



archant
PORCELAIN

Fabrication & Technical Manual

FLORIM
stone 612 20

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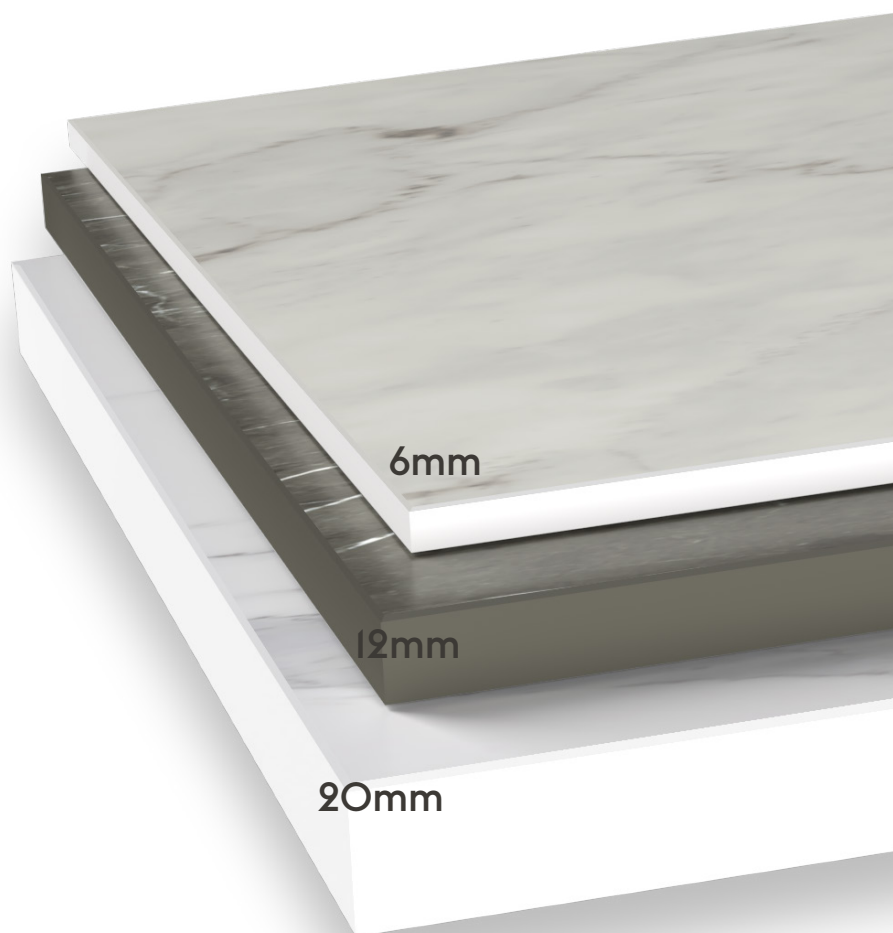
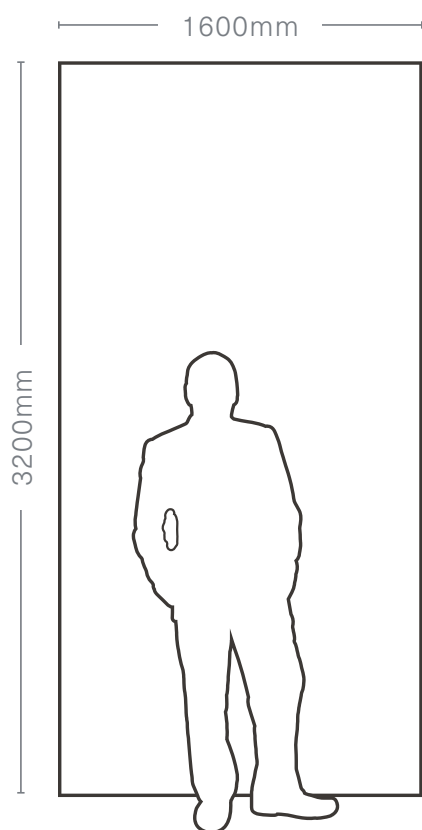
INTRODUCTION

This manual provides technical and practical information about the use of Archant Porcelain large-format stone tiles, technical specifications, packaging and handling, storage, and the use of machinery for the different processing steps and maintenance. These instructions, combined with the experience and skill of the fabricator, will enable you create the true Archant experience with this porcelain surface by Florim.



Manufactured Product

Archant Porcelain is a large format porcelain stoneware for decorative surfaces. Lightweight, versatile and with an extremely high aesthetic impact, Archant Porcelain opens up new frontiers in design environments, ensuring maximum freedom of expression. Manufactured in Italy by Florim Stone, the product is composed of a blend of natural materials such as ceramic clays and mineral colourants to produce an unalterable porcelain stoneware. This is a result of some of the most advanced production technologies of the world, over 50 years' experience in creating ceramic products which revolutionizes the concept of continuous surfaces, providing a solution for the widest possible applications. With sizing at 1600×3200mm and in thickness in 6mm, 12mm and 20mm, this ultra-compact surface combines its lightweight and versatile features with an excellent technical stress resistant performance.



*Thickness is with reference to the ceramic matter; the actual thickness of the material with backing is 6.7, 12.7 and 20.7mm respectively.

Advantages of Archant Porcelain



Ultra-high heat resistance.

The hottest pans from your hob will never be an issue as Archant Porcelain is resistant to thermal stress and ultra-high temperatures. No need for a hot mat again.



Wide range of customisation

Available in 6, 12 and 20mm thicknesses, this range offers the widest range of choices. Use Archant Porcelain for your splashback, benchtop, bespoke vanity, flooring, wall cladding; embrace the freedom of customisation with this range.



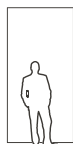
Exceptional scratch resistance.

Using a sophisticated blend of natural raw materials and proprietary technologies, Florim has created a near unscratchable kitchen surface.



Superior stain resistance.

Archant Porcelain stoneware is a mixture of natural raw materials, so it does not stain or yellow as it contains no resins.



Limitless possibilities.

Large format slabs (3200 x 1600mm) in 6 and 12mm thicknesses means you can consider all of your kitchen's components, fully customized to your style.



Made in Italy

Florim has been producing ceramic surface solutions for over 50 years with a focus on innovation and meticulous attention to detail to provide surfaces that are guarantee true Italian quality.



Perfect for the outdoors.

Ultra violet (UV) rays do not damage, change the colour or fade Archant Porcelain. This makes it perfect for both indoor and outdoor applications.



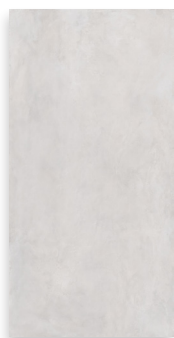
Peace of mind.

Peace of mind comes as standard with Florim Stone. Not only is it produced to the highest possible standards it also offers a 12 year warranty.

Our porcelain range



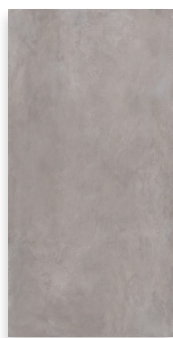
Cement Collection



Cement Light Grey

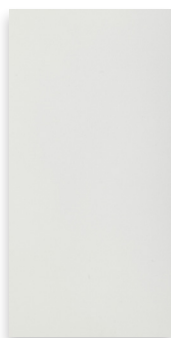


Cement Ivory

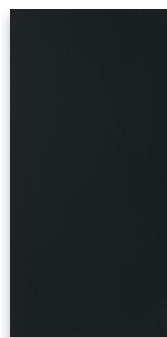


Cement Dark Grey

Colour Collection



Colour White

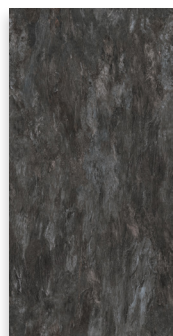


Colour Black

Stone Collection



Stone Grey



Stone Noir



Stone Ecrù

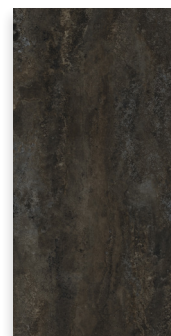


Stone Gris

Metal Collection

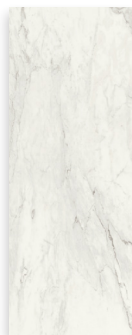


Metal Russet

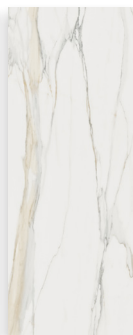


Metal Burnished

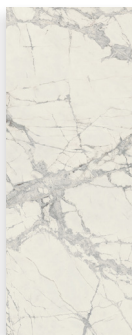
Marble Collection



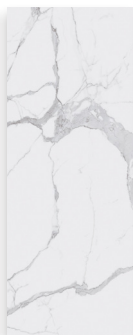
Marble
Calacatta
A/B



Marble
Calacatta
Gold A/B



Marble
White A/B



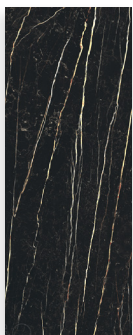
Marble
Statuario
A/B



Marble Gray



Marble
Marquinia



Marble
Laurent



Marble
Breach
A/B



Marble
Eternal
Gold A/B



Marble
Yamuna

Manufactured by

FLORIM
stone

6 12 20

Specifications

6mm thickness

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Ceramic tile thickness is 6mm –
tile thickness with mat backing is 6.7mm

Non-rectified dimensions – 1630x3240mm – Rectified working dimensions – 1600x3200mm

ARCHANT PORCELAIN with mat backing is obtained by coupling a non-rectified panel of porcelain tile to a glass fibre mat; find here below the porcelain tile requirements.

TECHNICAL FEATURES	REFERENCE STANDARD	STANDARD REQUIREMENTS		TEST RESULTS
		(%)	(mm)	
Admitted deviation, in %, of the average thickness of each tile from the production dimensions	ISO 10545-2	±5%		±5%
Flatness (curving in the middle, corner and warping)	ISO 10545-2	±0.5% ±2mm		±0.35% ±2mm*
Surface quality	ISO 10545-2	At least 95% of the tiles must be free from visible flaws.		CONFORMING
% Water absorption	ISO 10545-3	< 0.5%		Average value 0.08%
Resistance to deep abrasion of unglazed tiles	ISO 10545-6	< 175mm ³		Average value 140mm ³
Thermal shock resistance	ISO 10545-9	Available testing method		RESISTANT
Resistance to staining	ISO 10545-14	See Manufacturer's Declaration		Class 5 (Matte/Velvet)
Resistance to low concentrations of acids and alkalis	ISO 10545-13	See Manufacturer's Declaration		ULA-ULB (Matte) ULB (Glossy)
Resistance to domestic chemical products and additives for swimming pools		MIN B		UA
Frost resistance	ISO 10545-12	REQUIRED		RESISTANT
Moisture expansion	ISO 10545-10	Declared value		0.01% (0.1mm)

**Length and width, orthogonality and straightness are not applicable since the material is NOT rectified.

**Data refers to the material after squaring

Specifications

6mm thickness

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PORCELAIN

Ceramic tile thickness is 6mm –
tile thickness with mat backing is 6.7mm

The coupling process improves the panel's mechanical properties.
Since no applicable standard exists, Florim has run tests to demonstrate the results.

