



NEOLITH[®]
Polished Finish Manual

NEOLITH[®] Polished Finish Manual

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GUIDE TO REPAIR SURFACE SCRATCHES ON NEOLITH POLISHED SLABS

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1. Technical Features

FORMAT	3.200 x 1.500 mm - 125" X 60"		3.200 x 1.600 mm - 126" X 64"	
THICKNESS	6 mm - 1/4"	12 mm - 1/2"	12 mm - 1/2"	20 mm / 3/4"
FULL SLAB WEIGHT (Kg)	90 Kgs	150 Kgs	158 Kgs	261 Kgs

2. Neolith Polished Applications

- Countertops.
- Interior and Exterior cladding.
- Interior flooring with low intensity pedestrian traffic and no outdoors connection.

3. Cleaning and Maintenance

Cleaning should be limited to immediately rinse the spills off the surface and dry with an absorbent cloth. For daily cleaning use only a damp cloth with water and soap.

For embedded stains, pour warm water on the stain then wait till it "loosens" and finally rinse or remove with a clean cloth.

Avoid using pads, rough sponges and steel wool. TheSize recommends using a blue pad: made with soft fibers, suitable for cleaning of glass, kitchen appliance and nonstick frying pans.

Do not use caustic soda or products with a pH greater than 11. If you use bleach, rinse with plenty of water and never leave it in permanent contact with the Neolith polished surface. Avoid cleaning the surface with abrasive cleaners such as Cif Cream (Soft Scrub Cream Cleansers).

Use pads, cloths, napkins and glass coasters to place cooking pots or other kitchen hardware on the surface.

Never cut food directly on the counter, use a cutting or chopping board.

Do not pull or drag kitchenware, pans and appliances on the counter.

4. Handling of Polished Slabs

The Neolith slabs must be loaded, unloaded and transported by a forklift, crane or other lifting device. In all cases, handling and transport of the slabs must be balanced taking into account its center of gravity.

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

To lift and move individual slabs, TheSize recommends the use the following type of clamp.



Image 1: Clamp



Image 2: Neolith slab handling with Clamp

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

This clamp is available through TheSize. Contact TheSize for details.

- Before picking up the slabs with the clamp, remove the protective plastic from the slabs.
- It is not recommended to take more than 2 slabs at once with the clamp.

In case of not having this type of clamp, use a 2 cm plank of approximately 3 m x 20 cm. Place the plank on the backside of the slab.



Image 3: Plank in the backside of the slab



Image 4: Handling with Clamp

- 1) Put the clamp on the slab and plank together.
- 2) Attach the clamp and lift the slab with caution.
- 3) Avoid sudden changes of direction.

To avoid damage, it is recommended to store the polished slabs indoors.

5. Mechanical Fabrication of Polished Countertops

TheSize strongly recommends wet cutting to fabricate Neolith Polished countertops.

6. Bridge Saw, Waterjet and CNC

Follow the same cutting instructions as for Neolith Satin or Silk slabs.

7. Waterjet Warning

When starting the cut with the waterjet, ensure that the initial perforation is far enough away from the work area due to the risk of chipping.

8. Polished Edges

The edge polishing of a Neolith Polished slab should be done with water. This factor ensures a higher level of brightness and reduces the chipping possibilities in the edges.

9. Hand Fabrication Instructions of Polished Countertops

For the manual cutting of a hole it is recommended to use the disk for dry cutting, available through TheSize.

When dry cutting, please note that there will be more chances of chipping during the process, therefore keep this in mind when marking and making the hole.

After cutting it is recommended grinding the edge of the hole to the desired size, using our recommended grinding discs and cups.

Drilling must be done by using water as coolant.

More information related to the Neolith slabs handling and fabricating recommendations, can be found in our **Countertop Technical Guide**, available in the download area of www.neolith.com.

10. Handling of Polished Slabs

Due to its composition, the polished slabs are more sensitive to bending. **Make sure never to bend the slab by stretching the polished side.**

To avoid unexpected bendings during transportation, it is recommended to fasten the countertop with an aluminium bar and grips.

GUIDE TO REPAIR SURFACE SCRATCHES ON NEOLITH POLISHED SLABS

1. Required Materials

- GlassRenu® Professional Grade System
- Electric Variable Speed Grinder
- Dust Mask
- Lint Free Cloth
- Water
- Spray Bottle
- Goggles

Before starting the scratch removal process on the polished surface of the slab, the depth of the scratches should be inspected. If scratches can be felt with a fingernail, it means that you will need to start with a BLACK RenuDisk that can be found in the GlassRenu System. If the scratch cannot be felt with a fingernail, the scratch can be removed with the polishing compound and felt disk supplied in the system.

2. Instructions

PLEASE TAKE THE TIME TO READ THE INCLUDED INSTRUCTIONS THAT CAN BE FOUND WITHIN THE GLASSRENU PROFESSIONAL GRADE SYSTEM PRIOR TO ATTEMPTING A REPAIR.*

1. Mix the complete pouch of dry polishing compound supplied in the system with 475ml of clean water in the spray bottle.
2. Clean the surface of the slab thoroughly to remove all traces of dirt and grease.
3. If the scratch can be felt with a fingernail, you will need to grind the surface of the slab using a new Black RenuDisk to remove the scratch. With the Black RenuDisk attached to the included backing pad, set your variable speed grinder to 1800 RPM and move the pad up and down, left and right over the scratched area. Note that this grinding is done DRY and should only take a few passes to remove the scratch. This step should only take a few minutes to complete. If the scratch cannot be felt with a fingernail skip to step 5.

