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# Worktop Manufacturing and Fitting

Dekton® Lite

DEKTON  
L | T E

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# Before starting

## Safety recommendations

**1.** Before starting, please read the safety labels on the different pieces carefully, as well as the safety data sheets available at Cosentino, for both Dekton® LITE and the complementary products (filler, silicon, etc.). Do not start working on Dekton® LITE until you have read and fully understood the risks and safety precautions and taken the necessary occupational safety measures in accordance with legislation.

Safety measures will depend on the specific conditions of each job. In no circumstance are these recommendations universal nor can they replace the legal obligations regarding health and safety under the applicable local regulations.

**2.** During the manufacturing of Dekton® LITE, breathable crystalline silica and polyurethane dust may be released into the air.

**3.** Avoid uncontrolled dust emissions. When possible, use pneumatic or electric cutting tools equipped with water-based integrated dust extraction systems. If not possible, use tools with localised air extraction

and High Efficiency Particulate Air (HEPA) vacuum cleaners with a filtering level in accordance with the local legislation for breathable crystalline silica dust.

**4.** Use the appropriate respiratory protection equipment.

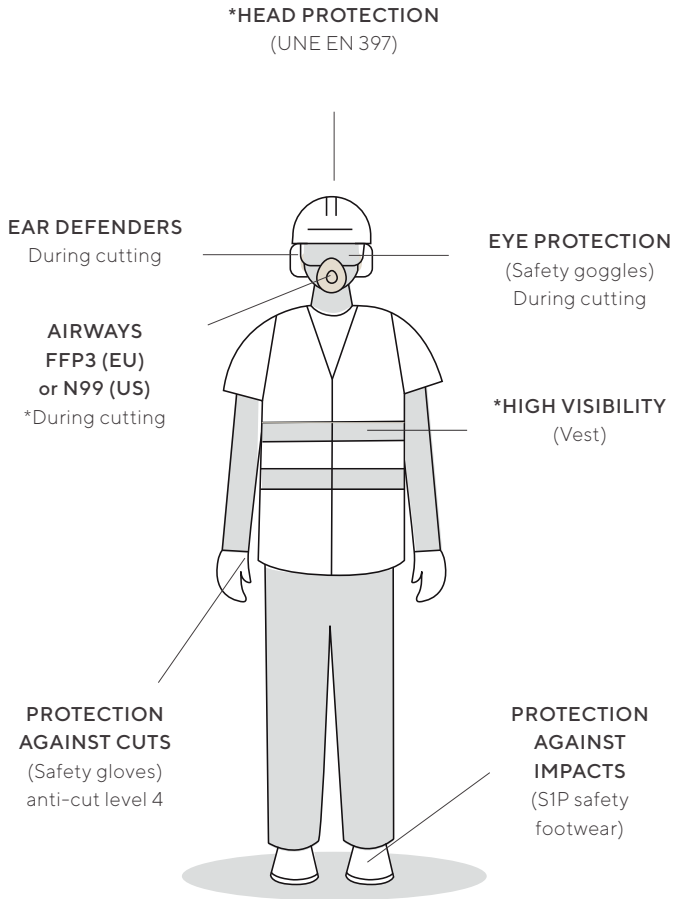
**5.** When possible, work in a well-ventilated area, such as outdoors, outside the installation site.

**6.** Restrict access to the work area to ensure the safety of those not involved in the manufacturing process.

**7.** Use personal protective equipment, including disposable overalls or aprons, P3 or N99 respiratory protection (when appropriate), safety boots, cut resistant gloves and eye and ear protection.

**8.** Clean your working clothes properly. Do not use compressed air. Use a vacuuming system or get them washed professionally.

**NOTE:** It is highly recommended to watch our worktop manufacturing demonstration videos.



\* Helmet and vest use is recommended when manufacturing in environments with low visibility and where there may be suspended loads.

# Design principles

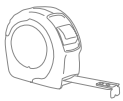
## Guide to correct measurement

### Fully fitted units

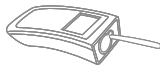
Before making any measurements, ensure that all units are fitted in their final position.

### Order form templates

Standardised templates with customer, colour, edge type, special features and bar codes.



