

Cosentino Facades

COSENTINO FACADE
FIXING SYSTEMS



Pocket Version

Cosentino Facades

Cosentino Facades

→ 06

01 DEKTON BY COSENTINO

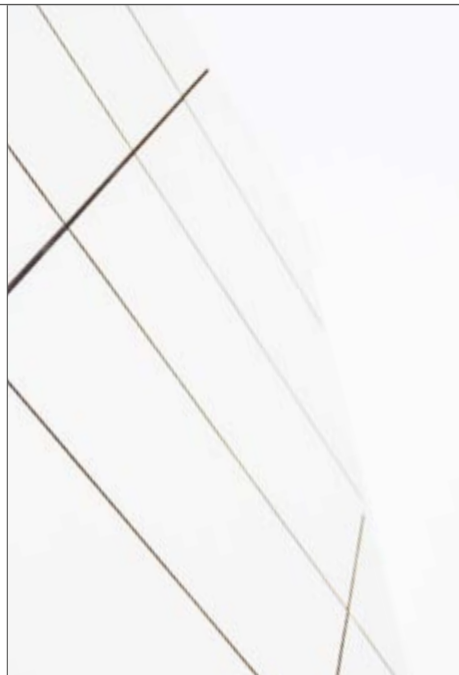


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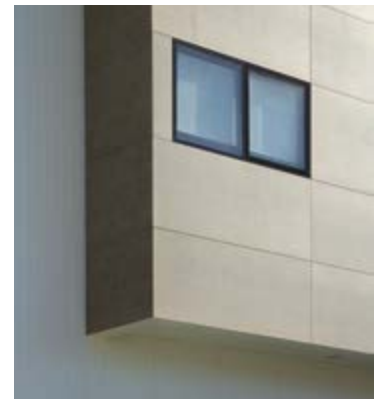
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OF FIXING

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4.1

VENTILATED
FACADE



- DKT1** Hidden undercut drill holes (Keil and Fischer) → 50
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FACADE



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WALL



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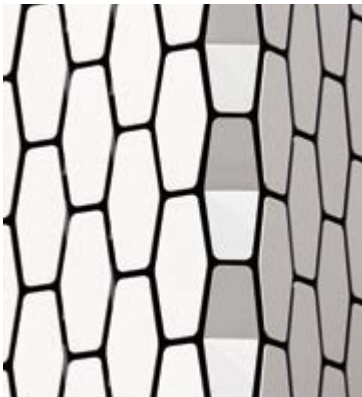
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To inspire people through innovative and sustainable spaces.

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05

PROJECT
QUOTATION



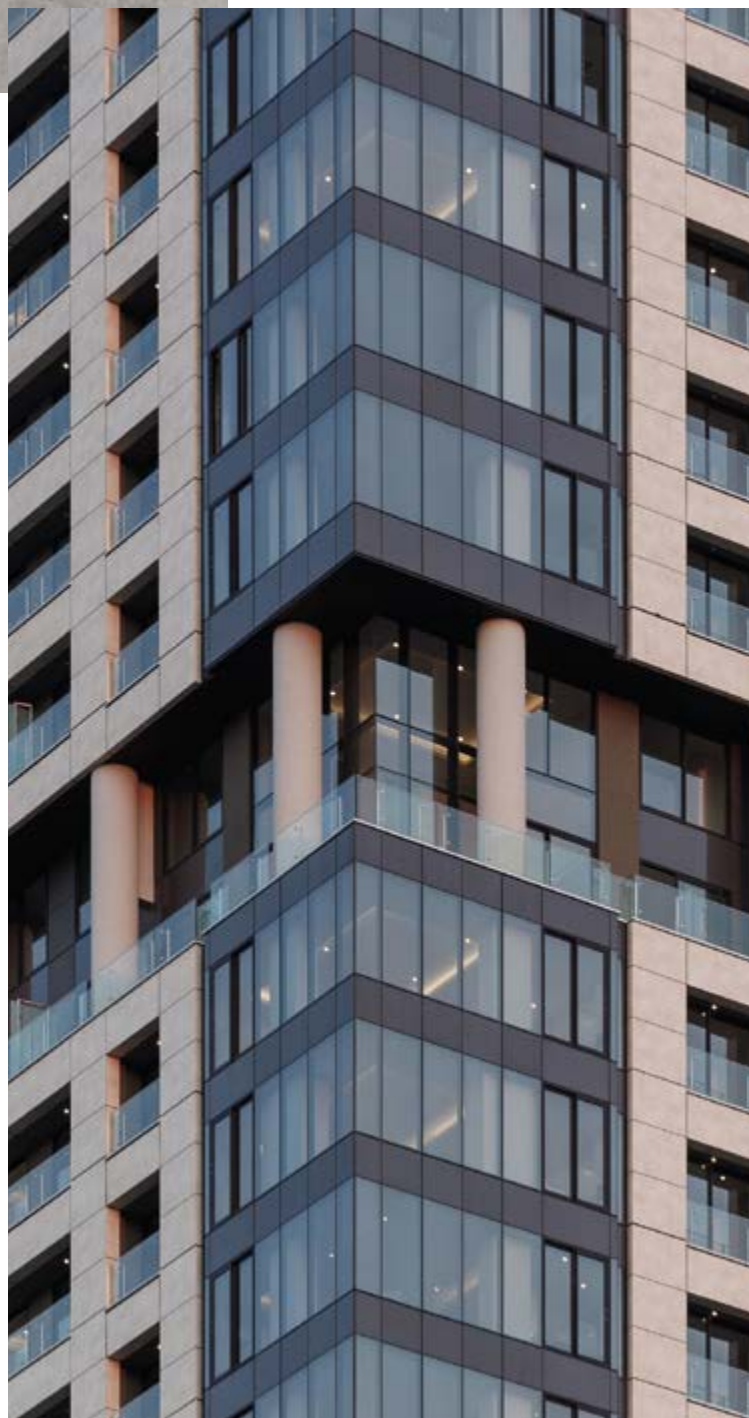
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In the span of a few hours, Dekton emulates what nature took thousands of years to create, thanks to the exclusive TSP Technology.

Product Description & Characteristics

Dekton® is an ultra-compact material, manufactured using a 25,000 ton press ($>450 \text{ kg/cm}^2$) and a sintering process at around $1,200^\circ\text{C}$, with useful dimensions of $3,200 \times 1,440 \text{ mm}$, thicknesses of 20 / 12 / 8 and 4mm (it has a safety mesh glued on the reverse for 8, 12 and 20 mm thick ventilated facades and all 4mm thick applications) Fire reaction A2 s1 d0 (according to EN 13501), unaffected by UV radiation ($\Delta E < 1$ tested in Xenon chamber to 5,000 h), with thermal conductivity $< 0.5 \text{ W/m}^\circ\text{C}$ (according to EN 12664), Specific heat $< 700 \text{ J/kg}^\circ\text{C}$ (measured with DSC), Surface resistivity $< 65 \text{ T}\Omega/\text{m}$ (at 1000V) and must fulfil these functional mechanical properties according to EN 10545: Bending strength $> 45 \text{ N/mm}^2$, Density $> 2,400 \text{ KG/m}^3$. Porosity $< 0.05\%$. Linear expansion $< 10^{-6}^\circ\text{C}^{-1}$. Suitable for outdoor applications even in aggressive environments (petrol, diesel, various solvents) and can be cleaned with water or other products using pressurised water, with commercial cleaning products or, in the case of persistent stains, specific chemical products (e.g. sulphuric acid, bleach, hydrogen peroxide, acetone, caustic soda).



The production takes a number of hours, but a manufacturing plant can produce up to 2,000 slabs a day.

Composition

Dekton® is made from inorganic materials, which naturally exist in over 90% of the Earth's crust.

- Dekton® is a totally inorganic material.
- Dekton® uses inorganic materials not only for the bulk of the product but also for pigmentation and veining.
- More than 20 different inorganic materials are used to create a Dekton® slab.



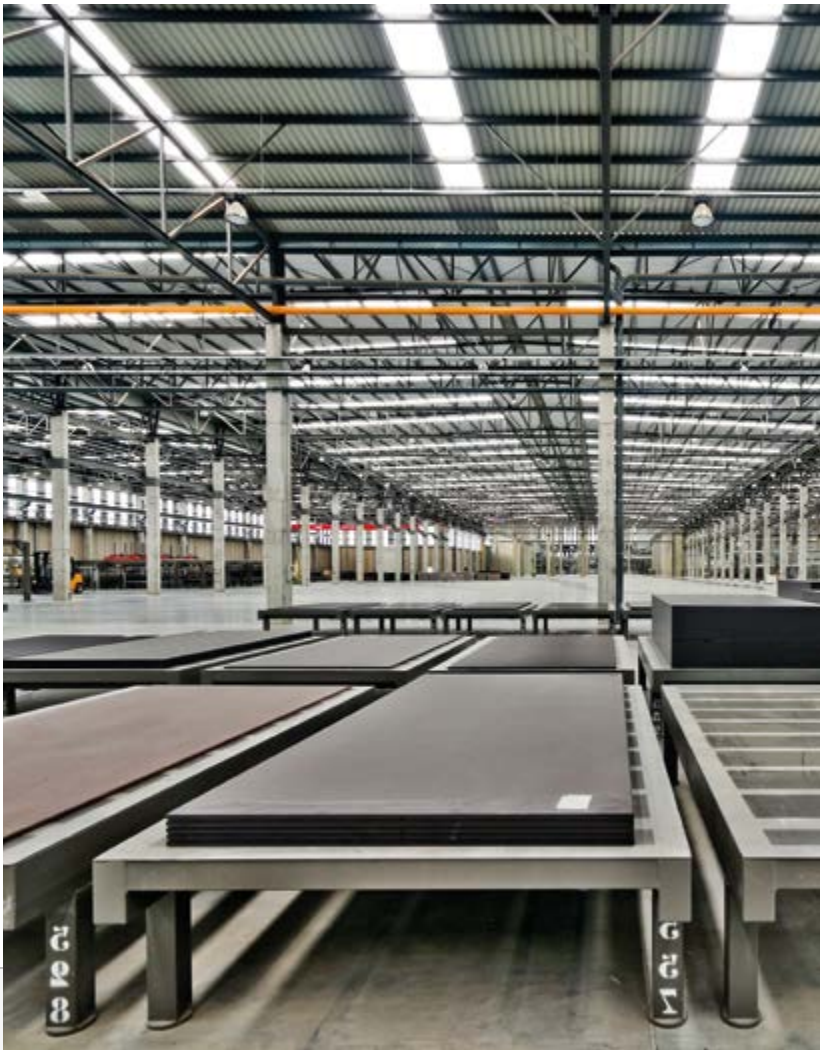
Production

Dekton® uses exclusive TSP Technology (Sinterized Particle Technology), a high tech process which represents an accelerated version of the metamorphic change that natural stone undergoes when subjected to high temperatures and pressure over thousands of years. TSP technology synthesises truly innovative procedures from the most advanced technology industries. This evolution represents a technological and industrial leap capable of generating a new process, a revolutionary material and a leading product.

The production process takes approximately 4 hours and Cosentino's manufacturing plant can produce up to 4,000 slabs a day.

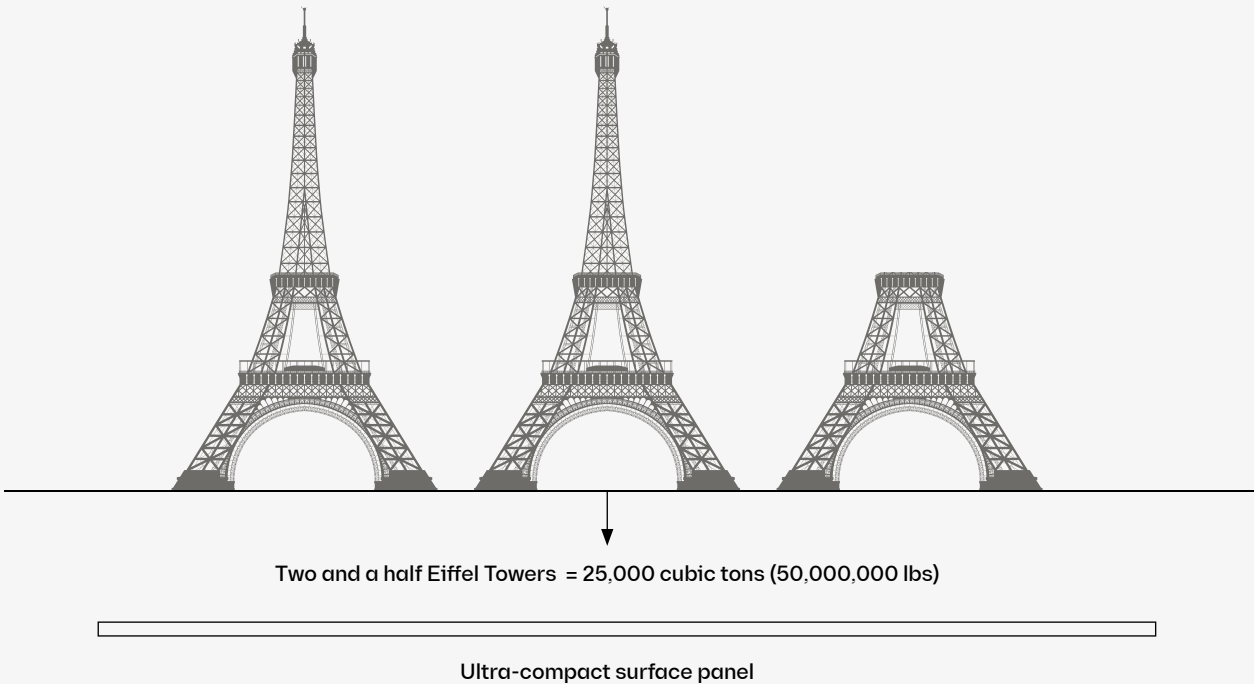
From start to finish the process includes the following steps:

1. Decontamintaion of the raw materials.
2. Mixing of materials.
3. Addition of pigments
4. Distribution of material on conveyor belts.
5. Volume decoration process.
6. Compaction.
7. Drying and secondary decoration.
8. Sintering.



Compaction

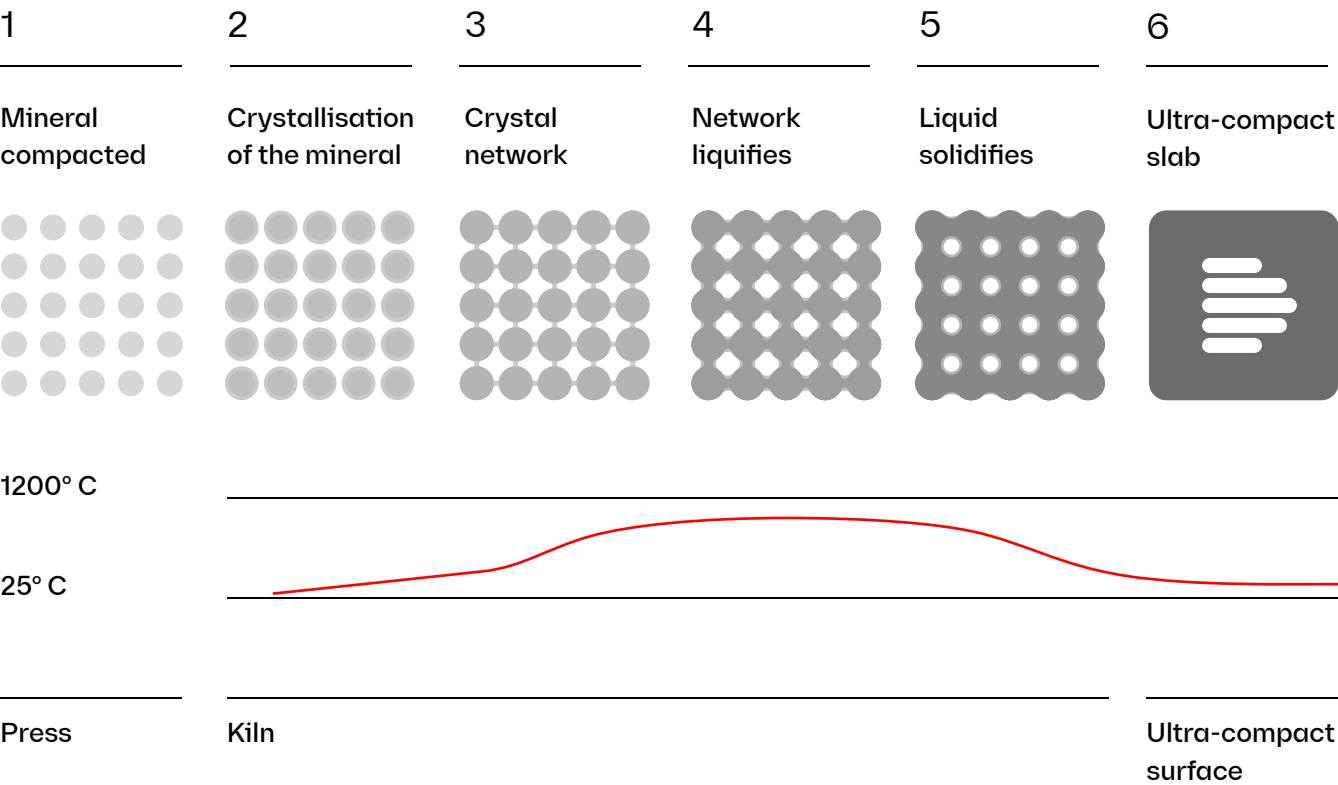
Compaction using a unique press made specifically to manufacture ultra-compact panels. Panels are pressed at 25,000 cubic tons (50,000,000 lb.). This compaction helps to align particles to achieve zero-porosity by forcing air and moisture out, hence the need for the homogeneous particle sizes. Superficial textures (slate, wood, leather, linen, etc...) can also be added during the compaction stage.



