
USA
ESTIMA
PORCELAIN SLABS

ABSOLUT WHITE

ABSOLUT WHITE

Porcelain Stoneware

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Not Bookmatched

USA ESTIMA

CALACATTA LIGHT

CALACATTA LIGHT

Porcelain Stoneware

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

ESTIMA

CALACATTA ORO

CALACATTA ORO

Porcelain Stoneware

Ceramics of Italy

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

USA ESTIMA

EMOTION WONDER

EMOTION WONDER

Porcelain Stoneware

Ceramics of Italy

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

ESTIMA

MARMO ANTICO

MARMO ANTICO

Porcelain Stoneware

Ceramics of Italy

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

ESTIMA

MONTE BIANCO

MONTE BIANCO

Porcelain Stoneware

Ceramics of Italy

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Matt
Polished
Bookmatched

USA ESTIMA

ONICE WHITE

ONICE WHITE

Porcelain Stoneware

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Not Bookmatched

USA ESTIMA

PATAGONIA

PATAGONIA

Porcelain Stoneware

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

ESTIMA

PORT LAURENT

PORT LAURENT

Porcelain Stoneware

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

ESTIMA

SAHARA NOIR

Porcelain Stoneware

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Not Bookmatched

ESTIMA

STATUARIO EXTRA

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Porcelain Stoneware

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

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ESTIMA

TAJMAHAL

TAJMAHAL

Porcelain Stoneware

Ceramics of Italy

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

USA ESTIMA

WAVE

WAVE

Porcelain Stoneware

Ceramics of Italy

SIZES

160x320 cm 63″x126″

THICKNESS

12 mm 0.47″

FINISHES

Polished

Bookmatched

ESTIMA

USA ESTIMA

SCRATCH KIT - ESTIMA USA
CONCEPT PROPOSAL

faber TILE & STONE CARE

powered by Faber Tile & Stone Care

PACKAGING

*The graphics are proposals that are fully editable and adaptable to your liking

SCRATCH CLEANER

*The graphics are proposals that are fully editable and adaptable to your liking

SCRATCH DARK

*The graphics are proposals that are fully editable and adaptable to your liking

SCRATCH LIGHT

*The graphics are proposals that are fully editable and adaptable to your liking

INSTRUCTIONS MANUAL

*The graphics are proposals that are fully editable and adaptable to your liking

PORCELAIN SLABS
FEATURES AND BENEFITS

Porcelain slabs offers designers a wide range of solutions for furnishing accessories, suitable for all purposes...

- Shower Surrounds
- Kitchen / Bath Counter Tops
- BBQ Islands / Outdoor Kitchens
- Feature Walls
- Flooring Applications

The large 160 x 320cm are offered sizes of 6mm (special order), 12mm (stock), and 20mm (special order). ESTIMA offers a wide assortment of 12mm Porcelain Slabs in stock!
There are many features and benefits inherent to Porcelain Slabs that are not found in other surfaces such as Quartz or Granite and Solid Surface material.

UV Resistant colors don't fade over time	**Hygienic & Easy to Clean** odorless, does not retain dirt	**Temperature Resistant** Porcelain stoneware is unaffected by changes in temperature, unlike many quarried surfaces
Scratch & Abrasion Resistant Scratch & Abrasion resistant. Its properties do not change even if subjected to intensive frequent cleanings	**Resistant to Chemicals** Porcelain stoneware is not affected by organic and inorganic solvents, chemicals, and disinfectants	**Frost-Resistant** Porcelain stoneware withstands frost
Non-Absorbent Does not absorb water	**Suitable for food Contact** Totally compatible with food	**Mold-Fungus Resistant** Porcelain stoneware does to allow mold or bacteria to grow
Material Safety Safe for both humans and the environment	**Long-Lasting** Withstands the test of time and stress unlike other surfaces	**Book Match Options** Unlike other surfaces, Porcelain stoneware is available in multiple directional book matching options

