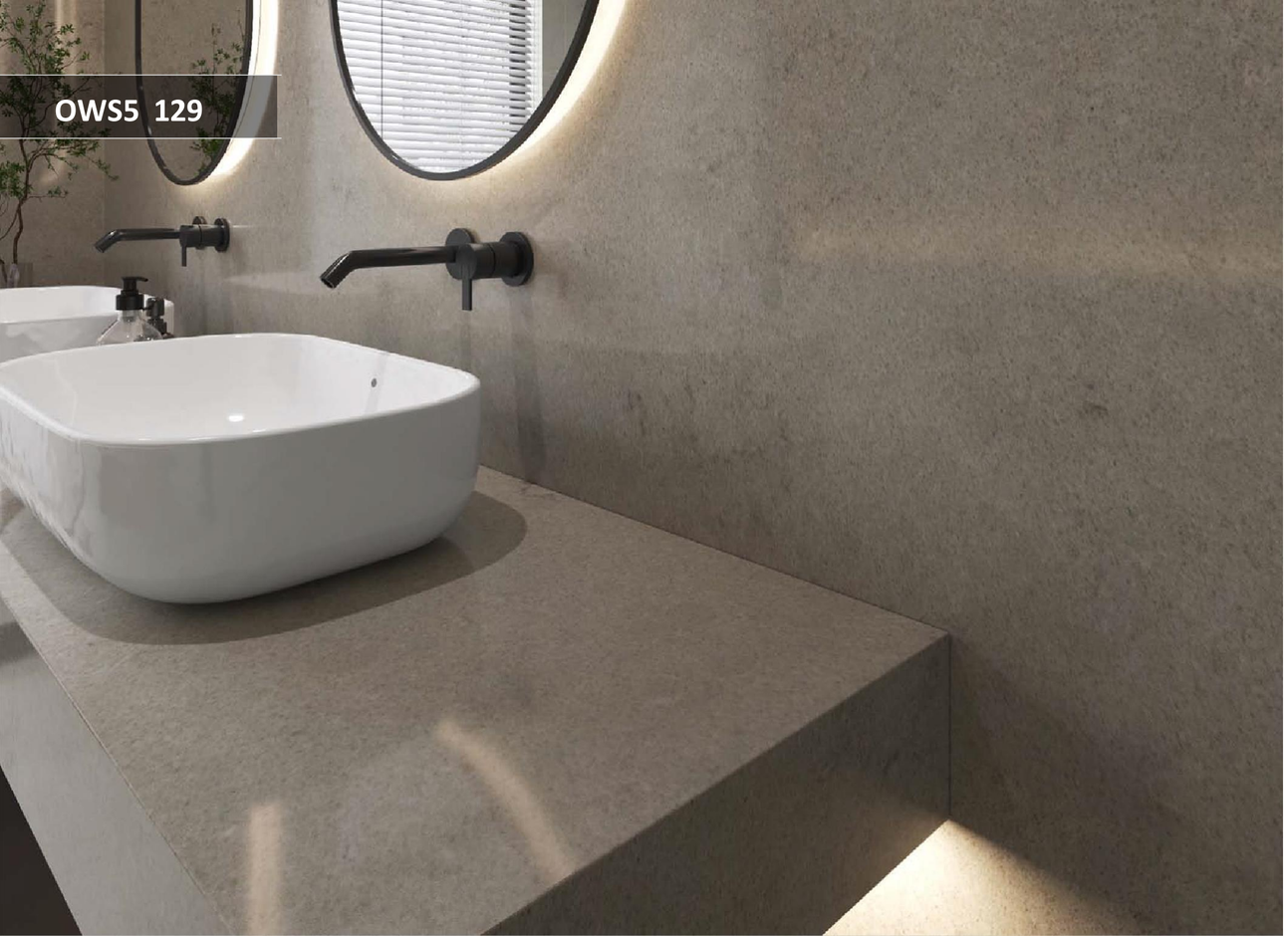


OWS5 128

炫棕 Nebula Brown

3050*1520mm (120"*60")