Mat-mounted porcelain stoneware			
TECHNICAL FEATURES			
FEATURE	REFERENCE STANDARD	DESCRIPTION OF TESTING	TEST RESULTS N 15 cm
Breaking strength in N (thickness < 7.5mm)	ISO 10545-4	Application of a load to the midline of the panel until failure is obtained	Average value 1556 N*
N/mm2 Flexural Strength Test			Average value 54.5 N/ mm2*
Fire Resistance	UNI EN 13501-1	Floor radiant panel test UNI EN ISO 9293-1.	Class A2Fl-s1
Impact Resistance	UNI EN ISO 14617-9	Resistance to dropping a 1 kg steel ball on a sample placed on a bed of sand.	Average value 3.16 J
Coefficient of return	UNI EN ISO 10545-5	Measurement of 28 g steel ball rebound height.	Average value 0.88 no surface damage
Volatile organic compound emission tests	UNI EN ISO 16000-9	VOC emission after 28 days length - test	Class A+
Compression Strength	ASTM C170M-16	Breaking load on 12x12x12 mm samples.	Tensile strength 527.9 Mpa sample deformation 0.86 mm.

*Measurements made on 60x60 cm size

Specifications

6mm thickness

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PORCELAIN

Ceramic tile thickness is 6mm –
tile thickness with mat backing is 6.7mm

Archant Porcelain with mat backing special technology and aesthetic versatility make the material ideal for both furnishing and kitchen tops. We list the results below.

Results on surface			
TECHNICAL FEATURES			
FEATURE	REFERENCE STANDARD	DESCRIPTION OF TEST METHOD	TEST RESULTS N ≥15 cm
Cadmium and lead release in mg/dm ²	ISO 10545-15	Determination of the extraction of lead and cadmium.	NONE
Resistance to damp heat	UNI EN 12721:2013	55° to 100° cycles	No visible change CEN TS 16209 Class A.
Resistance to dry heat	UNI EN 12722:2013	55° to 180° cycles	No visible change CEN TS 16209 Class A.
Resistance to cold liquids	UNI EN 12720:2013	Period of contact 10s to 24 h	CEN TS 16209 Class B
Tendency to retain dirt	UNI 9300:2015	Carbon black staining agent	No visible change
Scratch resistance	UNI EN 15186:2012 met.B	Load > 10N	CEN TS 16209 Class A (Matte/Velvet)
Fungi resistance	ASTM G 21-15	Contact for 28 days with a variety of fungi strains	No growth on the surface
Light Reflectance Value LRV	In-house test method.	Spectrophotometer at 10°	Available on request
Colours' resistance to light fading	DIN 51094	Evaluation of the color changes following a 28 day exposure to ultra violet light.	COMPLIANT

Specifications

12mm thickness

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PORCELAIN

Ceramic tile thickness is 12mm –
tile thickness with mat backing is 12.7mm

Non-rectified dimensions – 1630x3240mm – Rectified working dimensions – 1600x3200mm

ARCHANT PORCELAIN with mat backing is obtained by coupling a non-rectified panel of porcelain tile to a glass fibre mat; herebelow the requirements for porcelain tile.

TECHNICAL FEATURES	REFERENCE STANDARD	STANDARD REQUIREMENTS		TEST RESULTS
		(%)	(mm)	
Admitted deviation, in %, of the average thickness of each tile from the production dimensions	ISO 10545-2	±5%		±5%
Flatness (curving in the middle, corner and warping)	ISO 10545-2	±0.5% ±2mm		±0.35% ±2mm*
Surface quality	ISO 10545-2	At least 95% of the tiles must be free from visible flaws.		COMPLIANT
% Water absorption	ISO 10545-3	< 0.5%		Average value 0.08%
Resistance to deep abrasion of unglazed tiles	ISO 10545-6	< 175mm ³		Average value 140mm ³
Thermal shock resistance	ISO 10545-9	Available testing method		RESISTANT
Resistance to staining	ISO 10545-14	See Manufacturer's Certificate		Class 5 (Matte/Velvet) Class 3-4 (Glossy)
Resistance to low concentrations of acids and alkalis	ISO 10545-13	See Manufacturer's Certificate		ULA-ULB (Matte) ULB (Glossy)
Resistance to domestic chemical products and additives for swimming pools		MIN B		UA
Frost resistance	ISO 10545-12	REQUIRED		RESISTANT
Moisture expansion	ISO 10545-10	Declared value		0.01% (0.1mm)

**Length and width, orthogonality and straightness are not applicable since the material is NOT rectified.

**Data refers to the material after squaring

Specifications

12mm thickness

archant
PORCELAIN

Ceramic tile thickness is 12mm –
tile thickness with mat backing is 12.7mm

The coupling process improves the panel's mechanical properties.
Since no applicable standard exists, Florim has run tests to demonstrate the results.

Mat-mounted porcelain stoneware			
TECHNICAL FEATURES			
FEATURE	REFERENCE STANDARD	DESCRIPTION OF TEST METHOD	TEST RESULTS N 15 cm
Breaking strength in N (thickness < 7.5mm)	ISO 10545-4	Application of a load to the midline of the panel until breakage is obtained	Average value 5500 N*
N/mm2 Flexural Strength Test			Average value 53 N/mm2*
Fire Resistance	UNI EN 13501-1	Floor radiant panel test UNI EN ISO 9293-1.	Class A2FI-s1
Impact Resistance	UNI EN ISO 14617-9	Resistance to dropping a 1 kg steel ball on a sample placed on a bed of sand.	Average value 3.03 J
Coefficient of return	UNI EN ISO 10545-5	Measurement of 28 g steel ball rebound height.	Average value 0.91 no surface damage
Volatile organic compound emission tests	UNI EN ISO 16000-9	28 days length-test	Class A+
Compression Strength	ASTM C170M-16	Breaking load on 12x12x12 mm samples.	Breaking tension 527.9 Mpa sample deformation 0.86 mm.
Static load for Raised floors	UNI EN ISO 12825	Application of increasing load until sample until breakage is obtained.	average values* lateral midpoint: 1,925 kN centre: 3,545 kN

*Measurements made on a 25x50 cm size

Specifications

12mm thickness

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PORCELAIN

Ceramic tile thickness is 12mm –
tile thickness with mat backing is 12.7mm

Archant Porcelain with mat backing special technology and aesthetic versatility make the material ideal for both furnishing and kitchen tops. We list the results below.

Results on surface			
TECHNICAL FEATURES			
FEATURE	REFERENCE STANDARD	DESCRIPTION OF TEST METHOD	TEST RESULTS N ≥15 cm
Cadmium and lead release in mg/dm ²	ISO 10545-15	Determination of the extraction of lead and cadmium.	NONE
Resistance to damp heat	UNI EN 12721:2013	55° to 100° cycles	No visible change CEN TS 16209 Class A.
Resistance to dry heat	UNI EN 12722:2013	55° to 180° cycles	No visible change CEN TS 16209 Class A.
Resistance to cold liquids	UNI EN 12720:2013	Period of contact 10s to 24 h	CEN TS 16209 Class B
Tendency to retain dirt	UNI 9300:2015	Carbon black staining agent	No visible change
Scratch resistance	UNI EN 15186:2012 met.B	Load > 10N	CEN TS 16209 Class A (Matte/Velvet)
Fungi resistance	ASTM G 21-15	Contact for 28 days with a variety of fungi strains	No fungi growth on the surface
Light Reflectance Value LRV	In-house test method.	Illuminant D65 Illuminant A Spectrophotometer at 10°	Available on request
Colours' resistance to fading	DIN 51094	Evaluation of the color changes following a 28 day exposure to ultra violet light.	COMPLIANT

Specifications

20mm thickness

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Ceramic tile thickness is 20mm –
tile thickness with mat backing is 20.7mm

Non-rectified dimensions – 1630x3240mm – Rectified working dimensions – 1600x3200mm

TECHNICAL FEATURES

Unglazed porcelain stoneware slabs. Dry-pressed ceramic tiles. Quality specifications, according to control tests of E.N. 14411. Appendix G group B1a UGL.	REFERENCE STANDARD	STANDARD REQUIREMENTS		TEST RESULTS
		N 15 cm		N ≥15 cm
		(%)	(mm)	
Admitted deviation, in %, of the average thickness of each tile from the production dimensions	ISO 10545-2	±5%		±5%
Flatness (curving in the middle, corner and warping)	ISO 10545-2	±0.5% ±2 mm		±0.35% ±2mm*
Surface quality	ISO 10545-2	At least 95% of the tiles must be free from visible flaws.		CONFORMING
% Water absorption	ISO 10545-3	< 0.5%		Average value 0.08%
Breaking strength in N (thickness > 7.5 mm)	ISO 10545-4	1300 min		Average value 14000Newton***
N/mm2 Flexural strenght test		> 35 N/mm2		Average value 52 N/mm2***
Resistance to deep abrasion of unglazed tiles	ISO 10545-6	< 175mm ³		Average value 140mm ³
Thermal shock resistance	ISO 10545-9	Available testing method		RESISTANT
Resistance to staining	ISO 10545-14	See Manufacturer's Certificate		Class 5 (Matte/Vel- vet) Class 3-4 (Glossy)
Resistance to low concentrations of acids and alkalis.	ISO 10545-13	See Manufacturer's Certificate		ULA (Matte/Velvet) ULB (Glossy)
Resistance to domestic chemical products and additives for swimming pools		MIN B		UA
Frost resistance	ISO 10545-12	REQUIRED		RESISTANT
Moisture expansion	ISO 10545-10	Declared value		0.01% (0,1mm)
Fire Reaction	UNI EN 13501-1	Decision 96/603/EC and amendments		Class A1 - A1 fl

Specifications

20mm thickness

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PORCELAIN

Ceramic tile thickness is 20mm –
tile thickness with mat backing is 20.7mm

FINE PORCELAIN STONEWARE

	REFERENCE STANDARD	DESCRIPTION OF TEST METHOD	TEST RESULTS
Volatile organic compound emission tests.	UNI EN ISO 16000-9	Test running on a 28 day length	Class A+
Compression strength	ASTM C170M-16	Breaking load on 12x12x12 mm samples	Breaking tension 527.9 Mpa sample deformation 0.86 mm.
Static load for raised floors.	UNI EN ISO 12825	Application of increasing load until sample until breakage is obtained.	average values*** lateral midpoint: 7,21 kN centre: 8,69 kN

Archant Porcelain's special technology and aesthetic versatility make the material ideal both for furnishing and kitchen tops. We list the results below.

