

Sensa by Cosentino®

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# DESIGN AND INSTALLATION QUARTZITE COUNTERTOPS

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**SENSA**  
by COSENTINO®

**The purpose of this manual is to provide general guidance for the design of a Sensa Quartzite countertop.**

We advise you to review all information related to Sensa®, such as the Sensa Safety Data Sheet before starting any work. These documents can be consulted on the website [www.sensabycosentino.com](http://www.sensabycosentino.com) or by contacting Cosentino SA directly.

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# HEALTH AND SAFETY

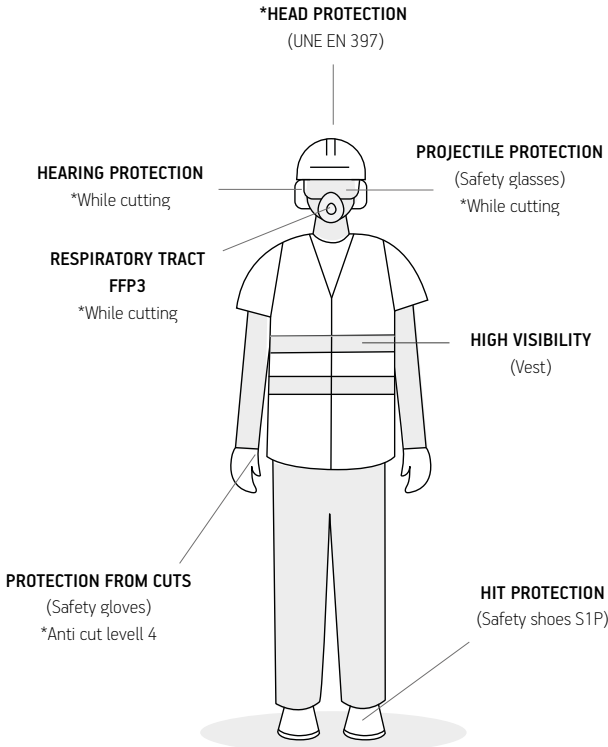
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## Risks associated with handling and transportation:

Silestone®, Dekton®, Eco, Sensa, Scalea, Integrity y Prexury by Cosentino® fabricators and installers must accomplish at least all laws and policies in matter of safety and health, besides the information included in this manual. During material transportation and handling there could be hits, cuts, musculoskeletal disorders, entrapments or injuries by projectiles caused by a incorrect handling, please follow safety instructions detailed in this manual.

## Risks associated with elaboration and transformation:

Elaboration process can involve risk related to cuts, injuries by projectiles, entrapments, high noise levels exposure and chemical substances like crystalline free silica powder. To know more details about these risks and their preventive measures consult to the safety datasheet as well as the good practices guide published By Cosentino. If you don't have it you can request this information to your distributor.



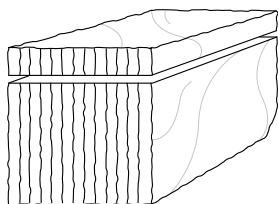
\* The use of helmet and vest is recommended in case the elaboration is carried out in an environment where suspended loads may be present or high visibility is required.

# QUARTZITES

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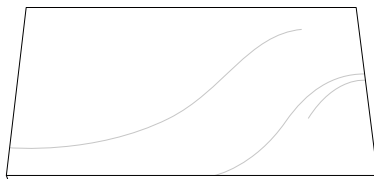
Quartzite is a very hard metamorphic rock, originated through a natural transformation process of sandstone subjected to high temperatures and pressures.

This natural process gives quartzite unique designs of great beauty, extraordinary hardness and a durable composition, making it an exceptional material for kitchen countertops.

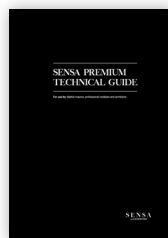


Cosentino selects under strict criteria of aesthetic excellence the natural blocks that are transformed into slabs for subsequent use in various applications, such as kitchen countertops or flooring.

This transformation includes the cutting, resining, polishing and treatment of the different slabs, to achieve designs with all the Sensa guarantees.



