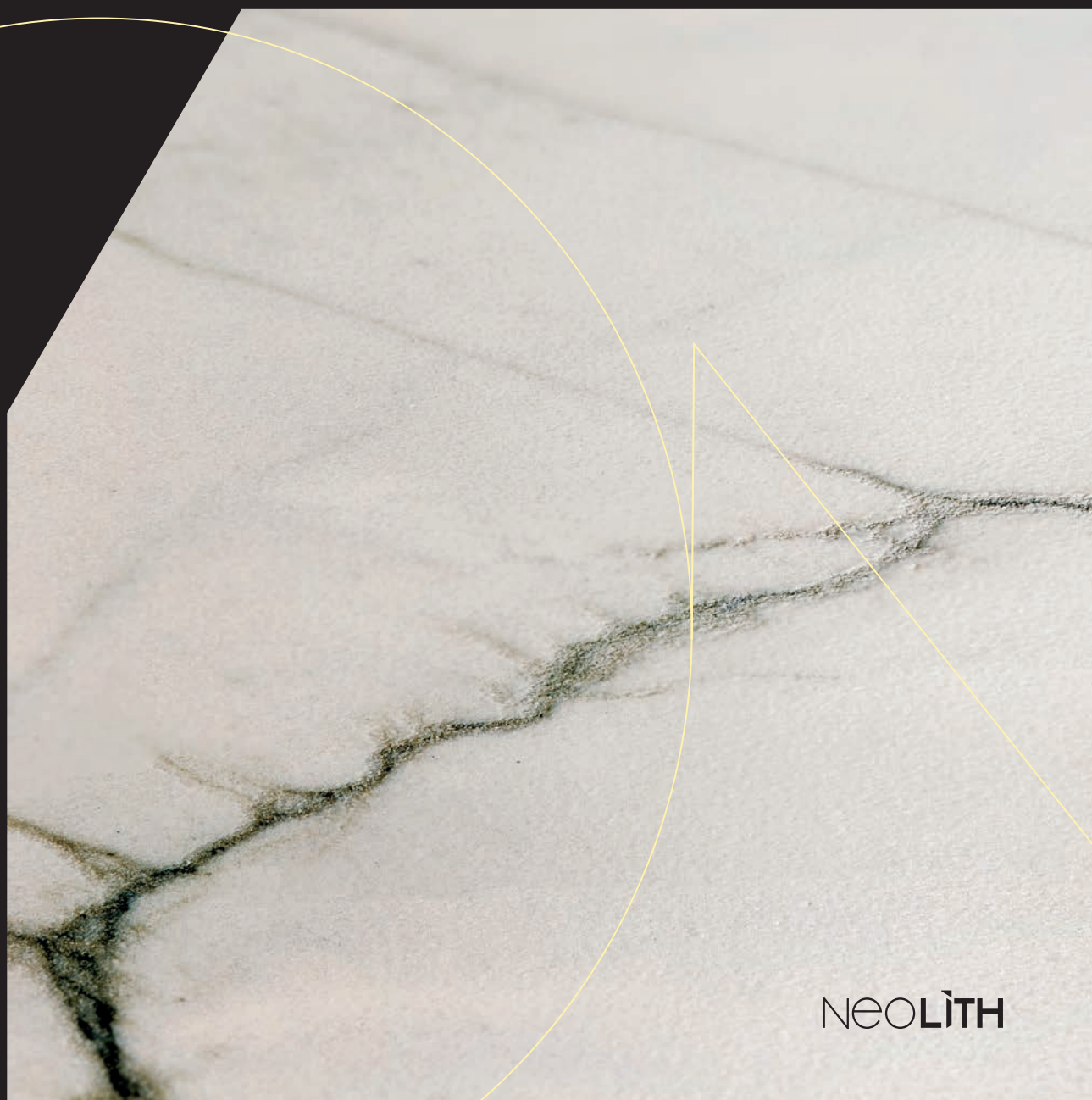


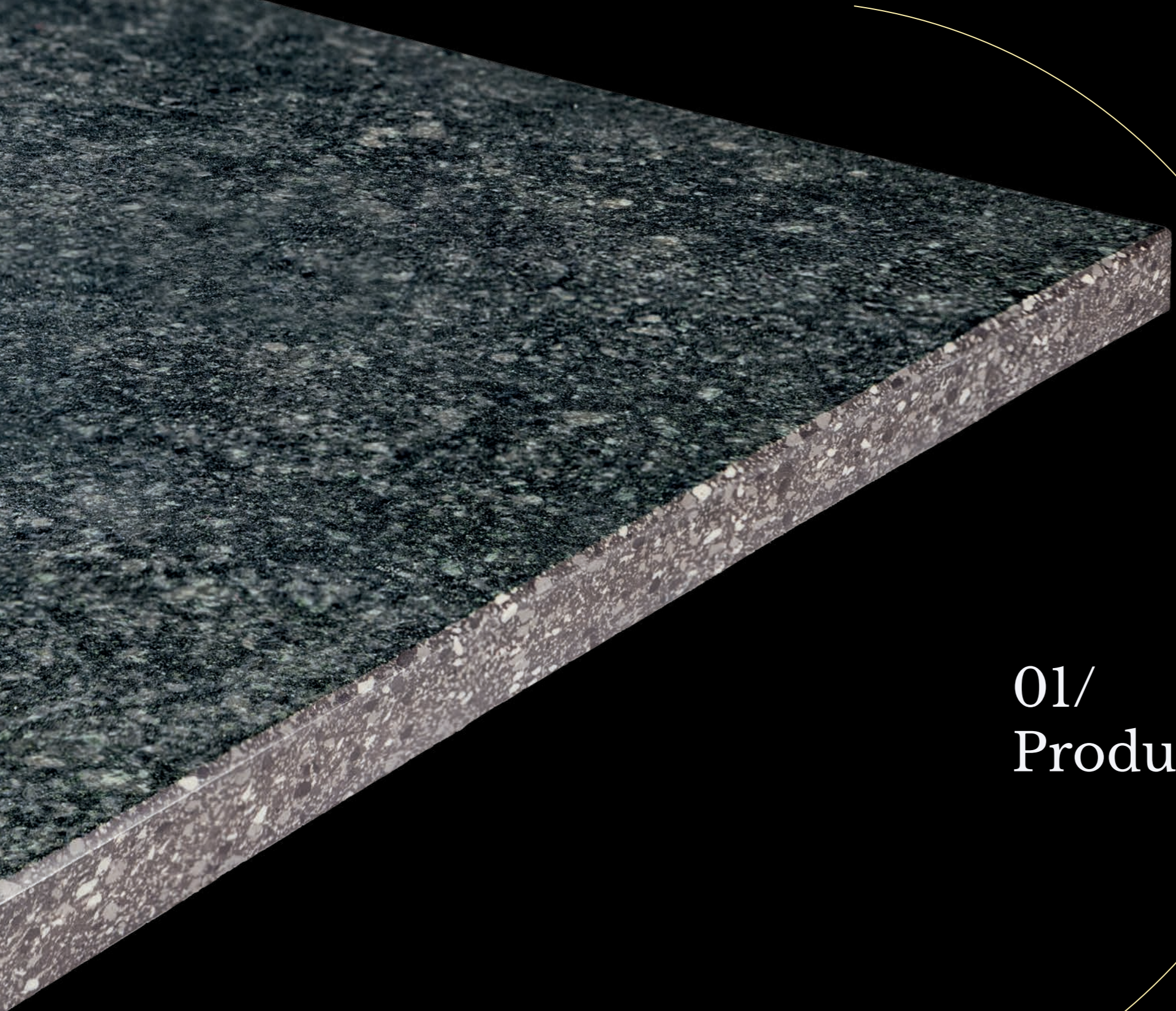
# Technical Manual

KITCHEN COUNTERTOPS



NEOLITH



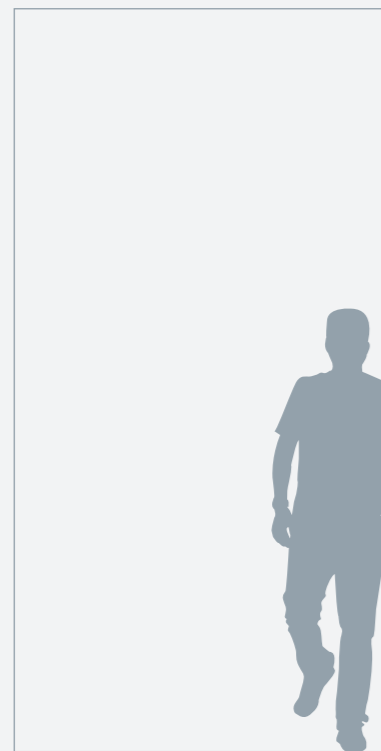


01/  
Product

# 01/ Product

## 1.1 FORMATS

Neolith offers Premium sintered stone surfaces in four different thicknesses. Each one has its own specific range of applications:



**3.200x1.600 mm**  
126"x64"

**12 mm - 1/2"**  
kitchen worktops, bathroom vanities, table tops

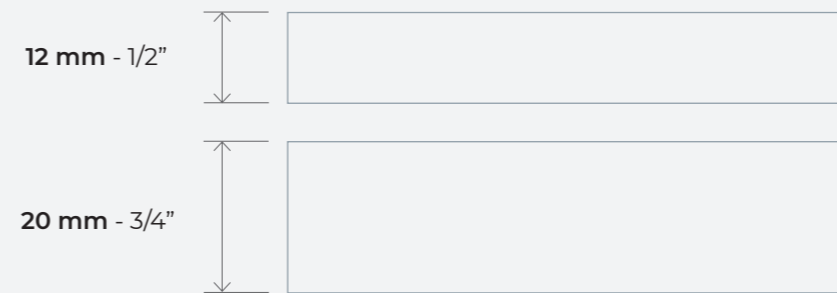
**20 mm - 3/4"**  
kitchen worktops, table tops

The measures above are net measures. Please note that unless it is specified in the order, the slabs will be delivered in gross measure (eg: 3.250x1.550mm instead of 3.200x1.500mm) in order to prevent any type of break in the peaks during transport and logistics affect the usable net measure of the table.

\* This format is only available for projects. Not in permanent stock. Please ask for minimum quantities.

# 01/ Product

## 1.2 THICKNESSES



|                                       | 12 (1/2") | 20 (3/4") |
|---------------------------------------|-----------|-----------|
| Indoor paving                         |           | •         |
| Outdoor natural stone facade          | •         |           |
| Outdoor paving                        |           | •         |
| Ventilated facade with exposed anchor | •         |           |
| Ventilated facade with hidden anchor  | •         |           |
| Countertops                           | •         | •         |
| High-traffic paving                   | •         | •         |
| Furniture                             | •         |           |

### Bending Resistance as per the slab thickness:

| TEST               | STANDARD    | DETERMINATION      | Unit                  | 12 mm | 20 mm  |
|--------------------|-------------|--------------------|-----------------------|-------|--------|
| Weight             | -           | -                  | Kg/m <sup>2</sup> (*) | 28,8  | 48,0   |
| Bending Resistance | ISO 10545-4 | Breaking Force     | N                     | >5000 | >15000 |
|                    |             | Modulus of Rupture | N/mm <sup>2</sup>     | >45   | >45    |