Results on surface			
TECHNICAL FEATURES			
FEATURE	REFERENCE STANDARD	DESCRIPTION OF TEST METHOD	TEST RESULTS N ≥15 cm
Cadmium and lead release in mg/dm ²	ISO 10545-15	Request for GL surfaces for worktops.	NONE
Resistance to damp heat	UNI EN 12721:2013	55° to 100° cycles	No visible change CEN TS 16209 Class A.
Resistance to dry heat	UNI EN 12722:2013	55° to 180° cycles	No visible change CEN TS 16209 Class A.
Resistance to cold liquids	UNI EN 12720:2013	Period of contact 10s to 24 h	CEN TS 16209 Class B
Tendency to retain dirt	UNI 9300:2015	Carbon black staining agent	No visible change
Scratch resistance	UNI EN 15186:2012 met.B	Load > 10N	Class A (Matte/Velvet)
Fungi resistance	ASTM G 21-15	Contact for 28 days with a variety of fungi strains	No fungi growth on the surface
Light Reflectance Value LRV	In-house test method.	Illuminant D65 Illuminant A Spectrophotometer at 10°	Available on request
Colours' resistance light	DIN 51094	Evaluation of the color change following a 28 day exposure to ultra violet rays.	COMPLIANT

Handling & Storage

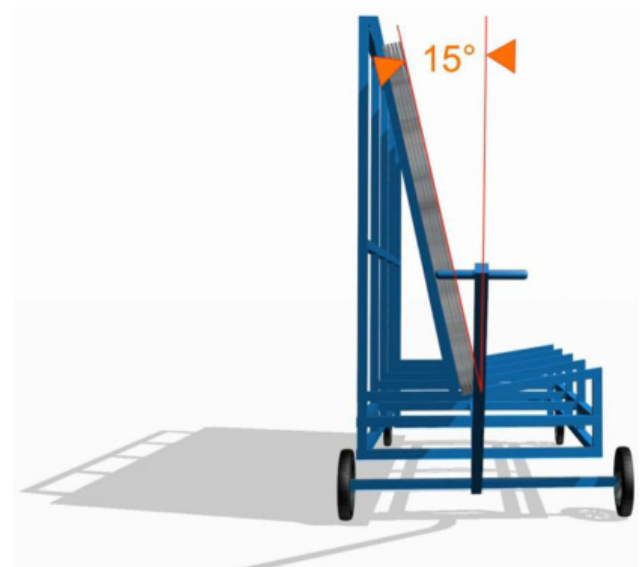
Archant Porcelain slabs must be loaded, unloaded and transported with the aid of an appropriate lift truck, crane or other handling equipment. Always be sure to balance the load when handling and transporting it.

Technical Information	U.M.	THICKNESS 6mm Values	THICKNESS 12mm Values	THICKNESS 20mm Values
Slab surface area	m ²	5.28	5.28	5.28
SU slab surface	m ²	5.12	5.12	5.12
Slab weight	kg	76.24	152.47	254.87
Weight per m ²	kg	14.44	28.88	48.27
Slabs per A-Frame	nr.	44	22	14
m ² per A-Frame	m ²	232.32	116.16	73.92
m ² per SU A-Frame	m ²	225.28	112.64	71.68
Metal A-Frame weight	kg	200	200	200
Complete metal A-Frame weight	kg	3,594.56	3,594.56	3,808.12
A-Frame dimensions including packaging	mm	3,300x750x1,996	3,300x750x1,996	3,300x750x1,996

Number of slabs per A-Frame varies according with the thickness of the selected material. The worked surface of Archant Porcelain stone slab is protected by a clear polyethylene film. The carrier must carefully and appropriately fasten the material when loading.

Sheets

Always carry sheets vertically. It is recommended that sheets are stored vertically on the 3050mm edge, at a 15° degree angle. A rack with 4 uprights is preferred and recommended, is your rack earthquake resistant? Store sheets polished face-to-face, of no more than 10 sheets per rack.



Pallet Racking

Horizontal racking can be considered for pallets of less than 10 sheets.

NB: Pallets must not be stacked on top of each other. Store inside and keep well ventilated at all times

Manoeuvring Sheets

When sheets are relocated ensure they are in a vertical position to prevent breaking.

Secure sheets on an a frame trolley, (wind can easily topple sheets).

Extreme care is required when using a dolly, it is recommended to have two or more people.



A frame
Trolley

Mechanical Lifting

Another option is to use a gantry crane or forklift with a slab lifter (White rubber prevents the marking on light materials)

Sheet weight ranges from 100 kilos +
Steel cap boots must be worn when moving sheets.

Suction cups and sheet grabbers are great tools for lifting and handling sheets whilst in a vertical position. Make sure they are correctly rated see examples below.



Mechanical
Lifting



Note:

Sheets may only be manoeuvred in a horizontal position if they are within an approved crate and moved by gantry crane or forklift.

(Spread the forks to their maximum prior to lifting pallet avoiding flexing and breakage)



Suction
Cups

Transportation

The slabs produced are positioned on A-Frames adequate to transportation and storage, and appropriately labelled.

Delivery Process

All Archant Porcelain sheets are to be transported upright (vertically) in purpose built steel stillage. The steel stillage size is 3200mm x 1500mm x 1000mm.



Empty iron A-Frame
empty weight 200kg



A-Frame ready
for shipment

Stand Handling

Archant Porcelain slabs must be handled (for loading and unloading) and transported with the aid of an appropriate lift truck, crane or any other handling device. Always take great care to balance the load during handling and transportation. Any further handling must be carried only using A-Frames or suitable tracks (wood or metal) with adequate material protectors for the vertical storage of the slabs (made of wood, plastic or rubber) to prevent scratching and chipping at the support points.



Widen the forks on the truck as apart as possible to ensure the A-Frame stability, when moving it.



Pick up the A-Frame, approach it as close as possible to the lift truck and prevent the load from swaying.

Arrival and Inspection

1) Opening the packaging and cutting the straps:

Remove the hood and close the safety hook by retracting into its seat above the stand, then first cut the vertical straps, followed by the two horizontal ones (at the bottom and top).

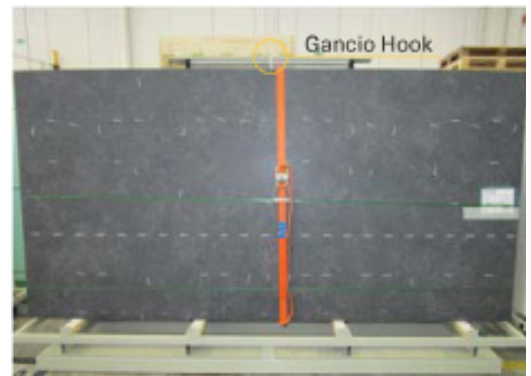
Proceed by cutting the central straps in the following order:

1) start with the one passing through the eyelet then 2) or 3) so that the other one on the side of the A-frame remains safe.



2) Safe movement of open stands:

Open the hook (red square) and use a belt with a jack to pass it underneath so that it can be anchored on both sides, then close the hook and move using an appropriate cart.



3) Inspection on Delivery

Throughout our dispatch process, we visually inspected each as it is moved into our storage facility. It is your responsibility to inspect the sheets on arrival into your premises, and if there are any queries contact us within 24 hours. This gives us the best opportunity to replace from the same batch if required. Remember signing for goods means you accept the goods in good condition. "Check carefully"



What to inspect upon arrival

- ✓ Crate is complete and in good condition.
- ✓ Inspect sheets for cracks/scratches or distinguishing flaws
- ✓ Report concerns immediately.

Once a sheet is cut or fabricated, Archant cannot accept any claims for colour differentiation, blemishes or marking.

Slab Handling

When transporting

- Any major blows and bumps could cause a material breakage.
- Do not place any other material on top of slabs when moving the slabs.
- Always be careful to prevent shocks or bumps which could cause chipping and breakage of the slabs.

When storing

- Stack multiple slabs only if they are all the same size.
- Avoid any slab or part of it to be positioned on any smaller cut slabs or possible cut leftovers or scraps and check there is no empty space on the bracket.

Transporting using a gripper

- Position the gripper in the middle. - Only lift within the weight limits specified for the machinery.
- For multiple slabs, use a lifting beam.

Transporting using a lifting beam

- Use for transporting multiple slabs.
- Using canvas straps position so there is enough distance between each slab.
- It is advised to place a wooden spacer, larger than the slab thickness pack, both at the bottom and on the upper part.
- This ensures the belts support the weight, decreasing and the weight and tension on the slabs.
- Do not use steel cables as these could damage the surfaces and edges of the slab.