Thickness: 20mm







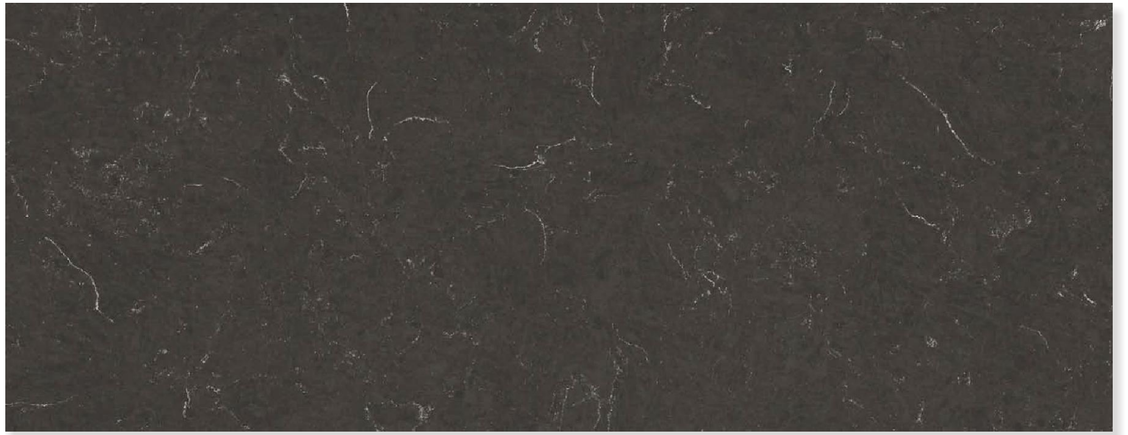
OWS5 129

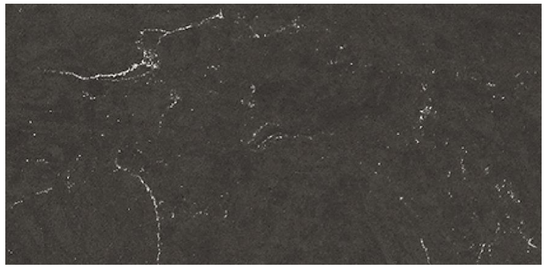
灰砂岩 Sandstone Grey

3050*1520mm (120"*60")

Thickness: 20mm







OWS5 138

茶蕊 Grey Moon

3050*1520mm (120"*60")

Thickness: 20mm







OWS5 141

行云流水 Snowy Ibiza

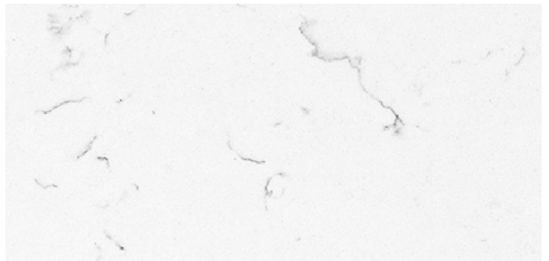
3050*1520mm (120"*60")

Thickness: 20mm



OWS5 171





OWS5 171

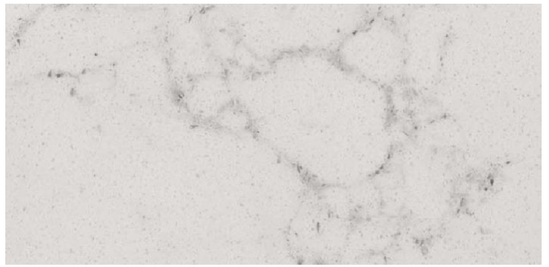
中花白 Lyra White

3050*1520mm (120"*60")

Thickness: 20mm







OWS5 172

珂雪 Miami Carrara

3050*1520mm (120"*60")

Thickness: 20mm







OWS4 087

香槟黄宝 Vina Giallo

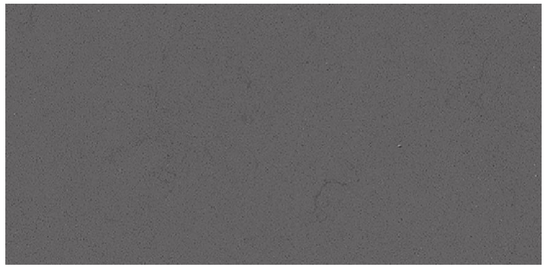
3050*1520mm (120"*60")

Thickness: 20mm



OWS5 144





OWS5 144

亚麻灰 Pigeon Grey

3050*1520mm (120"*60")

