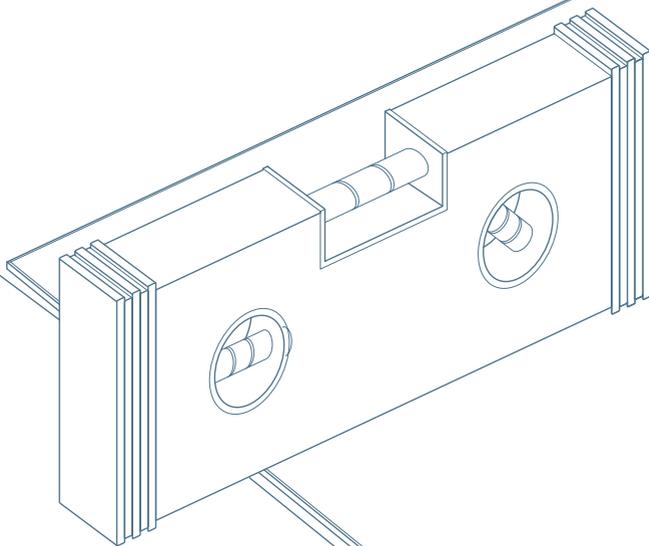


Flooring Installation Manual

DEKTON MANUAL



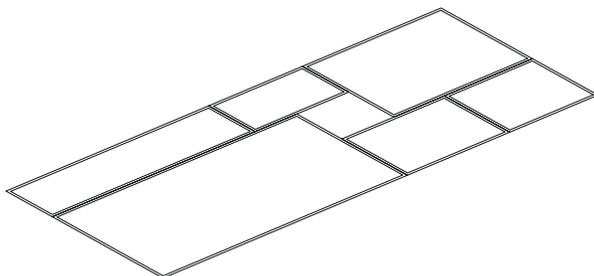
A product designed by **COSENTINO**





CONTENTS

FEATURES AND FORMATS	6
FLOOR FORMATS	6
RECOMMENDATIONS OF THICKNESS AND FORMAT ACCORDING TO USES	7
FITTING	8
BASIC SUPPORT CONDITIONS	8
BASIC CHARACTERISTICS OF ADHESIVES	8
JOINTS	9
APPLICATION	10
PALLETISING AND TRANSPORTATION OF THE MATERIAL	10
CUTTING ON SITE	11
FITTING AND ADHERING PIECES	11
CLEANING AND MAINTENANCE	13



IN THIS DOCUMENT, COSENTINO
LISTS WORK GUIDLINES AND GOOD
PRACTICE FOR THE USE OF DEKTON®
FITTED IN EXTERIORS AND INTERIORS
FOR HORIZONTAL SURFACES.

It is recommended to review the rest of the Dekton® information, such as
elaboration manuals or the section on safety, before commencing any tasks.
These product documents can be consulted on the website www.dekton.com
or contact Cosentino S.A.

FEATURES AND FORMATS

By its high performance, and with proper installation, Dekton® can be fitted in large formats ensuring good performance including areas of high traffic and/or heavy loads. It should be taken into consideration that support conditions are fundamental in order to ensure a good installation.

The appropriate format, as well as the thickness of Dekton® will depend on local regulations, project requirements and will need a verification by the project designer. For more technical information about Dekton® you can consult the product technical specifications.

SLAB FORMAT	UP TO 3,200 x 1,440 mm
THICKNESSES	8 – 12 and 20 mm
FINISHES	Smooth, Textured, Polished and Dekton Grip (our solution for wet areas).