(\*) ±5%

### 1.3 PRODUCT TECHNICAL CHARACTERISTICS

| TEST                     | ASTM                 | Unit                                  | FINISH |         |          |             |
|--------------------------|----------------------|---------------------------------------|--------|---------|----------|-------------|
|                          |                      |                                       | SATIN  | SILK    | POLISHED | RIVERWASHED |
| Moisture expansion       | ASTM C370-12 (2016)  | %                                     | <0,1%  | <0,1%   | <0,1%    | <0,1%       |
| Linear Thermal expansion | ASTM C372-94 (2016)  | (x10 <sup>-6</sup> ) °C <sup>-1</sup> | 5,7    | 5,8     | 5,3      | 6,1         |
| Water absorption         | ASTM C373-16         | %                                     | <0,1%  | <0,1%   | <0,1%    | <0,1%       |
| Crazing resistance       | ASTM C424-93 (2016)  | -                                     | OK     | OK      | OK       | OK          |
| Thermal Shock resistance | ASTM C484-99 (2014)  | -                                     | OK     | OK      | OK       | OK          |
| Chemical resistance      | ASTM C650-04 (2014)  | -                                     | OK     | OK      | OK       | OK          |
| Visible abrasion         | ASTM C1027-09        | Class                                 | *PTR   | Class 3 | Class 5  | *PTR        |
| Deep abrasion            | ASTM C1243-93 (2015) | mm <sup>3</sup>                       | 112    | *PTR    | *PTR     | *PTR        |
| Stain resistance         | ASTM C1378 (2014)    | Class                                 | A      | A       | A        | A           |

| TEST <sup>(1)</sup>                             | STANDARD     | DETERMINATION                             | Units                               | FINISHES            |                      |                              |               |               |
|---|--------------|---|-------------------------------------|---------------------|----------------------|------------------------------|---------------|---------------|
|   |              |   |                                     | Silk <sup>(3)</sup> | Satin <sup>(4)</sup> | Decorpolished <sup>(5)</sup> | Ultrasoft     | Riverwashed   |
| Dimensions and Surface Appearance Determination | ISO 10545-2  | Thickness <sup>(1)</sup>                  | mm                                  | ± 0,5<br>(5%)       | ± 0,5<br>(5%)        | ± 0,5<br>(5%)                | ± 0,5<br>(5%) | ± 0,5<br>(5%) |
|   |              | Slab Width Flatness Tolerance             | mm                                  | ± 2<br>(0,1%)       | ± 2<br>(0,1%)        | ± 2<br>(0,1%)                | ± 2<br>(0,1%) | ± 2<br>(0,1%) |
|   |              | Slab Length Flatness Tolerance            | mm                                  | ± 4<br>(0,1%)       | ± 4<br>(0,1%)        | ± 4<br>(0,1%)                | ± 4<br>(0,1%) | ± 4<br>(0,1%) |
|   |              | Slab Dimensional Tolerance <sup>(2)</sup> | mm                                  | ± 2<br>(0,6%)       | ± 2<br>(0,6%)        | ± 2<br>(0,6%)                | ± 2<br>(0,6%) | ± 2<br>(0,6%) |
| Water Absorption                                | ISO 10545-3  | Boiling Absorption <sup>(1)</sup>         | %                                   | 0,01-0,1            | 0,01-0,1             | 0,01-0,1                     | 0,01-0,1      | 0,01-0,1      |
|   |              | Apparent Density                          | gr/cm <sup>3</sup>                  | 2,4<br>(±5%)        | 2,4<br>(±5%)         | 2,4<br>(±5%)                 | 2,4<br>(±5%)  | 2,4<br>(±5%)  |
| Impact Resistance                               | ISO 10545-5  | Coefficient of Restitution                | -                                   | 0,8                 | 0,8                  | 0,6                          | 0,8           | 0,8           |
| Resistance to Deep Abrasion                     | ISO 10545-6  | Lost Volume                               | mm <sup>3</sup>                     | -                   | 130                  | -                            | -             | -             |
| Resistance to surface Abrasion                  | ISO 10545-7  | Visual Appearance                         | Class                               | PEI IV              | PEI IV               | PEI III                      | PEI III       | PEI IV        |
| Coefficient of Linear Thermal Expansion         | ISO 10545-8  | From 25°C to 100°C                        | 10 <sup>-6</sup> . °C <sup>-1</sup> | 5,7                 | 5,7                  | 5,7                          | 5,7           | 5,7           |
| Thermal Shock Resistance                        | ISO 10545-9  | Damage                                    | -                                   | Not Damaged         | Not Damaged          | Not Damaged                  | Not Damaged   | Not Damaged   |
| Moisture Expansion                              | ISO 10545-10 | Coefficient of Dilatation                 | mm/m                                | < 0,1               | < 0,1                | < 0,1                        | < 0,1         | < 0,1         |
| Frost Resistance                                | ISO 10545-12 | Damage                                    | -                                   | Not Damaged         | Not Damaged          | Not Damaged                  | Not Damaged   | Not Damaged   |
| Chemical Resistance                             | ISO 10545-13 | Cleaning Products                         | Class                               | GA                  | UA                   | GA                           | GA            | GA            |
|   |              | Pool Chemicals                            | Class                               | GA                  | UA                   | GA                           | GA            | GA            |
|   |              | Low Concentrations                        | Class                               | GLA                 | ULA                  | GLB                          | GLA           | GLA           |
|   |              | High Concentrations                       | Class                               | GHA                 | UHA                  | GHB                          | GHA           | GHA           |
| Stain Resistance                                | ISO 10545-14 | Visual Appearance                         | Class                               | 5                   | 5                    | 5                            | 4             | 5             |
| Lead and Cadmium Release                        | ISO 10545-15 | Lead Concentration                        | mg/dm <sup>2</sup>                  | <0,01               | <0,01                | <0,01                        | <0,01         | <0,01         |
|   |              | Cadmium Concentration                     | mg/dm <sup>2</sup>                  | <0,001              | <0,001               | <0,001                       | <0,001        | <0,001        |
| Light Fastness                                  | DIN 51094    | Chromatic Change                          | -                                   | No Change           | No Change            | No Change                    | No Change     | No Change     |

<sup>(1)</sup> Non-mesh slabs  
<sup>(2)</sup> Cut to size format slabs  
<sup>(3)</sup> Slate  
<sup>(4)</sup> Iron, Steel touch  
<sup>(5)</sup> Nanotech  
<sup>(6)</sup> Slippery test according to CE certificate

# 02 Handling and storage

## 02/ Handling and storage

Neolith slabs must be loaded, unloaded and transported by means of a forklift, bridge crane or other hoisting device.

Whenever handling and transporting, the slabs must be balanced taking their center of gravity into account.

The following table summarizes the weight per slab and per square meter:

|                             |    |    |
|-----------------------------|----|----|
| Thicknesses (mm)            | 12 | 20 |
| Weight (kg/m <sup>2</sup> ) | 29 | 48 |

### 2.1 TRANSPORTING WITH A CLAMP

Neolith recommends using the following type of clamp for lifting and moving individual slabs:

Neolith Slab  
handled with  
a clamp



## 2.1 TRANSPORTING WITH A CLAMP

Always pay attention to the movement and handling of the slabs to prevent splintering or breakage.

The additional width of the recommended clamp will prevent the slab from bending during handling to, thus, prevent undesirable breakage.

Contact Neolith for more details.

### RECOMMENDATIONS:

Clamping more than 1 slabs at the same time is not recommended.

Before lifting polished slabs with the clamp, remove the protective plastic.

## 2.2 TRANSPORTING WITH SLINGS

Using canvas slings to move several slabs at the same time is recommended.

Metal slings must not be used to handle Neolith slabs.

This transporting method is not recommended for polished finishing slab

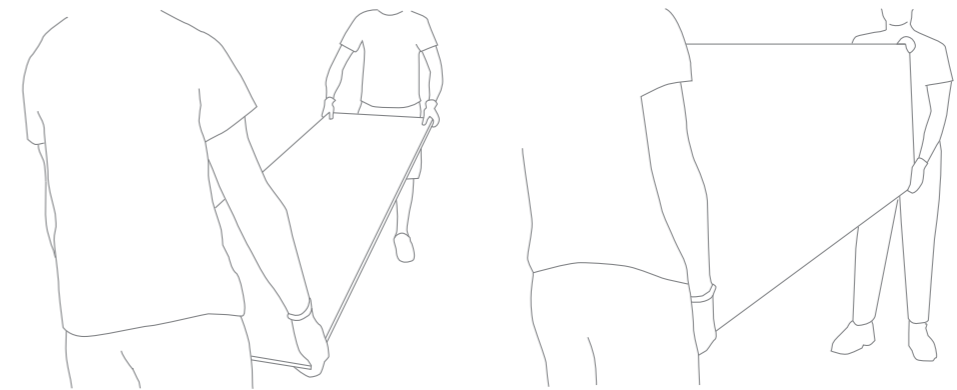
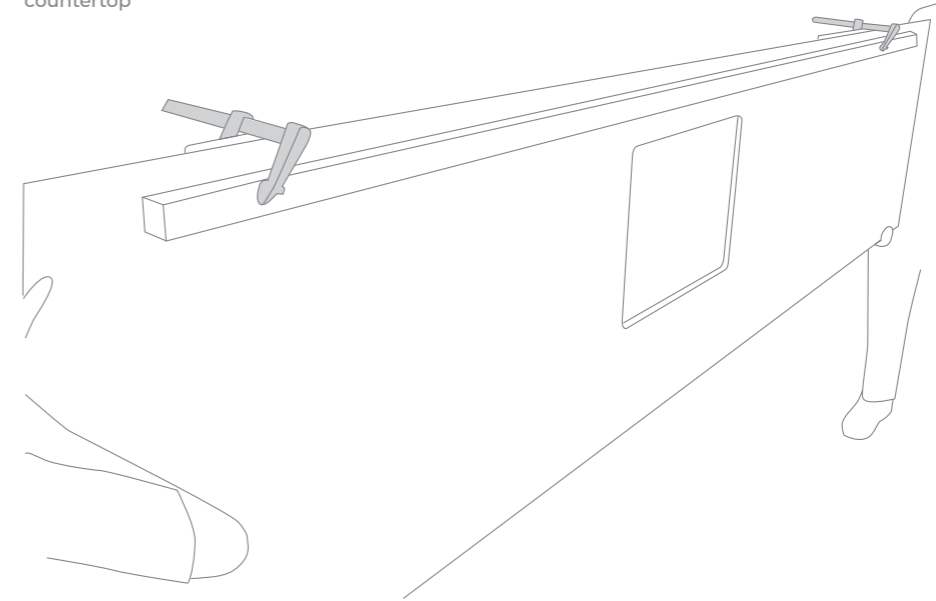


Make sure to cover all metal surfaces that may come into contact with the slab with adhesive foam tape.

## 2.3 MANUALLY TRANSPORTING A NEOLITH SLAB

Follow the handling safety recommendations to avoid material breakage during handling.

Moving a Neolith countertop



Incorrect



Correct

Raising a Neolith countertop onto a bench



Incorrect



Correct

## 2.4 TRANSPORTATION AND STORAGE OF SLABS

When slabs are transported on the A-frame, they shall always be secured with at least two straps of the sling or webbing type.

When it is necessary to remove the strapping from the A-frame or packages, this shall be done immediately prior to the work to be carried out.

Before removing the strapping from the A-frame, the use of one of two restraint systems is mandatory: safety poles (U-type structure) or upper restraints (inverted U-type stops for the upper part of the A-frame or similar) that guarantee that, in the event of slabs coming loose from the A-frame, they do not fall on the workers.

U-type safety retainer.



Upper retainers (inverted U type).



Keep in mind that trestles and slabs have very high weights, therefore, whenever they are going to fall, NEVER try to stop them. Never stand in the line of fire of a falling heavy object.

When transporting with an overhead crane, keep a safe distance from the loads being transported, foreseeing that the A-frame or slabs themselves may fall.

If loads must be guided, use ropes or similar.

In A-frame storage areas, aisles 1 meter wide should be left between the rows of A-frame.

Broken parts can have very sharp edges. Whenever handling or processing a slab, wear gloves and cut-resistant sleeves, as well as protective goggles.

Neolith recommends storing slabs using either A-frames or storage racks. Its further recommended to secure stored slabs with ratchet straps when storing slabs on A-frames.

Place the slabs length-wise on sufficiently protected beams to prevent the slabs from splintering.

When using A-frames to support Neolith, 3mm and 6mm slabs need at least three support points, distributed evenly along the back of the slab; a full support is recommended - an unused granite or marble slab with sufficient width, for example.

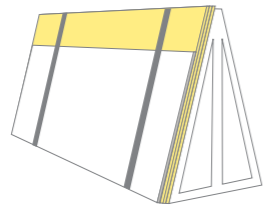
**Avoid positioning large slabs against smaller slabs:**

Storage of Neolith slabs in the shop

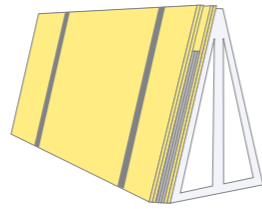




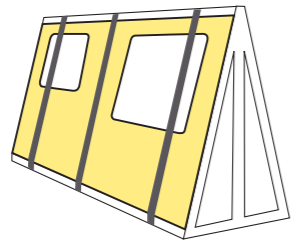
The supports must be able to hold the entire surface of the part during transport. Supports that are too small may cause the part to break:



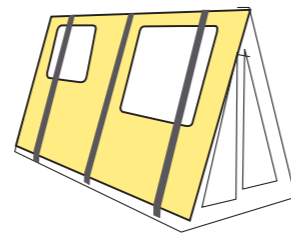
Correct



Incorrect



Correct



Incorrect

Regardless of the storage method, we advise not setting other materials on top of Neolith slabs, especially on polished finishes. If it is necessary to place something on the slab, separate the materials with appropriate spacers

## 2.5 TRANSPORT BY ROAD

When transporting Neolith slabs/pieces, ensure the material is fully supported and secured using straps/belts to prevent damage during transport. Ensure the weight of the load is evenly distributed during the loading and transport of the material.

For more information, please see  
[Neolith Transport&Storage Manual](#)

# 03 Inspection



## 03/ Inspection

Neolith recommends deep-cleaning the slab and doing a meticulous visual inspection to check whether the slab complies with the quality requirements. Check for the following when carrying out the visual inspection.