TECHNICAL CHARACTERISTICS

PORCELAIN STONEWARE - **CLASS UNI 14411 - Bla GL**

FEATURES	UNIT OF MESUREMENT	MEAN VALUE	REQUIRED STANDARDS	TEST METHOD
DIMENSIONS - LENGHT AND WIDTH	%	ACCORDING	+/- 0,6 MAX	UNI EN ISO 10545-2
SIDES STRAIGHTNESS	%	ACCORDING	+/- 0,5 MAX	UNI EN ISO 10545-2
SIDES ORTOGONALITY	%	ACCORDING	+/- 0,6 MAX	UNI EN ISO 10545-2
FLATNESS	%	ACCORDING	+/- 0,5 MAX	UNI EN ISO 10545-2
THICKNESS	%	ACCORDING	+/- 5 MAX FROM DECLARED VALUE	UNI EN ISO 10545-2
WATER ABSORPTION	%	ACCORDING	≤ 0,5	UNI EN ISO 10545-3
BREAKING STRENGHT	N	ACCORDING	≥ 700 SE SPESS. < 7,5 ≥ 1300 SE SPESS. ≥ 7,5	UNI EN ISO 10545-4
BREAKING MODULUS	N/mm^2	ACCORDING	≥ 35	UNI EN ISO 10545-4
COEFFICENT OF LINEAR THERMAIL - EXPANSION	"MK [- 1]	**a7,00**	DECLARED VALUE	UNI EN ISO 10545-8
RESISTANCE TO THERMAL SHOCK		RESISTS	PASS ACC. TO 10545-1	UNI EN ISO 10545-9
CHEMICAL RESISTANCE		ACCORDING	MINGB	UNI EN ISO 10545-13
RESISTANCE TO ACID AND LOW CONCENTRATION BASES		**ULA**	METHOD AVAILABLE	UNI EN ISO 10545-13
FROST RESISTANCE		RESIST	PASS ACC. TO 10545-1	UNI EN ISO 10545-12
STAIN RESISTANCE		ACCORDING	MINIMUM CLASS 3	UNI EN ISO 10545-14
SURFACE HARDNESS		**5-8**	≥ 5	[EN 101]

ESTIMA USA
301 S. STATE COLLEGE BLVD
92831 FULLERTON, CA
PH. +1 714-525-7770

Ceramics of Italy

100% Natural
No harmful substances

Hygienic
Suitable for food contact

Scratch-proof
Resistant to use and abrasion

Easy to clean - Resistant to conventional chemical detergents

Frost resistant
Weather resistant

Uv resistant

Resistant to high temperatures
Heat resistant

Waterproof - Absorption coefficent near zero

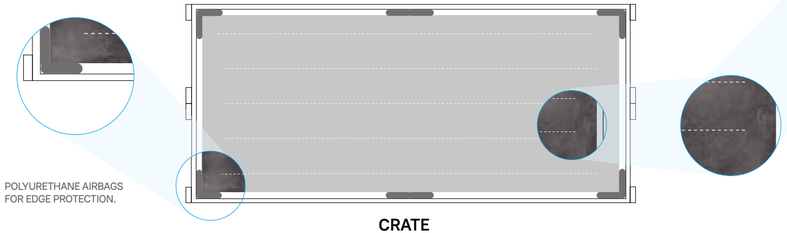
Nuovocorso slabs can be packed in crate or on A-Frame

CRATE 160x320 cm 63"x126"
SIZE > 345x175x37 cm 136"x69"x14"
EMPTY WIGHT > 120 KG
CHARGE > 100€ EACH

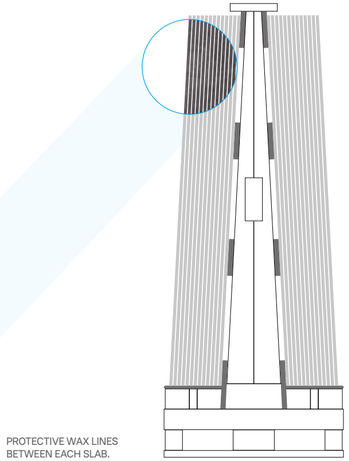
CRATE 160X160 CM 63"x63"
SIZE > 170X179X40 CM 67"X70.5"X16"
EMPTY WIGHT > 76 KG
CHARGE > 70€ EACH