Handling cut pieces

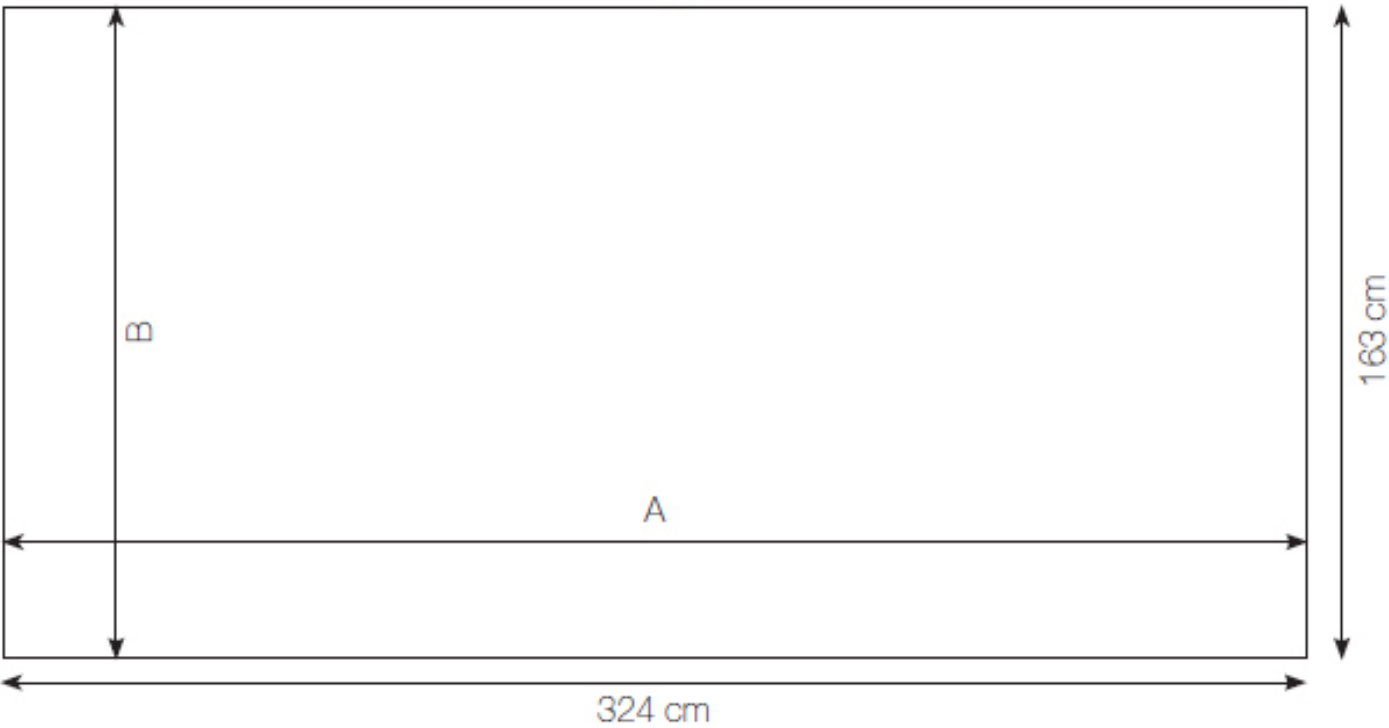
- Wear safety garments when handling worked and cut slab pieces as they may be sharp on their sides and corners and should be handled with extreme care.
- Any single piece (even without holes) must always be uplifted by their edges.
- Cut material should be packed carefully into in crates with inflated airbags all around the slab and outside (of appropriate thickness), corner protectors and padded panels to prevent blows. Unsuitable and different material chosen for outside crate packaging may cause damage.



Quality Control

DIMENSIONS

Approximate nominal dimensions

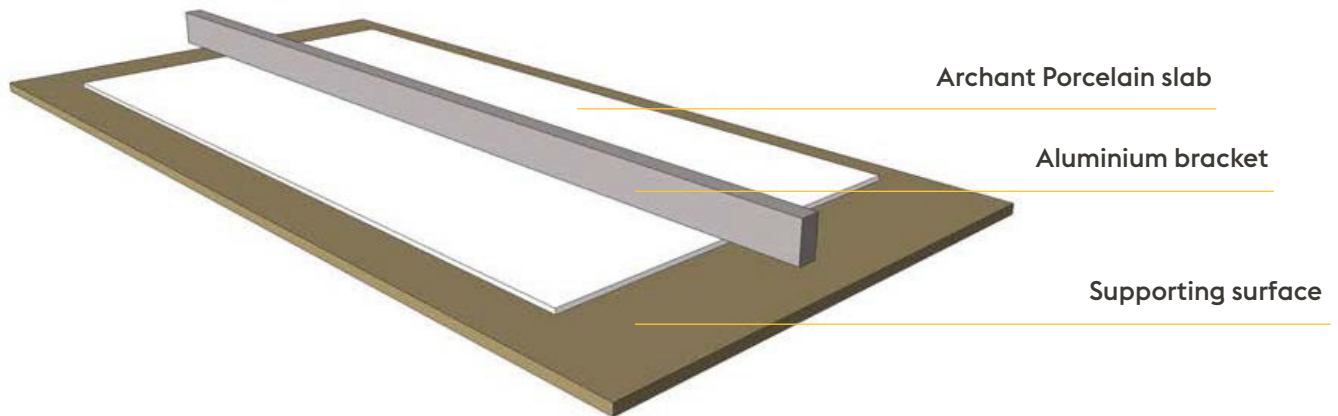


Dimensions	Values	Length mm	Length mm
Nominal	approximate	163	324
Usable size for 6mm	-	160	320
Usable size for 12 mm	-	160	320
Usable size for 20 mm	-	160	320

Thickness

Nominal thickness	Tolerance mm
6.7 mm	+/- 0.3
12.7 mm	+/- 0.6
20 mm	+/- 1.0

Flatness



Surface Appearance

Archant Porcelain slabs are made from natural materials.

Differences in composition and the presence of impurities can result in differences in hue between slabs in different production lots and between the surface and the support.

Flaws should be considered acceptable up to the following limits:

- pollution (strongly contrasting colours which do not match the graphics): up to 1 mm diameter.
- grains in relief (same colour as background): up to 3 mm diameter and 1 mm thickness.

Identification Label



Every single slab is stamped on both sides with: code, article and identification colour of the lot.

Archant Porcelain is manufactured by Florim Stone, an Italian ceramic producer so all slabs will be labelled as Florim Stone. This is a sign of the slabs authenticity and genuineness.

Fabrication Process

Before beginning any kind of work on the slab, clean it thoroughly, check for defects, uneven patches of color or any other deviations from the quality standards: **no claims will be taken into consideration once the material has been processed.**

Fabrication Tools

The equipment required for fabrication is the specialist equipment for porcelain stone, however some standard equipment for natural and quartz stone may be able to be used for fabricating with Archant Porcelain but using tools designed specifically for porcelain. Below is a list of the equipment commonly used for fabricating Archant Porcelain.

- Waterjet cutter
- CNC Contouring Machine
- Bridge Saw
- Diamond Cutting Blades
- Diamond Grinding wheels
- Diamond polishing disks
- Diamond burs
- Forklifts for handling
- A frames or pin racks to store slabs
- overhead cranes
- jib cranes, Air compressor
- Clamps
- Dust extraction system
- Water treatment system
- Work tables.

BRIDGE SAW

Basic information

The workbench must be solid, flat and in good condition, without any residues or debris, however small, and, if possible, it should be covered with a high density technical rubber (such as ecorubber or a similar material).

The cutting disc must be selected especially for the type of material. Archant Porcelain is a true porcelain surface so discs for cutting stone are not generally suitable for cutting Archant Porcelain slabs.

The recommended cutting disc to use from the Ceramic and Porcelain cutting range from Italdiamant. Although cutting disks may be used ensuring they are specially designed and manufactured for porcelain or ceramic tile fabrication. It is not advisable to use rings to reduce the diameter of the central hole. Allow 2 mm for the disc to pass through beyond the material. The disc descent speed on the slab should be 0.1 m/min. While cutting, there must be a constant and abundant stream of water directed to the front and sides of the disc, as close as possible to the cutting area.

It is recommended to reduce the cutting speed by 50% during the first 15/20 cm of the cut. When cutting small pieces such as strips or backsplashes, it is recommended to secure the material with some kind of support on the sides to prevent the disc from twisting upon entering and exiting the material. Make sure the disc comes all the way out of the material. Sharpen the disc regularly.

Instructions and parameters for bridge saw

Thicknesses	Disc Diameter	Range Rpm	Range of forward movement m/Mn.Straight cut	Range of forward movement m/Mn.Inclined cut
6 and 12 mm	300	2300 - 2500	1.2 - 1.6	0.70 - 0.90
	350	2000 - 2200		
	400	1700 - 1900		
	450	1400 - 1800		

thickness 20 mm: figures available on request

** Reduce the speed by 50% for 15/20 cm at the start and end of the cut

Note that the parameters provided are approximate and depend on the type of disc and machine used; follow the supplier's specific instructions. Use a bridge saw with a frequency variator to adjust revolutions per minute and obtain precise monitoring. When cutting corners or cut outs, first drill a hole at the point of intersection of the straight cuts, using a tool of at least 10 mm diameter.

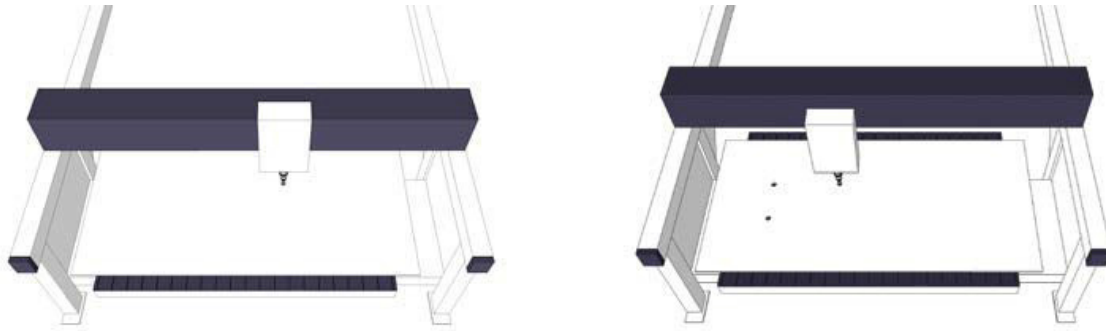


Bridge Disk Saw

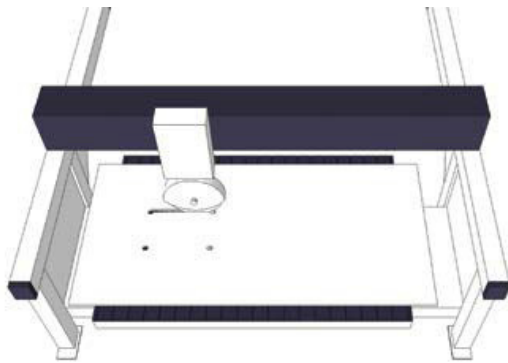
Hole Positioning

Cut outs with disc for sinks and hobs

1/2 Draw guide lines and drill holes at the 4 corners of the desired rectangle .