- Fissures/Cracks
- Stains
- Slab to slab colour/tonality match
- Thickness
- Shine variations
- Flatness/Warpage
- Surface contamination
- Pinholes or blisters
- Imperfections

This should be the first step prior to starting production. Doing the inspection in a well lit area to identify possible imperfections not seen when flat is recommended.

\*No claims will be accepted for installed or manufactured material when defects were already present upon delivery of the material. Stone masons are responsible for determining whether the slabs are adequate for use. If it is determined that the material is not of suitable quality, they should be exchanged before the slabs are cut or modified in any way.

### 3.1 SLAB CHARACTERISTICS

#### 3.1.1 Flatness/Warpage

To check the flatness of a slab, it should be positioned horizontally on a completely flat base. The flatness is measured by placing an aluminum rod or similar object on the surface of the slab, covering the entire width or length of the slab.

Determining warpage or flatness of an upright/vertical slab is not recommended.

Image 9: Set-up for correct measurement of the warp.



MAXIMUM TOLERANCE IN THE SLAB WIDTH: 2 mm  
MAXIMUM TOLERANCE IN THE SLAB LENGTH: 4 mm

### 3.1.2 Tone

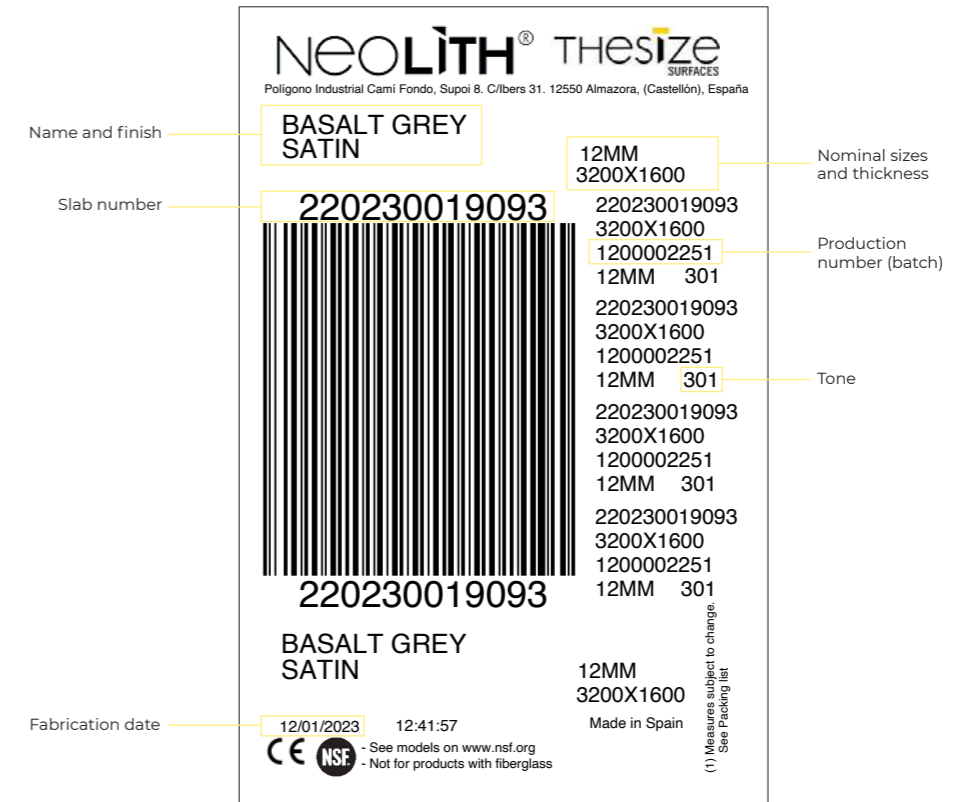
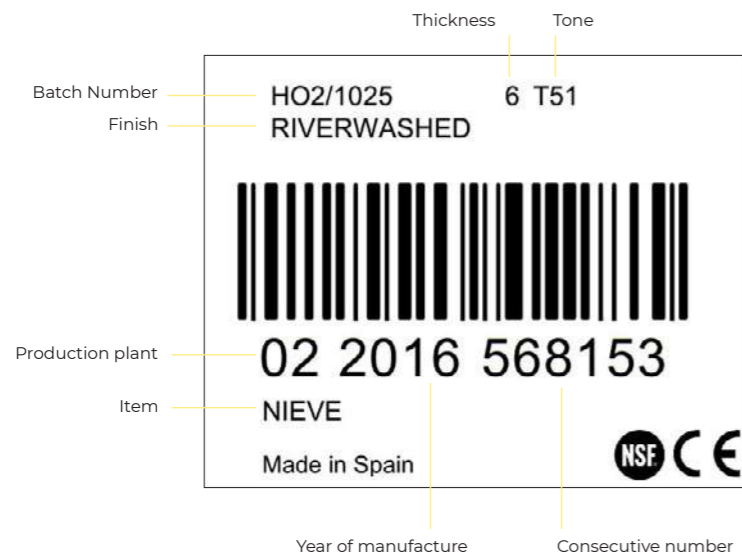
Neolith is constantly working so the tone of the current batches match the tone of previous batches. Despite our efforts, slight variations in tone may occur between different batches of the same model due to the use of natural raw materials.

Deviations in tone are more noticeable among the various thicknesses of a single model given the way in which each thickness is produced.

Before cutting, visually inspect the slabs to ensure the tone of the different slabs is acceptable. Do this inspection under lighting conditions that are similar to what would be found at the place of installation. We recommend not combining slabs from different batches.

### 3.2 SLAB IDENTIFICATION

Each slab has a label with important information related to each slab. The labels must be recorded for future reference.



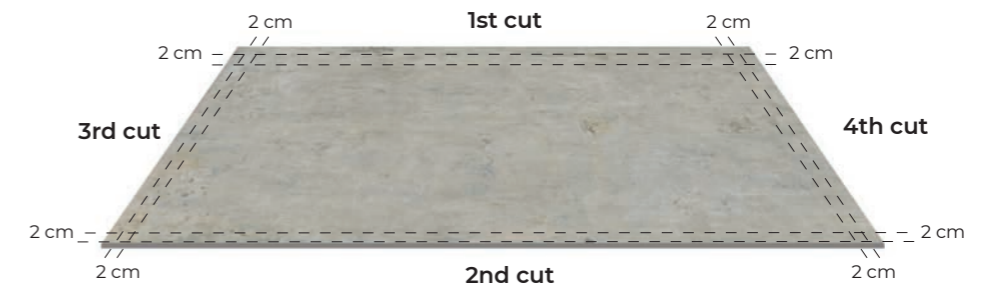
# 04 Pre-fabrication



## 04/ Pre-fabrication

Before cutting for production on a 12 mm or 20 mm slab, it is important to remove 2 cm off from each side of the slab to remove internal tension of the slab. The cutting order must follow the below sequence:

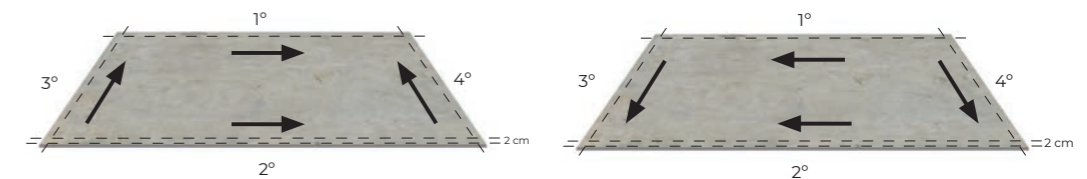
Check that the bench is straight, level and free of any debris. Check that there is enough support for the slab.



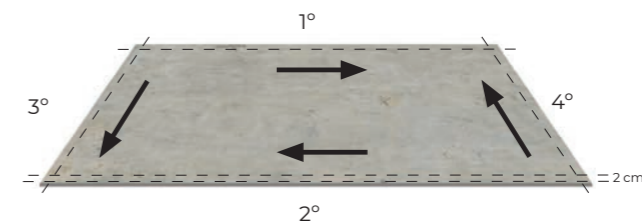
Both the 1st and 2nd cut as well as the 3rd and 4th cut must go in the same direction:



Correct



Incorrect



When cutting 12 mm or 20 mm slabs with a disc, it is important to reduce the speed to half at the beginning and end of the cutting process.



These recommendations only apply to 12 mm and 20 mm slabs. Any other thickness can be cut without having to take these steps into account.

#### 4.1 PARAMETERS FOR THE ULTRA-COMPACT NEOLITH DISC

| THICKNESS  | STRAIGHT CUT SPEED (M/MIN) | 45° ANGLE SPEED (M/MIN) | Ø DISC (MM) | RPM         | SURFACE SPEED (M/S) |
|------------|----------------------------|-------------------------|-------------|-------------|---------------------|
| 6mm /6+    | 3,0                        | 1,5                     | 350         | 2300 - 2500 | 35 - 40             |
| 12 mm /12+ | 1,5                        | 0,7                     | 400         | 2000 - 2150 |                     |
| 20 mm      | 1,0                        | 0,5                     |             |             |                     |

Table 3: Disc parameters.

Please refer to your blade manufacturer`s recommended cutting speed

#### 4.2 WATERJET PARAMETERS

| THICKNESS | SPEED (M/MIN) | PRESSURE (BARS) | ABRASIVE FLOW RATE (KG/MIN) |
|-----------|---------------|-----------------|-----------------------------|
| 6mm /6+   | 2             | 3500-3700       | 0,4                         |
| 12 mm     | 1             |                 |                             |
| 20 mm     | 0,7           |                 |                             |

Table 4: Waterjet parameters.

The values indicated are suggestions. The cutting speeds and abrasive flow rates can be adjusted for a cleaner finish.

#### 4.3 PARAMETERS FOR CNC TOOLS.

| TOOL                           | RPM         | SPEED (MM/MIN) |
|--------------------------------|-------------|----------------|
| Crown/Core/Drill bit           | 4500 - 5500 | 10             |
| Cutting/Finger bit             | 12 mm       | 4500 - 5500    |
|                                | 20 mm       | 4500 - 5500    |
| Milling/Incremental/Router bit | 8000- 10000 | 250            |

Table 5: CNC parameters.

# 05 Cutting recommendations



## 05/ Cutting recommendations

### 5.1 BRIDGE SAW OR SIMILAR

Prior to starting

Check that the bench is straight, level and free of any debris. Please ensure the bed is fully supporting the slab.

While cutting, it's important to use the maximum water flow to cool the disc. Be sure the water flow is aimed at the cutting area.

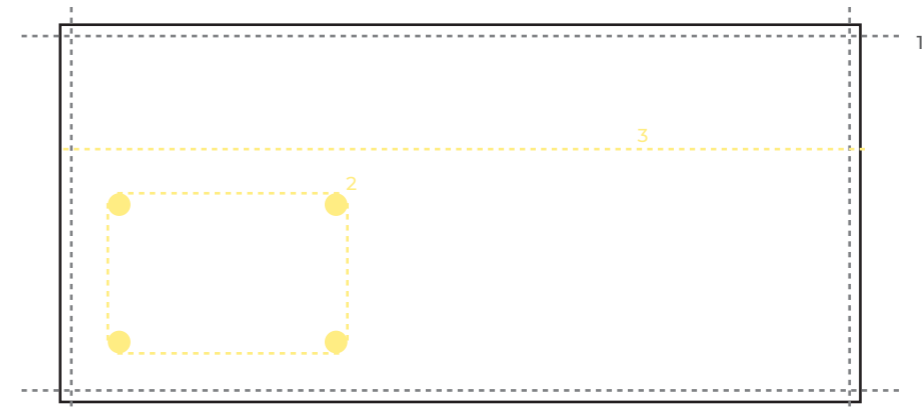


Correct



Incorrect

CUTTING SEQUENCE:



Steps:

1. Perimeter cut, minimum 2 cm. (only for 12 mm and 20 mm). Please check PRE-FABRICATION section in this manual.
2. To avoid any potential damage it's important to pre-drill inner corners when preparing cut-outs. All inner corners must have a minimum radius of at least 5 mm.
3. Proceed with the remaining cuts

**RECOMMENDATIONS:**

Make sure the disc rotation coincides with the cutting direction.

Allow the blade to pass through the material at least 1.5mm to ensure a clean cut.

The last pre-fabrication perimeter cut can be used as one of the countertop edges in order to reduce waste.

In the exceptional case that the disc is required to be lowered directly onto the slab, this should be done in automatic mode at the slowest possible speed.

Please check all machine and tooling condition prior to cutting.

Cutting 45° angles in Neolith requires a slower cutting speed. It also helps to use a piece of similar material at the start and finish of the cut to keep the disc aligned.