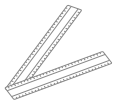
Tape measure



Laser tape measure



Metal ruler



Angle gauge



Spirit level

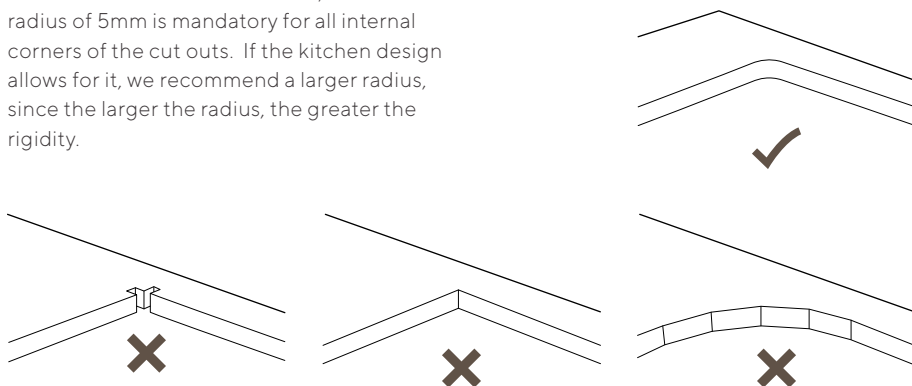


Technology system

## Cut-outs, minimum radius and minimum distances

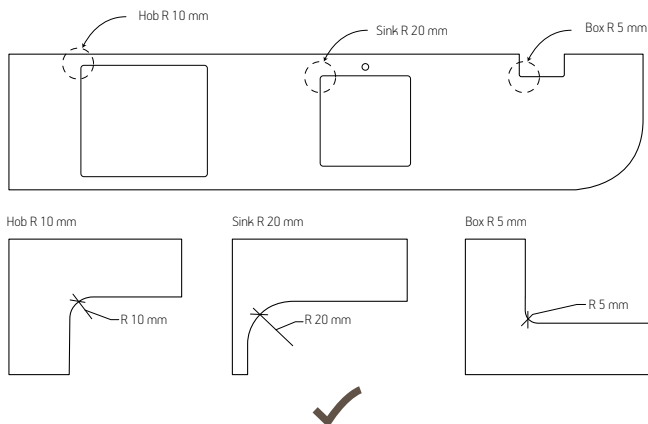
### Cut-outs

On Dekton® LITE slabs cut-outs, a minimum radius of 5mm is mandatory for all internal corners of the cut outs. If the kitchen design allows for it, we recommend a larger radius, since the larger the radius, the greater the rigidity.



### Minimum radius

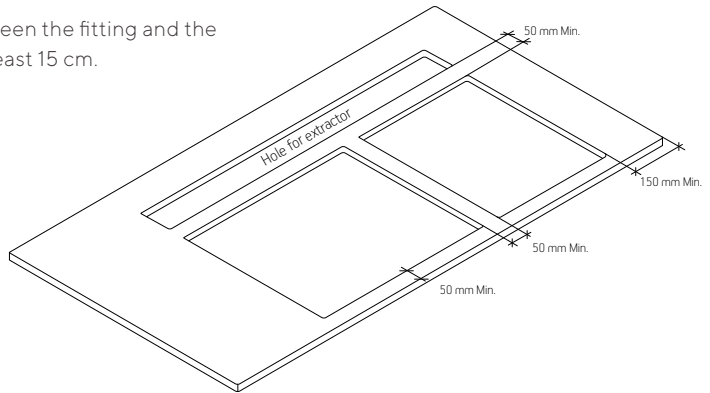
Below you will find some recommended examples of cut-outs for sinks, hobs, columns, sockets, etc.



### Minimum distances

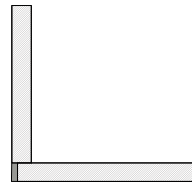
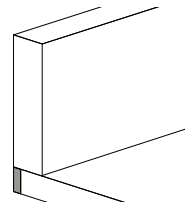
The following distances must be respected:

- The distance between the fitting and the outer edge must be at least 5 cm.
- The distance between the fitting and the joints must be at least 15 cm.



### Perimeter joints

Due to irregularities of the wall and possible structural movements of the building, it is recommended to leave a 3mm perimeter expansion joint on the worktop. Gaps in the joints must be filled with silicone. The joint between the trim and the worktop must be sealed with a silicone.