3 Make the cut, starting on the longer sides and increasing pressure gradually.



4 Always allow a minimum of 5 cm between the hole and the edge of the slab.



5 Always avoid right angles and maintain a minimum radius of 5 mm.

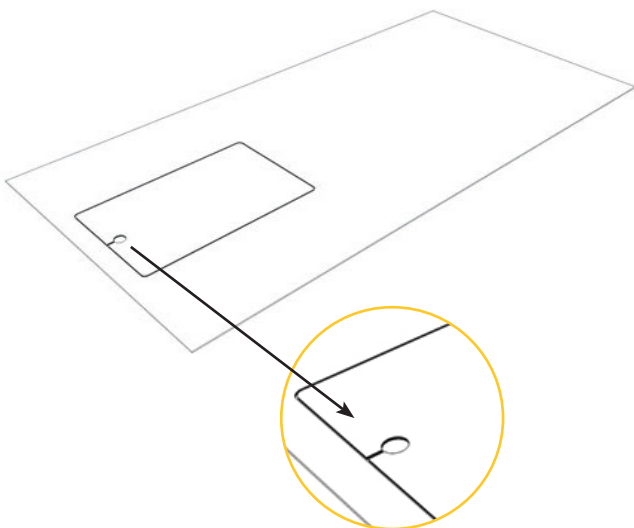


Water Jet Cutting Instructions and Parameters

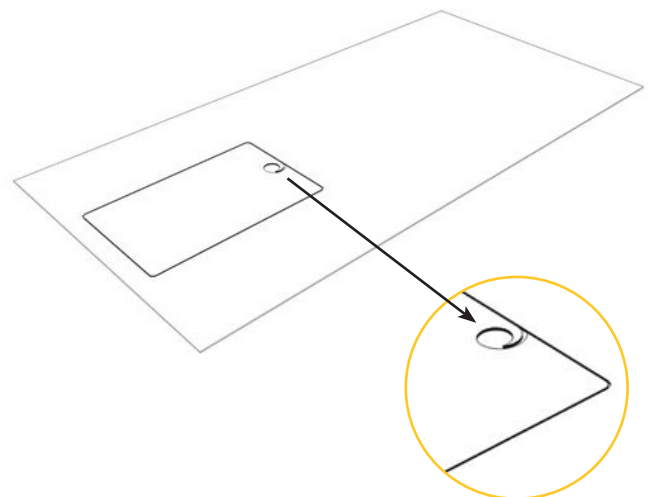
We recommend using water jet cutting on panels which first have been roughed out using a bridge saw (see above). Check that the work bench is flat and clear of any processing residue. The work bench slats must be in perfect condition and with a minimum gap between them, so that the panel is perfectly supported by the bench itself. We advise keeping the water around 3 mm over the level of the slats. It is best to make continuous cuts, with the initial piercing outside the panel itself.

For holes or cut outs, the piercing cut should be made inside the recessed area, and join the side of the finished panel with a slight curve (see image). Start the cut on the side of the cut out closest to the finished panel. Do not leave sharp corners; always round corners off with a radius of at least 5 mm. The recess should be at least 5 cm inside the edge of the panel. As far as possible, make sure to cut any holes at the centre of the panel and any straight sections at its sides.

Incorrect cut



Correct cut



Approximate figures for working with thicknesses of 6 and 12 mm:

Abrasive 0.35-0.45 Kg/Min.

Entry pressure 600-700 bar

Cutting pressure 3500-3700 bar

Forward movement 80 -130 cm./min.

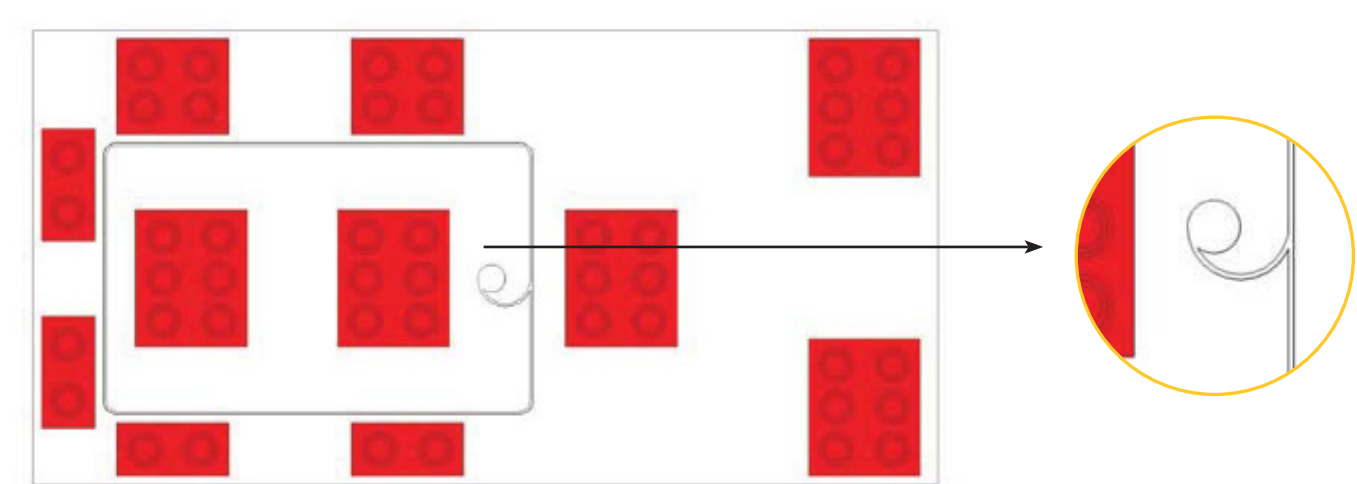
Reduced speed of forward movement permits improvement of the finish of the cut.

Adapt speed according to the desired quality.

thickness 20 mm: figures available on request

CNC Instructions and Parameters

Position suction cups to support the surface in the best possible way, checking carefully that all pieces are supported to prevent the cut pieces from falling. Drill the hole where the most material is present, always remembering to leave a minimum distance of 5 cm between the start of the hole and the edge. Cut the hole as far from the corner as possible, curving slightly in relation to the entry hole.



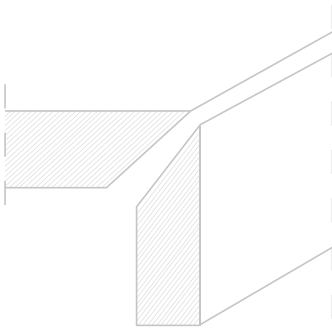
Thicknesses		Speed of forward movement cm/min (*)	Rpm/min	Max
6 and 12 mm	35 mm core drill tool	15-20	2000/2200	-
	Cutting tool (candle miller) through solid Diam.19-22 mm.	300-350	5000/5500	-
	Flush countertop tool (or incremental cutting milling tool)	250	6000	2mm

When making holes for flush countertops, avoid reductions of more than 3 mm.
(thicknesses 12 and 20mm)
thickness 20 mm: figures available on request

Worked ribs

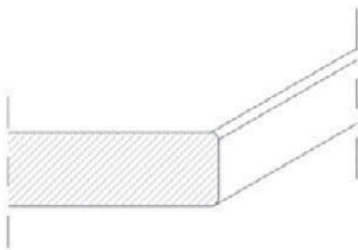
When fabricating the Mitred Edge, the pieces can either be mitred through a waterjet cutting or with a bridge saw. We recommend using the 'Tusk Diamond Tooth Turbo Blade 115mm for Ceramic Tiles' for mitred Archant porcelain slabs.

Mitred Edge



1. Cut the edges of bot pieces at an angle greater than 45 (degree sign) with either a waterjet cutter or a bridge saw depending on the length of the piece.)
2. If bridge-sawed, sand the edges to get an even and straight mitred edge. Ensure that the tip of the edge is sanded slightly square to about 2mm thick to prevent chipping.
3. Clean all the edges
4. Apply stone to the prepared (substrate surface should be covered with ceramic glue Cercol F.49) substrate, hold stone pieces in place with tape.
5. Mix and apply the grout to edges of the stone
6. The grout/resin must be the same colour as the slab (see grout matches table)
7. Remove residues of grout.

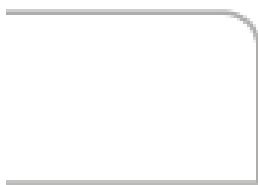
Bevelled Edge



A bevelled edge is useful for increasing the ability of the edge of the slab to resist strong shocks

1. Use sandpaper appropriate for porcelain slabs
2. Use abrasives in the correct order to obtain the desired finish

2-3mm Penciled Edge



The 2-3mm Penciled Edge is also useful for increasing the resistance of the slab edge to strong shocks

1. Use sandpaper appropriate for porcelain stoneware
2. Use abrasives in the correct order to obtain the desired finish

To reduce the risk of chipping the edge, perform the bevelling before finishing the edge with the edge polisher. Check your polishing sets prior to initiate the edge polishing process.

Use abrasives in the correct order to obtain the desired finish.

Approximate parameters:

Abrasive: Satin finish 120-220-500

Abrasive: Glossy finish 100-200-500-1000-2000

Brush Sequence: 36-46-80-120-(220-400)

Speed: 100/120 cm. per Mn.

Remember to make the edge with at least a 2 mm bevel, round, or diagonal, to prevent the chipping of the edge.

After processing, treat the visible part of the edge with a suitable oil- and water-repellent impregnating agent.

Processing Principles

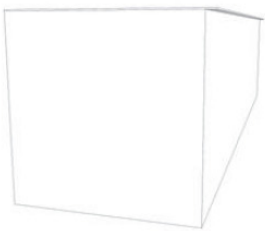
Thickness 12 mm and 20 mm.

The maximum overhang without support is 15 cm. The extent of static weight bearable depends on whether or not there are holes close to the overhang. It is always advisable to perform a specific assessment as excessive weight near the holes can lead to slab breakage. In the presence of overhangs of more than 15 cm, and up to a maximum of 30 cm, it will be necessary to prepare appropriate support (refer to picture 1, figure c). For overhangs of more than 30 cm, it is necessary to prepare an adequate support, at least, every 60-62 cm.

*Note from Archant

If the fabricator uses the Colonetti fabrication method, taught at the Archant Florim Stone Fabrication Academy, the maximum overhang without support is 30cm. This is true when the superior wedi substrate and correct Cercol glues and grouts are used throughout the fabrication process.

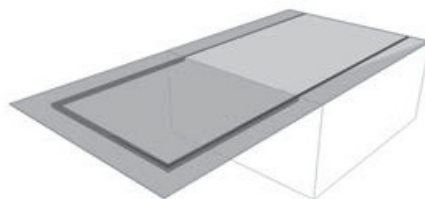
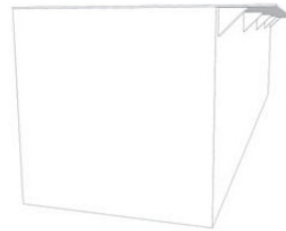
a)



b)



c)



2

Preparing and Mixing Grout

- **Apply tape around the corners.**

Apply tape around the entire worked stone edges. This will ensure the stone is protected from any grout that may land on the stone.

- **Weigh out the the grout and colour.**

Use a ratio of 2:1 grout colour to hardener. Ensure the correct grout colour is used by referencing the Integra grout colour chart.