When using a new disc, do a few cuts so the disc segments can adapt and the diamonds open.

It is recommended to periodically sharpen the blade to open up the diamonds.

No squared inner corner means:

No "L"-shaped countertop with 45° angled edges.

No squared cutout.

No inner 45° angled edge for the sink.

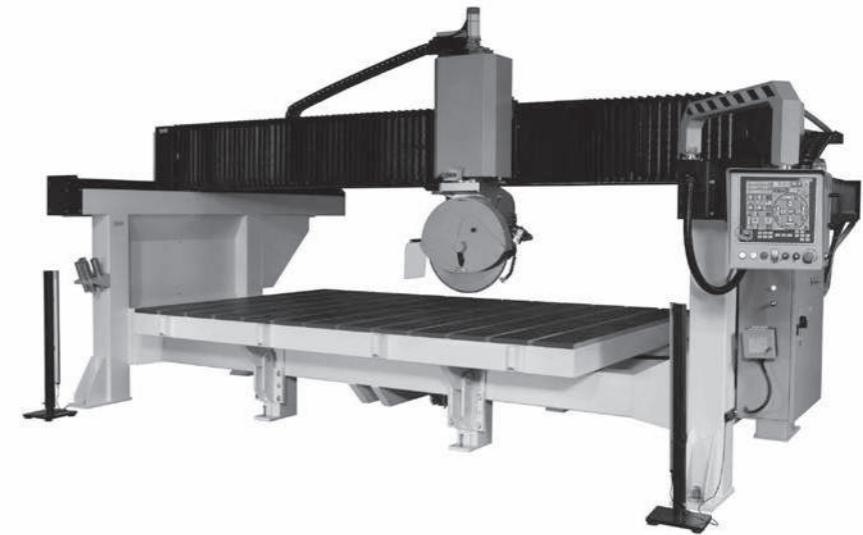
**Absolutely NO 90° CORNER.**

**The clearest models (Arctic White, Estuario, Calacatta) are harder for tools given the specific raw materials used.**

**Neolith recommends lowering the cutting speeds to 75% for these models to prevent the disc from overheating**

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Bridge disc



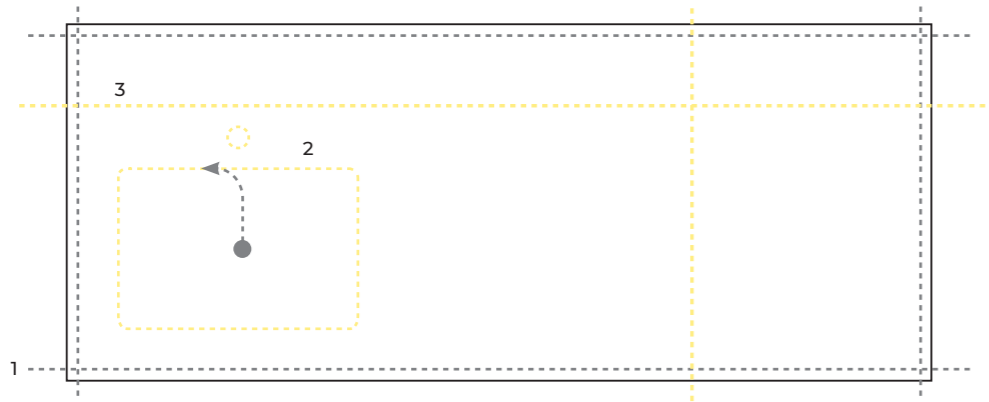
## 5.2 WATERJET

Before beginning:

No special entry speed needed when WJ cutting. PRESSURE (3.500 bars) RECOMMENDED.

Check that the bench is straight, level and free of any debris. Check that there is enough support for the slab.

If using the waterjet to remove the 2cm (3/4") perimeters from 12mm (1/2") and 20mm (3/4") THICKNESS slabs, the cut should begin and RUN off the slab.



### STEPS:

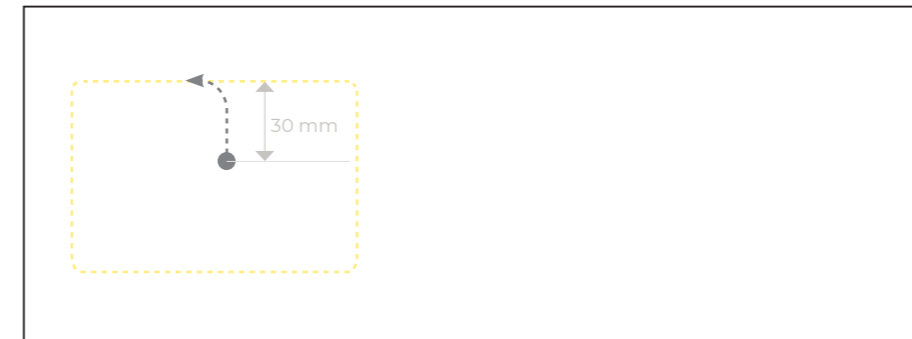
- 1 Perimeter cut, minimum 2 cm. (only for 12 mm and 20 mm)
- 2 Preparing the cutouts.  
All inner corners require a minimum radius of 5 mm.
- 3 Cutting.

We recommend radiuses of more than 5 mm when the kitchen design allows as it will make the countertop firmer.

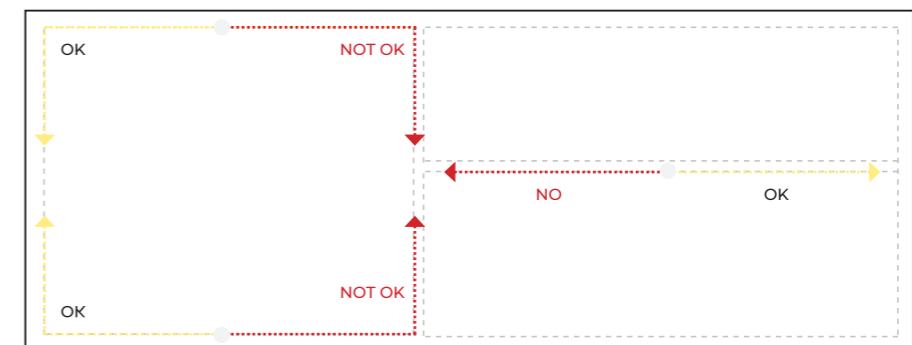
Remember that the perimeter cut of the slab to release stress may be used as a final cut for the part to be made.

Lower pressure is recommended for drilling holes.

To begin the cutouts, firstly start at an internal point and then move closer to the cutting out position. It should always be a minimum distance from the initial point to the cut edge. Approach to the " AND "As you get closer to the cutting line, curve the cut to get a parallel approach, do not use a perpendicular approach as this could create a notch.



To do large cutouts or large parts, you must remember the following cutting sequence:



First cutting towards the edge of the slab from the hole or in parallel to the edge of the slab and following this direction to finish the part is recommended.  
Making the first cut towards the center of the slab is not recommended.

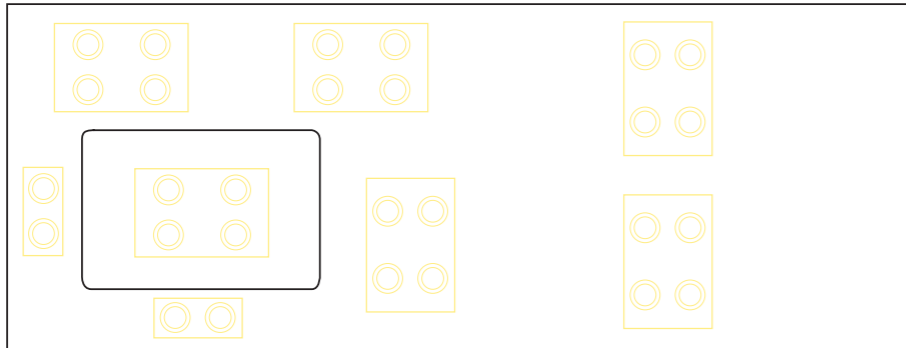


### 5.3 CNC

Before starting:

Check that the bench is straight and level and that the suction cups are free of any debris. Check that there is enough support for the slab.

Make sure there are suction cups below the entire slab, especially below the part to be cut.



Use plenty of water to cool the tool during production in the inside and outside of the tool.

STEPS:

1. **Perimeter cut**, minimum 2 cm (only for 12 mm and 20 mm). This step is usually done beforehand on a machine other than the CNC machine.
2. **Drilling** with a crown bit.
3. Preparing the **cutouts**. All inner corners require a minimum bit of 5 mm.

We recommend bits larger than 5 mm when the kitchen design allows, as it will make the countertop firmer

If using CNC to remove the 2cm (3/4") perimeters from 12mm (1/2") and 20mm (3/4") THICKNESS slabs, the cut should begin and RUN off the slab.



First drill a hole inside the cutout, using the crown bit. Afterwards, use the router bit to get closer to the cutting line.

As you get closer to the cutting line, curve a bit; do not use a perpendicular approach as this could create a notch.

At the end of the cut, reduce the speed to 50% as you complete the cutout.

#### Tips for CNC cutting

##### Crown bit:

Drill the slab with the lowest downward speed possible, especially at the end of drilling. Before completing the drilling, raise the crown a bit to remove the pressure from the inside of the crown.

##### Router bit:

Always begin from a hole previously made with a crown bit.

**Never lower the router bit directly onto the surface.**

The first two PASSES, eliminate only 0.5 mm; then 2 mm per pass.

Removing more than 6 mm on a 12 mm slab or 10 mm on a 20 mm slab is not recommended.

##### Cutting bit:

Do not use the oscillation option during cutting; this could cause splintering.

The clearest models are harder for tools given the specific raw materials used;

Neolith recommends lowering cutting speeds for these models to prevent tool overheating.

Not special tool needed to perform edges polishing. It can be done using the same tool as the rest of the cuts.

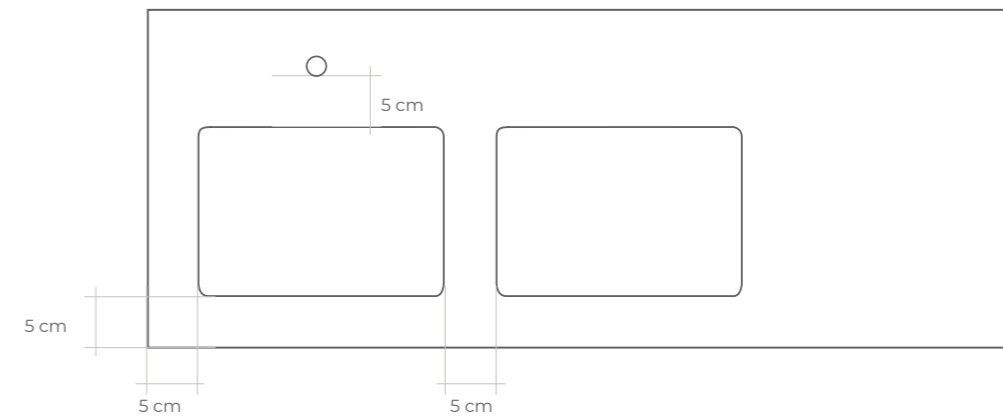
# 06 Design and fabrication

## 06/ Design and fabrication

### 6.1 CUTOUT DESIGN GUIDELINES

The minimum distance between a cutout and the edge of the slab must be at least 5 cm.

Neolith recommends distances greater than 5 cm when the kitchen design allows as it makes the countertop stronger.



#### IMPORTANT

All cutout corners must have a minimum radius of 5 mm. Never leave 90° angles. We recommend radiuses of more than 5 mm when the kitchen design allows as it will make the countertop firmer.



Correct



Incorrect



The correct way to create a cutout, except with waterjet and CNC, is to first drill the corners and then the rest of the cuts.



Guidelines for cutouts:

- Two straight cuts must never be joined.
- No squared inner corners.
- All inner corners must have a minimum radius of 5 mm.

The bottom and top edges of the cutouts are often a bit sharp or irregular; therefore BEVELLING them with diamond or abrasive sanders is recommended

Polishing the edges of the cutout is recommended to eliminate any micro-fissures created when cutting. The more intense this PROCESS is, the less risk there will be in the future.