Thickness: 20mm







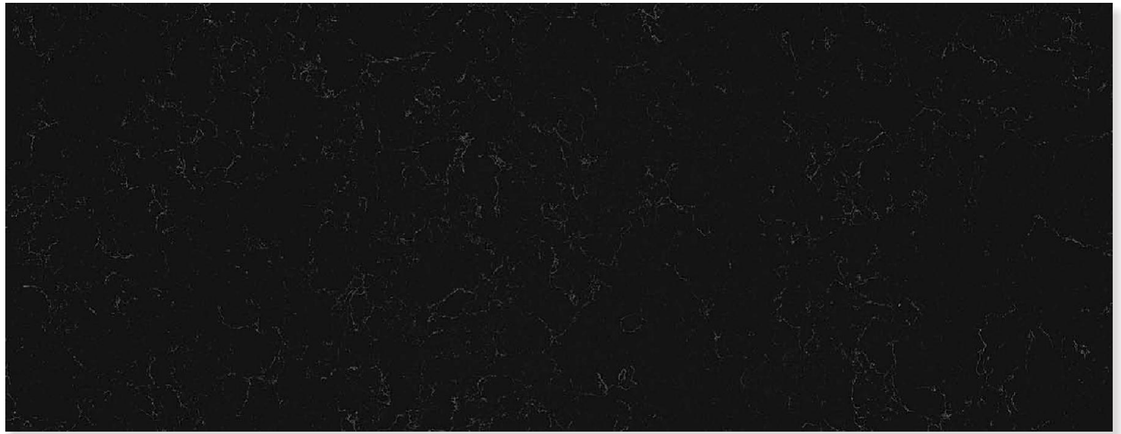
OWS5 145

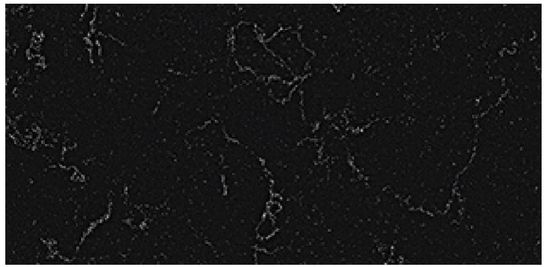
浅米黄 Beige Snow

3050*1520mm (120"*60")

Thickness: 20mm







OWS5 149

礁石黑 Negro Stellar

3050*1520mm (120"*60")

Thickness: 20mm







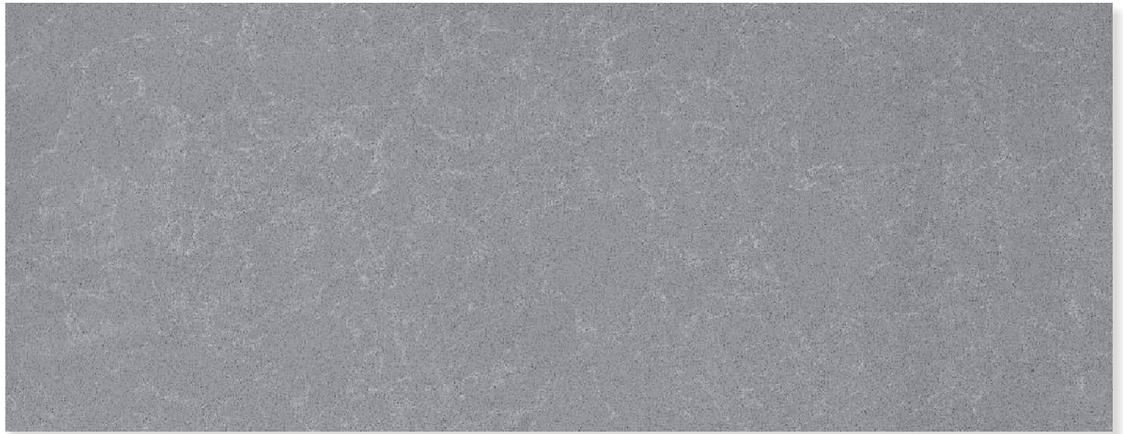
OWS5 123

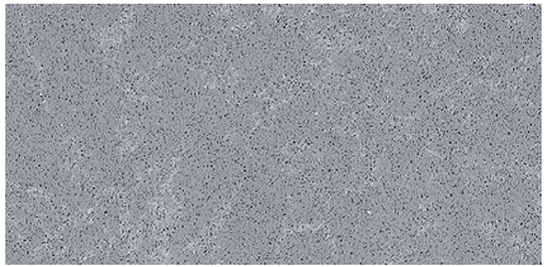
亚尼王宫 Carrara Lino

3050*1520mm (120"*60")

Thickness: 20mm







OWS5 120

银星砂岩 Pietra Serena Grey

3050*1520mm (120"*60")