Sintering process

During this process, the transformation of the raw materials and pigments takes place. By using heat, reactions are controlled so that the correct synthesis path is followed.

- The kiln is 200 metres (218 yards) long.
- Temperatures reach approximately 1250°C (2300 °F).
- The total process time depends on the thickness of the slab (around 4 hours).



Dekton® Protek

For use in ventilated facades, Dekton® has a reinforcing mesh on the back to prevent pieces from falling off in the event of accidental breakage during installation or maintenance.

Standard applications

Dekton® is a material suitable for multiple applications, both interior and exterior, in different scales and with infinite design possibilities.



**Outdoor
worktops**



**Kitchen
worktops**



**Flooring for
bathrooms and pools**



**Exterior walls
& facades**



**Bathroom
surfaces**



**Outdoor
flooring**



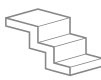
**Interior
walls**



**Bathroom
walls**



**Indoor
floors**



Stairs

Some facade applications

- Ventilated facades.
- Adhere facades.
- Cladding on EIFS systems.
- Facades of industrialized systems.
- Curtain wall.
- Facade gap filling.
- Facade panelling (e.g. insulation panels, honeycomb panels, etc.)
- Facade complements.

Product features

Dekton® has all the technical features required for any hard surface, even in a demanding application such as a facade.



Fireproof material

Dekton® can withstand high temperatures without burning, scorching or cracking. European Standard EN 13501 and ASTM E84 testing, classifies Dekton® as a noncombustible material.



Highly resistant to ultraviolet (UV) light

Dekton® is highly resistant to UV light and will not fade or degrade over time in any kind of outdoor application.



Superior mechanical resistance

Dekton's® variety of thicknesses allow it to be used in applications where resistance to wind or impact are a project requirement.



Low water absorption

Dekton's® water absorption is negligible so it does not undergo any expansion movement due to it.



Colour durability

Dekton's® control of pigmentation and decoration in the manufacturing process provides better colour consistency from one slab to another, resulting in a long lasting product that will not fade over time.



Scratch resistant

Dekton® is one of the most scratch-resistant surfaces on the market.



Dimensional stability

Dekton® expansion is minimal so it can be installed with thin joints between panels. These joints will keep their width in all conditions.



Resistance to freezing and thawing

Dekton® resistance to durability tests in freezing and thawing situations and its application in various weather conditions prove its high performance.



Abrasion resistant

Dekton® is even more resistant to abrasion than granite and porcelain, making it the ideal surface for facades or high-traffic flooring in commercial applications.



Maximum fire and heat resistance

Dekton® has been successfully installed on facades in areas exposed to high temperatures.



Easy cleaning and low maintenance

Most graffiti can be removed from Dekton® with standard cleaning products. Maintenance costs are reduced.



Stain resistant

Dekton® is resistant to stains from a variety of sources so they can easily be removed without altering their finish.

Advantages of Dekton® facade system

Dekton® offers clear advantages in its application on facades.

1 Large format

Thanks to Dekton®'s large format of up to 3200 x 1440 mm, it gives freedom to the design of the facade and the ability to use different formats in order to make the best use of the material.

4 Endless design and colour possibilities

The variety of Dekton® colours allows for a wide range to be used as another design tool, maintaining uniformity and character.

7 Solutions for joints

Dekton® allows for angled joints with straight or bevelled edges, and even with bespoke pieces to create a monolithic look, thanks to its resistance to expansion.

2 Wide range of thicknesses

The variety of Dekton® thicknesses available, 4, 8, 12 and 20 mm, allows you to apply thicker or thinner pieces as required. This maintains the consistency of the whole and gives each section the required technical features.

5 Adaptation to complex geometric shapes

The possibility to produce Dekton® in simple or complex pieces makes it a versatile material for covering complicated volumes.

8 Unlimited shapes

Architectural plans with different gradients and complex geometrics can push materials to their limits. Few of them can work under traction and compression in the face of inclement weather and remain unchanged and requiring little maintenance over time.

3 Colour perfection

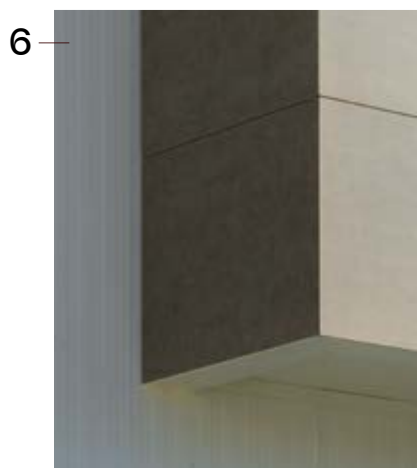
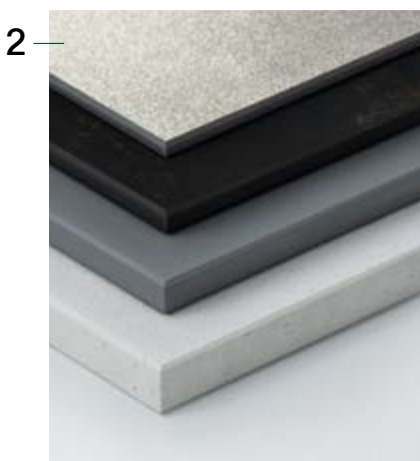
Thanks to a rigorous system of measurements and quality controls from its production onwards, Dekton® ensures the stability of its tone throughout the facade, making it possible to use the material in large panels while maintaining visual harmony.

6 Flat surfaces: visual continuity

The excellent flatness offered by Dekton® ensures that facade surfaces are virtually free of any gaps. This means that it is ideal for promoting design around it, where visual continuity and uniformity are key.

9 Uniform colour

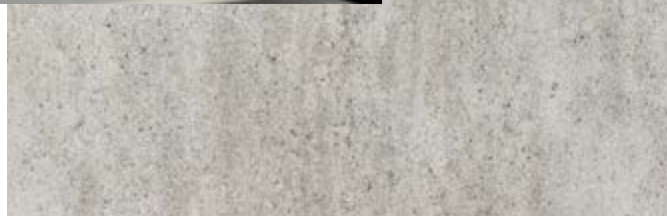
Dekton® is coloured throughout the whole mass of the product allowing better integration of the edges with the surface of the piece.



Technical specifications

Key technical data

- Density $2.52 \pm 4 \text{ \% g/cm}^3$
- Average bending strength $\geq 45 \text{ N/mm}^2$
- Modulus of elasticity: $84,000 \text{ N/mm}^2$
- Linear thermal expansion $5.9 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$
- Water absorption 0.1%. (Bla Group)
- Porosity 0.2%.
- Maximum expansion 0.1 mm/m.
- Thermal conductivity $0.483 \text{ W/m }^\circ\text{K}$
- Reaction to fire. A1/A2 s1 d0 (with mesh)
EN 13501-1 2018 and NFPA/
IBC class A ASTM E 84.



Technical characteristics

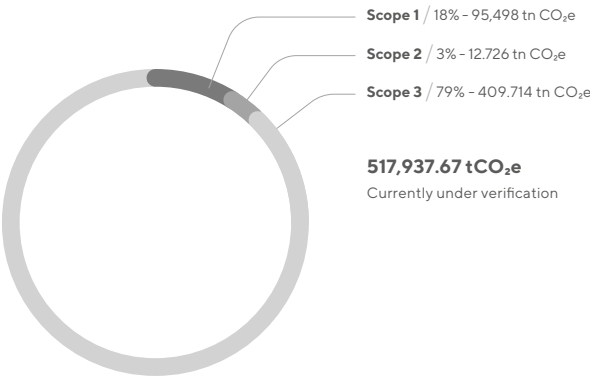
According to standard EN-14411

TEST STANDARD	DECISION	UNIT	FAMILY I	FAMILY II	FAMILY III	FAMILY IV
Bending strength and breaking load ISO 10545-4	Average bending strength	N/mm ²	46	45	55	46
	Average breaking load	N	2,548	2,313	2,356	2,568
	Average breakage force	N	14,966	13,559	13,818	15,620
Water absorption, open porosity and densities ISO 10545-3	Boiling water absorption	%	0	0.1	0.1	0.1
	Vacuum water absorption	%	0.1	0.1	0.1	0.1
	Open porosity	%	0.2	0.2	0.2	0.2
	Apparent relative density	g/cm ³	2.51	2.61	2.53	2.44
	Apparent density	g/cm ³	2.50	2.61	2.52	2.44
Deep abrasion resistance ISO 10545-6	Abraded volume	mm ³	125	106	115	119
Determination of dimensions and surface appearance ISO 10545-2	Length and width	%	0.11/-0.18	0.04/-0.08	0.04/-0.04	0.02/-0.02
	Thickness	%	0.50/-0.50	4.95/-2.20	0.53/-0.53	-1
	Straightness of sides	%	0.01/-0.01	0.03/-0.03	0.01/-0.03	0.02/-0.02
	Orthogonality	%	0.07/-0.16	0.04/-0.09	0.21/-0.21	0.08/-0.08
	Centre curvature	%	0.04/-0.08	-0.06	-0.06	-0.07
	Edge curvature	%	0.06/-0.06	0.02/-0.04	0.02/-0.04	0.02/-0.02
	Warping	%	-0.11	-0.07	-0.06	-0.04
	Surface appearance (Tiles default)	%	100	100	100	100
Determination of impact resistance ISO 10545-5	Average coefficient of restitution	-	0.85	0.85	0.85	0.92
Determination of linear thermal expansion ISO 10545-8	Expansion between 30–100°	°C ⁻¹	6.5·10 ⁻⁶	5.1·10 ⁻⁶	6.3·10 ⁻⁶	5.8·10 ⁻⁶
Determination of thermal shock resistance ISO 10545-9	Damage	-	Pass/no damage	Pass/no damage	Pass/no damage	Pass/no damage
Determination of moisture expansion ISO 10545-10	Maximum expansion	mm/m	0.1	0.1	0.1	0.1
	Medium expansion	mm/m	0.0	0.0	0.0	0.1
Determination of frost resistance ISO 10545-12	Damage	-	Pass/no damage	Pass/no damage	Pass/no damage	Pass/no damage
Determination of chemical resistance ISO 10545-13	CINH ₄ /Cleaning products	Class	A (no damage)	A (no damage)	A (no damage)	
	Bleach/Pool salts	Class	A (no damage)	A (no damage)	A (no damage)	
	HCl (3% v/v)	Class	LA (no damage)	LA (no damage)	LA (no damage)	
	Citric Acid (100g/l)	Class	LA (no damage)	LA (no damage)	LA (no damage)	
	KOH (30 g/l)	Class	HA (no damage)	HA (no damage)	HA (no damage)	
	HCl (18%)	Class	HA (no damage)	HA (no damage)	HA (no damage)	
	Lactic Acid (5%)	Class	HA (no damage)	HA (no damage)	HA (no damage)	
	KOH (100 g/l)	Class	HA (no damage)	HA (no damage)	HA (no damage)	
Determination of stain resistance ISO 10545-14	Green staining agent	Class	5	5	5	5
	Red staining agent	Class	-	-	-	-
	Iodine (solution)	Class	5	5	5	5
	Olive oil	Class	5	5	5	5

Sustainability in the factory

Carbon Footprint

One of the main milestones in 2019 has been the initial calculation of our organisation’s carbon footprint. The carbon footprint has been calculated based on the company’s results from 2018, taking into account both direct emissions from sources monitored by the organisation in its activity (scope 1), and indirect emissions from purchasing electricity (scope 2), as well as other indirect emissions that mostly come from the extraction and provision of raw materials by our suppliers (scope 3). This means we have been able to identify the points in the process where the most emissions are created and their impact is greatest. As a next step, for 2020 we will have a tool that enables us to define goals for reducing, offsetting and neutralising GHG emissions and energy consumption, focusing on the short, medium and long term. These goals will be included in the Cosentino Group’s “Strategic Plan for reducing, offsetting and neutralising CO₂ emissions” (currently under development). This document will not only contain the company’s strategic direction, but also the carbon footprint calculations from 2019.



Expected Evolution

Short Term 2020-21

Sustainable Mobility Plan.
Projects for reduction, compensation and neutralisation of emissions.

Mid-Long Term 2021 onwards

Feasibility study for progressive replacement of natural gas with biofuels.
Feasibility Study for CO₂ capture and storage.

CARBON FOOTPRINT ACTIONS

With the projects and measures currently underway, it estimates an annual reduction in CO₂ emissions of 15,500 tons/year:

- Process improvement plan / Efic. Energy
- Emissions compensation projects.

It is necessary to involve the entire value chain:

- ISO 20400 sustainable purchases. Tool to audit and value our suppliers.
- Large-scale compensation project, involving suppliers.

Enviromental
Product Declaration

This document contains the Dekton® Construction Environmental Product Declaration (EPD) ® and the results of its Life Cycle Analysis (LCA), which was completed 28/06/2016. This EPD is intended both for industrial customers as well as end users. This study was conducted in order to understand the environmental impact of this worktop throughout its entire life-cycle (from cradle to grave). In other words, the results reflect the analysis of the production, transportation, and installation stages, use and end of life. Other aims of this study are the implementation of a systematic process of continuous improvement for all the phases of this cycle and to publish an Environmental Product Declaration (EPD) with the results obtained. This study was conducted according to the following standards:

- 1. General programme instructions for the International EPD® System (Rev. 2.5 2015/05/11).
- 2. Product Category Rules (PCR) for preparing an environmental product declaration (EPD®) for product group “Construction products and CPC 54 construction services” (Multiple UN CPC codes 2012:01 Construction Products and Construction Services (version 2.1).



EPD®-SYSTEM

- EPD® No. S-P-00916 / Environmental Product Declaration according to ISO 14025 and UNE EN 15804 2012 +A2 2019
- Completion date: 01/10/2016
Renewal date: 09/12/2021
Valid until: 08/12/2026.
- Date completed: 01/10/2016 / Validity: 5 years / Valid until: 01/10/2021
- Based on PCR 2012:01 Construction Products and Construction Services version 2.1
- Geographical scope of the EPD: International

Description of stages of the system

PRODUCT STAGE					CONSTRUCTION STAGE		USER STAGE					END OF LIFE STAGE				BENEFITS & BURDENS OUTSIDE THE LIMITS OF THE SYSTEM	
A1. Raw Materials	A2. Transportation	A3. Production	A4. Transportation	A5. Installation	B1. Use	B2. Maintenance	B3. Reparation	B4. Substitution	B5. Rehabilitation	B6. Energy Use	B7. Water Use	C1. Demolition	C2. Transportation	C3. Waste Treatment	C4. Waste Disposal	D. Reuse, Recycling & Recovery	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

X: included; MND: Module not declared

All the values in these tables are related to the functional unit of the study (one ton of product). Tables 5, 6 and 7 describe the environmental performance, use of resources and waste management of Dekton, always expressed in values per functional unit. None of the materials used for Dekton are on the ‘Candidate List of Substances of Very High Concern’ (<http://echa.europa.eu/es/candidatelist-table>).