*The elaboration of quartzite requires knowledge of the product, its natural characteristics and design possibilities. For this purpose, it is recommended to check that the design complies with the indications defined in this manual and to follow the processing instructions defined in the Sensa Premium Technical Guide.*



WHITE MACAUBAS



# TECHNICAL CHARACTERISTICS OF EACH QUARTZITE

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## White Macaubas Vancouver

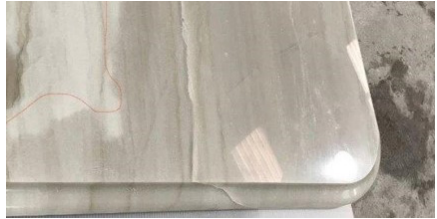
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During the processing of this material, it is necessary to take into account the **high natural porosity** of the material, which will be reflected in the edges.

The edges resulting from cut pieces are not sealed, so the processing water penetrates into the material and moistens the surrounding area.

This moisture should be dried with an industrial dryer prior to the application of Senguard edge protector.

Subsequently, the edges should be protected with Senguard following the Sensa Premium Technical Guide.



# TECHNICAL CHARACTERISTICS OF EACH QUARTZITE

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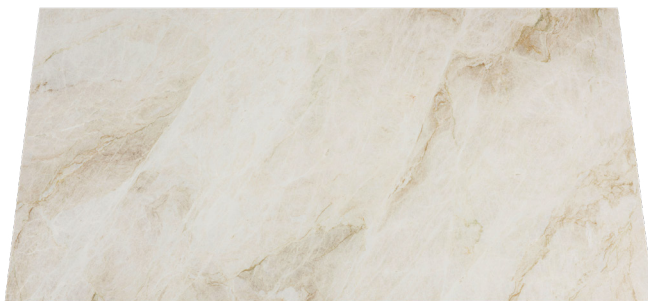
During the processing of this material, it is necessary to take into account the natural **cracks and micro-cracks** that the material presents.

The resulting edges of the cut pieces may present open cracks without resin or chips. These open cracks or chips should be resinated with transparent resin before polishing.

Subsequently, the edges (both polished and unpolished) should be protected with Sendguard following the Sensa Premium Technical Guide.

The handling of this material should be carried out using stiffeners or gap protectors.

The designs of pieces that include hollows or voids should include external supports for sinks and reinforcing rods on the side of the same. Especially for thickness 2cm.



# DESIGN CRITERIA

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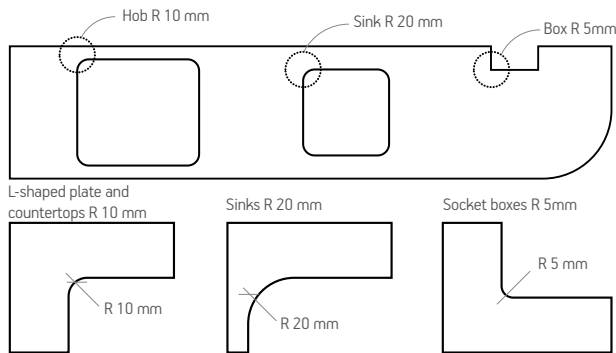
## Minimum radius

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It is mandatory that any inside corner must be rounded.

For recesses intended for sinks or hobs, larger radii are recommended.

Minimum radius of 5mm mandatory for all inside corners.

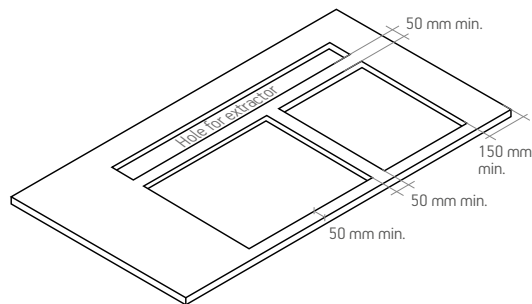


## Minimum distances

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The following distances must be respected:

- The distance between the cutout and the outside edge of the board edge must be at least 8cm.
- The distance between cutouts must be at least 10cm.
- The distance between the cutout and the side of the worktop (joint) must be at least 15cm.





# DESIGN CRITERIA

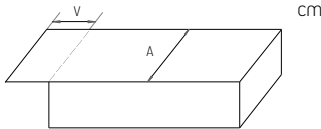
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## Overhangs

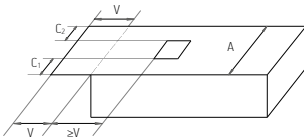
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It is recommended to comply with the following distances according to overhang size.