WOOD A-FRAME
CAVALLETTO A-FRAME > 330X75X200 CM 130"X30"X79"
PESO VUOTO EMPTY WIGHT > 240 KG
ADDEBITO CHARGE > 200€ CAD/EACH

METAL A-FRAME
CAVALLETTO A-FRAME > 330X75X200 CM 130"X30"X79"
PESO VUOTO EMPTY WIGHT > 130 KG
ADDEBITO CHARGE > 430€ CAD/EACH



CRATE



A-FRAME

CRATE						
SLAB	THICKNESS	SQM / SLAB	KG / SQM	SLABS / CRATE	SQM / CRATE	KG / CRATE
160x320 cm 63"x126"	**6,5 mm** / 0.25"	5,12 / 5,25	16	15	76,80	1.228,80
160x320 cm 63"x126"	**12 mm** / 0.47"	5,12 / 5,25	29	9 (Lev./Honed) 10 (Matt)	46,08 (Lev./ Honed) 51,20 (Matt)	1.336,32 (Lev./Honed) 1.484,80 (Matt)
160x320 cm 63"x126"	**2 cm** / 0.78"	5,12 / 5,25	49	5	25,60	1.254,40
160x160 cm 63"x63"	**6,5 mm** / 0.25"	2,56	16	30	76,80	1.228,80
160x160 cm 63"x63"	**12 mm** / 0.47"	2,56	29	15	38,40	1.113,60

A-FRAME		
SLABS / A-FRAME	SQM / A-FRAME	KG / A-FRAME
50	256,00	4.096,00
24	122,88	3.563,52
14	71,68	3.512,32
Not Available	Not Available	Not Available
Not Available	Not Available	Not Available

APPLICATION FIELDS

WORKTOPS

FURNITURE

EXTERNAL CLADDING

HEAVY TRAFFIC FLOORING

WALLS COATING

HOTELLERIE

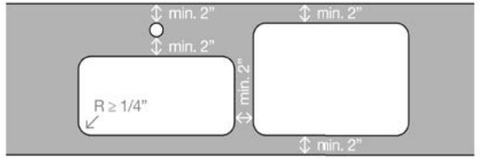
PROCESSING

Before starting any process, slab must be cleaned and visually inspected, to verify it complies to quality requirements.
No claims are accepted for fabricated or installed slab, when defects were present upon delivery. Before processing, we recommend to perform preliminary test on samples slab in order to set appropriate utensil and machining parameters. Slabs are provided FULLSIZE non-rectified. Before start processing, cut the perimeter of slab removing from the outer edges.

Useful workable area will be of 1600x3200mm. Slab can be processed using water-based machinery, equipped with good condition tools suited for porcelain stoneware. When using a dimond disc, pay attention to reduce speed of 50%, both at the beginning and end of cutting process Working bench must be clean, solid, resistant and perfectly flat. Cnc's suction cups must be placed under entire slab, with particular care for the areas beside holes (sinks & hobs hole), Processed slab must be handled with care, particularly when openings or inner holes are present, Fabricated slab must be moved avoid bending or twisting of slab.

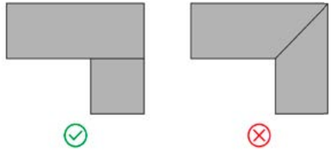
CUTOUTS PROCESSING

Maintain a minimum distance of 2" from outer edge with holes, and between tap's hole and sink, grooves and between adjacent openings. All cutout corners must have a minimum radius diameter of 1/4".