The units, indicators of environmental impact and the conversion factors used are those set out in ‘Appendix A of the MSR 1999:2’ (Rev.1.1 dated 2005/9/25) and those set out in the CML-IA 3.0 methodology (<http://cml.leiden.edu/software/data-cmlia.htm>) for calculating environmental impact. This methodology is fully developed and used at a European level thanks to the reliability of its data and its scientific bases which are supported in the methodology and procedures set out by Guinée et al. (2001). To calculate the primary renewable energy consumed, the Cumulative Energy Demand (CED) methodology developed by Frischknecht et al. has been used. (2007).

The impact categories calculated are in accordance with those set out in Multiple UN CPC codes 2012:01 Construction Products and Construction Services (version 2.1) and the results were divided depending on the stages and modules described in section 4. The latest available version of SimaPro software (SimaPro 8.0.3.) was used to calculate this data. The calculated impacts are potential and always consider standard operating conditions.

Enviromental performance per functional unit

PARAMETERS	PRODUCT STAGE	CONSTRUC TION STAGE	USER STAGE							END OF LIFE STAGE				D. REUSE, RECYCLING & RECOVERY	
	A1 - A2 - A3	A1. Transportation	A2. Installation	B1. Use	B2. Maintenance	B3. Reparation	B4. Substitution	B5. Rehabilitation	B6. Energy Use	B7. Water Use	C1. Demolition	C2. Transportation	C3. Waste Treatment	C4. Waste Disposal	
Abiotic resources depletion (elements) (kg Sb eq.)	1.7E-03	1.83E-07	0	0	1.13E-08	0	0	0	0	5.80E-10	0	1.2E-09	0	2.38E-08	-1.2E-04
Abiotic resources depletion (fossil fuels) (MJ.)	1.8E+04	1.93E-03	0	0	1.95E-01	0	0	0	0	2.87E-02	0	1.2E+01	0	5.45E+01	-1.8E+01
Global Warming (kg CO ₂ eq.)	1.2E+03	1.48E-02	0	0	1.33E-00	0	0	0	0	1.92E-03	0	9.4E-01	0	4.00E+00	-1.3E+00
Ozone depletion (kg CFC eq.)	1.4E-04	2.19E-05	0	0	1.28E-07	0	0	0	0	1.85E-10	0	1.4E-07	0	2.57E-07	-2.0E-07
Photochemical Oxidation (kg C2H4 eq.)	1.8E-01	2.71E-02	0	0	2.08E-04	0	0	0	0	3.89E-07	0	7.3E-05	0	5.14E-04	-4.8E-04
Acidification (kg SO ₂ eq.)	3.4E+00	8.07E-01	0	0	4.81E-03	0	0	0	0	9.22E-06	0	2.5E-03	0	2.00E-02	-8.2E-03
Eutrophication (kg P04 eq.)	3.4E+01	1.07E-01	-	-	3.84E-03	-	-	-	-	9.31E-07	-	4.8E-04	-	4.24E-03	-6.8E-04

Unit = 1000 kg of Dekton



Dekton® Trilium

Energy Efficiency: Leed and Breeam

The sustainability of architectural projects has gone from being an interesting and desirable addition, to representing a real need that must be considered from the very beginning of the design stage. A building or infrastructure will be sustainable as long as it complies with different criteria, from its impact on the environment where it is located, to the origin of the materials used in its construction.

A building is energy efficient when it is designed to minimise the amount of conventional energy used on a daily basis. It is not just about saving on the energy bill. There are many other benefits to this approach: easier fitting of materials, lower maintenance costs and reduced obsolescence and material degradation. In order to undertake the construction of a sustainable energy building, two types of strategy must be developed: passive design strategies, focused on taking advantage of the climate and the environment in which the building is located; and active design strategies, such as the use of different renewable energy sources to supply the building.

A building is energy efficient when it is designed to minimise the amount of conventional energy used on a daily basis.



Sustainability in the factory

Certifications

Dekton® is in the process of certification of the following worldwide certifications with environmental implications.

ISO 9001



Cosentino has been found to conform to the Quality Management System standard: ISO 9001:2015 This certificate is valid for design, manufacturing, production, distribution, sales and marketing of Dekton® ultra-compacted surfaces.

ISO 14001



This recognition certifies and consolidates the quality of the Cosentino Environmental Management System. This certificate covers the entire process in which the company is involved in from the design, manufacture and processing of Dekton®, to its distribution and marketing. It certifies, among other aspects, the efficient use of raw materials, control of emissions into the atmosphere, waste management programmes, treatment systems and re-use of industrial water, disposal of chemical substances, and control of environmental hazards.

NFPA 285



This standard provides a test method for determining the fire spread characteristics of exterior wall and panel assemblies used as components of curtain wall assemblies that are constructed of combustible materials or contain combustible components.

Wall assemblies are tested for the following capabilities: resistance to flame spread on the outside face, vertical flame spread from floor to floor, lateral flame spread from the wall compartment of fire origin to adjacent spaces.

ETA 14/0413



It is a European technical approval based on EAD 090062-00-0404 “Mechanically Fastened Exterior Facade Cladding Kits”. It is a reference document for application in Europe and other markets. It includes technical data for three different ventilated facade systems for 12 and 20 mm. DKT1 for undercut anchor system and DKT2 and DKT3 for edge grooving systems with continuous profile or clips.

NOA



NOA certificate has been approved and designed to comply with the Florida Building code including the High Velocity Hurricane Zone. It includes two types of systems, with Dekton® 12mm installed on aluminium profiles and hangers fixed to plywood attached to wooden battens, steel stud framing or masonry, and Dekton® 8 mm installed with an adhere system. It includes test reports about static air pressure, cyclic wind pressure loading, flame spread and smoke generation, freeze and thaw cycles and water absorption.

BS 8414

The test method BS 8414 Part 1:2020 assesses the performance of an external non-loadbearing cladding system, a ventilated facade and external wall insulation systems when applied to the face of a building and exposed to an external fire under controlled conditions.

The fire exposure is representative of an external fire source or a fully-developed (post-flashover) fire in a room, venting through an opening such as a window aperture that exposes the cladding to the effects of external flames. Internal and external fire spread, visible flames and mechanical stability are assessed.

BBA 16/5346



This Agreement certifies Dekton® relating to ventilated cladding for fixing to an aluminium support subframe, and for use ventilated facade on external masonry, concrete or steel frame walls of new and existing buildings.

Greenguard



Greenguard Environmental Institute is a non-profit organisation whose mission is to protect public health and improve quality of life through programmes that improve air quality indoors. Some studies by the Environmental Protection Agency in the USA have proved that indoor air contamination can be 100 times higher to outdoor contamination levels.

In energy efficient constructions, pollutants tend to become trapped in living spaces instead of moving freely in the environment. Some of the most harmful contaminants indoors are Volatile Organic Compounds (VOCs), carbon monoxide, particles from cooking and nitrogen oxide. These contaminants can cause sick building syndrome, which causes dizziness, nausea and related illnesses.

Dekton® has been analysed by Greenguard, proving that it does not emit any type of VOC and thus has achieved Greenguard Certified (Certificate No. 41572-410) and Greenguard Gold (Certificate No. 41572-420) Certifications.

Other product certifications

EPD



DGNB LABEL



NSF



ICC



APPLUS



CoC (Civil Defence)



VOC Eurofins



DoP



DBCe



Carbon Neutral



KOMO



Incombustible



A1/A2 s1 d0 (with mesh)
EN 13501-1 2018 y NFPA/
IBC class A ASTM E 84

* To obtain more information about hues with NSF certificate please visit www.nsf.org

Sizes, Formats and Thicknesses

Stándard size

Thanks to the size and lightness of Dekton®, 320 x 144 cm in Standard format and 330 x 163 cm in Jumbo format (with the possibility to cut to size), the design possibilities are growing exponentially.

Formats recommended to maximise use of Dekton®

Thickness (cm)	Standard Format (cm)	Jumbo Format (cm)
0,4	71 x 71	80 x 80
	71 x 142	80 x 109
	142 x 142	80 x 164
	79 x 143	80 x 330
0,8	106 x 71	162 x 81
1,2	106 x 143	162 x 109
2	159 x 71	162 x 164
	159 x 143	163 x 330
	144 x 320	
	71 x 320	



Standard Format (cm)

	142 x 142	144 x 320	143 x 159	143 x 106	143 x 79
71 x 71	71 x 142	71 x 320	71 x 159	71 x 106	

Jumbo Format (cm)

	163 x 330	162 x 164	162 x 109	162 x 81
80 x 80	80 x 330	80 x 164	80 x 109	

Standard thicknesses

Dekton® slabs come in different thicknesses so that you choose the most appropriate option depending on the application, design or desired effect, from 4 to 20 mm

Standard size

Thanks to the size and the lightness of Dekton® 320 x 144 cm (with the possibility to cut to size), the design possibilities are growing exponentially.

Surface Textures

- **Matt:** Smooth without shine
- **Velvet:** Textured
- **Polished:** Shiny

Measurements, weight and tolerances

Thickness (mm)	Weight (Kg/sqm)	Weight (Kg/ Standard Slab)	Weight (Kg/ Jumbo Slab)
4	10.1	46.44	53.79
8	20.2	92.89	108.65
12	30.2	139.34	162.44
20	50.4	232.24	271.10

Tolerances

- Thickness ± 0.5 mm.
- Length and width ± 2 mm.
- Perpendicularity ± 2 mm.
- Straightness of the sides ± 1.5 mm.
- Centerline curvature ± 2 mm..
- Lateral curvature ± 2 mm.
- Warping ± 2 mm.

Technical features

- Density: $2.52 \pm 4 \%$ g/cm³
- Bending strength: ≥ 45 N/mm²
- Modulus of elasticity: 84,000 N/mm²
- Linear thermal expansion: $5.9 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
- Water absorption: 0.1 %. (Grupo Bla)
- Porosity: 0.2 %.
- Maximum expansion: 0.1 mm/m.
- Thermal conductivity: 0.483 W/m²K
- Reaction to fire. A1/A2 s1 d0 (with mesh) EN 13501-1 2018 and NFPA/IBC class A ASTM E 84



Colours and Surfaces

Types of Patterns

We have classified our range of colours into three different clusters of patterns to facilitate the design process. All our portfolio is labeled as Infinite Pattern, Singular Pattern and Smooth Pattern, depending on the effect desired for large surfaces and the placement of slabs adjacent to one another, taking into account the directionality of the design, shades and variations.

However this classification is merely indicative and we recommend that you go to our Product to obtain an individual assessment that guarantees how you can materialize your project the way you imagined.



Infinite Pattern

Plain colours or designs with a uniform or quasi-uniform composition and structure that, when used for coverings such as floors, walls, or facades, allows for the random placement of boards and cut-outs achieving total visual homogeneity. Recommended for large surfaces.



ToHa by Ron Arad and Avner Yashar. Tel Aviv, Israel

Singular Pattern

Designs with chromatic ranges of greater complexity and very marked directionality, which result in patterns with a lot of character and variation in smaller pieces and adjacent placements. We recommend that you consult our advisors for use on large surface claddings.



Armonk Professional Center. New York City. USA



Smooth Pattern

Designs with a directionality in the graphic structure that has to be taken into account when cutting and placing adjacent boards, either if continuity in the holistic design is sought or otherwise. It is a very versatile type of pattern but it requires the placement and cutting of boards accordingly. Recommended for large surfaces.

New Colours

Pietra Kode Collection



 Ultra Texture  Ultra Matt  Velvet Texture  XGloss  kC Quick Cut Technology  Dekton Slim 4mm



Colour Chart, Patterns and Finishes

Infinite Pattern

Colours and Surfaces

Uyuni  

Zenith   

Halo    

Mooné  

Albarium 22   

Nacre    

Aeris   

Sasea   

Dunna  

Arga  

Argentium   

Keon   

Umber  

Micron  

Bromo    

Eter  

Ultra Texture Ultra Matt Velvet Texture XGloss kC Quick Cut Technology Dekton Slim 4mm

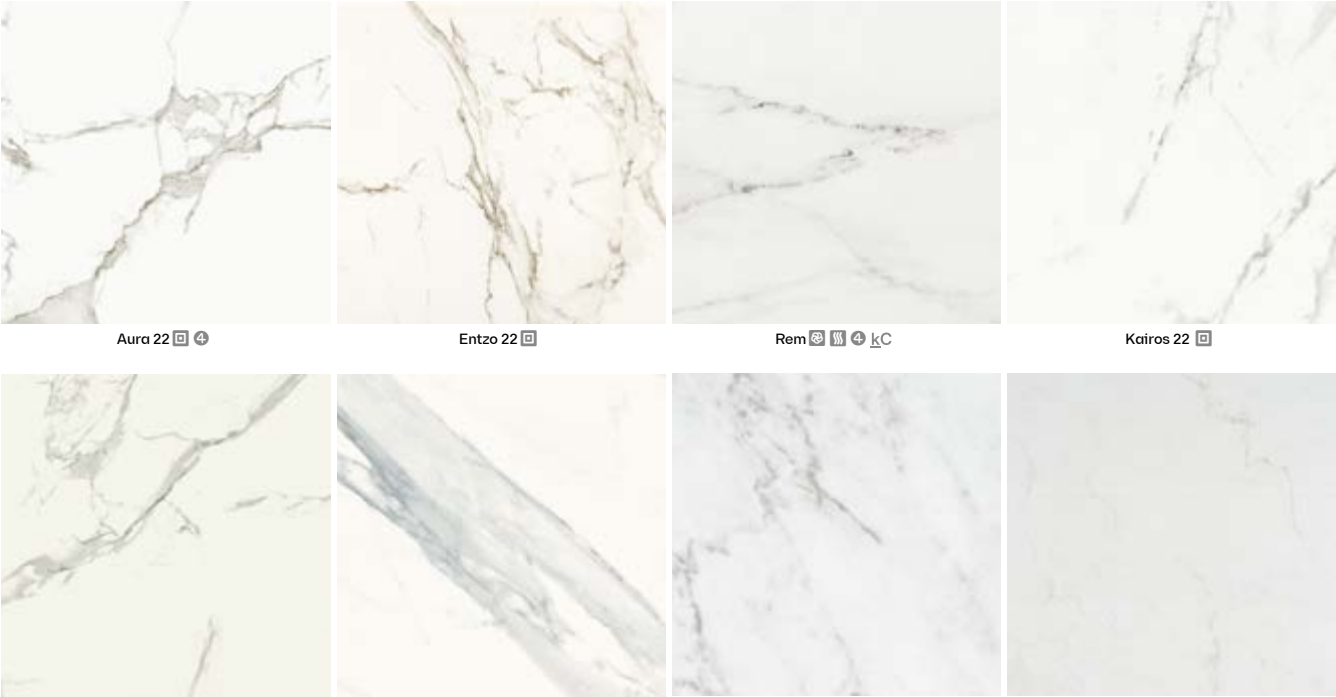
Infinite Pattern



Sirius Ultra Matt Dekton Slim 4mm

Domoos Ultra Matt

Singular Pattern



Aura 22 Ultra Matt Dekton Slim 4mm

Entzo 22 Ultra Matt

Rem Ultra Texture Ultra Matt Dekton Slim 4mm kC

Kairos 22 Ultra Matt

Natura 22 XGloss Dekton Slim 4mm

Opera Ultra Texture Dekton Slim 4mm kC

Salina XGloss Dekton Slim 4mm kC
Marina Ultra Texture Dekton Slim 4mm kC

Malibu XGloss Dekton Slim 4mm kC
Laguna Ultra Texture Dekton Slim 4mm kC


Colour Chart, Patterns and Finishes

Singular Pattern



Limbo   kC
Neural   kC



Vigil   kC
Daze   kC



Lucid   kC
Morpheus   kC



Awake   kC
Reverie   kC



Nilium 22 



Helena 22  



Bergen   kC



Trance   kC



Liquid Shell 22  



Khalo 



Soke  



Tritium  



Laos  



Somnia  



Laurent  



Kelya  

Ultra Texture Ultra Matt Velvet Texture XGloss **kC** Quick Cut Technology Dekton Slim 4mm

Smooth Pattern



In the following colours belonging to the category of SINGULAR and SMOOTH patterns, the directionality of the texture, as well as the movement of the background, must be taken into account at the time of cutting. Colours: Arga, Aura 22, Bergen, Bromo, Danae, Kelya, Keon, Khalo, Kira, Natura 22, Nillium 22, Laos, Laurent, Opera, Rem, Soke, Taga, Trilium

Dekton iD

From printing specific graphics in any colour to changing texture, to creating a completely original design that includes custom colours, textures and finishes, keeping the benefits of Dekton® unchanged.