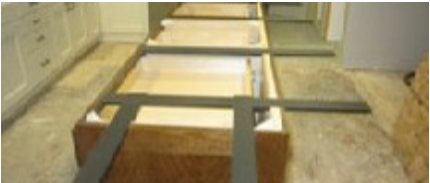
### COUNTERTOP WITHOUT HOLE $V < 10$ cm



### COUNTERTOP WITH HOLE $V < 10$ cm



For larger overhangs, external supports should be added at a distance of no more than 60 cm between them.

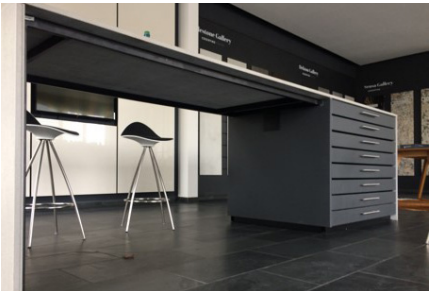


## Bars and legs

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The designs that include Sensa quartzite bars and legs must have a self-supporting structure of metal, wood or similar.

Under no circumstances may Sensa quartzite act as structural elements.



# DESIGN CRITERIA

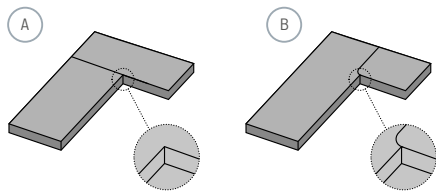
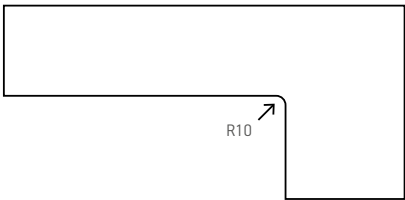
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## L-shaped countertops

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L-shaped countertops should have a rounded inside corner with a minimum radius of 10mm.

It is recommended to include a joint and to be made in two pieces, for more complex designs.

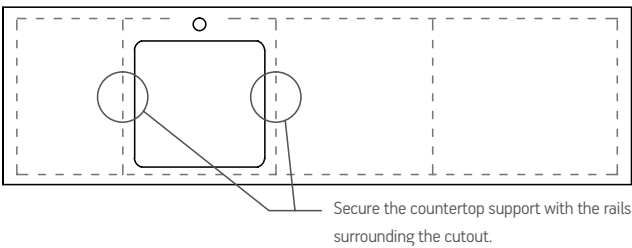
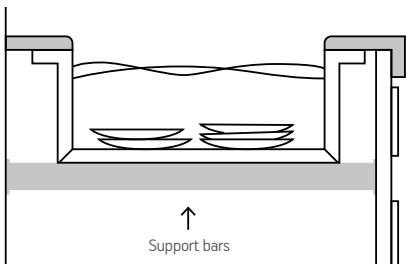


## Sinks

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For the installation of sinks, especially those considered heavy due to their dimensions or composition, it is recommended to install external supports such as strips or bars screwed to the furniture..

**The warranty does not cover sinks assembled with the material.**



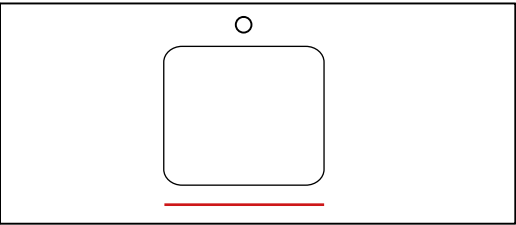
# DESIGN CRITERIA

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## Reinforcing rods

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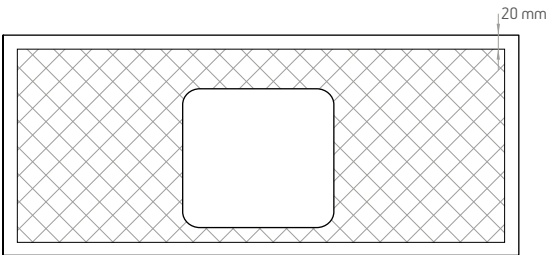
The use of metal bars or rods is recommended to reinforce the weakest areas of the cutouts.



## Mesh

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The back face of Sensa quartzite has a resin-coated mesh to improve the rigidity of the material. This mesh should not be removed, roughed or polished more than 2cm from the contour of the piece.

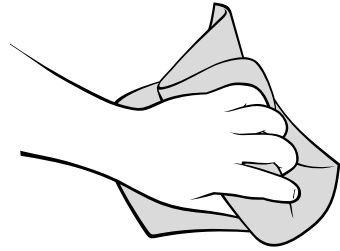


# CLEANING

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For cleaning quartzite, Cosentino® recommends the use of water and neutral soap.