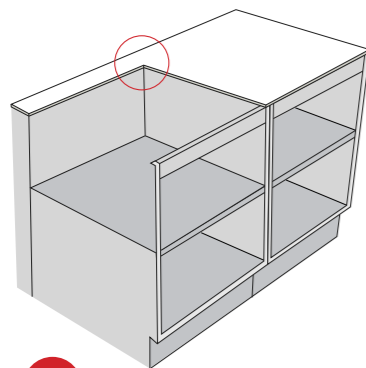


Incorrect

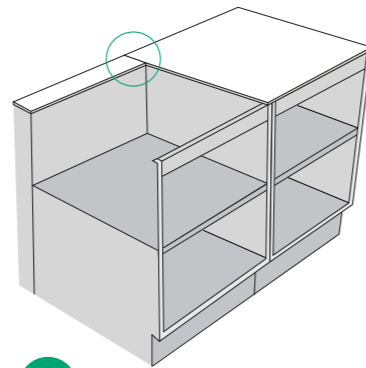


Correct

If the countertop design so allows, avoid Neolith countertops with unbalanced weights:



Incorrect

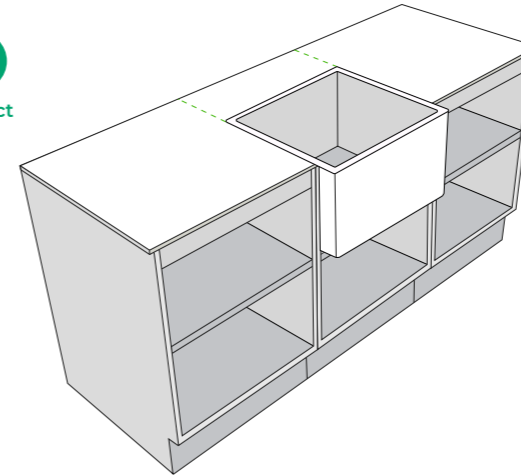


Correct

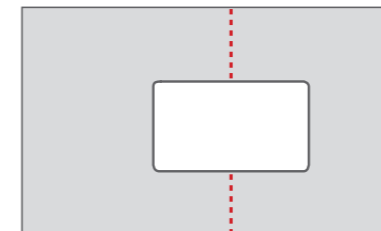
Irregular cuts are also not recommended such as for a "butler sink"; in these cases, add joints to the countertop design:



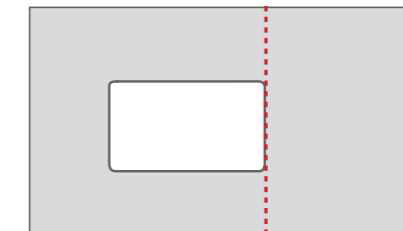
Correct



Other types of designs to be avoided:



Incorrect



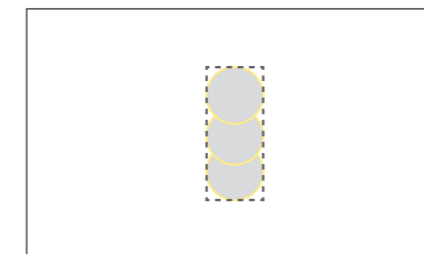
Incorrect

Sockets and switches:

Gaps made to insert accessories (sockets, switches, etc.) should be done using circular drills; they may overlap.



Correct



## 6.2 COUNTERTOP REINFORCEMENT

### Countertops with 45° edges:

Reinforcements for 45° edges must be made with Neolith strips or dense granite; be careful when using other materials for reinforcement. The difference in the thermal expansion can cause the countertop to curve or the 45° edges may open over time.

NEVER USE QUARTZ REINFORCEMENT.



NEOLITH is not an structural material. It is important to ensure the substructure is strong enough to withstand all possible loads and stresses.

Additional reinforcements should be used at all times when cabinetry supports distance is greater than 60cm.

These reinforcements must be distributed under all mitred edges, sufficiently glued to both parts of it, and also assuring a full contact with the furniture.

Please contact your glue supplier to choose a proper adhesive to ensure a strong bonding between the reinforcement and neolith slabs.

As a general rule, when using Neolith as reinforcement material, polyester glues are not recommended, otherwise acrylic and epoxi resin glues usually have better performance.

Please check Adhesive (8) section of this manual.

Moreover, it is important to reinforce the perimeter of the cutouts for greater strength and firmness in the area:



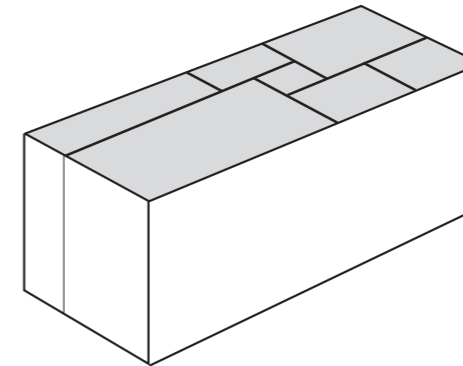
Reinforcements with expanded Polyurethane



NEVER USE ENGINEERED QUARTZ AS REINFORCEMENT FOR NEOLITH COUNTERTOPS

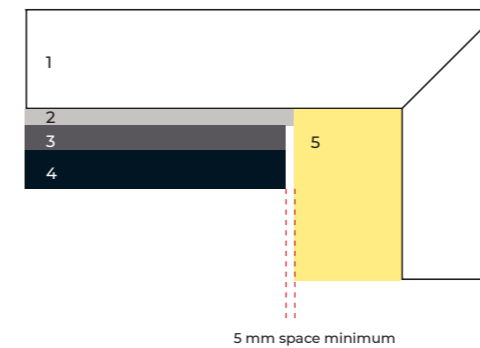
### Countertops with a straight edge:

For straight edge countertops, it must be ensured a full support of the whole countertop, properly levelled and avoiding gaps between furniture and the countertop

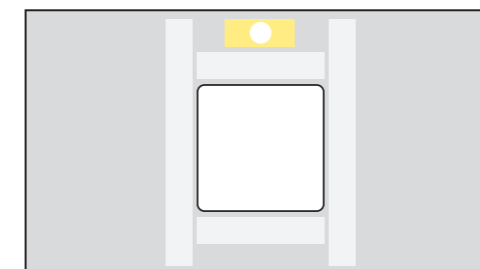


### Countertops with 45° edges:

“The difference in the thermal expansion RATE can cause the countertop to BEND or the 45° JOINTS may open over time.”



- 1 Neolith
- 2 Adhesive
- 3 Cabinets
- 4 Brick / stone / concrete base
- 5 Neolith or dense granite reinforcement



### 6.3 DRAINING RACKS

With a Neolith countertop, the only solution is creating sloped channels and combining them with an undermount sink.

The following considerations must be observed if drainer grooves are required:

- This part of the countertop will require additional cross-reinforcement with a solid top panel (18mm thick) or vertical rail (18mm x 45mm)
- The maximum depth of the channels is 3 mm for 12 mm thicknesses and 5 mm for 20 mm thicknesses.
- The minimum distance between channels should be 1 cm.
- NANOTOP by LITHOFIN or a similar product should be used to seal the grooves.

#### Manufacturing

##### Recess

Use a router bit and always begin at the sink gap. Never lower the router bit directly onto the surface.

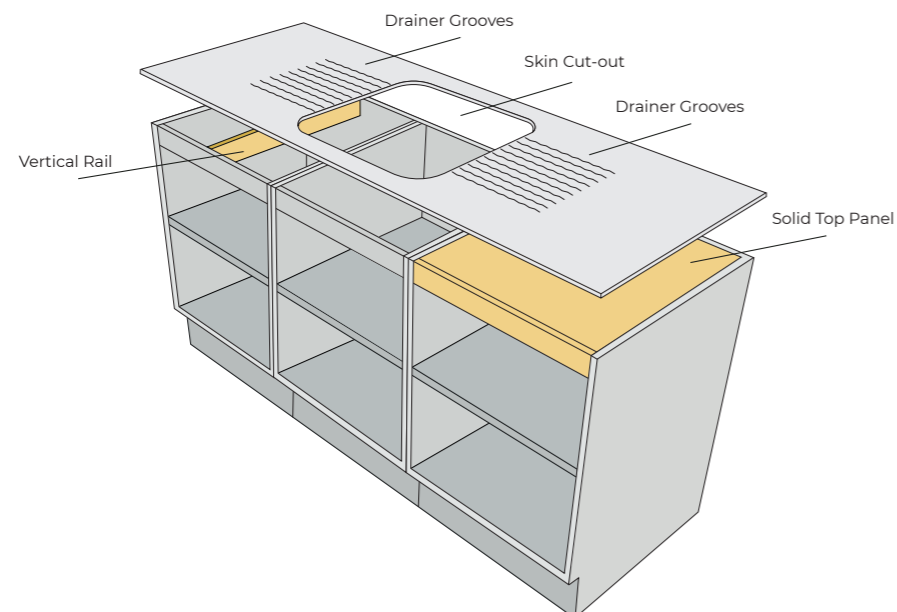
The first two times, eliminate only 0.5 mm; then a maximum of 2 mm per pass.

##### Finish

Sand the grooves by hand to remove any marks made by the router bit. Use fine sandpaper until all marks have been removed.

Round the upper edges of the grooves and seal using NANOTOP by LITHOFIN or a similar product. In case a fully milled out draining board is required the entire area should be supported by a solid top panel.

Please consider that with drainer grooves, the base colour of the material will be visible. In some cases, this will contrast with the colour of the surface.



### 6.4 SINKS

#### Flush sinks

Neolith only recommends the installation of flush sinks in 12 mm and 20 mm.

To perform the edge profile please check section no. 5.3 CNC

Removing more than 6 mm on a 12 mm slab or 10 mm on a 20 mm slab is not recommended.

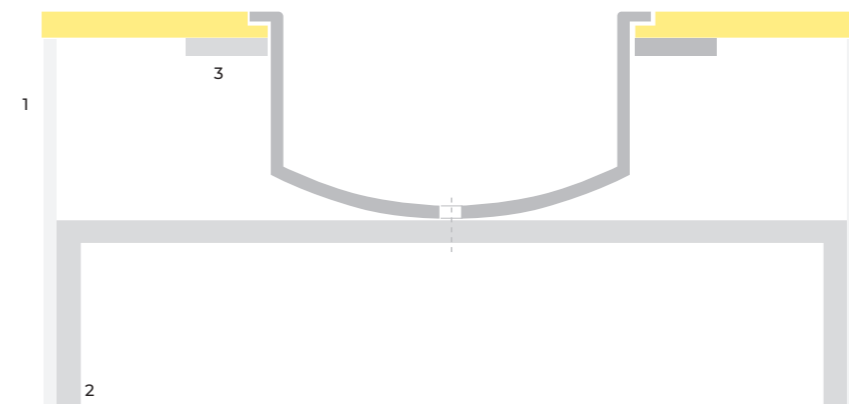


#### Undermount sinks

To reduce the risk of splintering to a minimum, a round edge with a radius of at least 2 mm is recommended.



For large-size sinks, place a rod support structure under the sink so the weight is on the rods and not the countertop.



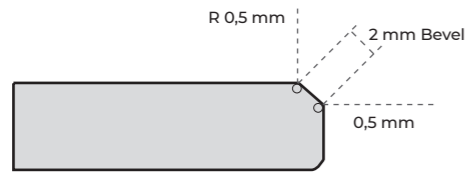
1. Furniture
2. Support rod
3. Reinforcement

Please check Adhesive (8) section of this manual

## 6.5 EDGES AND JOINTS

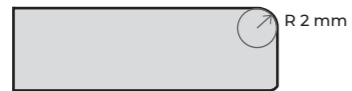
### Edges

Neolith recommends the following minimum edge profile details to ensure increased edge performance. It is the perfect compromise between esthetics and functionality. To perform the edge profile please check section no. 5.3 CNC



The edge is formed by a 2 mm bevel and by two rounded edges with a radius of 0.5 mm. The radius is barely visible but increases the edge impact resistance.

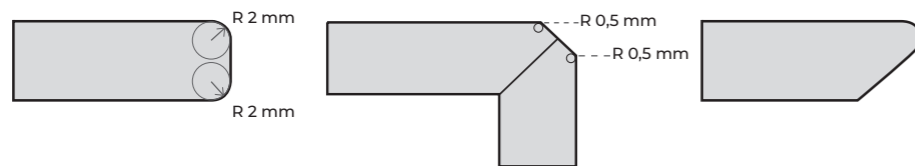
In high impact risk areas (sinks and dishwashers, for example), the edges could be as follows:



The greater the radius, the better it will bear any impacts. Please consider that the greater the bevel, the more base colour is exposed"

The edges can be wet or dry polished using standard granite or marble polishing tools.