Thickness: 20mm

COLOR

Calacatta Series


OWS7 152


OWS7 153

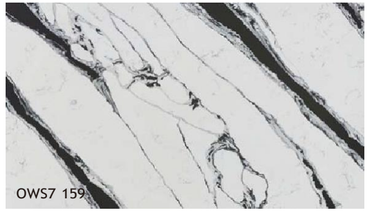

OWS7 164

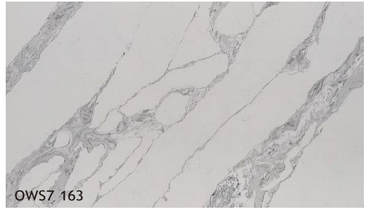

OWS7 162


OWS7 161


OWS7 158

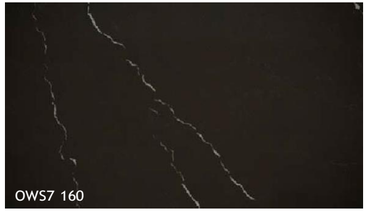

OWS7 157


OWS7 159

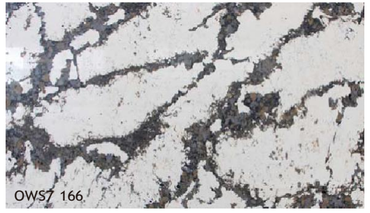

OWS7 163

COLOR

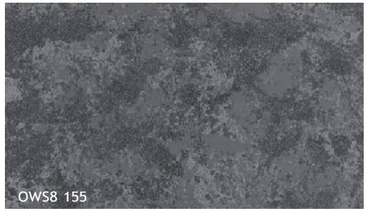
Calacatta Series


OWS7 160


OWS7 165


OWS7 166

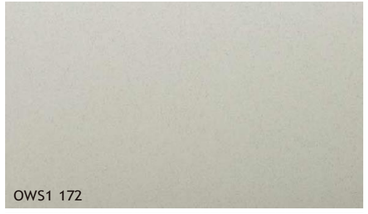
Concrete Series

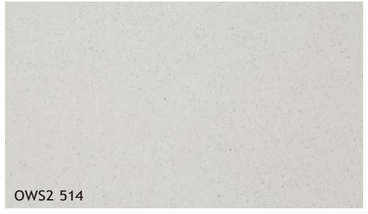

OWS8 155


OWS8 167

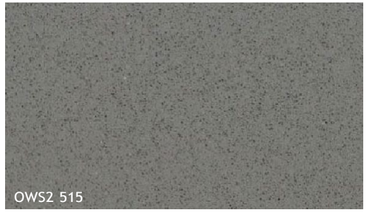
COLOR

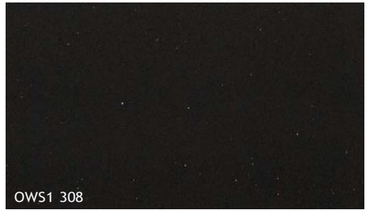
Natural Series

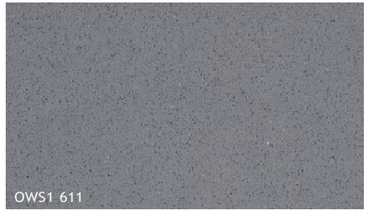

OWS1 172


OWS2 514


OWS1 174


OWS2 515

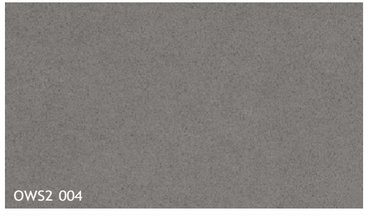

OWS1 308

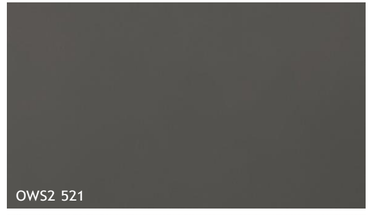

OWS1 611

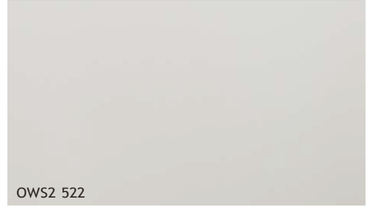

OWS1 511

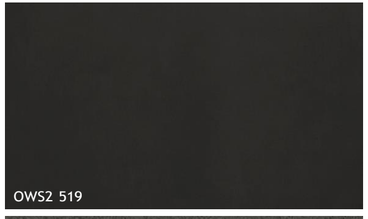
COLOR

Designer Series


OWS2 004

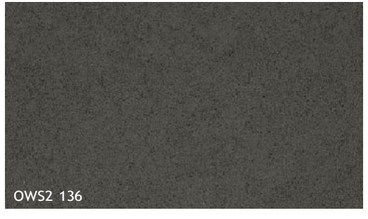

OWS2 521

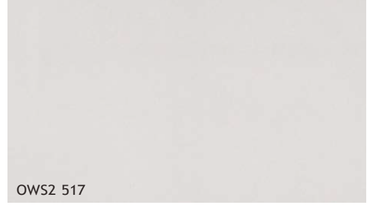

OWS2 522

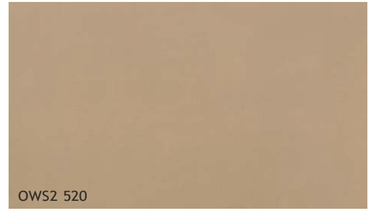

OWS2 519


OWS2 518


OWS2 512


OWS2 136


OWS2 517


OWS2 520

COLOR

Designer Series



Carrara Series



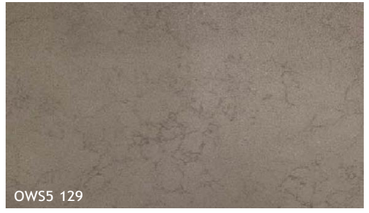




COLOR

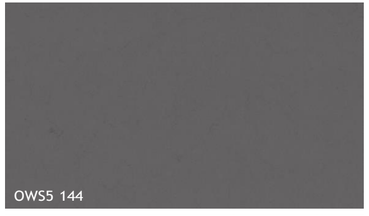