HORIZONTAL JUNCTIONS

L shaped tops must have the junction made with 2 units fitted in a straight pattern.
Joint in between must be filled with silicone or epoxy glue. Diagonal junctions are not recommended. Minimum distance from walls should be 3mm. When fabricating a L shaped top using a single unit, internal corner must have a radius of 1/4".



BACK REINFORCEMENTS

Installation of straight edge countertops must be planned supporting the fabricated top on the whole perimeter of cabinet and across sinks and hobs. All mitered frontal edges must be reinforced pairing back angles with bars, full bed bonded with flexible adhesives. Gaps (such holes, hobs or tap's hole), must be reinforced with strips to be fixed on the slab rear side. Never use a back reinforcement with different thermal expansion, (such quartz, wooden, stones), that my cause damages to the top and mitered edges.

OVERHANGS

For countertops without back panel support, overhang recommended width should not be more than 6"- 8". When istalling countertops with holes, overhang width must be reduced to 3"- 4". Any wider spans should be installed with a back support or fixed to a back structure.

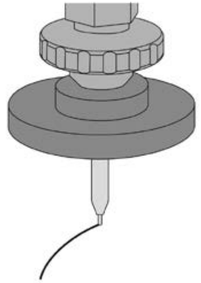
PROCESSING

WATERJET

Machining parameters

Waterjet	Cutting			Drilling	
Slab's thickness	Speed (mt/min)	Pressure (Bar)	Abrasive (gr/min)	Pressure (Bar)	Abrasive (gr/min)
1/2"	0,7 - 1,0	3000 - 3500	350	900	150 - 200

- Working bench must be levelled, straight, in good conditions and clean.
- Slab must be firmly fixed to working bench.
- Processing starts with a perimetral cut, removing 3/4", from outer edges.
- Minimum radius of all inner corners must be 1/8".
- Pressure and abrasive feed must be reduced when drilling holes and mitering profiles
- When cutting openings, first start making an inside hole and then proceed towards to perimeter.
- At the end of processing, rinse fabricated slabs with clean water.

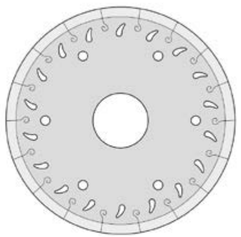


DISC CUTTING

Machining parameters

Bridge saw	Straight cut	Mitering cut	Disc diameter	Disc speed
Slab's thickness	Speed (mt/min)	Speed (mt/min)	mm	RPM
1/2"	1,0 - 1,5	0,7	300	2500
1/2"	1,0 - 1,5	0,7	350	2200
1/2"	1,0 - 1,5	0,7	400	1900

- Use only porcelain stoneware diamond discs.
- Cutting process starts decreasing infeed and outfeed speed of 50%
- To adjust disc's revolutions, we recommend a miling machine provided with frequency variator.
- Tools must be cooled by water when cutting.
- All cutouts must have previously drilled holes (with a minimum diameter of 3 mm)
- When cutting at 45°, make sure to limit vibration by using extra-thick diamond discs and reducing speeds of 50%. The obteined upper edges, must be chamfered.
- The disc's rotation must always be oriented in the same direction of slab's cutting.
- When doing an L cut, start drilling an hole at the inner angle (bit diameter 1 / 4") , then proceed straight cut.

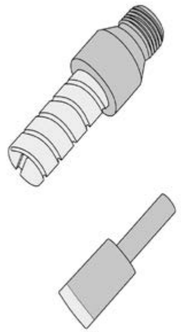


CNC MACHINE

Machining parameters

Cnc	RPM	Speed
		mm/min
Core bit	4500 - 5500	500
Finger bit	4500 - 5500	100 - 200

- Cnc machine is mostly used to create recesses for sinks and hobs, for edges finishing, for edges and holes drilling and for flush-mounted tops fabrication.
- Cnc must be provided with diamond tools, suitable for porcelain stoneware.
- Suctions cups on the working bench must cover below the entire slab and near the area that will be removed after cut.
- During processing utensil must be colled with water.
- When doing cutouts, first drill inside holes with a diamond bit, then cut perimeter with incremental finger bit, reducing speed to 50% when approaching the end of cut. Finish the profiles by bevelling upper angles and polishing straight borders.
- All inner corners require a minimum bit of 1 / 2".
- Never use swinging option when using finger bit.