Two different levels of customisation
to suit each project

Dekton iD is a
breakthrough service
by Cosentino that
enables the possibility
to customise our
Dekton® products.

DEKTON iD
INDIVIDUALLY DESIGNED

DEKTON iD PRO

From 1000 sqm

Combine any of our colour bases.
Choose one of our textures.
Print a design like patterns,
graphics or even your brand.

1

Base colour selection

The first step is the selection of the base colour. You can choose any colour available from the wide range of Dekton®.

Base colour

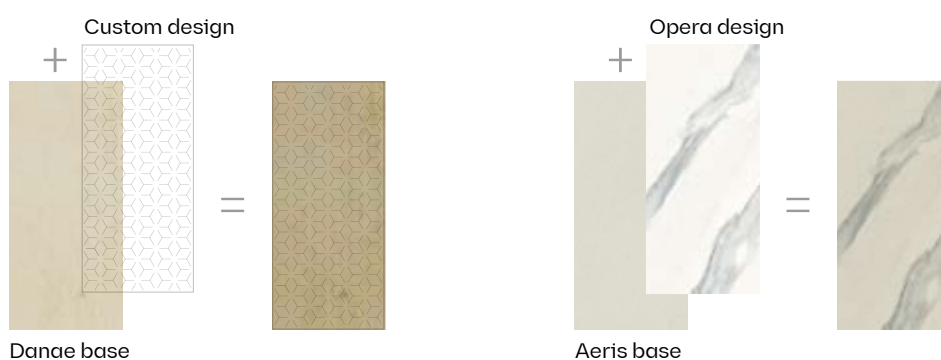


2

Design application onto Dekton® surfaces

You can apply countless customised designs to Dekton® surfaces, as well as colours and grades that will transform its appearance.

Design



3

Texture selection

The different textures available, such as matt, ultra-gloss, wood and slate, to name a few, will provide the finish with attractive nuances and a unique feel to the touch.

4

Thickness selection

While Dekton® standard thicknesses are 4, 8, 12, 20 and 30 mm.

5

Cutting

Dekton® large format slabs can be cut to size, regardless of the shape.

Textures



DEKTON iD UNLIMITED

From 2500 sqm

Create your fully personalised colour, texture and finish from scratch. Even the colour bases, texture, finishes, formats and much more.

1 Base Colour

The customer sends the Dekton iD team his/her initial idea: it can be a colour or the image or photo that sparked the customer's inspiration. From that moment, the Dekton iD team will perform a series of tests to achieve the desired colour. Meanwhile, the customer will be receiving samples and can adapt the product to his/her preferences.

2 Designs

You can apply countless customised designs to Dekton® surfaces, as well as colours and grades that will transform its appearance.

3 Textures

The different textures available, such as matt, ultra-gloss, wood and slate, to name a few, will provide the finish with attractive nuances and a unique feel to the touch.

4 Effects

Additional finishes that provide, selective gloss, pearlescent effects and unique inks, creating light base-relief, among others.

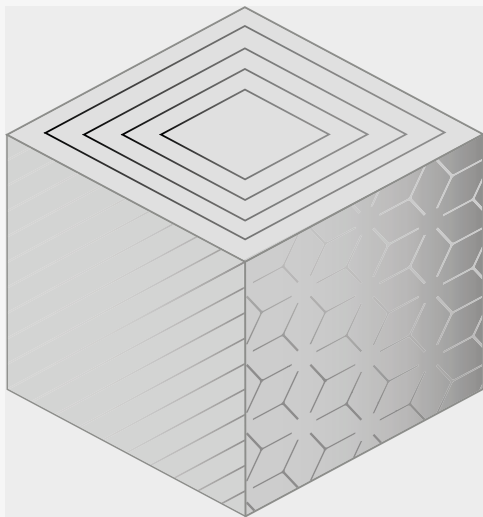
Thanks to the effects, it is possible to create all kinds of visual sensations to enhance a texture or colour, providing a very original final design.

5 Thickness

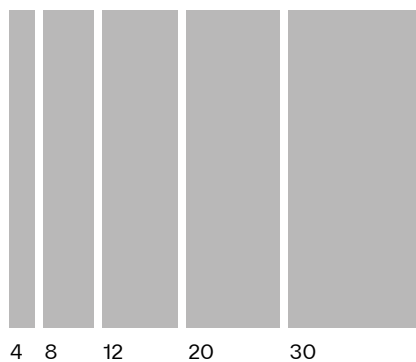
While Dekton® standard thicknesses are 4, 8, 12, 20 and 30 mm, Dekton iD Pro allows you to create specific thicknesses to suit the requirements of each project.

6 Cutting

Dekton® large format slabs can be cut to size, regardless of the shape.



Thickness



Cutting



Effects



Selective relief



Base relief



Vivid Colours



Copper



Brass

Basic Workflow



Send us your idea

Send your idea to customdk@cosentino.com and start from scratch customising its colour, texture and format thanks to Dekton ID.

Or release your creativity on Dekton surfaces with the help of Dekton ID Unlimited. You can check the project's development either through the samples that you will receive from Cosentino, or personally, through visiting Cosentino's facilities.



Personalised advice

Cosentino's R+D team will help you with your project, **supporting you** at every step of the process:

From the initial idea, to the features and creative possibilities of Dekton®.



We bring your vision to life

Dekton ID's aim is clear: to **achieve a perfect**, customised result just like you imagined it.

DEKTON ID

INDIVIDUALLY DESIGNED

CASE STUDY

An iconic building featuring Dekton ID inside and out

Gothenburg, Sweden

Material

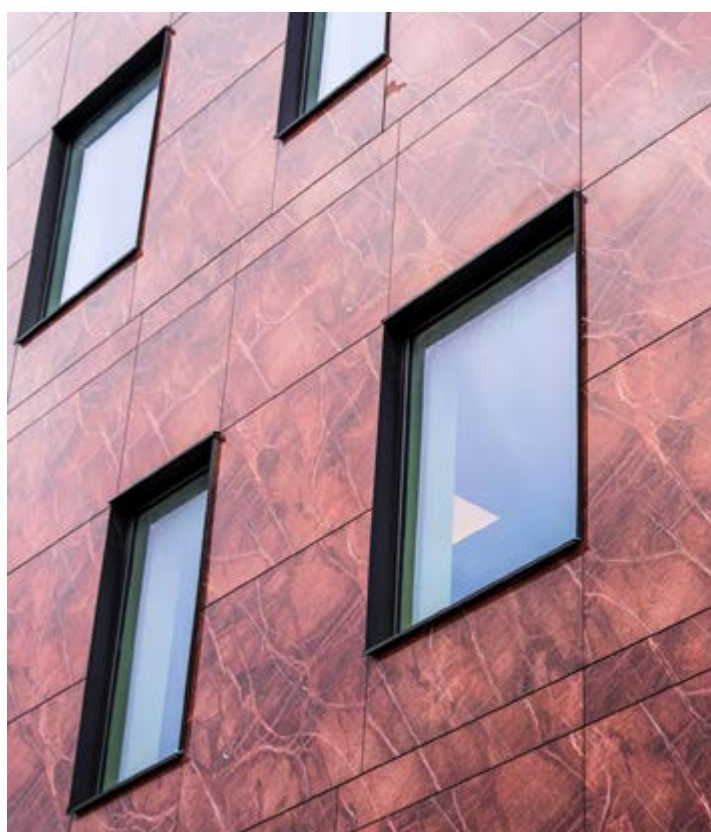
12,000 m² Dekton ID

Dekton® Wallenstam Black Marble, Red Marble and Green Marble, Dekton® Bromo and Keon

Thickness

12 mm





Teamwork for an iconic building

A striking office building in the new residential area of Kallebäcks Terrasser in Gothenburg, Sweden, has changed the landscape along the E6 motorway with its contemporary Dekton® facade.

Conceived to house flexible workplaces, a gym with panoramic views and parking spaces for bicycles and cars, this spectacular building also acts as an acoustic barrier protecting the residential area from the noise and pollution of the nearby motorway.

A sturdy facade

Terraces ('Terrasser') are a concept that is developed throughout this area, through the different buildings and blocks and their different heights. Against this background, the Entré Kallebäck building, some 250 metres long and 20 metres high, has been built as an extension of the mountain. It functions as a wall or barrier in front of the E6, a road on which dangerous goods are transported, thus limiting the type of buildings that can be erected in the immediate vicinity.

The risk of explosion demanded a particularly strong western facade and Dekton® met the necessary criteria, such as stain resistance, durability and, above all, scratch resistance, which extends the life of the material. In addition, the versatility of formats and thicknesses makes design and installation as simple as possible.





Ventilated Facade

The ventilated facade is a construction solution that allows for the establishment of a physical separation between the exterior cladding solution and the supporting wall of the building.

This separation creates a ventilated chamber that allows the renewal of air, which allows a series of thermal, acoustic and functional advantages that give it great added value.

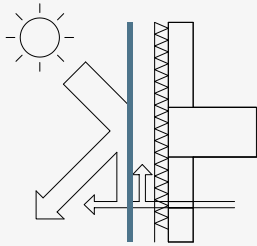
Glue and ETICS facade system

Dekton® can also be used for facade cladding and ETICS facade systems with the recommended adhesives, depending on the type of substrate and panel size.

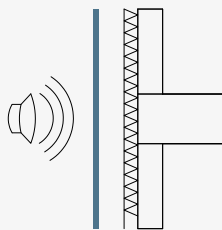
Curtain Wall

Dekton® can also be installed in the opaque areas of a curtain wall, always integrated with the fixing systems available from suppliers and manufacturers for this application.

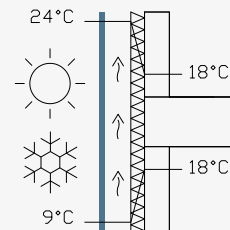
Ventilated Facade Advantages



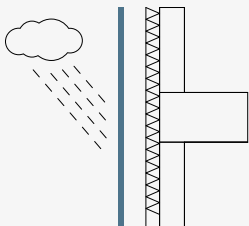
Energy savings



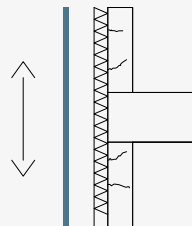
Aislamiento acústico



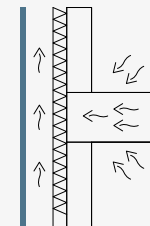
Salubridad: evitan puentes térmicos y condensaciones



Protección ante filtraciones de agua



Protección del muro soporte



Aislamiento térmico

Structural requirements

In facade projects, Cosentino provides a wide range of certifications available and data sheets for static calculations required on each project.

Wind loads

The local standards must be considered in order to determine the best solution for the panel and fixing, especially in tall buildings or areas classified with high wind loads.

- Dekton[®], with its range of thicknesses and systems, can be adapted to the different wind loads of each project. Cosentino continues to test and validate its cladding solutions through external laboratories.

Fire classification

Many European countries have adopted the European Reaction to Fire classification system (Euroclasses). Testing is defined in standard UNE-EN 13501-1 : Fire classification of construction products and building elements. There are seven Reaction to Fire classification levels, depending on the contribution to fire: A1, A2, B, C, D, E and F, from best (A1 and A2 are non-combustible) to worst. There are three smoke intensity levels: s1, s2 and s3. There are three classes of burning droplets: d0, d1 and d2 (**Table A**)

Seismic performance

In the event of an earthquake, lightweight ventilated facades perform better than heavier materials and solid wall solutions.

Lightweight substructures used in ventilated facades function by absorbing and dissipating the tensions generated due to building movements limiting the damage and making it easier to repair.

- Cosentino has carried out seismic tests, included in some systems and certificates, in external laboratories when required by certain projects or regulations.

Table A

Contribution to fire A-B-C-D-E-F	Smoke production s1, s2, s3	Flaming droplets/particles d0 - d1 - d2
A1 No contribution to fire.	No test needed	No test needed
A2 No contribution to fire.	s1 Quantity/Speed of emission low.	d0 No burning droplets
B Very limited contribution to fire.	s2 Quantity/Speed of emission average.	d1 Slow rate of burning droplets.
C Limited contribution to fire.	s3 Quantity/Speed of emission high.	d2 High degree of burning droplets.
D Acceptable contribution to fire.		
E Acceptable contribution to fire.	Not tested	-
F No performance requirements.		

The fire requirements will usually depend on the height of the building; for 18m and higher, buildings in Spain require a B-S3-d2 classification.

- Facade panels with fire classification A1 or A2-s1, d0 like Dekton[®] are non-combustible and suitable for facade installation in any type of building and at any height, meeting the most stringent fire performance requirements.

Subframe and Fixing Systems

Ventilated Facade

DKT1 ●
Hidden mechanical fixing using undercut screws on the reverse side of the piece.

Thickness: 8, 12 and 20 mm
Price: *****
Format: All formats.
Certificates: ETA, BBA (12 y 20 mm)

DKT2 ●
Hidden mechanical fixing with metallic profile on the continuous grooved edge of the piece.

Thickness: 12 and 20 mm
Price: ***
Format: not suitable for big formats on vertical layout.
Certificates: ETA, BBA

DKT3 ●
Hidden mechanical fixing with clips at intervals along the groove on the edge of the piece.

Thickness: 12 and 20 mm
Price: **
Format: not suitable for big formats on vertical layout.
Certificates: ETA, BBA

DKT4
Mechanical fixing using visible clips that hold the pieces.

Thickness: 4, 8, 12 and 20 mm
Price: *
Format: Not suitable for big formats on vertical layout.

DEKCLIP ●
Mixed fixing (mechanical plus chemical) hidden in the groove on the reverse side of the piece.

Thickness: 8, 12 and 20 mm
Price: ****
Format: All formats

DKC ●
Chemical structural fixing of pieces onto profiles.

Thickness: 4, 8 and 12 mm
Price: *
Format: All formats
Certificates: ETA SIKA, KOMO Innotec, KOMO Dynamic Bond, Dow Corning Silicone.

DKR
Rivet or screw fixing system with visible spot anchors.

Thickness: 4 and 8 mm.
Price: *

Glue and ETICS facade system

DKB
Pieces are fixed directly to the enclosure using mainly cement based adhesives.

DKS
Fixing of pieces onto an external thermal insulation system (ETIS)

Curtain Wall

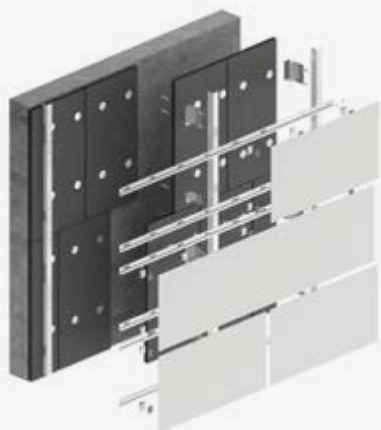
DKCW
Fixing in opaque areas of the curtain wall with perimeter chemical anchors with or without caps and middle reinforcement as required.

Thickness: 4, 8, 12 and 20 mm.
Price: ****

● Systems certified for ventilated facades

Indicates an approximate price level compared from the lowest price (*) to the highest price (****).