Apply a small amount of neutral soap on the stain and rub with a soft scouring pad until it disappears. Then rinse with water and dry the area.



# HANDLING, TRANSPORT AND INSTALLATION

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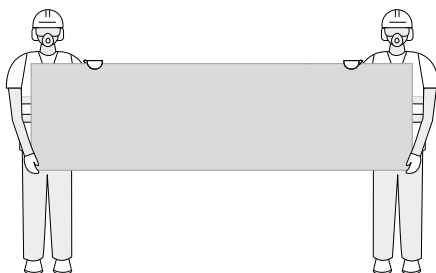
## Movement of the pieces

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The parts must be handled vertically at all times.

Rubi offers very useful tools for the handling of the parts.

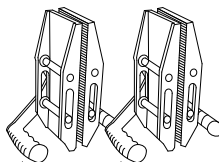
<https://www.rubi.com/en/large-format-transportation-f109>



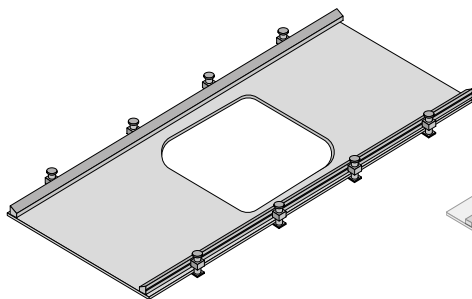
## Support equipment

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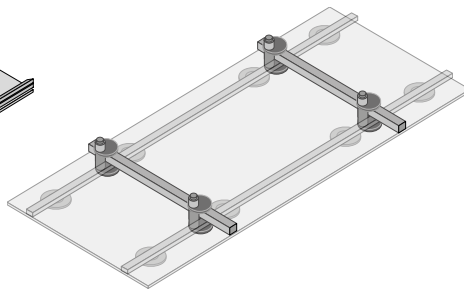
It is recommended to use hole protectors, stiffeners and clamps for those parts that are more fragile due to their size or the size of the sockets.



Clamps



Hole protectors



Stiffeners

# RECOMMENDED TOOLS

## Cutting blades

### ADW QUARTZITE

350 mm



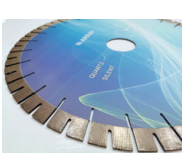
450 mm



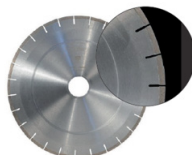
### Tempest



### Italdiamant EVOGRES



### Italdiamant EVOGRES



### Recommended parameters

Disc diameter (mm)	300	350	400	450
Rotational speed* (r.p.m.)	2.500	2.200	2.000	1.800
Feed rate	0.3-0.7m/min			
Exit speed	0.3 m/min			
Immersion speed	0.2 m/min			
Cutting speed 45°	0.3 m/min			

### Machine requirements



Water flow rate  
focused on the pill



Well leveled support  
base



Larger size support for  
the table



Sharpen the diamond  
before each job



Disc depth from 3 to  
5 mm



Use a large flange

# RECOMMENDED TOOLS

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## Drills

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Italdiamant EVOGRES



Solestone



### Recommended parameters

Slab thickness	8 mm	12 mm	20 mm
Feed rate (mm)	200	190	180
Output speed (mm/min)	70	70	70
Rotational speed (r.p.m.)	4.500	4.500	4.500
Cutting cutter rotation speed (r.p.m.)	6.000-7.500	6.000-7.500	6.000-7.500

### Notes

- Always check and follow your supplier's recommendations.
- It is recommended to cut the cut in two times.

### Machine requirements



Water flow rate  
focused on the pill



Well leveled support  
base



Sharpen the diamond  
before each job



Larger size support  
for the table





**SENSA**  
by COSENTINO®

**COSENTINO**

Baza a Huercal - Overa, km 59 / 04850 - Cantoria - Almeria (Spain)

Tel.: +34 950 444 175 / [info@cosentino.com](mailto:info@cosentino.com) / [www.cosentino.com](http://www.cosentino.com)

[www.sensabycosentino.com](http://www.sensabycosentino.com) / [www.silestone.com](http://www.silestone.com)

 GrupoCosentino  Cosentino\_ES



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

\* See specific warranty conditions.

\*\* Get information on NSF-certified colors from [www.nsf.org](http://www.nsf.org)