EDGES FABRICATION

The different type of edges (straight edges or mitered edges) are obtained both by automatic machinery or by hand. Curved edges must be bevelled by a 5-axis grinder cnc machine. Upper angles must always be chamfered of 1 / 8" minimum.

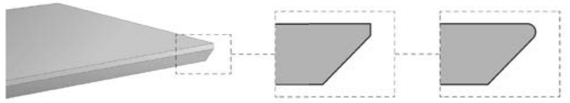
STRAIGHT EDGES

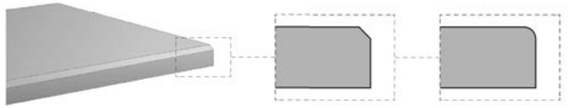
When doing straight edges, upper angles (both squared or rounded) must be chamfered of 1/8" minimum.

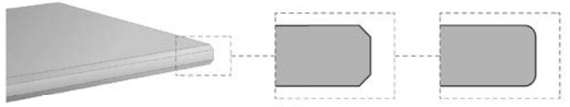
Bullnose or half bullnose edges can be fabricated by cnc provided with different grinders.

All visible edges along kitchen top or sink openings, can be treated with protective products.

Edges polishing can be obtained using a sequence of abrasive icreasing diamond grinders, or by cnc machine.







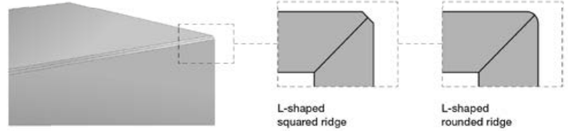
MITERED EDGES

Laminated mitered edges con be planned for several appplications such baffles of different heights, for recesses, for countinuous joints or when creating an integrated ceramic sink.

When cutting mitered edges, to avoid sharp edges, stop cutting line 1mm away from end piece.

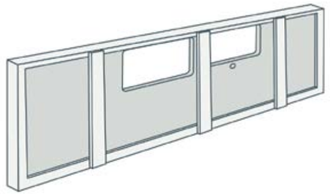
Mitered edges must be glued with epoxy 2 components adhesives, performing the installation and comply with hardening time of adhesive.

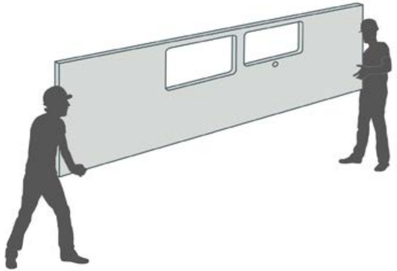
End the fabrication bevelling the upper obtained edge of 1/8". All mitered frontal edges must be reinforced pairing back sides with bars.



TRANSPORTATION & TOP INSTALLATION

Fabricated top must be packed in proper wood case, giving attention to protect cutouts, hobs and holes, with soft protections (such foam or rubber). When moving, it must be keeped in vertical position, keeping all openining face up. Pay attention to avoid any bending or twisting. During transportation do not overlap other weights.





TOP INSTALLATION

- Slabs are self-supporting, so they do not need to be applied to back panel support. Only exception in case of fabricating overhangs exceeding 5.9".
- The cabinet base must be stable and perfectly flat.
- Top must me fixed with silicone to the cabinet all along the perimeter .
- If top is made by 2 or more units, leave a minimum joint in the junctions and fill it with silicone or epoxy grout.
- All the upper corners must have a minimum beveling of 2 mm, as well as all the edges in the junction of 2 elements (L shaped top).
- Leave a minimum distance from walls of 1/4", to be filled with silicone.
- Undermount sinks must rest on support bars fixed inside the base.