- **Mix grout well**

For best results, mix the grout and hardener on a tile using a tiling scraper. Ensure all mixture is evenly mixed and smooth so the grout hardens at the correct speed and hardness.

Applying Grout

- **Apply grout to the edges**

Using a thin scraper, or similar, apply grout to the edges of the stone. Ensure you fill the gap between the two stone pieces as best as possible. Once the initial layer has been completed, add more grout to start building up an ares.

- **Allow to dry overnight**

Finishing the Edges

- **Remove the tape**

After allowing to set for the recommended time, remove the strips of tape.

- **Gently heat the grout**

Using a blow heater, gently heat the grout by directing the heat towards the edges of the stone. This will soften the grout for scraping in the next step. Do not have the blow heater too close as it could damage or deteriate the grout, or burn the grout colour.

- **Cut off excess grout**

Using a Stanley Blade, scrape off the excess grout from the join in long even strokes. Ensure you cut the grout parallel to the flat angle of each stone slab to ensure there is a small ares left on the corner.

- **Sand to round the corner**

Gently hand-sand the corners to further remove excess grout, round the corner and to ensure the edge is left smooth.

- **Wipe & apply more colour**

Wipe down the edges to remove any grout sanding residue, and to ensure the area is clean. Then apply more grout colour to the edges only, by hand. This will ensure the finished grout colour is the best match to the porcelain stone colour.

Glues and Bonding

Gluing the substrate

A substrate base will be required when using Archant Porcelain. For more technical fabrications where a mitred edge will be created, using our approved Wedi substrate as a base is critical. The approved glue when gluing the substrate is Wedi Joint Sealant.

Glueing and bonding the stone to substrate

When gluing the cut Archant Porcelain pieces onto the substrate, the approved glue is Cercol F.49. This should be mixed as per specifications and then applied evenly and in straight lines to the substrate. Once the glue has been applied to the substrate, the stone should be carefully pressed into place. Tape should be used to hold the stone pieces into place if required.



Adhesive Integra Colour Chart

Color match may vary with manufacturers dye lot variations. Information is provided as a reference only; end user should verify suitability prior use.

Slab name	Match 1	Match 2
Colour Black (Matte Finish)	Black - 2080	Satin Black - 3062
Colour White (Matte Finish)	White Linen - 0310 *	-
Cement Light Grey (Matte Finish)	Timber Wolf - 3275 +	-
Marble Calacatta A (Velvet Finish)	Glacier White - 3006	-
Marble Calacatta B (Velvet Finish)	Bright White - 3011	Newport Grey - 2360
Marble Calacatta Gold A (Matte Finish)	Glacier White - 3006	-
Marble Calacatta Gold B (Matte Finish)	Polar White - 3080	-
Marble Statuario A (Matte Finish)	Polar White - 3080	-
Marble Statuario B (Matte Finish)	Glacier White - 3006	-
Marble Marquinia (Matte Finish)	Galaxy Black - 2235	-
Marble Laurent (Matte Finish)	Galaxy Black - 2235	-
Marble Gray (Matte Finish)	Graphite - 3230 *	-
Marble Breach A (Matte Finish)	Brie – 3105	-
Marble Breach B (Matte Finish)	Brie – 3105	-
Marble Eternal Gold A (Matte Finish)	Glacier White - 3006	-
Marble Eternal Gold B (Matte Finish)	Glacier White - 3006	-
Marble Yamuna (Matte Finish)	Raw Silk - 2377	-

Substrate

Wedi

Wedi building board is the approved substrate material for Archant Porcelain. Wedi building boards have a blue core made from CFC-free extruded polystyrene rigid foam. The rigid foam is reinforced with glass fibre (with alkali-resistant finish) on both sides and coated with a polymer-modified cement.

Wedi Applications

With its special properties, the wedi building board has a wide variety of applications.

- Carrier element for laying tiles, slabs and natural stone floor coverings using the thin-bed method
- Adhesive surface for applying plaster, tile adhesive and other materials
- Moisture protection
- Effective heat insulation
- Design element
- Composite sealing with tile and slab coverings of load class A and B (directly loaded walls and floors in rooms in which tap or cleaning water is used very frequently or for long periods, walls and floors of indoor and outdoor pools that are filled with water with the properties of drinking water). More info available at archant.co.nz/wedi

Product Properties

wedi building boards can be fitted on almost any surface, and they are waterproof, heat-insulating, versatile, lightweight, and dimensionally stable and quick to process.

Product Information

NAME	CODE	SLAB SIZE (MM)	THICKNESS (MM)
Wedi 1250x914x6mm substrate sheet	50.7002.BL	1250x914	6
Wedi 2500x1200x10mm substrate sheet	50.7003.BL	2500x1200	10
Wedi 2500x1200x20mm substrate sheet	50.7004.BL	2500x1200	20
Wedi 2500x600x50mm substrate sheet	50.7005.BL	2500x600	50
Wedi 2500x1200x50mm substrate sheet	50.7006.BL	2500x1200	50

Technical Specifications

Technical properties of wedi building board	
Fire behaviour EN 13501	E
Sound insulation value DIN EN ISO 140-3 (with 12.5 board thickness)	Rw,P 23 dB
Bending stress in reference to DIN 53293 (applies to wedi building board with 10, 12.5 and 20 mm board thickness)	3900 kPa (average)
Tensile strength	0.28 N/mm ²
Linear coefficient of thermal expansion	0.02 mm/mK

Technical properties of raw foam building board systems	
Long-term compressive strength (50 years) \leq 2% compression EN 1606	0.08 N/mm ²
Compressive resistance or compressive strength at 10% compression EN 826	0.25 N/mm ²
Associated module of elasticity EN 826	10 – 18 N/mm ²
Thermal conductivity EN 13164	0.036 W/mK
Tensile strength EN 1607	0.45 N/mm ²
Shearing resistance EN 12090	0.2 N/mm ²
Shear modulus EN 12090	7 N/mm ²
Bulk density EN 1602	32 kg/m ³
Resistance to water vapour diffusion (μ) EN 12086	100
Water absorption under long-term immersion EN 12087	\leq 1.5 % by vol.
Capillary action	0
Linear coefficient of thermal expansion	0.07 mm/mK
Temperature limits	-50°C / +75°C
Fire behaviour EN 13501	E
Carbon dioxide propellant GWP value	1

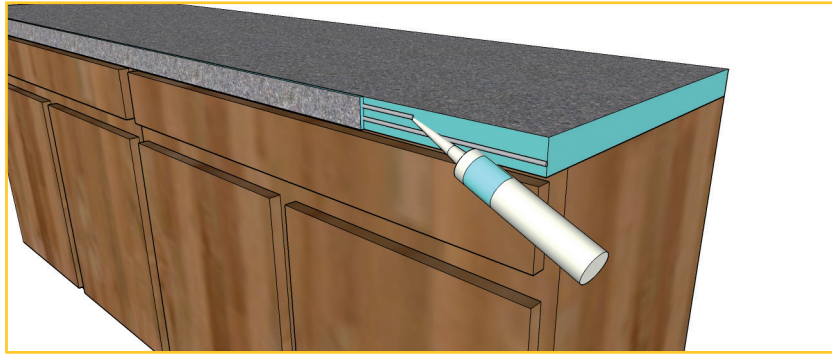
Nominal thickness in mm	Thermal resistance $1/\Delta$ ¹⁾ m ² x K/W	U-value W/m ² x K
6	0.167	2.97
10	0.229	2.509
20	0.514	1.46
50	1.371	0.65

When determining the U-value, only wedi building board and heat transmission resistance $1/i$ and $1/a$ for external walls are taken into account. In specific applications, the existing masonry and other layers must also be included.

Fabrication with Wedi



- 1) Apply a continuous 1/2" thick bead of wedi Joint Sealant over the spacers of your countertop. Glue down the wedi Building Panel in thickness of 1 1/2" to 2" after you have cut it to size. Leave it recessed behind the front of the counter so you can apply a strip of wedi Building Panel to the exposed foam edge as shown in 02 and still finish flush. Apply some weight equally on the surface for 15 minutes so that the wedi Joint Sealant (a strong adhesive) can set up properly under compression for about 20 minutes.



- 2) Apply wedi Joint Sealant and a strip wedi Building Panel in any thickness starting from 1/8" thick standard wedi Building Panels. This strip's cementitious coating side will allow you to better set small tile.



- 3) Cut out for the sink using a jigsaw or handsaw. As needed, recess cuts might be created with a utility knife or a router to accommodate recessed sinks. Cutting the holes may proceed before or after installation of large format, thin porcelain tile as indicated in step 05.



- 4) Install the large, or small format tile, including thin veneer tile, or stone to the wedi Building Panel surface and edges using a modified thinset.



5) Apply weight equally distributed across the tile until thinset mortar has set.

Installation Tips:

- wedi Building Panels starting with a panel thickness of 1 1/2" can be used over counters without additional plywood support. The wedi panels may overhang at the countertop edges by a maximum of 6 inches if overhang areas are tiled top, front and bottom.
- Some large or irregular shaped countertops will require multiple panels. This makes necessary the use of an edge leveling system to maintain a smooth transition between the large format, thin porcelain tile. For timing and method of installation refer to the edge leveling system manufacturer's instructions.
- In areas where the countertop intersects with the back-splash or other vertical projections through the countertop, differential movement will occur. For these active transitions, most manufacturers recommend the use of a color coordinated 100% silicone caulk for its superior flexibility and adhesion, or when applicable a permanent metal or plastic edge treatment piece can be used.
- Full coverage of bonding mortar is critical for the impact resistance of the installed countertop. It has found that a high speed orbital sander with pad is the best way to evacuate the air and collapse the ridges under the panel. The installation guidelines for floors, including but not limited to, proper trowel and troweling technique (excluding the walk in method for embedding), should be followed for countertops.