3mm separation  
Silicone filling

## Overhangs

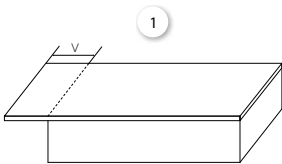
The following distances are recommended depending on the overhang design

### WORKTOPS WITHOUT CUT-OUTS

(1)

Overhang

$V \leq 25$  cm

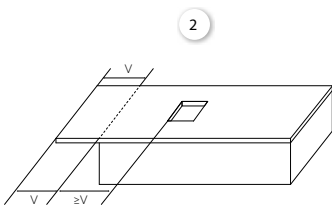


### WORKTOPS WITH CUT-OUTS

(2)

Overhang

$V \leq 25$  cm

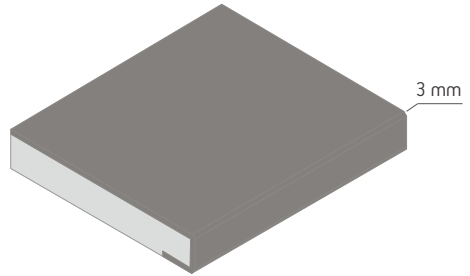


\*Maximum static load = 100 kg  
For other designs, please contact the technical team.



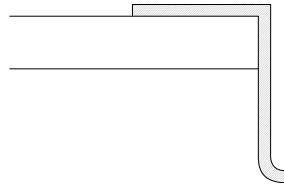
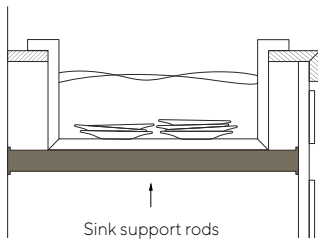
## Worktop edges

It is recommended to bevel the outer edges of the worktop to improve its resistance to impact and to avoid possible cuts. The greater the bevel, the greater its resistance to impact. The minimum bevel will be 1 mm when not visible (for example, against a wall), and 3 mm when exposed. However, it is common to cut bevels greater than those mentioned before due to their technical complexity.



## Sinks

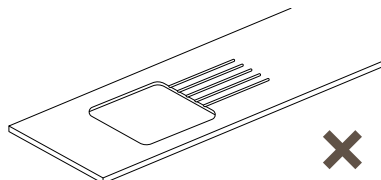
The sink will always be fitted inset from above the worktop.



Furthermore, for large sinks, it is recommended to place support rods under the sink, so that its weight is supported by the rods, and not by the worktop.

## Draining boards

Draining channels are not allowed



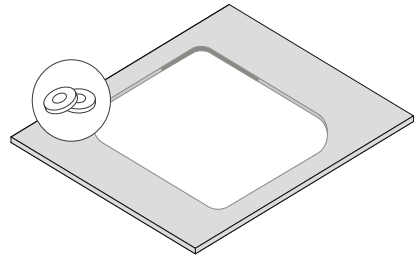
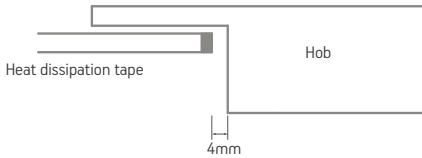
## Hobs

The hob will always be fitted inset from above the worktop.

A heat dissipation tape must be placed around the perimeter of the fitting.



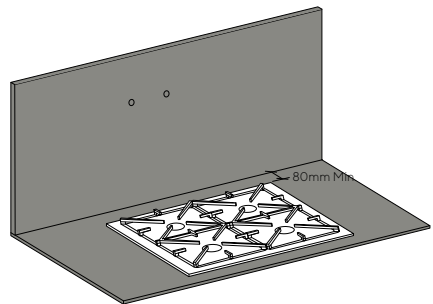
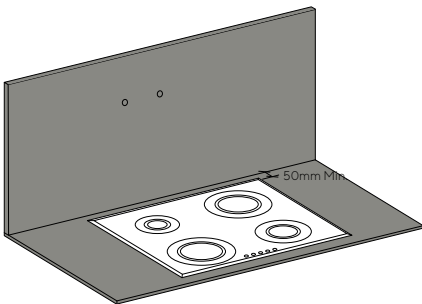
Heat dissipation tape



## Backsplash

A backsplash is not recommended with Dekton® LITE.