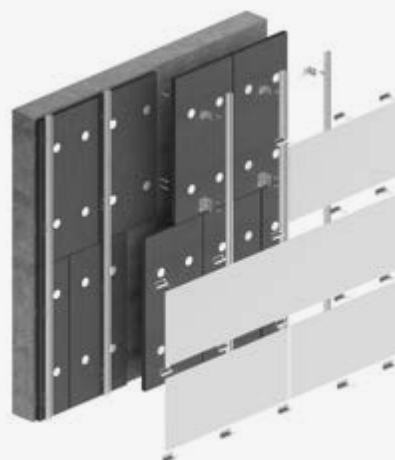
DKT1



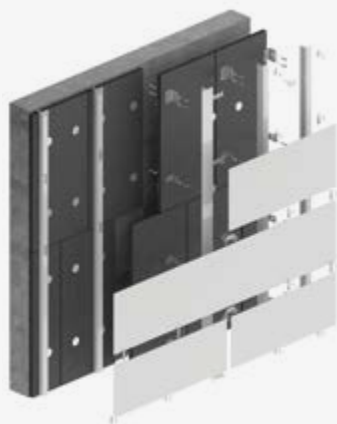
DKT2



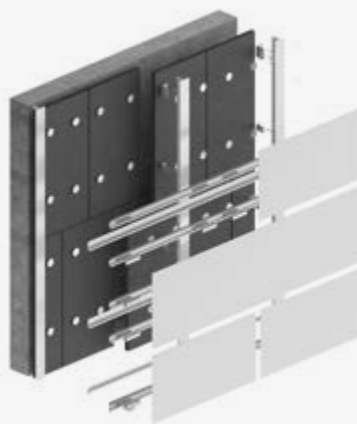
DKT3



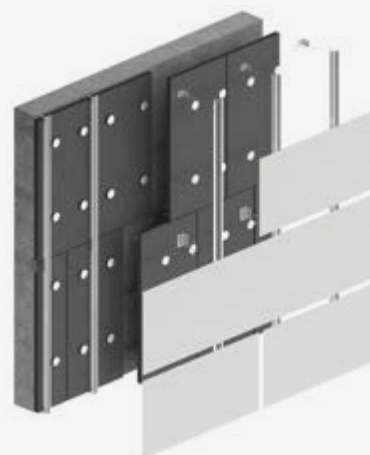
DKT4



DEKCLIP



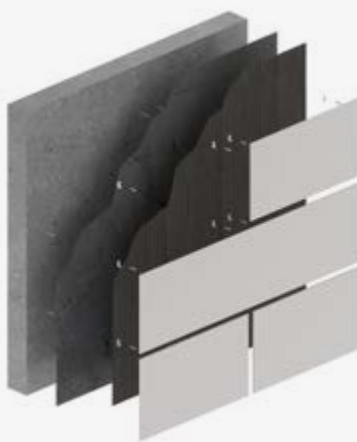
DKC



DKR



DKB



DKS

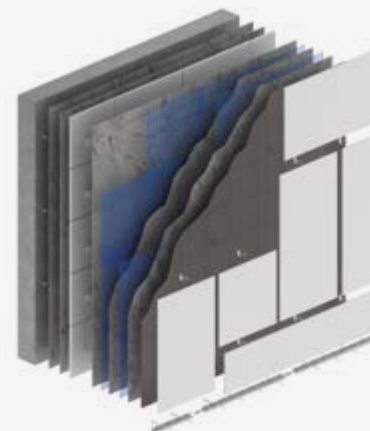


Table for different thicknesses and systems

FACADE SYSTEM	DESCRIPTION	MAX. SIZE	4mm	8mm	12mm	20mm
DKT1.1	Undercut anchor-Keil	FULL SLAB	<div></div>	<div>KH 4 M6/8.5</div> <div></div>	<div>KH 8.5 M6/11.5</div> <div></div>	
DKT1.2	Undercut anchor-Fischer	FULL SLAB	<div></div>	<div></div>	<div>FZP II 11x8 M6/T/10PA</div> <div></div>	<div>FZP II 11x10 M6/T/12PA</div> <div></div>
DKT2	Grooved edge and continuous profile	V: 1400 x H: 3200	<div></div>	<div></div>	<div>Top/Bottom/Middle Profiles</div> <div></div>	
DKT3	Grooved edge and spot clips	V: 700 x H: 3200				
DKT4	Visible clips					
DKC	Chemical Anchor Sika	FULL SLAB	<div>System Supplier Documentation</div> <div></div>			
	Chemical Anchor Dow Corning					
	Chemical Anchor Innotec					
	Chemical Anchor Bostik					
	Chemical Anchor Soltec					
DEKCLIP	Groove on the reverse with clips		<div></div>	<div>System Supplier Documentation</div> <div></div>		
DKB	Direct Adhesion		<div>R2 (UNE 12004)</div> <div></div>	<div>C2S2 (UNE 12004)</div> <div></div>		<div></div>
DKS	ETICS	V: 500 x H: 1500		<div></div>	<div>C2S2 (UNE 12004)</div> <div></div>	<div></div>
DKCW	Curtain Wall	FULL SLAB	<div></div>	<div></div>	<div></div>	<div></div>

● ETA 14-0413 ● Possible ● Not Possible

Note: The author of the project must assess the appropriate thickness based on the planned activity and specific needs that cannot be collected in this guidance sheet. The definition and calculation of each system must be done by a competent technician according to the particular conditions of each project.

Dekton® 4mm is always supplied with mesh for all facade applications.
Dekton® 8, 12 or 20 mm is supplied with mesh for ventilated facades and without mesh for facade cladding and ETICS direct adherence systems.

Cladding System

Parts of a ventilated cladding system

Supporting wall

Mechanical or chemical anchoring to the wall

Substructure

Substructure consisting of vertical or horizontal profiles

Insulation and waterproofing

Fixings

Dekton®

Supporting wall

Support material can be either structural (beams, columns, slabs, bearing walls...) or not structural (brick walls, block walls, stud walls...).

The usual engineering of a ventilated facade considers substrate walls to bear directly horizontal loads (such as wind loads), while dead loads are designed to be directly supported by structural elements.

Insulation and waterproofing

Insulation should be applied continuously over substrate walls in order to achieve the required thermal and acoustic comfort level inside the building and avoiding thermal breaks when possible -weaknesses in the insulation will be where there is the greatest loss of energy from the building.

There are many materials available on the market, to be chosen considering their different properties such as thermal insulation values, fire resistance, waterproofing, etc.

- Mineral wool
- EPS, XPS
- PUR, PIR
- Other insulation materials (cork, natural fibres...)

Air chamber

One of the main features of ventilated facades is the air chamber. It is designed to act as a pillow of pressure to prevent water from reaching the insulation or supporting wall.

By ventilating the chamber, the moisture that could arise from water that may pass through the cladding system, whether from the internal wall's surface or appearing as condensation, will be removed by evaporation or simply slide down the back of the panel and fall from the wall bracket.

◦ Chamber Width

It is generally considered that the minimum width of the chamber should be at least 20mm, behind the rear of the facade panel. However, in some countries such as GB and Scandinavian countries, the regulations indicate a minimum width of 50mm. Therefore, it is important that national regulations and building codes are adopted in each country.

This minimum width is only suitable for low buildings, up to 10m. As the facade increases in height, the chamber needs to increase in width. For example, in Belgium and the Netherlands the following chamber width is recommended:

Building Height (m)	0-10	10-20	20-50
Min. cavity width (mm)	20	25	30

The type of joint used between the panels will also influence the width of the chamber. Open horizontal joints will allow more air movement than closed joints and therefore wider cavities should be considered when using closed profiles in horizontal joints.

◦ Protection of insulation in the chamber

Just as the chambers are ventilated through the upper and lower part of the facade (it is considered that this ventilation is achieved with a cross section of at least 50 cm² for each linear metre), it is also important to allow the air to enter and exit below and above openings like windows.

These openings need to be protected so that birds and small animals cannot enter the chamber. In the absence or failure of protection this could result in damage to the insulation, air chamber, or even on the supporting wall. This protection is usually achieved by fitting a perforated profile. It is important that the perforations are the correct size to allow a flow of air, while keeping creatures out.

Ventilated facade substructure

General indications for the main structure

1. Based on the cutting of the facade and the arrangement of the system's profiling, define the anchor points of the brackets in the support elements.
2. Verify the correct level of flatness, deviations and plumb of the substrate wall and correct if necessary, according to the project tolerances.
3. Anchor the supporting brackets to load bearing areas of the building (e.g. Slab edges) and use the vertical profiles to align the retaining brackets.

Fixed point supporting brackets carry the vertical weight of the profiles and cladding, as well as support horizontal wind loads (pressure and suction). This kind of bracket is usually longer than retaining brackets and present several drill holes for fixed points to the vertical profile.

Retaining brackets with sliding point fixing only support horizontal loads (wind loads).

Each vertical profile usually has a single fixed point of attachment to a support bracket, and the rest of the joints are sliding points to allow expansion of the vertical profiles.

Place the necessary brackets according to the load bearing capacity of the support wall and the structural calculation made. To do this, the type of anchorage (mechanical or chemical) must be defined according to the support wall properties, carrying out on-site dowel extension and load tests if necessary, in order to define the load bearing capacity of the supporting wall.

In case of fixing onto a stud wall, brackets should be fixed onto the studs.

The length of the brackets can be adapted to achieve the desired distance between exterior panels and the support wall, so that small differences in vertical alignment can be corrected.

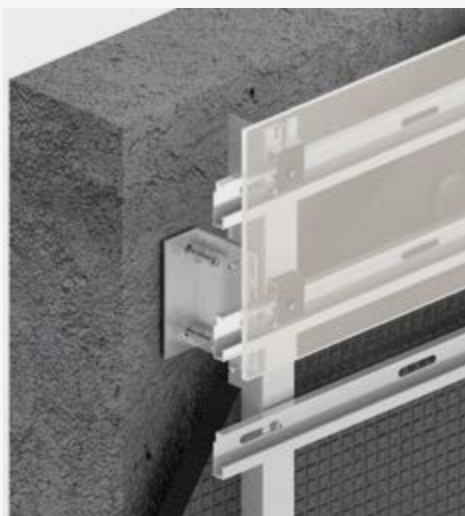
4. Insert the vertical profiles into the brackets, adjust and level so the profiles are not subject to stress before screwing the profiles to them.
5. Use the round holes for screwing vertical profiles to brackets with fix points, and vertical slot holes for sliding points.

6. Leave a gap between the end of one profile and the beginning of the other, typically 20mm or at least 10mm, according to length and expansion of vertical profiles. Facade cladding should never extend over a joint between profiles.
7. The supplier of the substructure should define the cantilever of the profiles depending on static calculations made and system chosen.
8. It is recommended that the air chamber between cladding and insulation is wide enough to avoid interference between the subframe and inner layers of the wall (insulation and waterproofing).
9. For panel installation, refer to each type of panel fixing system.

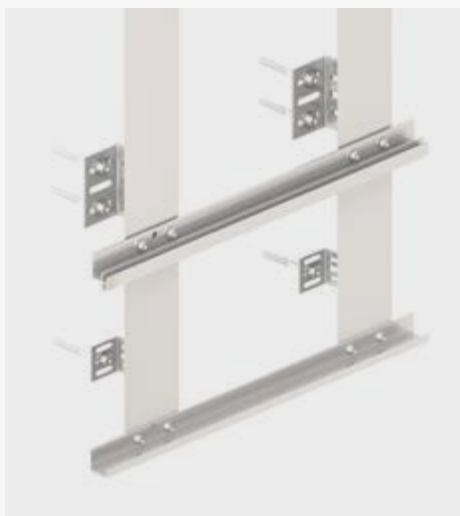
General recommendations for Dekton® on ventilated facades

1. The minimum width recommended for pieces in ventilated facades is 200mm;
2. Proportion (width: length) of 1:14 is recommended in order to ease manufacture and manipulation of pieces.
3. Custom cutting tolerances and machining of cut and machined pieces in our factory can be discussed with our Technical Department.

DKT1



DKT2 / DKT3



DEKCLIP



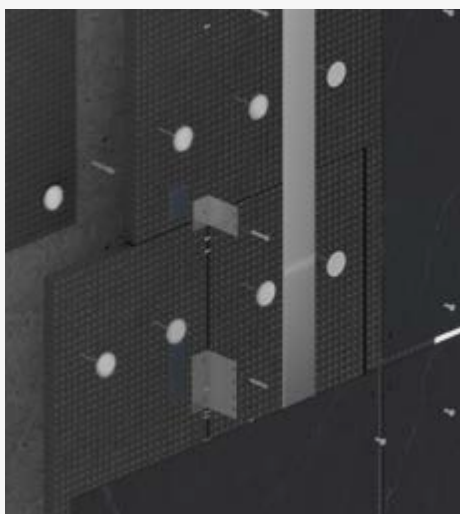
DKT4



DKC



DKR



Subframe and Fixing Systems

Ventilated facade - Hidden mechanical systems



DKT1
Hidden mechanical anchoring system with undercut drill hole

P. 78



DKT2
Edge grooving system with continuous profile

P. 112



DKT3
System with clips in the groove on the edge

P. 130



DEKCLIP
Mechanical or mechanical-chemical systems with double back grooving

Página 148

Ventilated facade - Visible mechanical systems



DKT4
Fixing system with visible clips

P. 166



DKR
Rivet or screw fixing system with visible spot anchors

P. 182

Ventilated facade - Chemical systems



DKC
Fixing consisting of chemical anchoring of pieces on profiles

P. 196

Glued and ETICS facade system



DKB
Fixing with
cement-based
adhesive

P. 226



DKS
ETICS system
with Dekton[®]
cladding

P. 242

Curtain wall



DKCW
Curtain wall
system

P. 252

Cap Ferrat by Juan Carlos Di Filippo, Rio de Janeiro, Brasil



DK T1

Hidden mechanical anchoring system with undercut drill hole

The panels are fixed to the wall by attaching the metal hangers on the horizontal profiles.

Each plate has two adjustment points and a fixed point at the top, which makes possible the adjustment while preventing undesired movements of the piece.

DKT1 system lends lots of design freedom and a wide range of combinations, allowing modification of panel sizes both horizontally and vertically.

Projects with impossible layouts.

There are very complex facades with different formats in the same design.

A flexible system is needed to optimise the points of fixing the material to the substructure and that responds to the principal loads of each project.

The screws are anchored to the profile, ensuring the fixing of the entire piece to the substructure.



Dekton® has the certifications for ventilated facades according to ETA 14/0413 and BBA 16/5346 in thicknesses 12mm and 20mm, although it can be used in other non-certified thicknesses.