Wedi Thicknesses for Mitred Edges

Countertop Thickness (mm)	Porcelain Thickness	6mm Wedi Building Board	10mm Wedi Building Board	20mm Wedi Building Board	50mm Wedi Building Board
18	12	1			
22	6	1	1		
22	12		1		
26	6			1	
26	20	1			
28	12	1	1		
30	6	4			
30	20		1		
32	12			1	
32	20	2			
34	6	3	1		
34	12	2	1	1	
36	6		1	1	
36	12	1	1		
38	12	1			
38	20	3		1	
40	6	4	1		
40	12	3	1		
40	20			1	
42	12		1	1	
44	12	2		1	
46	6			2	
46	20	1		1	
48	12	1	1	1	
50	12	3		1	
50	20		1	1	
52	6	1		1	
52	12			2	
56	6				1
50	12	1			

56	20	1	1	1	
58	12	1		2	
60	20			2	
62	6		1		1
62	12				1
66	6		1		1
66	20	1		2	
68	12	1			1
70	20				1
72	6	1	1		1
72	12		1		1
76	6			1	1
76	20	1			1
80	20		1		1
82	12			1	1
86	6		1	1	1
86	20	1	1		1
88	12	1		1	1
90	20			1	1
92	12		1	1	1
96	6			2	1
96	20	1		1	1
100	20		1	1	1
102	12			2	1

Overhangs with and without support

Thickness 6 mm. The Archant Porcelain slab 6 mm thick may be used as a “countertop” only if appropriately supported. Countertops with overhangs may be made only with an appropriate supporting structure.

Preparation for installation

Cut outs

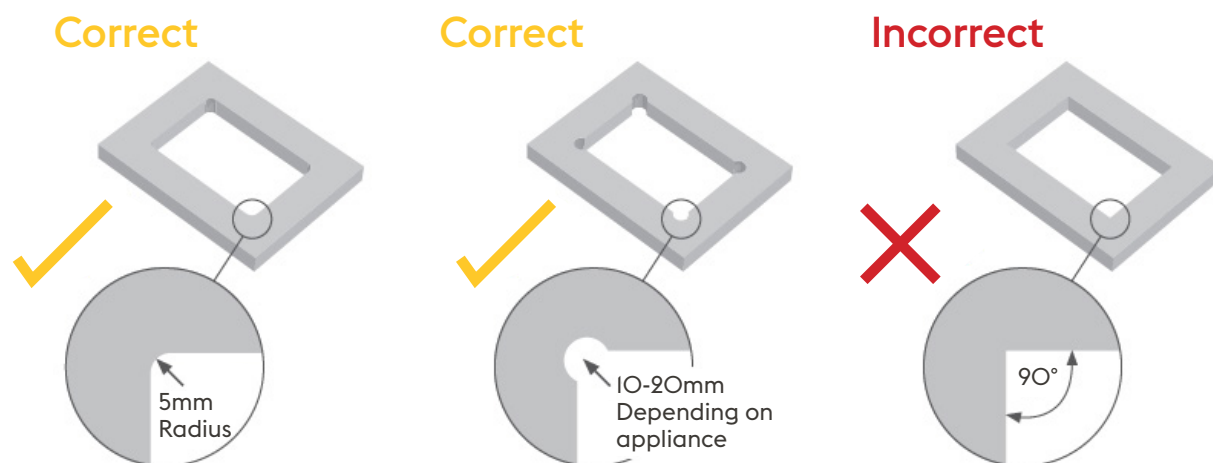
All cut outs must have radius corners (no exceptions) with a minimum radius of 5mm.

When a bench top is positioned around a wall or a post, these must be trenched to accommodate the radius corner in the Archant Porcelain.

All cut outs must be a clean cut with no nicks or gouges visible along the edges.

All cut outs including corners must have a heavy arris.

Polish all edges with a minimum of a 200 grit-polishing disc.



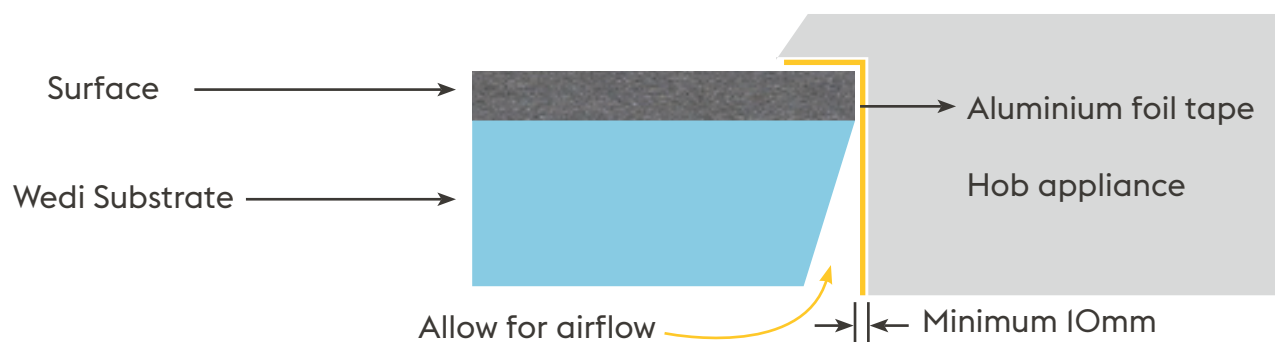
Preparation for hob Installations

Cut outs must be sealed before installation. Use aluminium foil tape (50mm minimum width) Tape is to start from outside of appliance and flow into cut-out dropping down in front of Wedi substrate.

Trim excess foil once hob is in place (be careful not to damage surface)

Always allow an extra 5mm clearance between the stone edge and the appliance for expansion.

Some appliance manuals do not allow enough tolerance in their recommendations, which in time may cause unnecessary stress to the sheet material



Installation

Over mounting a sink

Arris the entire circumference. Polish all edges with a minimum of a 200 grit-polishing disc. There are to be no nicks or gouges along the edges. (Check sink manufacturers specifications - some have a self-seal strip that forbids sealants being used.)

Ensure a maximum radius is on every corner, never have square corners in any cut outs.

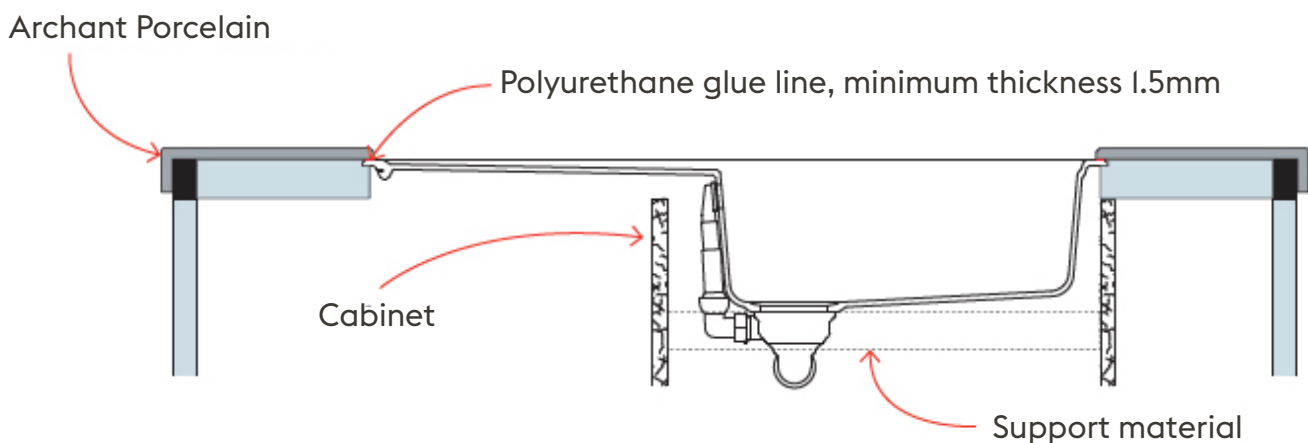
Under mounting a sink

Polish the Archant Porcelain cut out as you would with profiled edges, (use masking tape to cover the surface area, this will prevent disks accidentally scratching the polished face)

Adhesive for gluing in stainless steel sinks will be of good quality polyurethane, in conjunction with primers – do not use Silicone. Remember the thicker the glue line the stronger the polyurethane. A minimum of 1.5mm is recommended (check your product manufacturers specifications)

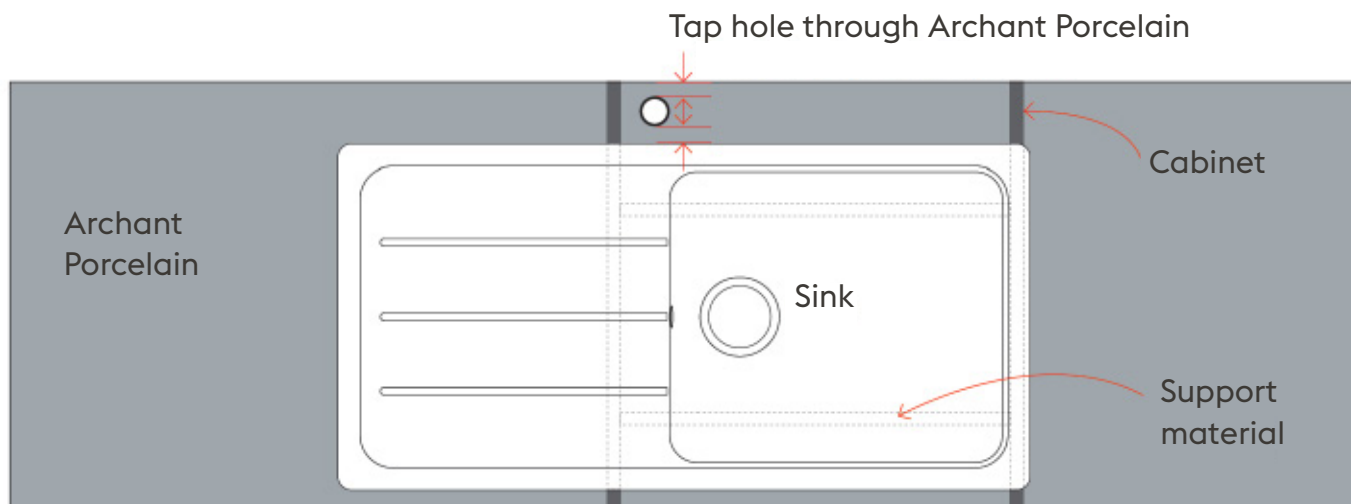
When under mounting sinks, additional support is required, this is achieved by gluing support rails to the substrate edge, these rest against the stainless steel flange. (Use an epoxy or similar glue)

We recommend all sink installations are supported independently from the Eurostone® material



Tap installation.

Where the tap is mounted through the stone ensure there is sufficient Archant Porcelain material for support to allow for no cracking.



Read template notes as this list is to be covered off before installation. To avoid any possible breakages, the top must only be mounted on a surface that is perfectly level and has been plumb-lined.

Handle the tops with particular care while installing, avoiding any knock that might cause irreparable chipping. Pay particular attention while placing the tops near one another.

Fixing

Screw cabinets into bench substrate, and remember extra fixing maybe needed in high sun areas.

Where screw fixing is not possible – use strong adhesives.

Do not use fasteners (bolts, screws, nails, etc.) to fix directly to Archant Porcelain.