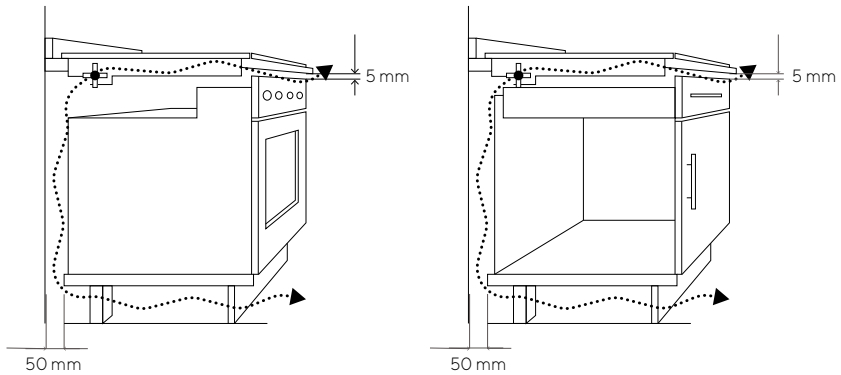
For Dekton® backsplashes, it is recommended to leave a minimum distance of 50mm between the hob and the backsplash for electric and induction hobs, and 80mm for gas ones.



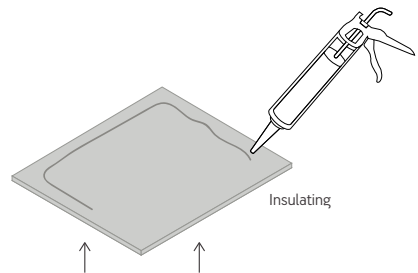
## Appliances

### Induction hobs, ovens, dishwashers

It is important to respect the recommendations of appliance distributors regarding the ventilation of their products.



Insulation is required to prevent heat transmission by conduction and convection between the oven/dishwasher and the worktop.



Apply silicone to the insulating material and stick it under the worktop

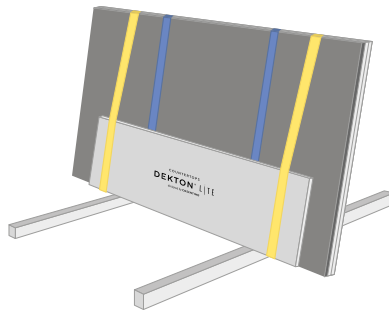
## Loading and unloading

1. The use of slings is recommended for loading.



2. Manual handling must be carried out with two people, taking care to maintain the package in a vertical position.

3. Use clamping straps and supports to prevent movement during transport. When transporting with other materials of different size, place the Dekton® LITE pieces at the sides of the vehicle/ container, secured with independent straps.



## Recommended tools

### Dekton® Lite specific tools

#### Fitting kit

Select the kit that matches your unit colour



Adhesive



Sandpaper



Colordek

#### Dekton® Lite Cutting disc

Select the right cutting disc for the cutting machine



Cutting Disc

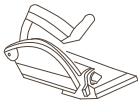
#### Dekton® Lite drill bits

Select the right drill bit for the task

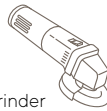


Drill bits

Cutting machine



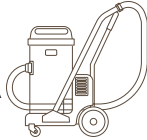
Angle grinder



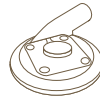
Tape measure



Vacuum cleaner with HEPA filter



Suction housing



Hand saw



Velcro grinder



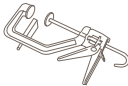
Water sprayer



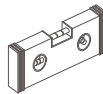
Drill Guide



Clamps (optional)



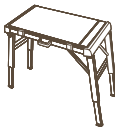
Spirit level



Plastic scraper



Flat workbench



\* See page 26 for the recommended cutting disc for each type of tool.

# Worktop manufacturing

## Preparation

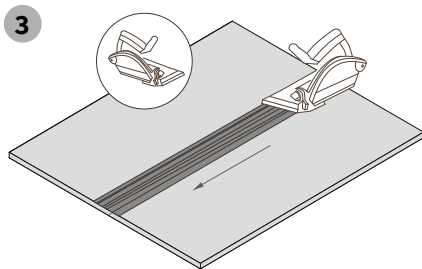
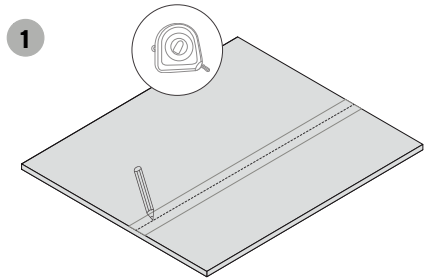
1. Make sure you wear the appropriate personal protective equipment (PPE) and that the workplace is properly ventilated.
2. Unpack the unit and take a detailed look to detect any damage.