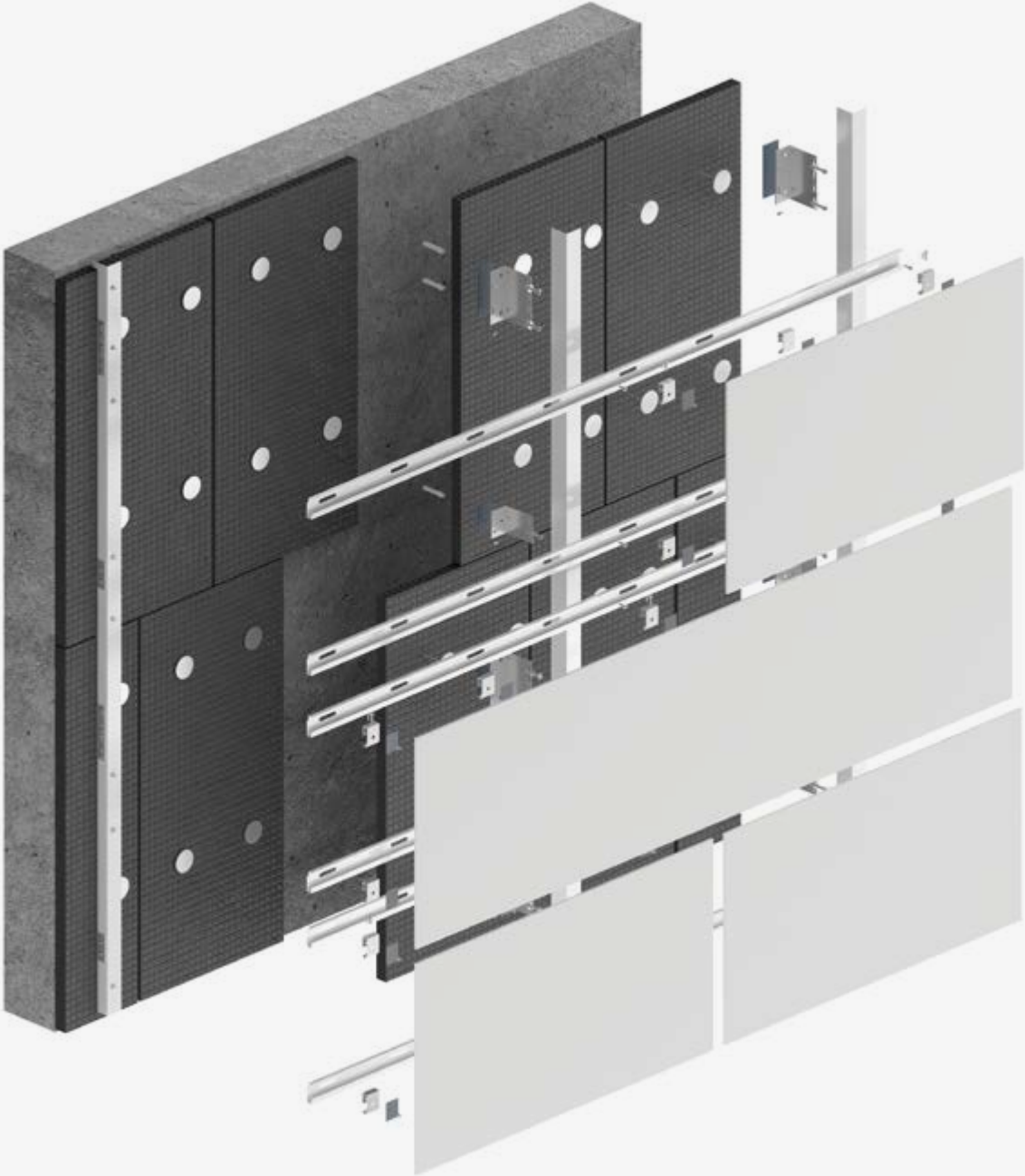
In the DKT1 system, individual stresses that Dekton material and anchors must absorb are calculated depending on the density of fasteners and minimum distances between drill holes.

The cylindrical drilling, as well as the undercut drilling, achieve a clean and precise hole, where the plug and the pan head screw work together under tension and shear on the back of the material.

Concealed fixing system
by using metal hangers
attached to the panel
via undercut anchors to
the back of the pieces.



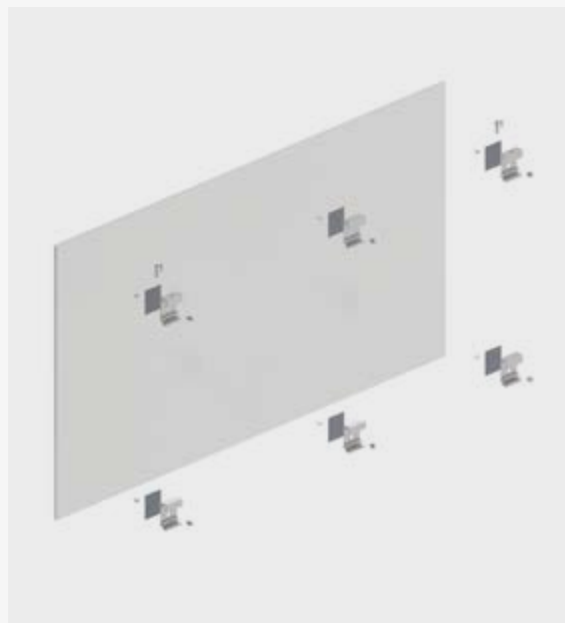
DKT1 - Diagram



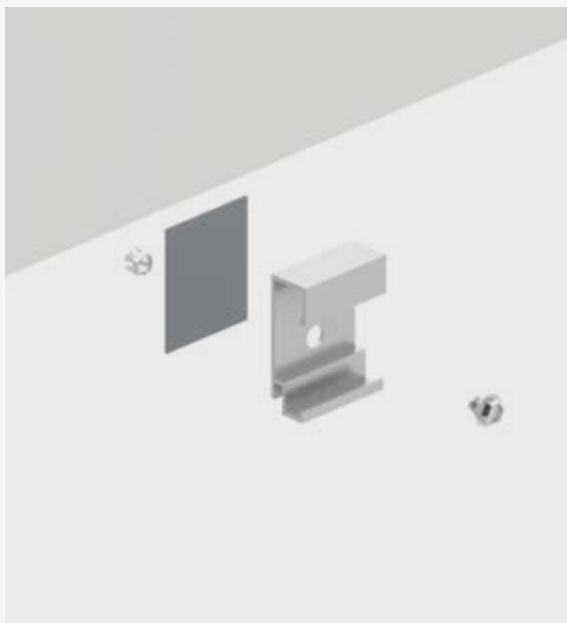
Adjustable hanger



Back view



Fixed hanger



Joints



CASE STUDY

Cap Ferrat by Juan Carlos di Filippo

Rio de Janeiro, Brazil

Material

3,800 m² Dekton®

Facade system

DKT1

Thickness

12 mm

For the refurbished facade of the iconic Cap Ferrat building, 3,800 m² of the ultra-compact Dekton® surface by Cosentino was used.

Cap Ferrat is an iconic residential building located on the exclusive Avenida Vieira Souto in Ipanema, Rio de Janeiro. Built in 1976, this 20 storey landmark of the Ipanema district has a surface area of 2,000m² and is home to apartments, duplexes, garages and communal areas.

Forty years after it was built, the tower underwent a project between 2013 and 2016 to refurbish the cladding of its balconies. These had deteriorated due to galvanic corrosion of the aluminium railings, which had caused the original granite cladding of the perimeter girders of the tower's six balconies to crack.

Having analysed the performance of various materials, the architectural studio in charge of the project, Di Filippo Architettura, identified Dekton® as meeting all of the essential requirements.





The biggest challenge faced by the project team was to find a new cladding that could be installed over the original material and would entail a maximum load of 90 kilograms per square metre. In addition, due to the building's proximity to the sea, the chosen material needed to match the exterior aesthetic with a subtle tone that blended into the surroundings.



Di Filippo Architettura chose Dekton® by Cosentino for the facade for various reasons: it represented just 50% of the permitted load for the material, it can be manufactured in large format, bespoke slabs (320 x 144 cm), the precision cutting of pieces, its optimal performance against sand and saltwater erosion from the beach, and its other exceptional qualities such as its high resistance to ultraviolet rays, its colour stability and high resistance to stains.

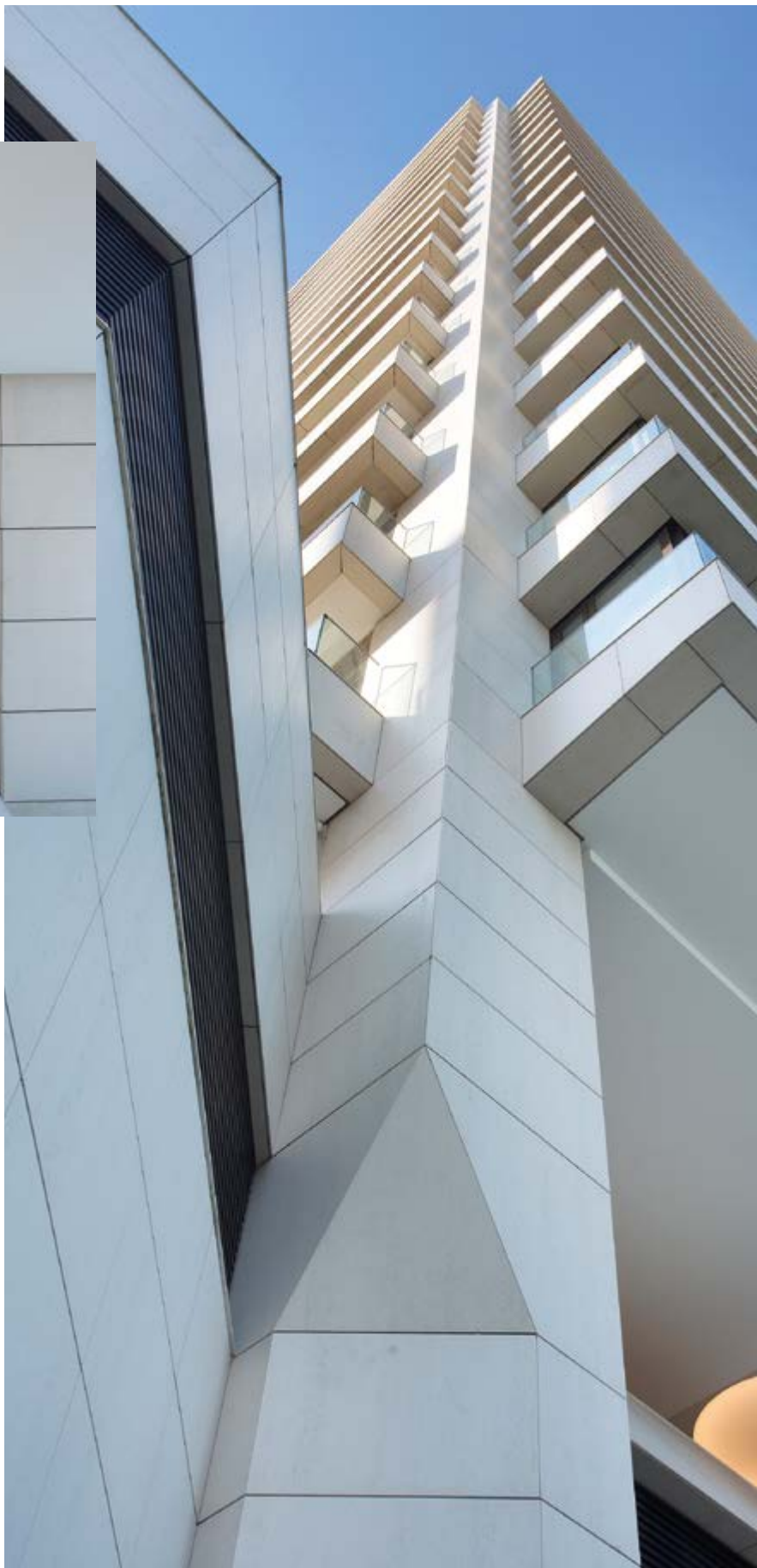
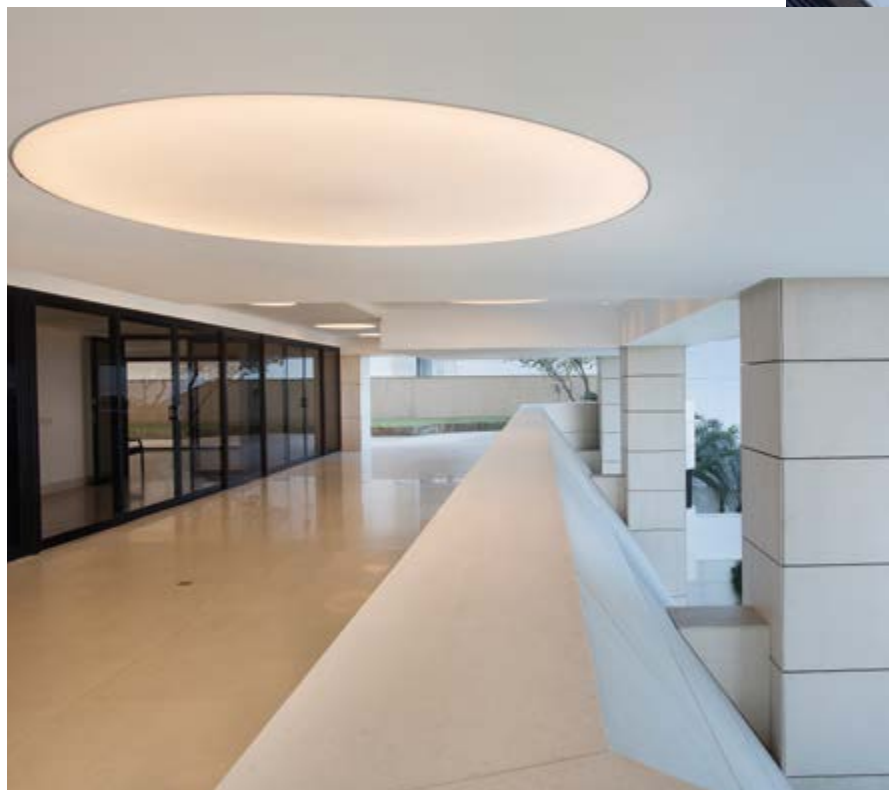
“When we decided to maintain the existing cladding, we were faced with the need to choose a cladding material with very special characteristics: it must have minimal porosity to withstand the conditions of a coastal environment, it must be lightweight but have generous dimensions, and it must be able to be installed using a system of stainless steel fixings.

Last but not least, we needed a material with a low level of solar radiation absorption to meet the characteristics of the location, as well as being available in a colour that matched the local sand, as Cap Ferrat is located opposite Ipanema beach.

Having analysed various materials, the ultra-compact surface Dekton® by Cosentino was chosen. It fulfilled all the requirements of the project.”

Architect: Juan Carlos Di Filippo.





The 12mm-thick pieces were cut and the exact number, dimensions and location of holes were made at the Cosentino factory in Cantoria, Almería, before being shipped to Brazil. The holes made were the result of a ground-breaking fixing technique developed for this project by the company GMM Anchor Systems, supported throughout by the Cosentino engineering department. For the anchoring, Keil pieces provided by Cosentino were used. Other pieces and metal accessories were produced by GMM.

The Dekton® colour chosen for the facade's cladding was the cream tone Danae, for its elegance and similarity to the colour of the sand on the beach.