4. Once the scratches are no longer visible on the surface of the slab, remove the Black RenuDisk from the backing pad and replace it with a new Grey or “Pre-Polish” RenuDisk. Use this disk in the same manner, and at the same speed as the Black RenuDisk. Make at least 3 full passes over the repair area to get the slab ready for polishing. You will know you are done pre-polishing once the surface of the slab looks uniformly hazy. This process should take only 2-3 min per square foot of repaired area.
5. Remove the Grey RenuDisk from the grinder and attach the Felt Polishing Pad. Mist the polishing solution (from Step 1) onto the surface of the polishing felt insuring the surface is damp to the touch and not dripping (4 to 5 sprays). Begin polishing the repair area on the surface of the slab. The slab will polish quickly; just insure that the surface is clear from all observable angles.
6. Clean the polish off the slab and carefully inspect the repaired area. Keep polishing until obtaining a satisfactory result.

* **NOTE:** IF YOU HAVE SPECIFIC QUESTIONS OR REQUIRE FURTHER INFORMATION CONTACT EITHER YOUR NEOLITH DISTRIBUTOR OR GLASSRENU DIRECTLY (www.glassrenu.com).

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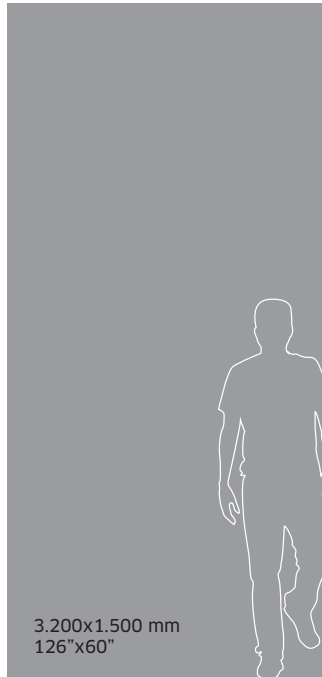
POLISHED

TECHNICAL DATA

JUNE 2018

FORMATS AND THICKNESS

— NEOLITH POLISHED



6 mm - 1/4"



12 mm - 1/2"



20 mm - 3/4"



TECHNICAL DATA

— NEOLITH POLISHED

SPECIFICATIONS

Format (mm)	3200 x 1500		3200 x 1600	
Weight slab (Kg)	6 mm	90 Kgs	12mm	158 Kgs
	12mm	150 Kgs	20mm	261 Kgs

Besides the formats described above, slabs can be cut to the following standard sizes:

Length (mm)	Width (mm)
1500	1500
1500	750
750	750

For special projects, slabs can be cut to size.

PROPERTIES	TEST METHOD	VALUE		
Water absorption (%)	ISO 10545-3	≤ 0,1		
Coefficient of linear expansion ($10^{-6} \cdot ^\circ\text{C}^{-1}$)	ISO 10545-8	5,2 - 6,3 $10^{-6} \cdot ^\circ\text{C}^{-1}$		
Thermal Shock Resistance	ISO 10545-9	Pass, no defects.		
Moisture Expansion (mm/m)	ISO 10545-10	≤ 0,1		
Resistance to Dry Heat	ISO 19712	Pass, no defects		
Hardness (Mohs)	UNE 67-101	> 4		
Breaking Strength (N) (Average)	ISO-10545-4	6+ 1807	12mm 5451	20mm 55
Modulus of Rupture (N/mm ²) (Average)	ISO-10545-4	57	51	55

Recommended Applications:

- Countertops. (12mm, 20mm)
- Interior and exterior cladding.
- Floor coverings in areas that are walked on essentially with soft soled footwear or bare feet without scratching dirt. (Areas without direct access from the outside)






Safety Database

From all the available information about Neolith, The Size 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 TheSize 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:

Regulation CLP CE N° 1272/2008 Crystalline silica dust	Classification according Directive 1999/45/CE
<p style="text-align: center;">Precautionary statements</p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div>	
<p>P260: Do not breathe dust generated in the cutting, shaping and polishing of the material.</p> <p>P264: Wash hands and face thoroughly after handling</p> <p>P270: Do not eat, drink or smoke when manipulating</p> <p>P280: Wear gloves, suitable work clothing and goggles</p> <p>P284: Wear respiratory protection for particles (P3)</p> <p>P314: Consult doctor if feeling unwell</p> <p>P501 Remove residues in accordance with local regulations</p>	<p>R20: Harmful by inhalation</p> <p>R48: Danger of serious damage to health by prolonged exposure</p> <p>S22: Do not breathe dust</p> <p>S38: In case of insufficient ventilation wear suitable respiratory equipment (P3)</p>

Safety Guidelines

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 (Downloads: Safety Data Sheets section).



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