Site Joints

Always use toggle bolts for clamping together Archant Porcelain pieces. Use a minimum of 2 bolts per joint. Do not over tighten and use an approved Adhesive.

Flush Joint

When site joint is complete - clean all residue and polish top with dry cloth. A recoat of “Darkener super” in this area will reinstate the final sparkling look of quality of perfection.

Tolerance gaps (between vertical surfaces)

Archant Porcelain sheets should not be restricted to move. All gaps should have matching grout mixture coloured to complement bench top. Moisture areas must be sealed with waterproof grout mixture. Nonwaterproof grout mixture should only be used where paint will be applied. Remove any excess grout mixture with a spatula before it becomes completely hard. Any grout mixture marks that have not been removed at this time can be removed using a suitable grout mixture solvent with a microfiber cloth.

Hob fitting

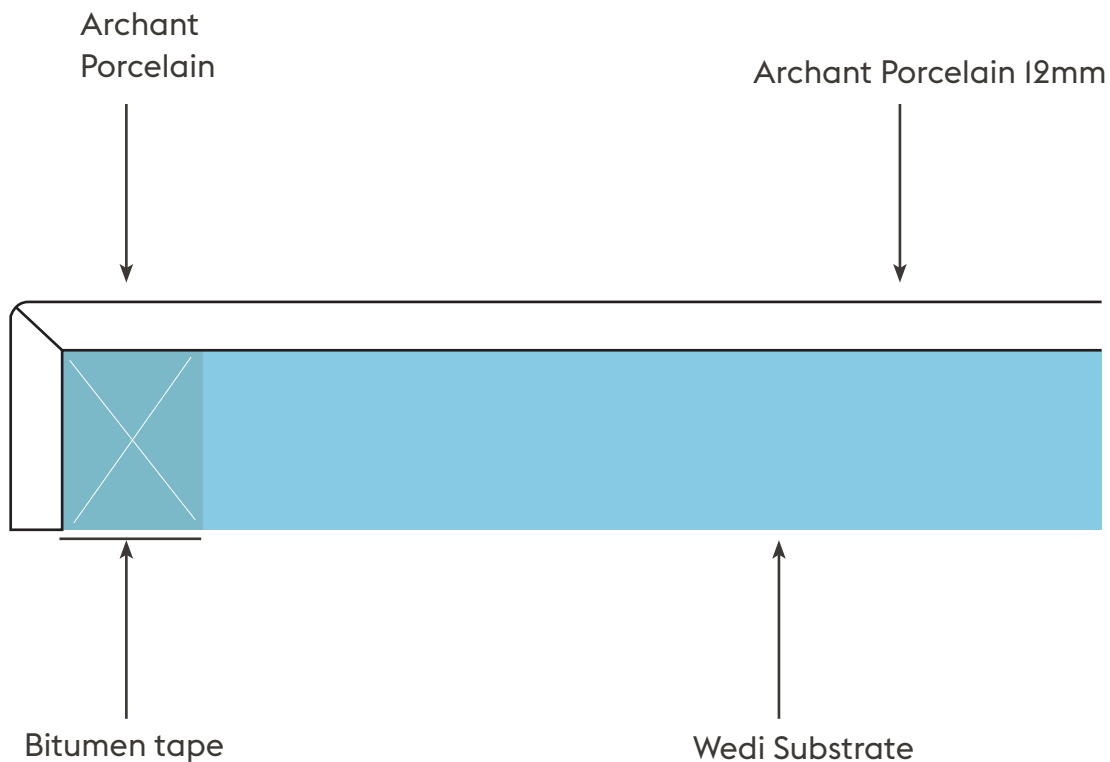
Pre-fit hob appliances to test and check there is good side clearance, also inspect whether electrical or gas fittings will not be hindered.

Helpful tip: Induction hobs need maximum airflow.

Airflow entry and exit points must be able to provide sufficient airflow to appliance. Then complete the foiling procedure.

Dishwasher

Make sure this area has been completely sealed (as referred to on page 11, sealing of substrates). Another good practice is to place a 70mm minimum barrier tape set in 3mm from front clashing and extending backwards. Steam from the appliance will deflect from the barrier tape, to prevent moisture becoming absorbed by the substrate



Dishwasher tape on underside

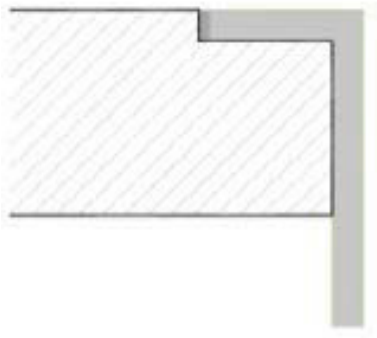
SINK installation

Sink mounted under countertop



Round the edges to make the slab stronger at the points where it is most exposed to shocks.

Flush-Mounted sink



Do not reduce slab thickness by more than 30%. Apply 1/16" silicone all around the perimeter to ensure waterproofing.

Sink mounted over countertop



No special recommendations are necessary as the edge is completely covered by the sink frame

Worked ribs

■ Rounded 1/4"



■ Slight 1/4" bevelling



■ 1/4" rounded right angle



■ Platner



■ Slight 1/4" bevelling



■ Slightly rounded



Installation of kitchen countertops

- The countertop must be transported to the installation site packaged.
- Do not step on the material, even when packaged.
- Remove packaging carefully always taking out the countertop vertically never flat.
- Position the countertop on the base and level it perfectly by adjusting the supporting feet, being careful not to leave any gaps. In the presence of excessive weight, even minimal gaps can cause the countertop to break. Immediately after installation, the weight of furnishings and fittings, heat and moisture can affect the levelling. It is recommended to recheck it a few months after installation.
- To anchor the countertop in place, apply silicone with different anchorage points to the kitchen cabinets.
- To anchor backsplashes in place, apply a bicomponent resin over the entire perimeter. Clean thoroughly.



Health and safety

Remember safety first.

Always exercise good safe work practices when fabricating or forming Archant products.

- | | |
|---------------------------|--|
| ✓ Wear steel capped boots | ✓ Wear gloves and protective clothing as appropriate |
| ✓ Wear eye protection | ✓ Keep tools sharp and equipment in good repair |
| ✓ Wear hearing protection | ✓ Good ventilation is always required |
| ✓ Wear a face mask | ✓ Keep work area clean |
| | ✓ Take adequate breaks |



Care & Maintenance

Everyday cleaning

Your daily maintenance should consist of wiping your bench top surface with a soft sponge or cloth and warm soapy water (mild detergent).

Our cleaner is specifically designed for Archant surfaces and is the perfect formulation for a sparkling clean spotless surface.

Before using any cleaning product, check that it does not contain trichloroethane, methylene chloride or high levels of alkaline/pH. If your bench top is exposed to any of these damaging products, rinse immediately with water to neutralize the chemicals.

Unsuitable products

Avoid cleaning the bench top with products containing bleach or with a high basic pH level as they may create whitish streaks. Other products that may mark the surface are industrial solvents, hydrofluoric acid, caustic soda, and varnish solvents. Grease-removal detergents for the kitchen may be used but once the stain has been removed, the area must be rinsed thoroughly with water. "Grease-removal" products are usually "basic" and, if left to act on a quartz agglomerate for a long time they might change the surface, leaving stains (they react with the resin content).

Indications for maintenance

Archant products are a highly compacted and non-porous surface, thus requiring no special treatment. Archant products do not absorb liquids, smells or food fats. Since they are non-porous, they do not allow the proliferation of bacteria, resist acids, are easy to clean and hygienic. Archant products are resistant to stains and wear and tear, scores, scratches and light bangs. Furthermore, the work tops should never be overloaded with weights exceeding 50kg (do not stand or sit on the bench top) and make sure blunt objects do not fall on it (knives, bottles, saucepans, working tools, etc) which, owing to their shape, may cause cracks that are difficult if not impossible to repair. Also note, that while heat resistant, prolonged direct contact with high heats could cause some damage.

Warranty

Warranty information

Archant provides a twelve-year warranty to the original owners of our Archant Porcelain surfaces that the product will be free from manufacturing defects for a period of 12 years from the date of installation.

Although the product is carefully inspected prior to shipping or delivery, it is the responsibility of the owner to thoroughly inspect the product upon its receipt.

Any damage to the product thereafter is the responsibility of the owner.

Final inspection and approval of the installation is also the owner's responsibility.

The warranty shall apply only where a product is properly fabricated by approved fabricators, subject to the exclusions set out below, is used for its intended purpose, and is maintained and used strictly in accordance with the Archant care and maintenance instructions.

All warranty claims must be received by Archant within 28 days of discovery of a manufacturing fault that falls within this warranty.

Warranty Exclusions

The warranty shall be null and void unless the product has been paid for in full. The warranty covers only manufacturing defects and does not apply to material subjected to damage due to mishandling, structural movement, abnormal use, misuse, physical chemical or exposure to direct or sustained heat, cold (thermal shock), exposure to chemicals, force, abnormal pressure or loading applied by a person or object.

The warranty does not cover damage or effects caused by poor installation or improper, insufficient or poorly designed support, cabinets, structures, substrate or sub-floors for bench tops, vertical surfaces or floor tiles.

The warranty does not cover quality of installation or damage caused by the installer or fabricator. Installation or fabrication issues must be resolved directly with the point of purchase and are the sole responsibility of the owner and the point of purchase and not of Archant and are not covered by the warranty.

The warranty does not cover transportation, freight, removal, disposal and re-installation, fabrication or associated costs beyond the cost of the material.



The archant promise

Fast delivery

We can deliver anywhere in New Zealand. All orders* received before 4:00 pm with stock on hand, will be dispatched the same working day.
12:00 pm for stone slab orders

Sample service

We are more than happy to send you product samples. They will be couriered to your door to help make your choice quick and easy.

Money back guarantee

All our products carry a warranty for your peace of mind. If you're not completely satisfied with our products, we guarantee to refund you in full within one year of purchase. Products returned must be in new condition, unopened, unused and in original packaging.

Archant Porcelain Warranty

Florim warrants to the owner of the original installation that its Florim surfacing (the product), when installed in accordance with Florim's current installation procedures shall be free from manufacturing defects for a period of 12 years from the date of completion of installation of the product.

Archant provides a twelve year warranty to the original owners of our Archant Porcelain slabs that the product will be free from manufacturing defects for a period of 12 years from the date of installation.

archant

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Christchurch Showroom: 400 Barbadoes Street, Christchurch Central City, Christchurch

Havelock North Showroom: 5 Havelock Road, Havelock North, Hastings

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