Project details

Name: Cap Ferrat Building

Address/location: Av. Vieira Souto, 564

Ipanema, Rio de Janeiro, Brazil

Project dates: 2013-2016

Duration of works: 12 months

Architecture studio / architects: Di Filippo Arquitetura, Juan Carlos

Di Filippo Architect - Universidad Nacional de Rosario-Argentina

Collaborators: Gabriela de Lana, Carolina Luz,

Renata Martinho, Marina Accioly

Construction / Cladding installation company: Gmm-Anchor

Systems, Sa Martins Puertas de Correr, Q-Railing Barandas

Cosentino materials:

Application: Facade

Material: Dekton® by Cosentino

Colour: Danae

Thickness: 12 mm

Quantity: 3,800 m²

Format: Cut to size

Installation system: Keil peg, metallic insert





CASE STUDY

MK8 Kap West

Munich, Germany

Material

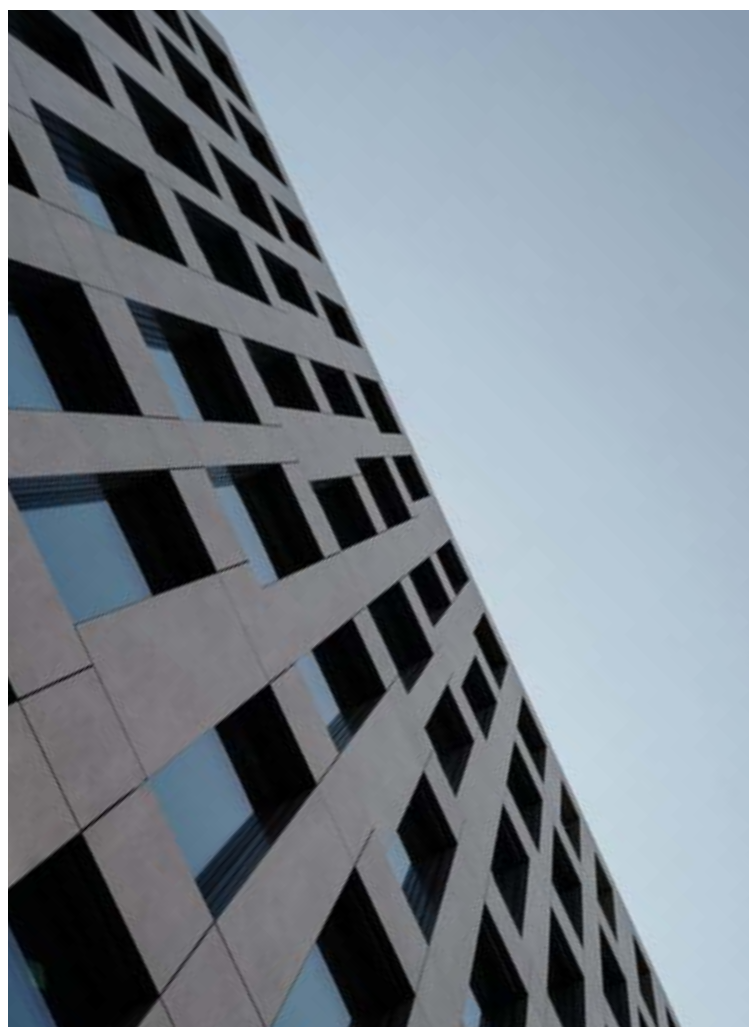
13,000 m² Dekton® Keon

Facade system

DKT1

Thickness

12 mm



CASE STUDY

Hartl Promenade

Seewalchen am Attersee, Austria

Materials

780 m²

Dekton® Dance

Dekton® Zenith

Facade system

DKT1

Thicknesses

8, 12, 20 and 30 mm







CASE STUDY

The Pacific

IBI Group | ACDF

Vancouver, Canada

Material

1,115 m² Dekton® Aura 15

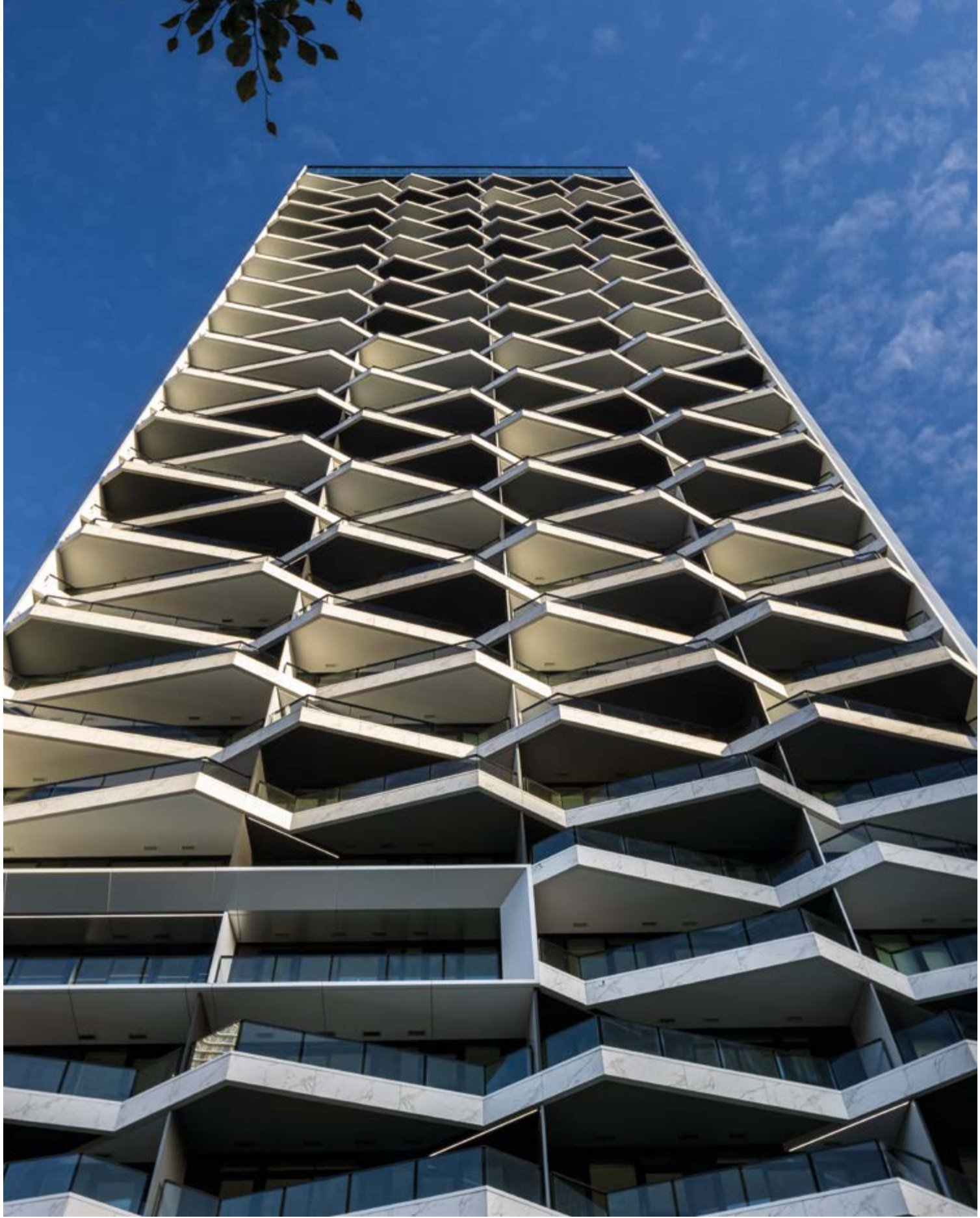
Facade system

DKT 1.1 Keil

Thickness

12 mm









CASE STUDY

Cerceda Strow Building

A Coruña, Spain

Material

105 m² Dekton® Sirius

Facade system

DKT1

Thickness

12 mm





CASE STUDY

The Charles Building

Atlanta, USA

Materials

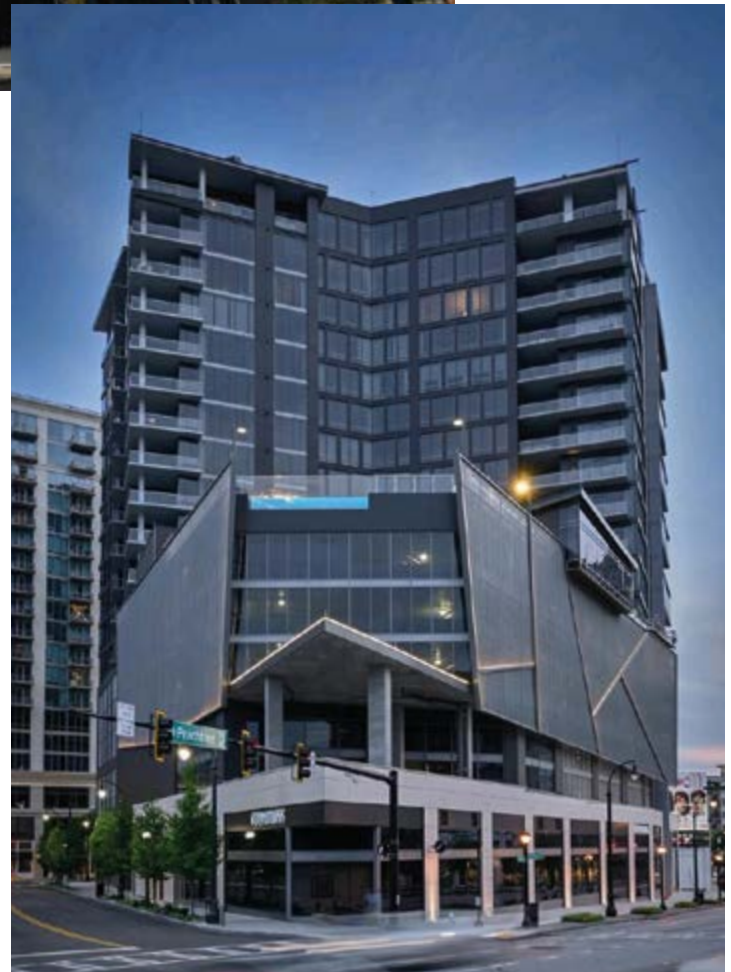
1,200 m² Dekton® Domoos and Dekton® Danae

Facade system

DKT1 and DKT2

Thicknesses

12 and 20 mm







CASE STUDY

University of Missouri Stadium

Missouri, USA

Materials

524 m² Dekton[®] Domoos and Dekton[®] Spectra

Facade system

DKT1 and DKT2

Thicknesses

12 and 20 mm



Valdebebas Building, Madrid, Spain



DK T2**Edge grooving system
with continuous profile**

Traditional fixing system widely used in natural stone. A continuous groove is made in the edges of the piece to place a continuous profile where it is to be fitted. There is a single starter and end profile and a double middle profile for horizontal joints.

This system is limited to horizontal panel sizes up to a maximum of 1.44 m and a minimum Dekton® thickness of 12 mm, which allows for grooving.



This solution creates an almost hermetic ventilated chamber, due to the continuity of the supporting profile itself.

A groove of 3-4 mm minimum and with a depth of up to 10 mm is required to conceal the length-wise profile that is anchored to the uprights of the sub-structure.

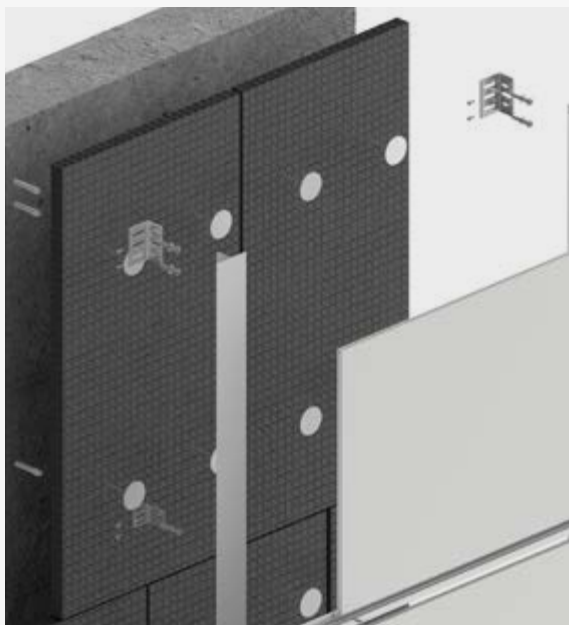
With this system, it is important to ensure correct air entry at the base of the facade, as the horizontal joints are enclosed by the horizontal profile that holds each piece.

Hidden mechanical
fixing with metallic
profile on the
continuous groove
of the edge of
the piece.





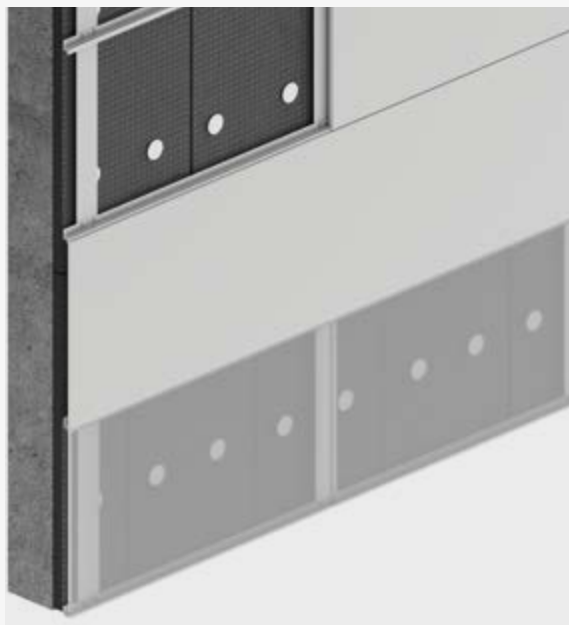
System detail



Middle profile detail



Bottom profile



Bottom profile detail





CASE STUDY

Valdebebas 127

Madrid, Spain

Materials

7,600 m²

Dekton® Warm (customised)

Dekton Korus

Installation system

DKT2

Thickness

12 mm









CASE STUDY

LD Hotel

Sevilla, Spain

Material

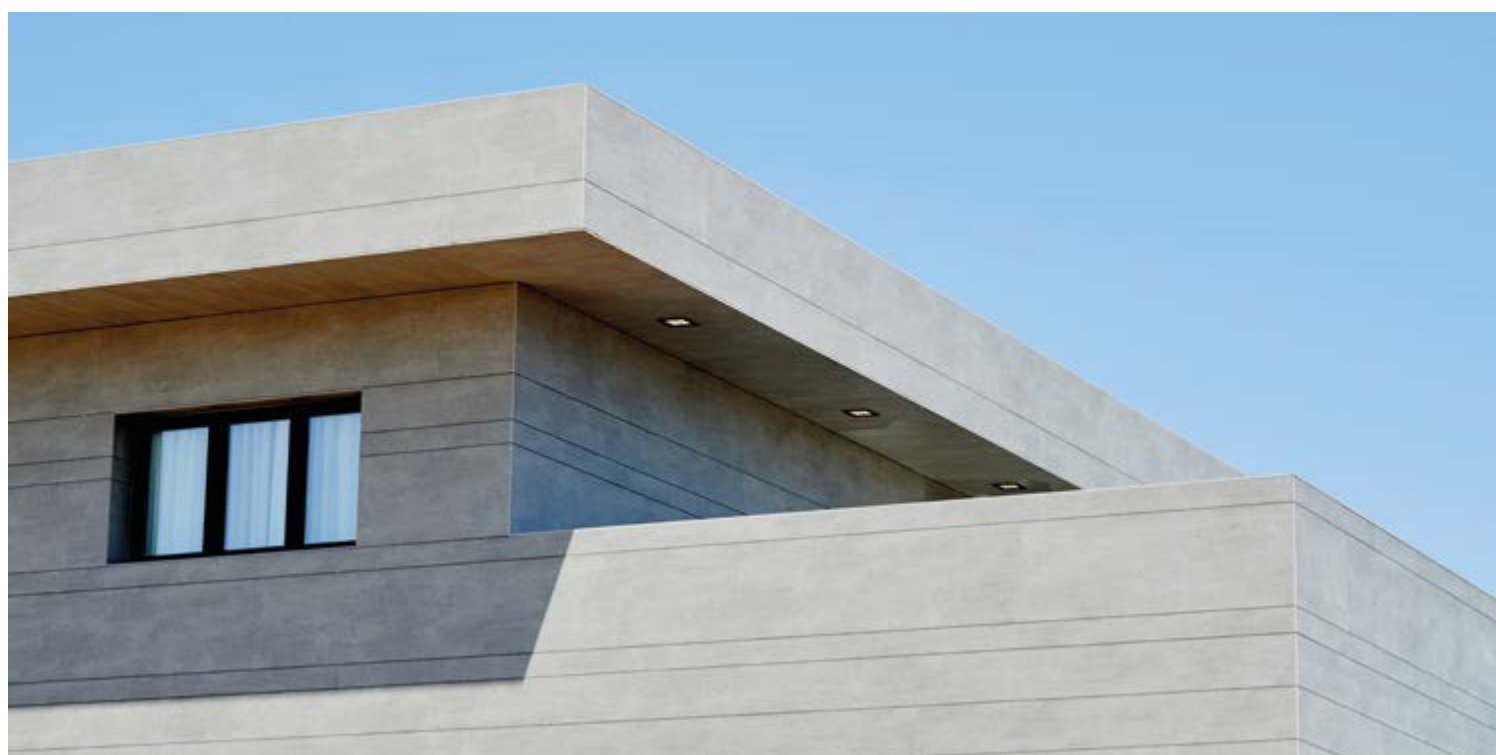
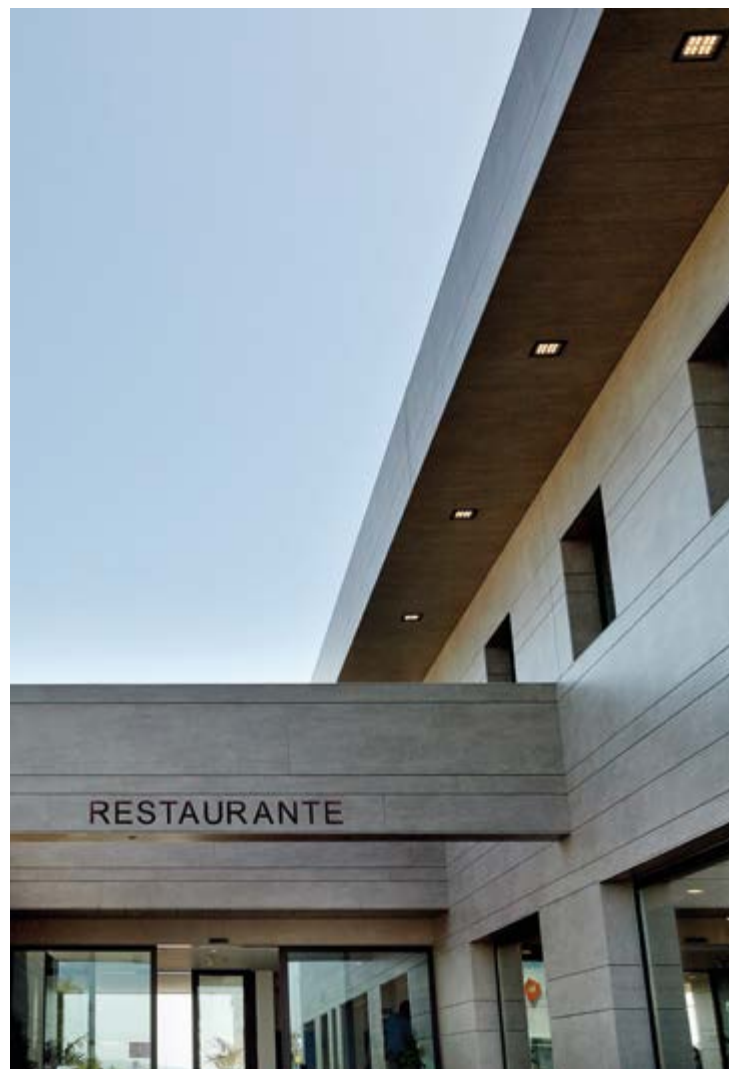
2,500 m² Dekton® Keon