3. Verify that the measurements are those shown on the packaging

4. Place the unit firmly on the workbench or, **preferably, held by clamps.**

## Straight cut with cutting machine

1. Measure and place masking tape to mark out the desired measurement. With a pencil, draw a line on the upper side of the unit where the cut will be made.
2. Place the cutting disc on the cutting machine so that the direction of the arrows on the machine and the one on the wheel match.

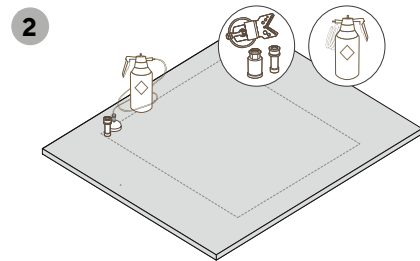
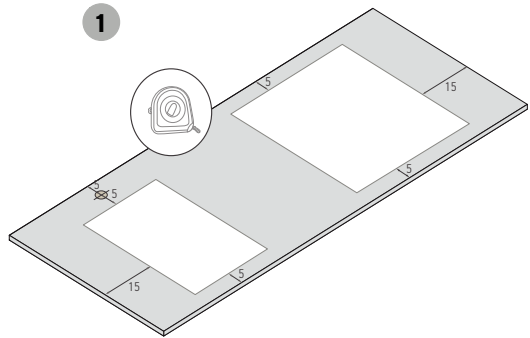


3. Place the guide with the clamps and fit the cutting machine.

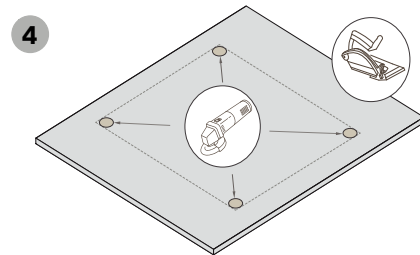
4. Switch on the suction or water system and proceed **very slowly** by pushing the cutting machine, **starting at the mitered edge.**

## Cut-outs

**1.** Measure and draw with a pencil the appropriate hole.  
Respect the minimum distances.



**2.** Drill a hole with the  $\varnothing 20$  or 35 mm cutter on each corner of hole with the help of the water sprayer.

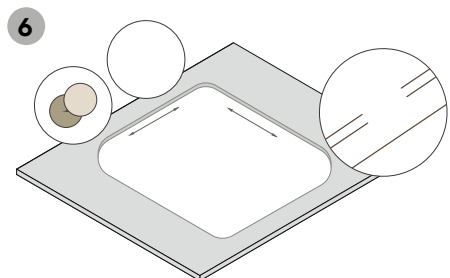


**3.** Measure and mark the hole for the tap. Drill a hole with the  $\varnothing 35$  mm cutter, as in step 2.

**4.** Make straight cuts with the cutting machine as described in section "straight cut with cutting machine". Slowly start cutting down in the middle of the piece to be worked on.

**5** Finish off the perimeter of the cut with a hand saw.

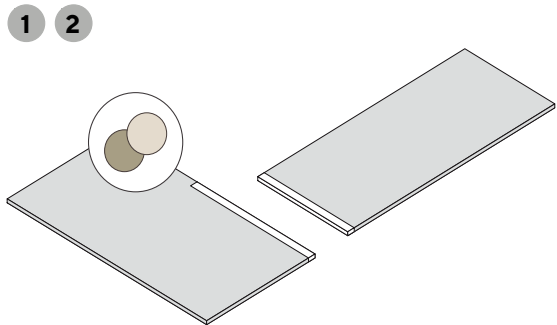
**6.** Use sandpaper to manually remove any blemishes.