Recommended edges for Neolith:



Round edge, R 2 mm

45° edge with a bevel, 2 mm

Reverse bevel/shark nose



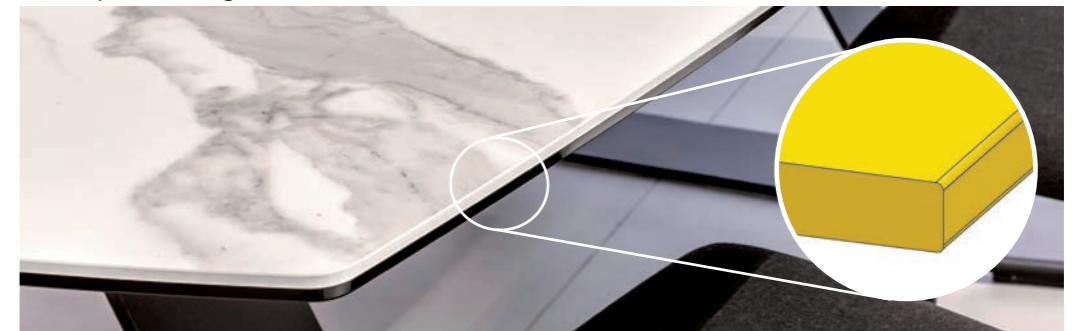
#### IMPORTANT

Neolith recommends treating polished edges with a water repellent sealant to further enhance edge performance.

45° edge with a bevel 12 or 20 mm



Round polished edge

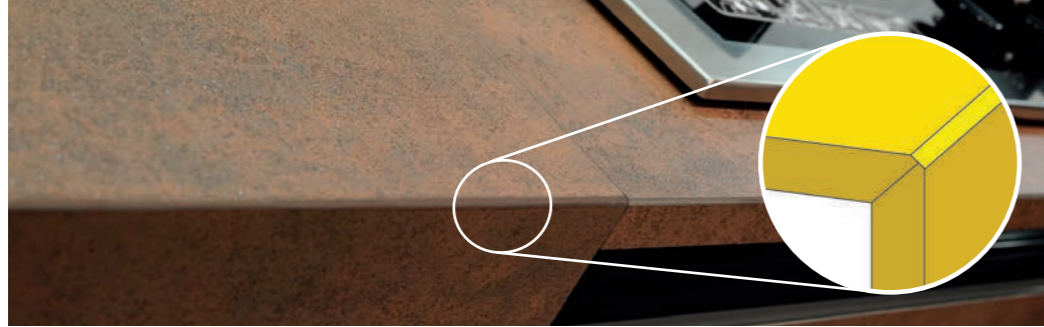


Reverse bevel/shark nose



## Types of Edges

Straight mitred joint



Overhang butt edge



Butt edge



## Joints

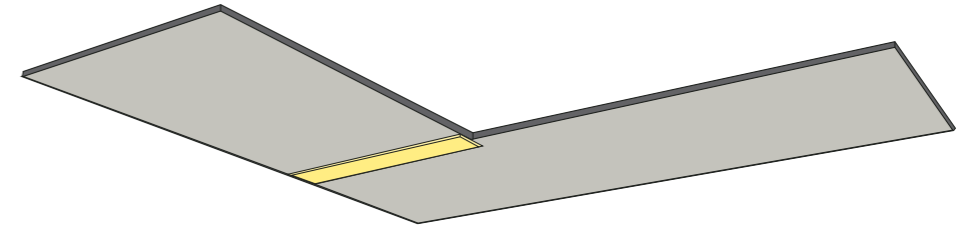
Given the texture of Neolith slabs, a micro-bevel for all joints is recommended. Even if the straight edges are perfect, they may be uneven due to the texture of Neolith slabs.



All joints must be sufficiently supported, either by an additional reinforcement underneath or support of the cabinetry. The support must run the full length of the joint.

Please check Adhesive (8) section of this manual.

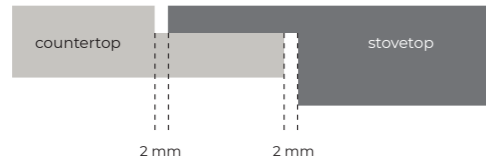
Please note that any alteration of the factory finished surface cannot be rectified.



Additional support using a strip of Neolith underneath the joint

### 6.6 GLASS-CERAMIC / INDUCTION STOVETOPS

The minimum distance between the countertop and a stovetop must be 2 mm.



Use the right heat-resistant silicone or the gasket(s) supplied by the stovetop manufacturer.

Removing more than 6 mm on a 12 mm slab or 10 mm on a 20 mm slab is not recommended.

### 6.7 COUNTERTOP INSTALLATION

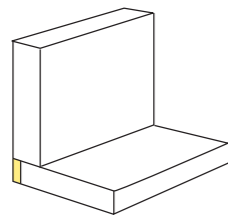
#### Furniture:

Furniture must be in perfect condition and level before installing the countertop. Cabinets must be secured to each other and then secured to the wall.



#### Expansion joints:

Given the irregularities found in walls and floors and possible structural movements in the building, leaving a 3 mm perimeter expansion gap between the countertop and walls is recommended. To allow for expansion on vertical panels or waterfall legs, a 3mm space between the vertical panel/ waterfall leg and floor is recommended. All gaps/joints should be sealed with a flexible sealant.



Please check Adhesive (8) section of this manual

The use of rigid adhesives such as “Liquid Nails” and epoxies is not recommended.

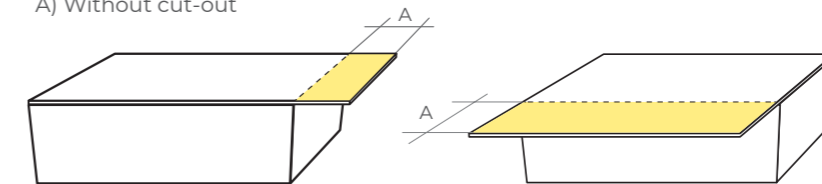
### 6.8 OVERHANG

Please consider the below recommendations regarding maximum dimensions of unsupported overhangs when designing countertops.

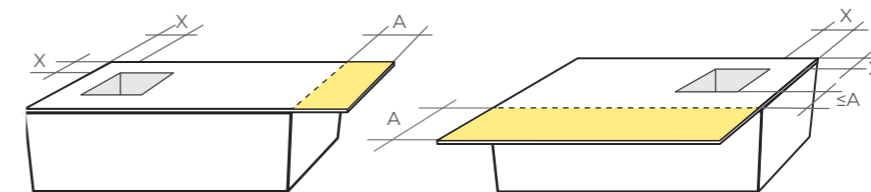
For high use and higher load areas, please reduce the maximum allowed dimensions for unsupported overhangs. Please contact Neolith technical department for assistance

#### 1. Full side overhang

##### A) Without cut-out

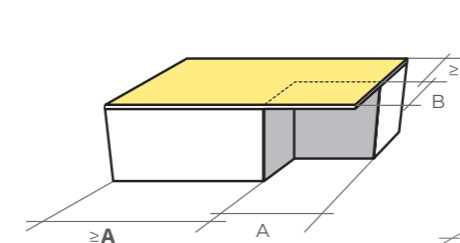


##### B) With cut-out

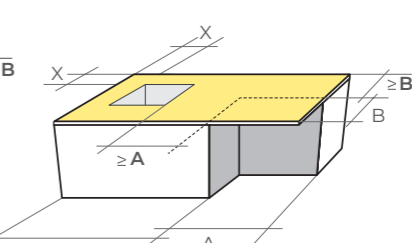


#### 2. Partial overhang

##### A) Without cut-out



##### B) With cut-out

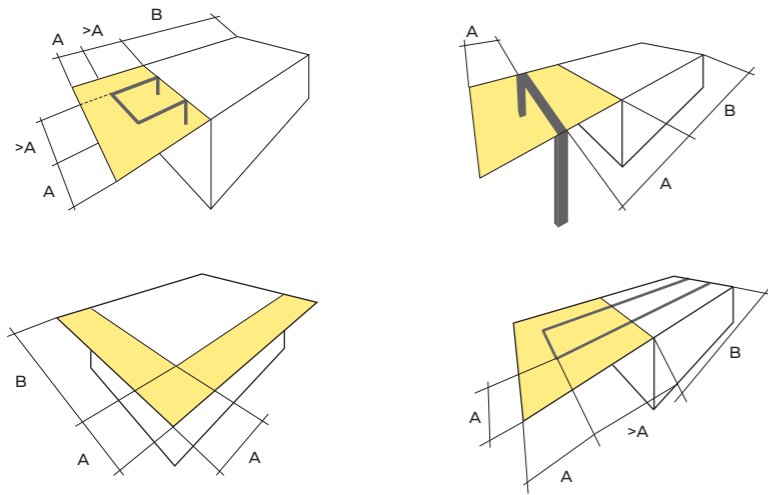


Please bear in mind that overhangs are not structural elements designed for high loads.

| Thicknesses |             |
|-------------|-------------|
| 12 mm       | 20 mm       |
| A ≤ 350 mm  | A ≤ 500 mm  |
| X ≥ 100 mm  | X ≥ 100 mm  |
| A ≤ 500 mm  | A ≤ 1000 mm |
| B ≤ 200 mm  | B ≤ 400 mm  |
| X ≥ 100 mm  | X ≥ 100 mm  |



More examples of countertops with overhangs



### 6.9 OUTDOOR COUNTERTOPS

Neolith recommends the use of exterior grade adhesives for outdoor applications/installations.

If there is no such substructure/support available, covering the top of the existing structure with reinforced cement panels is recommended.

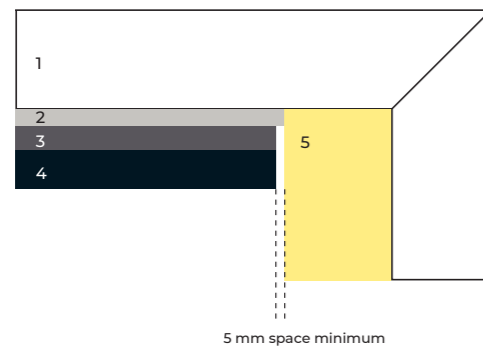
When installing outside, avoid the use of wood or agglomerate planks due to their tendency to expand and contract as the weather changes.

Using flexible adhesives such as liquid nails, silicon or similar to secure an exterior Neolith countertop is not recommended.

Please check Adhesive (8) section of this manual



To glue the 45° angles, it is recommended to use an adhesive that is suitable for outdoor use and resistant to UV rays



- 1 Neolith Slab.
- 2 Selected adhesive
- 3 Reinforced cement plank such as Kerdi-Board or similar.
- 4 Brick / stone / concrete base
- 5 Neolith or dense granite reinforcement

### HOW TO APPLY ADHESIVE

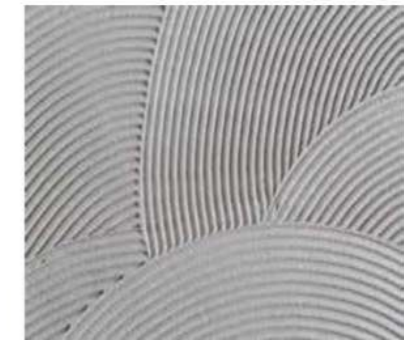
It is recommended to follow these steps to guarantee a proper adhesion between Neolith slabs and support material.



1. Spread the adhesive over the substrate using a minimum 10mm toothed trowel.
2. The toothed trowel that will be used to extend the adhesive on the back of the slab must have smaller teeth (square teeth of at least 3-4mm), in order to achieve a 100% adhesive surface coverage. Spread the adhesive on the back of the NeoLITH panels using a minimum 6mm toothed trowel.



Correct



Incorrect

3. The adhesive must be applied in straight grooves, avoiding fan shapes, curved or similar patterns. The adhesive should be applied parallel to the shortest side of the slab to reduce the distance the air will travel to dissipate.

As a general rule, unless there is a very special need or condition, these are the adhesives to be used for glueing an outdoor countertop:

| SUBSTRATE/STRUCTURE | ADHESIVE                           |
|---------------------|------------------------------------|
| BRICK/STONE         | C2S2 (CEMENT GLUE)                 |
| METAL STRUCTURE     | R2 (REACTIVE RESIN BASED ADHESIVE) |
| CEMENT FIBER BOARD  | C2S2 (CEMENT GLUE)                 |
| WEDI/KERDI BOARD    | R2 (REACTIVE RESIN BASED ADHESIVE) |

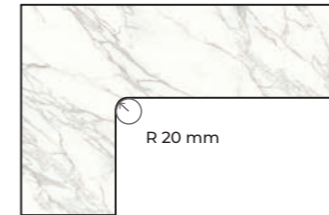
### 6.10 L-SHAPED COUNTERTOPS

L-shaped countertops

Dividing L-shaped countertops into several parts is recommended to avoid 90° corners in one part.



L-shaped countertops made of a single piece without a 45° angle must have a minimum radius of 20mm. An increase in the size of the corner radius will improve the performance of the countertop and reduce the risk of failure”



Make sure the furniture is in perfect condition and level before installing this type of countertop.

# 07 Heat



## 07/ Heat

Neolith parameters that are essentially relevant for all uses where heat is involved:

Maximum temperature increase: 10°C/min  
Linear thermal expansion: between 5.3° and 6.7°. 10-6 x°C-1

Sudden changes of temperature applied to Neolith should be avoided. To avoid sudden increases in temperature, use trivets under hot pots and pans after removing them from the burners.”