Carrara Series







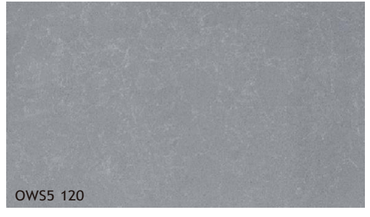






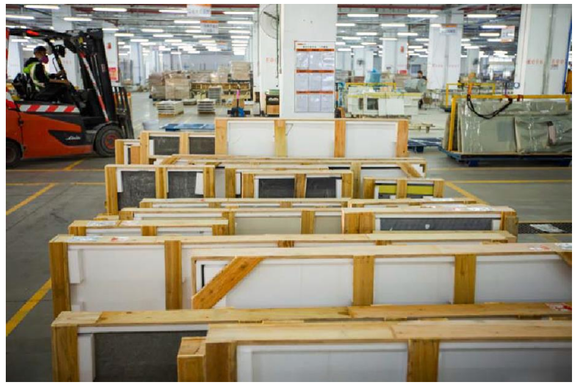






PACKING











SLAB CORRESPONDING TABLE

Slab Formats	Thick-nesses	Each Slab		Each Pallet		20GP container				
		m	KG	Number	KG	m	Pallet Number	Total Number	KG	Packing
3200*1600mm	15mm	5.12	184	20	3680	614	6	120	22080	with pallet strip
	20mm		246	15	3690	461		90	22140	
	30mm		369	10	3690	307		60	22140	
3050*1520mm	15mm	4.636	164	20	3280	649	7	140	22960	with pallet strip
	20mm		220	15	3300	487		105	23100	
	30mm		330	10	3300	325		70	23100	
3050*760mm	15mm	2.318	83	31.5	2614.5	657	9	283.5	23530.5	9 pallet
	20mm		111	23.5	2608.5	490		211.5	23476.5	
	30mm		167	15.5	2588.5	323		139.5	23296.5	
2440*760mm	15mm	1.8544	67	39	2613	651	9	351	23517	9 pallet placed at intervals
	20mm		89	29	2581	484		261	23229	
	30mm		134	19.5	2613	325		175.5	23517	
2440*760mm	15mm	1.8544	67	29	1943	645	12	348	23316	12 pallet
	20mm		89	22	1958	490		264	23496	
	30mm		134	14.5	1943	323		174	23316	

***Weight estimation:**

15 thick slab is about 36KG/square; 20 thick slab is about 48KG/square; 30 thick slab is about 72KG/square, and pallet is about 50KG/pc.
But different finish is different weight;

CERTIFICATE

SGS Certification

NSF International

ISO9000