## Joining two worktop pieces

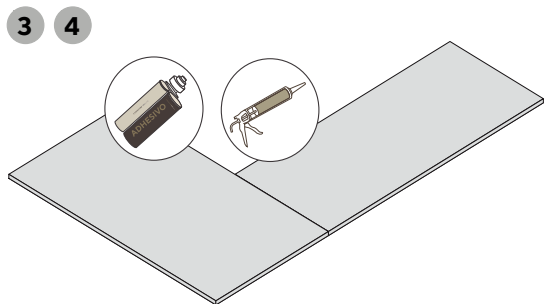
**1.** Cut the side by following the steps outlined in section “straight cut with cutting machine” to adjust it to the desired size. **Use sandpaper to manually remove any blemishes.**

**2.** Place masking tape on the outer edges of the joint to protect the surface from adhesive residue.



**3.** Apply the recommended adhesive to the edge of the joint and join the two pieces together.

**4.** Apply a solvent, such as acetone, to remove any excess adhesive.





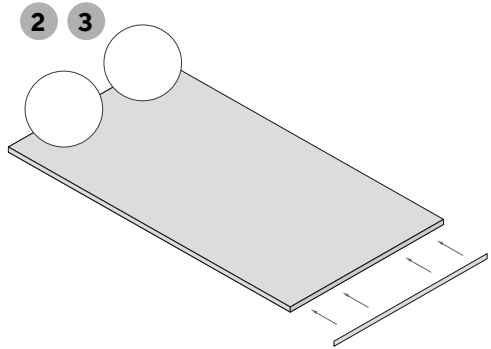
## Edging strips

### Option 1

**1. Use a GR60 sandpaper** on the side of the cut to smooth the surface and enhance the adhesion.

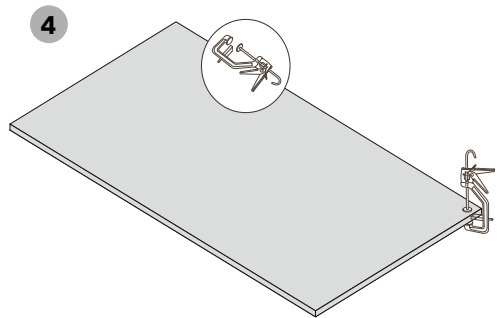
**2.** Attach the recommended adhesive to the glue gun. Don't use the **first few milliliters** of glue to ensure adhesion.

**3.** Apply the adhesive to both the edging strip and the side of the unit spreading it on the centre and the upper outer edge.



**4.** Secure with clamps. When it starts to dry (5 min), remove the excess adhesive with a knife. Let it dry for 15-20 minutes.

**5.** Once dry, release the clamps and remove excess adhesive with a solvent such as acetone.



### TIP:

To get the best finish possible, once the bevel is dry and clean, uniformly apply Coloron (Cosentino® complementary product) on the bevel. After 5 minutes, remove the excess and repeat the process a second time.

# Worktop fitting

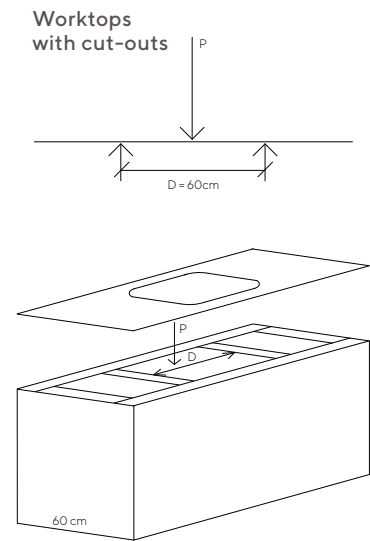
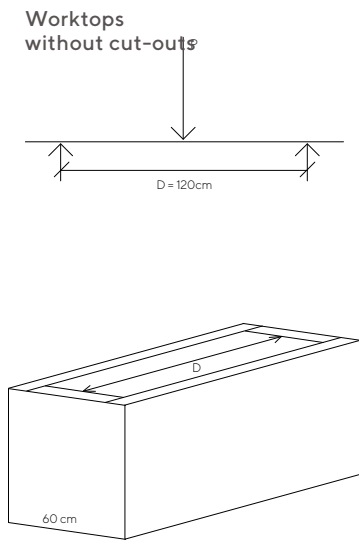
Before starting with the worktop fitting, please keep in mind that Dekton® LITE worktop requires proper support. The support area must be clean and free of objects. For advice on tool manufacturers, filler

and complementary products, please contact your nearest Cosentino® CENTER representative, who will assess you to ensure a successful result.