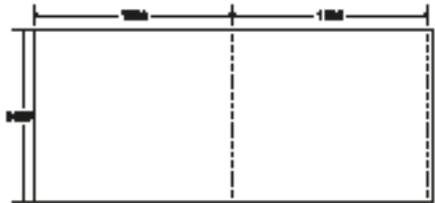
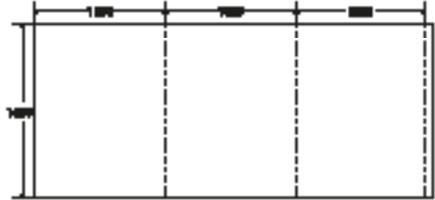
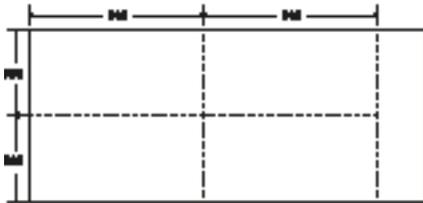
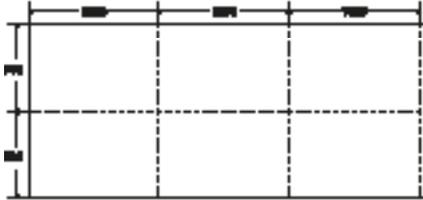
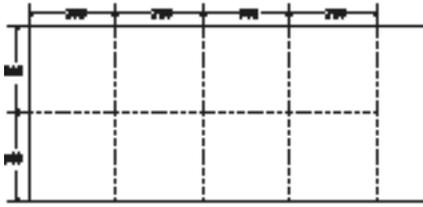
FLOOR FORMATS

The following are the recommended formats, thanks to which the maximum usage of Dekton slabs can be achieved.

FORMATS	Number of PIECES
70 x 70	8
70 x 105	6
70 x 140	4
70 x 158	4
70 x 320	2
105 x 140	3
140 x 140	2
140 x 158	2

It is advisable to pay special attention to the colours with veins, as cutting must be studied to achieve the desired aesthetic effect.

Note 1: The cutting disk accounts for 3mm



RECOMMENDATIONS OF THICKNESS AND FORMAT ACCORDING TO USES

SLAB THICKNESS	HOME	PUBLIC SPACES		
	PEDESTRIAN AREAS	PEDESTRIAN AREAS	VEHICLE ACCESS AREAS	
8mm	tabla completa	140 x 140 cm	OCCASIONAL MAINTENANCE VEHICLE ACCESS 70 x 70 cm	MOTORISED TRAFFIC ●
12mm	tabla completa	tabla completa	tabla completa	70 x 70 cm
20mm	tabla completa	tabla completa	tabla completa	140 x 140 cm

● NOT RECOMMENDED

(*) thickness and format should be calculated according to loads.

FITTING

BASIC SUPPORT CONDITIONS

The support structure on which Dekton is due to be fitted must be appropriate for withstanding loads and responding to anticipated needs. It must be dry, stable, resistant to compression, even and level (maximum 3 mm measured with a 2 m metallic ruler). If not, it must be smoothed over or levelled properly. It must be free of dust, grease, oil, wax, varnish, stripping agents, curing liquids, or any other product that may affect adherence.

If necessary, preliminary cleaning must be performed (sanding, suction, scrubbing...)

There are many types of different support structures, in particular:

A) WEAK OR DAMAGED CONCRETE

If possible, raise the paving level. It is advisable to do this using a specific product for this purpose. If this is not possible, a consolidant can be used to reinforce the existing concrete.

B) CERAMICS:

If the ceramic is well adhered, the new Dekton® covering can be fitted over the top, using an appropriate primer prior to applying the adhesive.

If the ceramic is not in good repair, it should be removed and work completed on the underlying base.

C) CONCRETE IN GOOD REPAIR

Clean and proceed to fit the Dekton® using the recommended adhesive.

For other supports, consult the manufacturer's technical department.

BASIC CHARACTERISTICS OF ADHESIVES

Dekton® has a low expansion coefficient, and a cementitious adhesive is therefore sufficient as described below. Conventional cement similar to that

used for natural stone should not be used, because the material is non-porous and evaporation setting is ineffective.

*The use of S1 and S2 adhesive for large formats will depend on the recommendations of each manufacturer.

Cementitious adhesive under EN 12004 (for use with serrated spatula)	EXTERIOR		INTERIOR	
	Piece < 0,5 m ²	Large format > 0,5 m ² (for example, 70 x 70 cm or more)	Piece < 1 m ²	Large format > 0,5 m ² (for example 100 x 100, 100 X 140 cm,...)
HORIZONTAL (paving, flooring...)	C2ES1	C2TES2	C2ES1	C2TES2

JOINTS

To achieve good joins follow manufacturer instructions, making sure to respect drying times for the adhesive used in order to form the paving, and filling the join properly.