### 7.1 KITCHENS

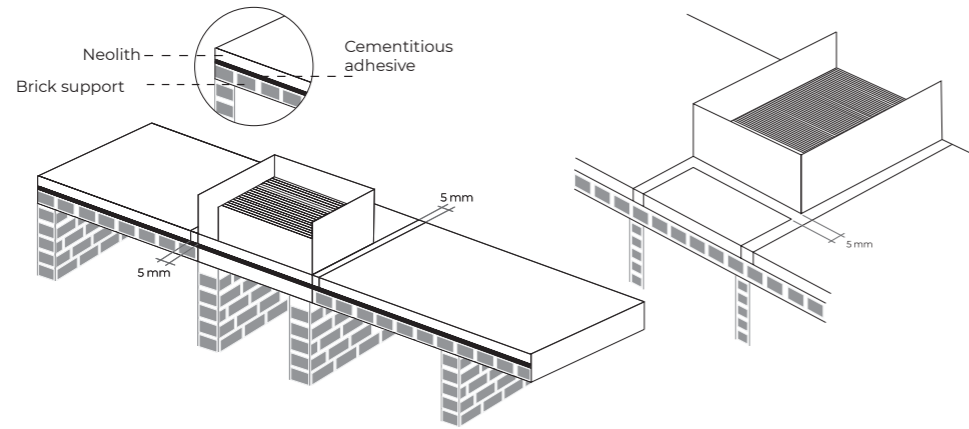
When used as a kitchen worktop, Neolith has a good heat resistance for containers such as frying pans, pots, pans, coffee pots, etc. Electric appliances that give off heat, such as sandwich makers, can also be used. Even so, for utensils whose temperature is not controlled, it is advisable to use a trivet to avoid sudden changes in temperature.

### 7.2 BARBEQUES

If grills and/or barbecue grills are to be placed in a Neolith countertop, keep the following in mind:

- Always remember that all material expands when subjected to temperature changes (i.e. the metal structure of a barbecue grill) to prevent stress due to a lack of space for such expansion.
- Metal materials expand much more than Neolith; therefore, prevent direct contact by leaving a minimum space of 5mm (which could be increased depending on the dimensions of the barbecue grill, maximum temperature it may reach, etc.).
- Polishing the edges of the cutout is recommended to eliminate any micro-fissures created when cutting. The more intense this treatment is, the less risk there will be in the future.
- Inner corners must have minimum radiuses of 10 mm. We recommend diameters of more than 10 mm or producing the countertop in several parts, when the design so allows:

View of the top of the grill/barbecue grill built into a Neolith countertop.



**WARNING**  
Neolith is not recommended for inner paneling for a fireplace.

### 7.3 FIREPLACES

Leaving a minimum space of 5 mm between the fireplace and Neolith and filling with thermal insulation such as fiberglass thermal insulation tape is recommended.

Possible uses for Neolith with built-in barbecue grills:



Possible uses for Neolith with fireplaces:



Front outer paneling: Front and side outer panelling: separated from the heat by an insulation/refractory layer (fire resistant).

Side outer paneling: separated from the heat by an inner refractory wall.

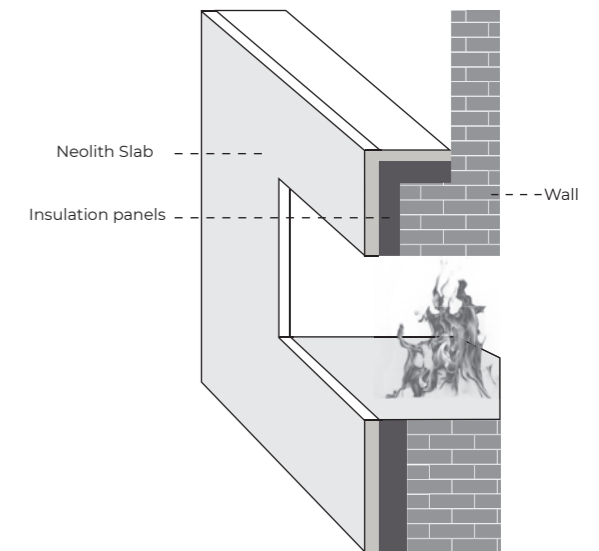
Countertop furniture



Ethanol fireplace design

Front outer paneling: separated from the heat by an inner refractory wall.

Side outer paneling: separated from the heat by an inner refractory wall.



# 08 Glue

## 08/ Glue

An adhesive with chemical based bond characteristics is recommended. The use of polyester based adhesives is not recommended.

Acrylic and/or epoxy resin based adhesives for interior uses are recommended. For outdoor uses please check (6.9) section of this manual.

Always follow the adhesive manufacturers guidelines when using with Neolith. Ensure the adhesive is suitable for use with Neolith and also use the proper application technique(s).



## 8.1 JOINTS ADHESIVE

Reference the surface colour of the Neolith slab when preparing the glue for joints.

Before any adhesive application, the edges to be bonded must be clean and free of contamination.

To avoid adhesive failure, both slabs must be properly supported and movement of the parts prevented.

To correctly remove the excess adhesive before it fully hardens, please select the correct cleaning product for the type of adhesive used.

Please check joints (6.7) section of this manual

## 8.2 MITRED EDGES ADHESIVE

A round 2mm radius or a 45° 2mm bevel for mitred joints is recommended.

Please check edges design and production (6.5) and joints (6.7) sections of this manual. Always dry fit before gluing up.

Reference the base colour of the Neolith slab when preparing the glue for mitred joints.

Before any adhesive application, the edges to be bonded must be clean and free of contamination. To avoid adhesive failure, the mitred joint must be sufficiently reinforced and movement of the parts prevented by using mitre clamps or similar tooling.

On decorpolished finish avoid applying excessive pressure on the parts.

To correctly remove the excess adhesive before it fully hardens, please select the correct cleaning product for the type of adhesive used.

## 8.3 BONDING TO CABINETRY / REINFORCEMENT

### INTERIOR USE

Before any adhesive application, the surface to be bonded must be clean and free of contamination. To avoid adhesive failure, 100% adhesive application to the surface in contact with the cabinetry/ reinforcement is recommended.

Dot and dabbing technique must be avoided.

Please check reinforcement (6.2) and joints (6.7) sections of this manual.

For outdoor countertops, please also check outdoor (6.9) section of this manual.

## 8.4 SINKS ADHESIVE

Reference the sink surface colour of the Neolith slab when preparing the glue for joints.

Before any adhesive application, the both sink and slab surfaces to be bonded must be clean and free of contamination.

To avoid adhesive failure, both sink and slab must be properly supported and movement of the parts prevented.

To correctly remove the excess adhesive before it fully hardens, please select the correct cleaning product for the type of adhesive used.

Please check sinks (6.4) section of this manual

## 8.5 WATERFALL LEGS ADHESIVE

A round 2mm radius or a 45° 2mm bevel for mitred joints is recommended.

Please check edges design and production (6.5) and joints (6.7) sections of this manual.

Always dry fit before gluing up.

Reference the base colour of the Neolith slab when preparing the glue for mitred joints. Before any adhesive application, the surfaces to be bonded must be clean and free of contamination.

To avoid adhesive failure, the mitred joint must be sufficiently reinforced and movement of the parts prevented by using mitre clamps or similar tooling.

On decorpolished finish avoid applying excessive pressure on the parts.

To avoid adhesive failure, 100% adhesive application between the waterfall leg and the cabinetry with flexible adhesive is recommended. Dot and dabbing technique must be avoided.

To correctly remove the excess adhesive before it fully hardens, please select the correct cleaning product for the type of adhesive used.

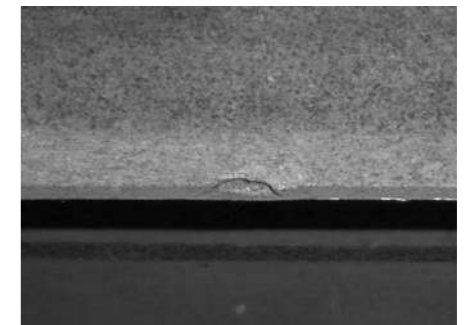
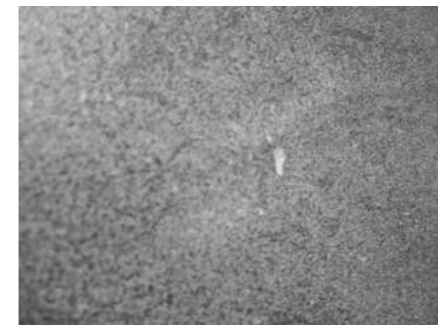
To allow for expansion on vertical panels or waterfall legs, a 3mm space between the vertical panel/ waterfall leg and floor is recommended. This space should be sealed with flexible sealant.

# 09 Repairs

## 09/ Repairs

### 9.1 CHIP REPAIR

Ceramic surfaces can be damaged for many reasons. Most of the time it is due to a defect caused by a plate that falls down or a heavy object.



Keep in mind that no repair is perfect; it's very difficult to duplicate the tone and texture of a surface with resins.

#### Step 1:

Mix the bi-component epoxy resin, adding the color to color the epoxy so it matches the Neolith countertop.

#### Tip:

Repair all defects at the same time as the bi-component epoxy will cure quickly. And only mix enough to fill the defects with a little left over: epoxy resin cannot be stored once mixed.

Step 1



**Step 2:**

Use a Neolith fragment to imitate the surface finish and fill the defect with the mixed resin.

Step 2

**Step 3:**

Use an acetone-soaked cloth to add additional texture to the resin to imitate the adjacent surface even better.

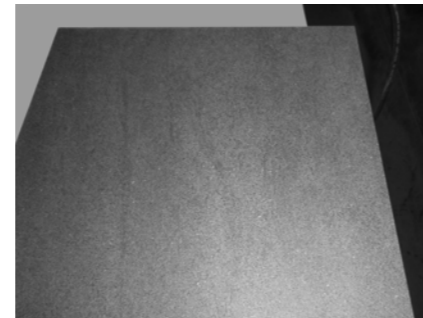
Make sure the level of resin does not exceed the surface.

Clean the excess resin from the surface before it hardens with an acetone-soaked cloth.

**Step 4:**

Once the resin hardens, remove the excess resin in the edge mechanically. For surface repairs, it's best to work manually to prevent damage to the surface.

Step 4

**9.2 REPAIRING SURFACE SCRATCHES IN NEOLITH POLISHED.**

Necessary materials:

- Cerium oxide powder (90% purity, optical quality)
- Rubber gloves
- Smooth cloth
- Water
- Electric drill / Grinder
- Polishing pad (lamb wool, felt or leather pads)
- Spray bottle
- Goggles

Determine the depth of the scratches before polishing the scratches on the surface. If you can feel the scratches with your fingernail, they're too deep to be polished with cerium oxide. You must first sand the entire surface.

Only then can you polish the surface with cerium oxide.

Instructions:

1. Mix a little cerium oxide with the water to form a fine paste (creamy consistency) - mixing in a small bowl is recommended so the paste can be applied easily to the polishing pad.
2. Deep clean the surface to eliminate all dirt and grease residue.
3. Apply the polishing paste to the pad.
4. Place the pad on the drill and work the area.
5. Move the pad up and down, left and right in the area.
6. Keep the surface damp to prevent overheating - if there's enough paste, just spray a little water on to keep the area damp.
7. Clean any residue and inspect the repair - keep working until you get a satisfactory result.
8. Clean the pad for later use.



# 10 Protective edges & profiles

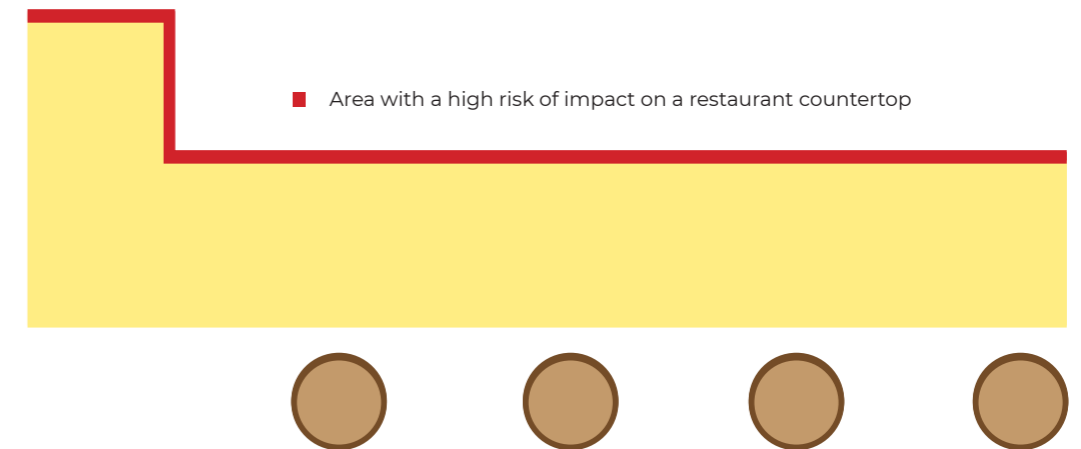


## 10/ Protective edges & profiles

### 10.1 WORK AREAS SUBJECT TO HARSH CONDITIONS

Even though a Neolith® countertop is resistant to impacts, there are harsh work atmospheres in which the edges recommended in section 6.5 of our countertop technical manual are not enough to properly protect the countertop in these environments.