## Supports

The following table shows the maximum weight that the worktop (with and without cut-outs) can support depending on the distance between supports:

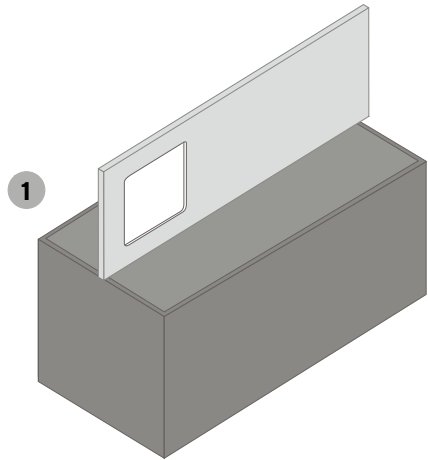
	W - MAXIMUM WEIGHT (KG)	D - DISTANCE BETWEEN SUPPORTS (CM)
<b>WORKTOPS WITH CUT-OUTS 56X49</b>	75	60
<b>WORKTOPS WITHOUT</b>	100	120



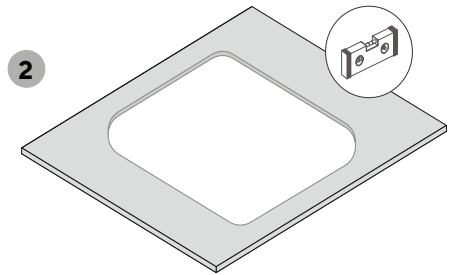
## Unit preparation

Below, you will find the steps to follow for the preparation of the unit where the worktop will be fitted.

1. Place the worktop on the unit/s



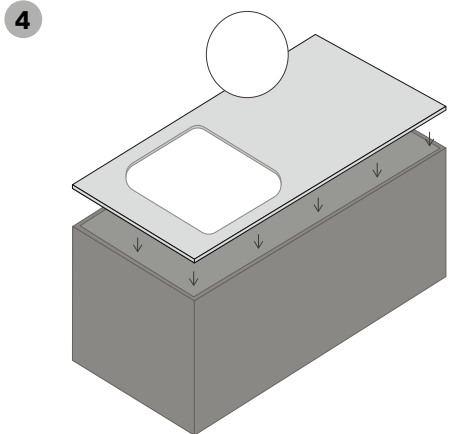
2. Check that the worktop is the right shape and size



3. In case of unevenness, units must be adjusted.

Avoid using wedges. If necessary, use calibrated wedges.

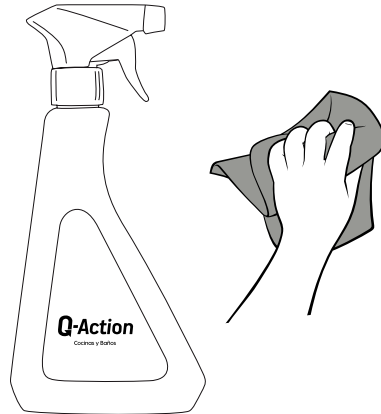
4. Apply Colordek silicone on the edges of the units and fix the worktop.



# Worktop maintenance

## Daily maintenance

1. It is recommended to use **Q-Action** and a soft cloth. Then, rinse with plenty of water.
2. If the above product is not available, use water and neutral soap.



## Removing stubborn stains

1. It is recommended to use a de-scaler or any other specific product such as a solvent (acetone or universal solvent).
2. Visit the website [www.dekton.com](http://www.dekton.com) for further details and methods of cleaning, general maintenance and exposure to chemicals.

## Recommended tools

	EQUIPMENT	RECOMMENDED CUTTING BLADE
<b>CUTTING MACHINE</b>	SP6000J MAKITA Plunge saw 165mm* / Ref. SP600J	Dekton® LITE 125 cutting disc Ø bore 22.2 mm / Ref. 31933
	TC-180 RUBI 230V 50HZ CIRC. CUT. Ø bore 22.2 mm / Ref. 50939	Dekton® LITE 180 cutting disc Ø bore 22.2 mm
<b>VACUUM CLEANER</b>	Nilfisk Attix 30-OH	

\* A reduction washer -from 22.2 to 20 mm- is required



\* For more information on other recommended tools in your market, see the specific tools sheet available.



COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =  
= ISO 14001 =

\* Find information on NSF-certified colours at [www.nsf.org](http://www.nsf.org)

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