A) FITTING JOINTS

It is not advisable to fit Dekton® pieces close together, always respecting a fitting joints of at least 2mm, taking material dilation into account. CG2 at least must be used as per EN 13 888.

B) STRUCTURAL JOINTS

These must always be observed, both on the support and the covering. These joints must be sealed using elastic materials or appropriate ready-made profiles. We recommend 3-4mm.

C) EXPANSION JOINTS

In areas of approximately 25 m², reducing the area under extreme conditions of changes in temperature or for panelling to 20 or 10 m² (as required). To fill these expansion joints silicone can be used in the same colour as the adhesive mortars.

D) OUTER JOINTS

With walls and pillars 4 mm is recommended.

APPLICATION

PALLETISING AND TRANSPORTATION OF THE MATERIAL

To facilitate storage on-site and transportation of stock, Dekton® pieces are supplied horizontally in frames or especially designed wooden cases.

The material is then strapped to the box, and placed on a non-slip surface to prevent sudden movements.

Whenever the flooring is a unique format, it will be supplied in pallet sized boxes weighing no more than 1,500 kg. The number of pieces per cage is:

PIECE MEASUREMENTS	Units	
	8mm	12 mm
140x140 cm (56"x56")	25	18
140x70 cm (56"x28")	50	36
70x70 cm (28"x28")	54	38

If larger in size or with variable formats, vertical trestles are used, with the pieces in the correct order.

For the handling of the pieces on site, all necessary safety measures must be taken when unpacking and moving then one by one, using appropriate support methods. It is particularly important to use suction cups suited to the size, weight and surface finish of the material.

We advise the use of pump action glass maker's suction cups, capable of withstanding 70-150 kg. We recommend the Octopus 150 suction cup, ideal for handling large-format pieces, holding 150 kg per cup.



ONE SITE PIECE CUTTING

Although Cosentino can supply pieces in bespoke measurement, it is possible to cut them on site to deal with design changes, corners, pillars, etc.

For pieces with internal corners a radius of at least 5mm should be used.

We recommend consulting the Dekton® cutting manual for basic recommendations and suggested tools.

Pieces will always include a minimal bevel



Cutting machine



Dry cutting for large-format pieces



Cutting corners



Drilling

FITTING AND ADHESION OF PIECES

1) Fitting is completed using the double adhesion technique (adhesive on both surfaces) to ensure perfect adhesion between the pieces and preventing gaps from forming. **WE DO NOT RECOMMEND fitting with "blobs" or "patches".**



2) Combing the adhesive over the support with an appropriately sized spatula ensures the correct thickness and proper distribution over the surface, including edges.



3) Always leave a minimum gap of 2mm between pieces. It is advisable to use cross tabs designed for this purpose. Edges must always be micro bevelled.



4) The Rubi Tile Levelling kit or wedges should be used for large format pieces.



5) For the final adjustment, use movements like the ones shown in the photograph, rather than "hammering".

6) To fill the joints, use an appropriate grouting material. Spread the adhesive paste using a flexible combed spatula as per manufacturer instructions.

For underfloor heating follow the above guidelines, bearing in mind that the adhesive must be appropriate for this type of application.

CLEANING AND MAINTENANCE

Once work is complete on site it is essential to perform final cleaning in order to:

- Remove excess joint filler.
- Remove dirt from work.
- Prevent dirt from fitting from adhering to the surface.

There are products available on the market for this purpose, cement-removers and deep cleaners. These are acid solutions mainly used to remove excess

cements products. To remove excess epoxy products it is important to use an organic solvent such as acetone. This is applied following manufacturer instructions (e.g. Fila) and taking the necessary precautions for safe use.

For further information consult the manual: "Dekton® Ultracompact Surfaces Floor Cleaning and Maintenance".

LIABILITY WAIVER

This manual has been written to provide informative recommendations for the design and fitting of Dekton. The information given here must be checked for each project by a qualified technician or project management.

For any questions or queries refer to the website www.dekton.com or contact Cosentino, S.A.



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