In these areas with a **high risk of impact**, behind a restaurant bar counter, for example, rounded edges should be considered for the countertop.



Due to the design of some models, this option may not be the most aesthetic measure.

To solve this problem, Neolith sought the assistance of Schlüter®-Systems, whose construction systems are the result of extensive experience in the sector and guarantee a good final finish.

Schlüter®-Systems produces several profiles that are suitable for protecting Neolith countertop edges.

Below is a summary of some profiles that have led to the best results with the various Neolith® models and thicknesses.

The profiles can be secured to the countertop with industrial silicone like SoudalT-Rex. The joint between the profile and the Neolith® countertop was rejointed with Akemi Composil colored silicones.

Profiles combined with a substrate like Schlüter®-Kerdi-Board or similar.

Sometimes, substrates like Schlüter®-Kerdi-Board are used.

**Schlüter®-Kerdi-Board** is an extruded rigid foam panel covered on both sides with special reinforcement material to guarantee the effectiveness of the adhesive. **Schlüter®-Systems** has developed various types of profiles to cover the visible edge of the substrate.

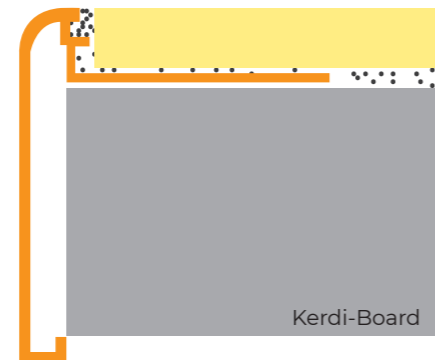
### Schlüter®-Rondec-Step

**Schlüter®-Rondec-Step** is a profile which, in combination with a Neolith countertop, creates a symmetrical outer corner and covers the front edge of the countertop. The profile comes in two aluminum finishes and allows for different decorative designs and interesting contrasts.

1. Neolith® Beton 12 mm with Schlüter®-Rondec-Step and its outer angle



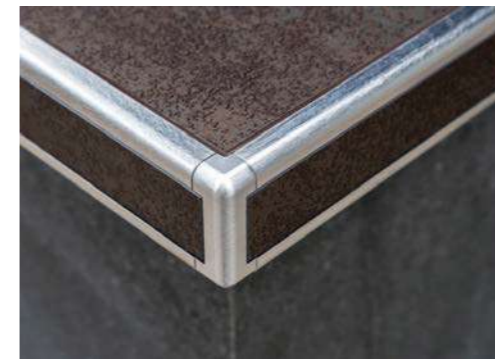
Cross-sectional image of a Schlüter®-Rondec-Step profile



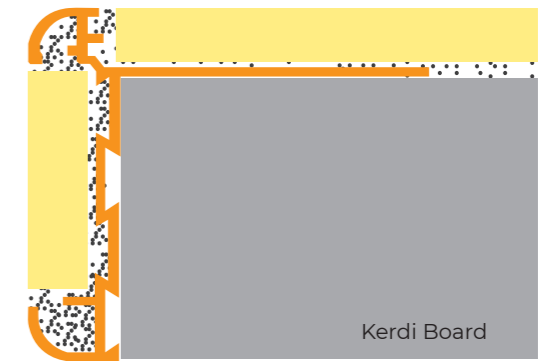
### Schlüter®-Rondec-Stepct

With **Schlüter®-Rondec-Stepct**, pieces with the same coating as the countertop as well as other materials can be inserted in the free space in the profile. Besides the decorative effect, the profile effectively protects the countertop edges from deterioration caused by mechanical aggressions. Special parts are available for **Schlüter®-Rondec-Stepct** to properly join the profiles to inner and outer corners.

2. Neolith Iron Copper 12 mm with Schlüter®-Rondec-Stepct



Cross-sectional image of a Schlüter®-Rondec-Step



The suitability of **Schlüter®-Rondec-Stepct** should be checked in cases where chemical aggressions may occur. Aluminum is sensitive to alkaline substances.

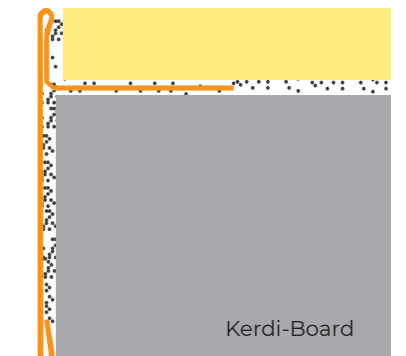
### Schlüter®-Schiene-Step

**Schlüter®-Schiene-Step** is the right profile for Neolith® countertops. The top of the profile features a vertical section that finishes and protects the countertop edges from possible impacts while the bottom covers the edge of the substrate.

3. Neolith Zaha Stone 12 mm with Schlüter®-Schiene-Step



Cross-sectional image of a Schlüter®-Schiene-Step profile

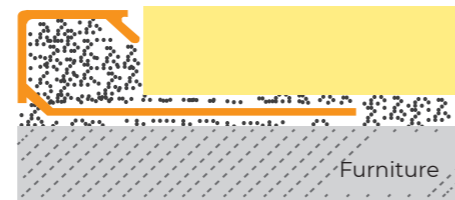


Profiles to protect edges

### Schlüter®-Quadec

Schlüter®-Quadec is a high-quality finish stainless steel profile for countertops, which also provides good protection for edges. The surface of the profile creates a square outer corner that is symmetrical with Neolith® countertops.

4. Neolith Cement 12 mm with Schlüter®-Quadec-TSG and its outer angle



Cross-sectional image of a Schlüter®-Quadec-TSG profile

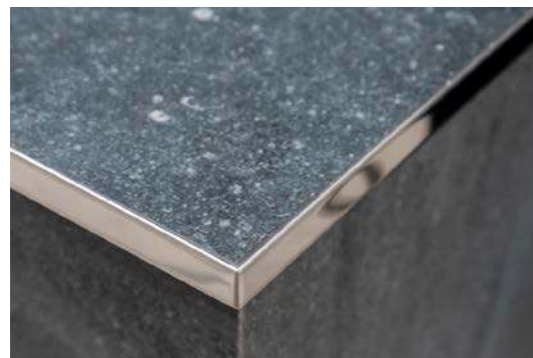
Special parts as well as connections and covers for some finishes are available to easily and beautifully join Schlüter®-Quadec profiles to inner and outer corners

### Schlüter®-Schiene

Schlüter®-Schiene is a special profile to protect and decorate the outer edges of Neolith® countertops.

The acting loads are deviated to the coating and support because of the thickness and special angle of the profile. Thus, the countertop edges are effectively protected from possible deterioration. A separator creates a defined joint between the profile and countertop.

5. Neolith Pierre Bleue 20 mm with Schlüter®-Schiene-E

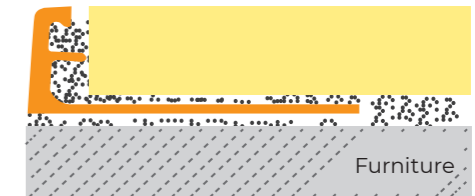


Cross-sectional image of a Schlüter®-Schiene-E profile

### Schlüter®-Jolly

Schlüter®-Jolly is a finishing profile for Neolith® countertop edges which also provides good edge protection. Since the profiles are available in different colors, the countertop and joint colors can be combined in addition to the possibility of creating interesting contrasts.

6. Neolith Estuario 12 mm with Jolly-AC



Cross-sectional image of a Jolly- AC profile

Besides the decorative effect, the profiles also protect the countertop edges from deterioration due to mechanical aggressions.

The separator integrated in the profile creates an even joint between the profile and countertop.

### Other models

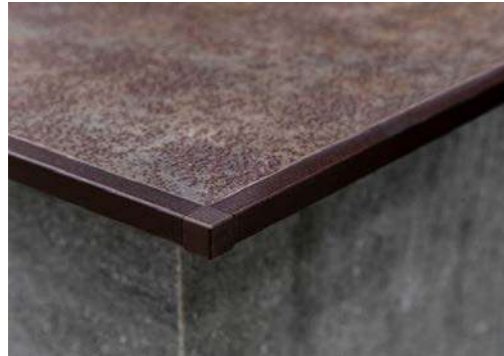
7. Neolith Pietra di Piombo 12 mm with Jolly-TSG



8. Neolith Pierre Bleue 20 mm with Schiene-A



9. Neolith Iron Copper 12 mm with Quadec-TSOB



10. Neolith Nero Zimbabwe 12 mm with Jolly-AC



COMPOSIL - AKEMI COLORED SILICONES

| Photo no. | Neolith® color        | Schlüter®-Systems profile                          | AKEMI silicone (Composil) |
|-----------|-----------------------|--|---------------------------|
| 1         | Beton Silk            | Schlüter®-Rondec Step Brushed Aluminum             | CC 1960                   |
| 2         | Iron Copper           | Schlüter®-Rondec-Step-CT Brushed Aluminum          | CC 2000                   |
| 3         | Zaha Stone Silk       | Schlüter®-Schiene-Step-Eb Brushed Stainless Steel  | CC 1840                   |
| 4         | Cement Satin          | Schlüter®-Quadec-Tsg Lacquered with Gray Relief    | CC 1805                   |
| 5         | Pierre Bleue          | Schlüter®-Schiene-E Stainless Steel                | CC 1880                   |
| 6         | Estaturario Polished  | Schlüter®-Jolly-Ac Lacquered White                 | CC 1130                   |
| 7         | Pietra di Piombo Silk | Schlüter®-Jolly-Tsg Lacquered with Gray Relief     | CC 1850                   |
| 8         | Pierre Bleue          | Schlüter®-Schiene-A Stainless Steel                | CC 1880                   |
| 9         | Iron Copper           | Schlüter®-Quadec-Tsob Lacquered with Bronze Relief | CC 2000                   |
| 10        | Nero Zimbabwe         | Schlüter®-Jolly-Ac Lacquered Black                 | CC 1000                   |

PROJECTS WITH PROFILES

Restaurant Miramar - Llançà, Girona, España



Restaurant Enigma - Barcelona, España



Restaurant Confusion - Porto Cervo, Italia



Restaurant Kutchiin &amp; Campus Loft - Münster, Alemania



Gasma, Gastronomic University - Castellón, España



**SAFETY DATABASE**

From all the available information about Neolith, The Neolith has prepared a Safety Data Sheet as specified in the REACH Regulation (EC) N° 1907/2006.

The purpose of this guide is to provide employees general information and guidance on how to handle the product during all activities, to promote and improve working conditions and to minimize potential risks through the implementation of the risk management measures proposed in this document.

Because of the product characteristics, employees should be aware that during cutting and/or polishing of Neolith, they may come in contact with breathable airborne crystalline silica (quartz). Prolonged or massive inhalation of breathable crystalline silica may cause pulmonary fibrosis, commonly known as silicosis. The main symptoms include coughing and difficulty breathing. Therefore Neolith recommends wet cutting and polishing to reduce the exposure to breathable crystalline silica dust to a minimum.

According to Regulation (EC) N° 1907/2006 Version 2 Print date 21.12.2011 Revision date 21.12.2012, the finished product (porcelain tile) presents no risk to human health and the environment. Because of generation of silica dust in the dry manipulation processes the following risks must be taken into account:

The image shows a Safety Data Sheet (SDS) for Neolith tiles. It is a bilingual document with Spanish text on the left and English text on the right. The header includes the Neolith logo and company contact information. The main body is divided into sections: Advertencia (Warning) and Advertencia (Warning) in Spanish, and Warning and Warning in English. It includes hazard pictograms (GHS symbols for health, environment, and safety), hazard statements, and precautionary statements. At the bottom, there is a QR code and a note about consulting the technical manual for more information.

**Additional Information:**

According to information provided, the testing of the product has not detected or cristobalite or tridymite, which are the more siliceous and dangerous varieties.

More detailed information regarding safety and health standards and recommendations is available on [www.neolith.com](http://www.neolith.com) (Downloads: Safety Data Sheets section).



NEOLITH

[www.neolith.com](http://www.neolith.com)