Facade system

DKT2

Thickness

12 mm



Tabacalera apartment building, A Coruña, Spain



DK T3**Sistema con grapa
en ranurado en el canto.**

This system is suitable for horizontal cutting of Dekton® in thicknesses of 12 mm and 20 mm. In the DKT3 system, pieces are fastened to the profile by hidden clips that are inserted at intervals along a continuous groove at the edge of the piece, which can end at 3 cm at each extreme, thereby improving the aesthetics and

functionality of the lateral pieces. This system is fairly flexible, although there are certain dimensional limits, as the maximum a piece can be for 12 mm thickness is 70 cm vertical and 100 cm for 20 mm thickness.

In cases that require a greater dimension on the vertical section, 30 mm thickness

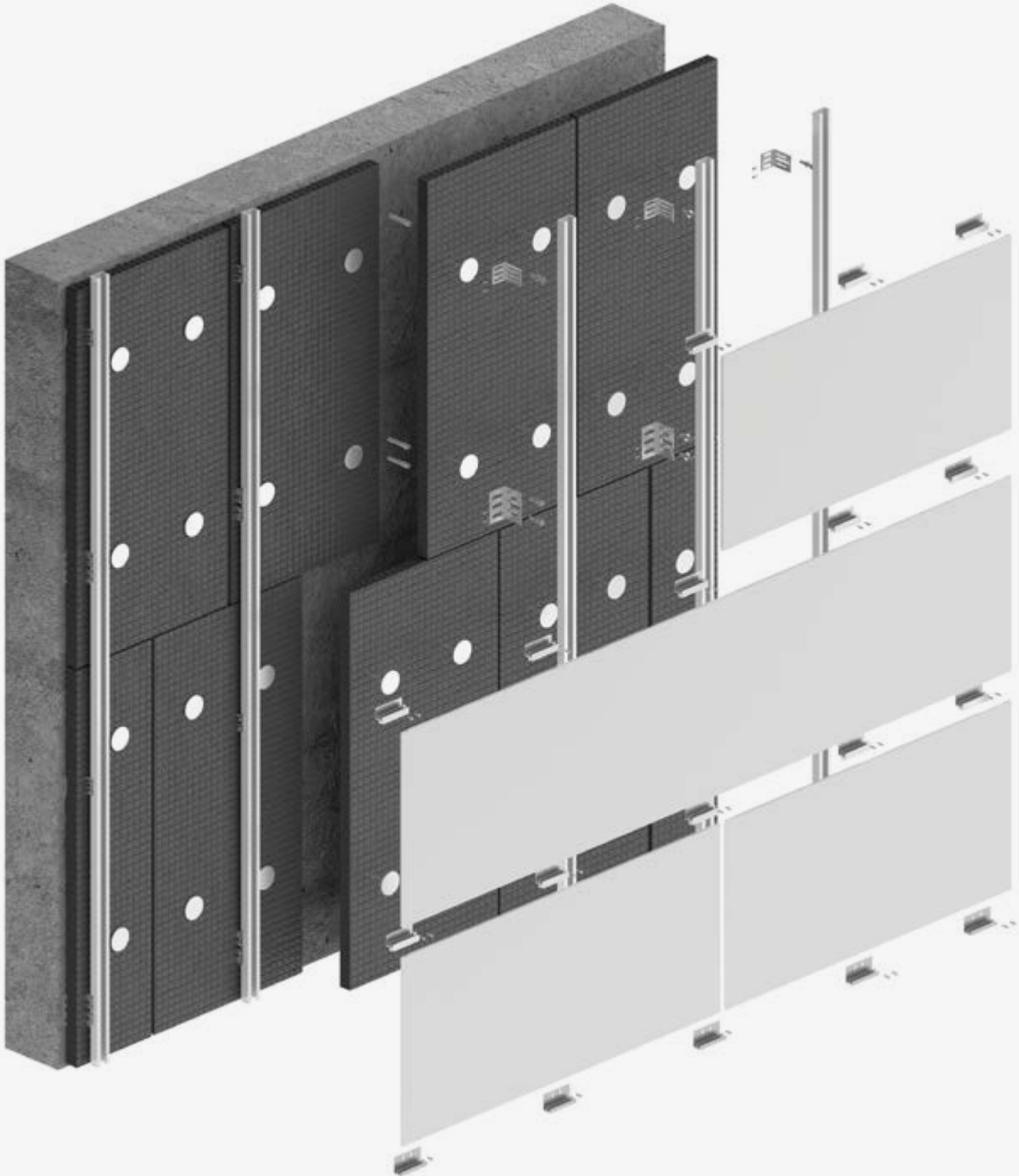


should be used to counteract fatigue on the grooved part of the material from the anchoring.

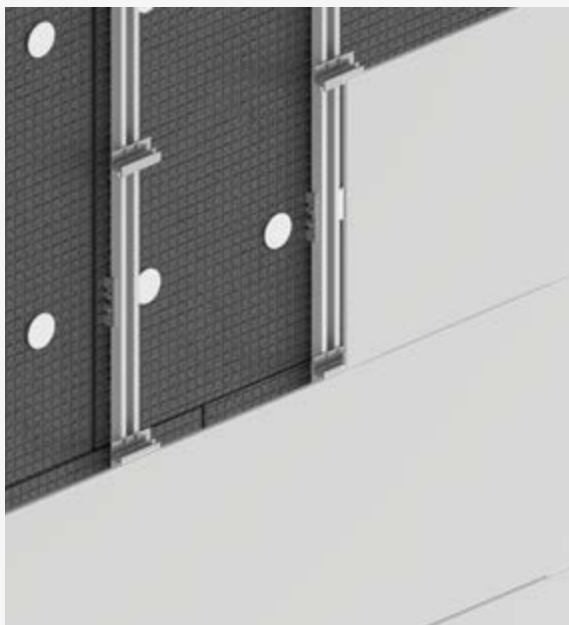
This system usually has two different types of clips: a single starter/end clip and a double middle clip, which are screwed to the vertical profiles.

Hidden mechanical fixing
with clips at intervals
along the groove on the
edge of the piece.





Joints



Middle clips



Bottom clips



Bottom clips detail



CASE STUDY

Building facade in Bergamo

Bergamo, Italy

Material

158 m² Dekton® Entzo

Installation system.

DKT3

Thickness

12 mm





Dekton® provides a solution to the structural problems of this Italian facade

It was necessary to find a material as beautiful as natural stone and with a finish similar to Calacatta. The wide range of Dekton® colours made it possible to find the closest finish to the original cladding: Entzo. The result is the same chromatic and 'natural' stone effect required by municipal and provincial authorities for areas of historic interest.





In short, Dekton® ventilated facades are perfect both for the refurbishment of existing cladding and for new projects. There are five properties that make Dekton® the perfect solution for ventilated facades:

1. Lightweight;
2. Large format slabs (Jumbo format 330 x 163 cm);
3. Quick installation;
4. Natural appearance;
5. High static and architectural performance.

Gunni & Trentino Flagship Store, Madrid, Spain





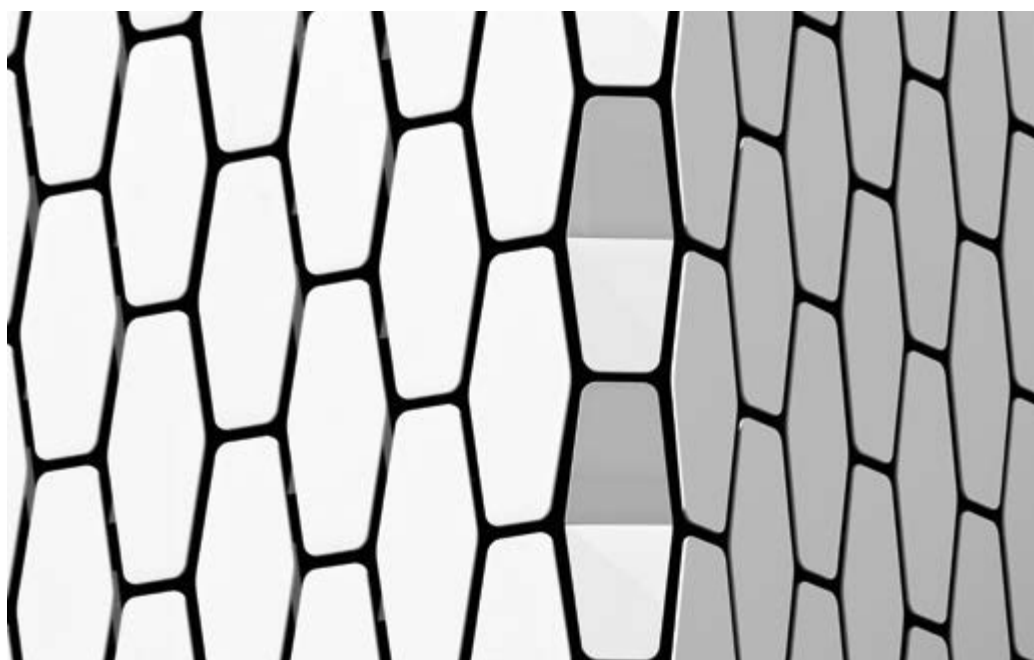
Mechanical or Mechanical-Chemical Systems with Double Back Grooving

DEKCLIP is a mechanical or hybrid fixing system (mechanical with chemical reinforcement).

The type of mechanical anchorage is made up of a series of clips of variable length with two inclined flanges that are fixed to the discontinuous grooves of greater or lesser length made in

the rear face of the piece, and later they are fitted and fixed within a rail horizontal with hook function.

In this type of hybrid system, two hanger profiles (upper and lower) or a clamp-type clip are chemically and mechanically anchored to the material by means of an adhesive and an inclined



or straight grooving with more or less travel on the back of the piece, forming a metal hook.

In both types of systems, the profiles with support rail function that are assembled to the uprights of the substructure ensure the stability of the fixing under heavy loads.

Mechanical or hybrid (mechanical + chemical) fixation with dovetail-shaped grooves on the back of the pieces.



CASE STUDY

ToHa by Ron Arad and Avner Yashar

Tel Aviv, Israel

Materials

28,000 m² of Strato and 6 Dekton iD colours

Facade system

DEKCLIP

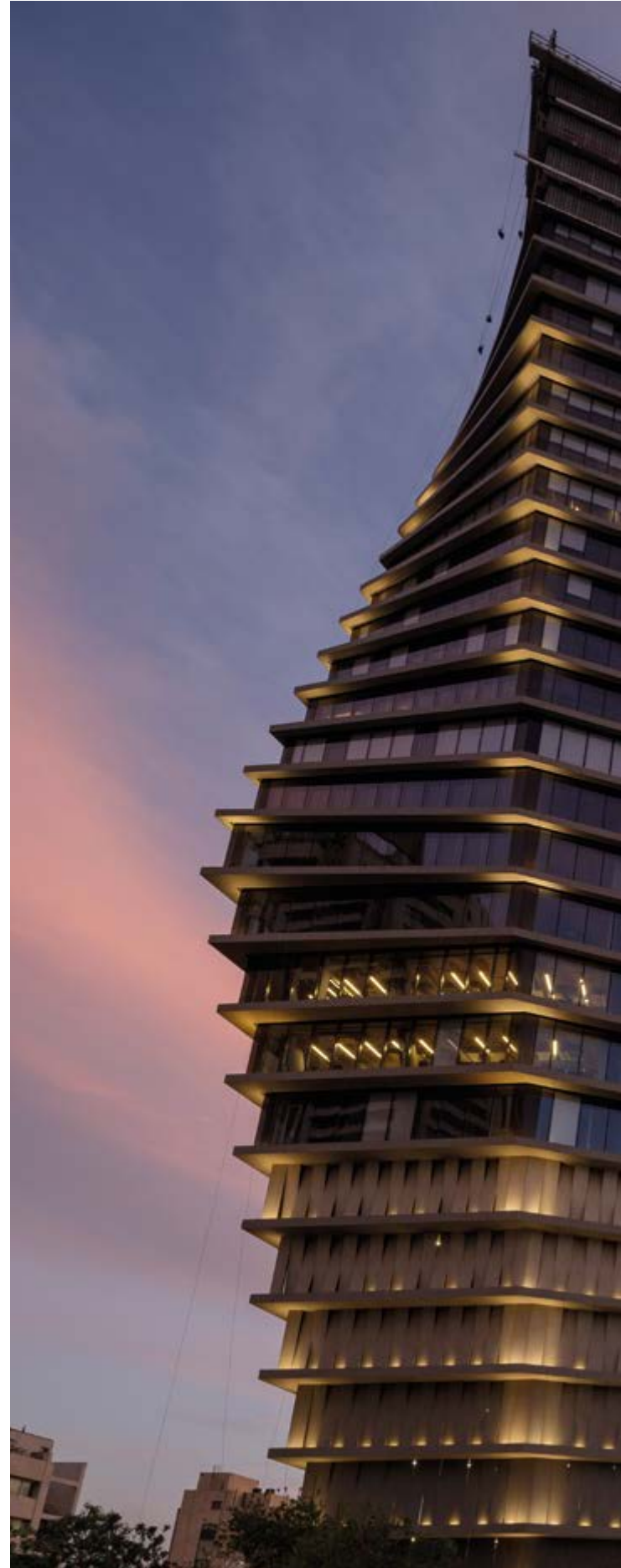
Thicknesses

12 and 20 mm

For the ToHa building project in Tel Aviv, Israel, over 28,000 m² of Dekton® by Cosentino has been used to clad the facade, flooring, lifts, ceilings and interior partitions.

Located in the centre of Tel Aviv at the junction of two shopping streets, the ToHa building reaches 29 storeys high. Its unique, faceted profile, inspired by the geometry of an iceberg, was designed by Ron Arad together with Avner Yashar's local team to house an office complex that includes a public garden, viewing point and restaurant.

Over 28,000 m² of Dekton® by Cosentino was used to clad the building's facade, flooring, elevators, ceilings and interior partitions. The pieces, formed by more than 10,000 different types, were manufactured and cut at Cosentino's headquarters in Cantoria (Almeria, Spain) and transported by ship to Israel.



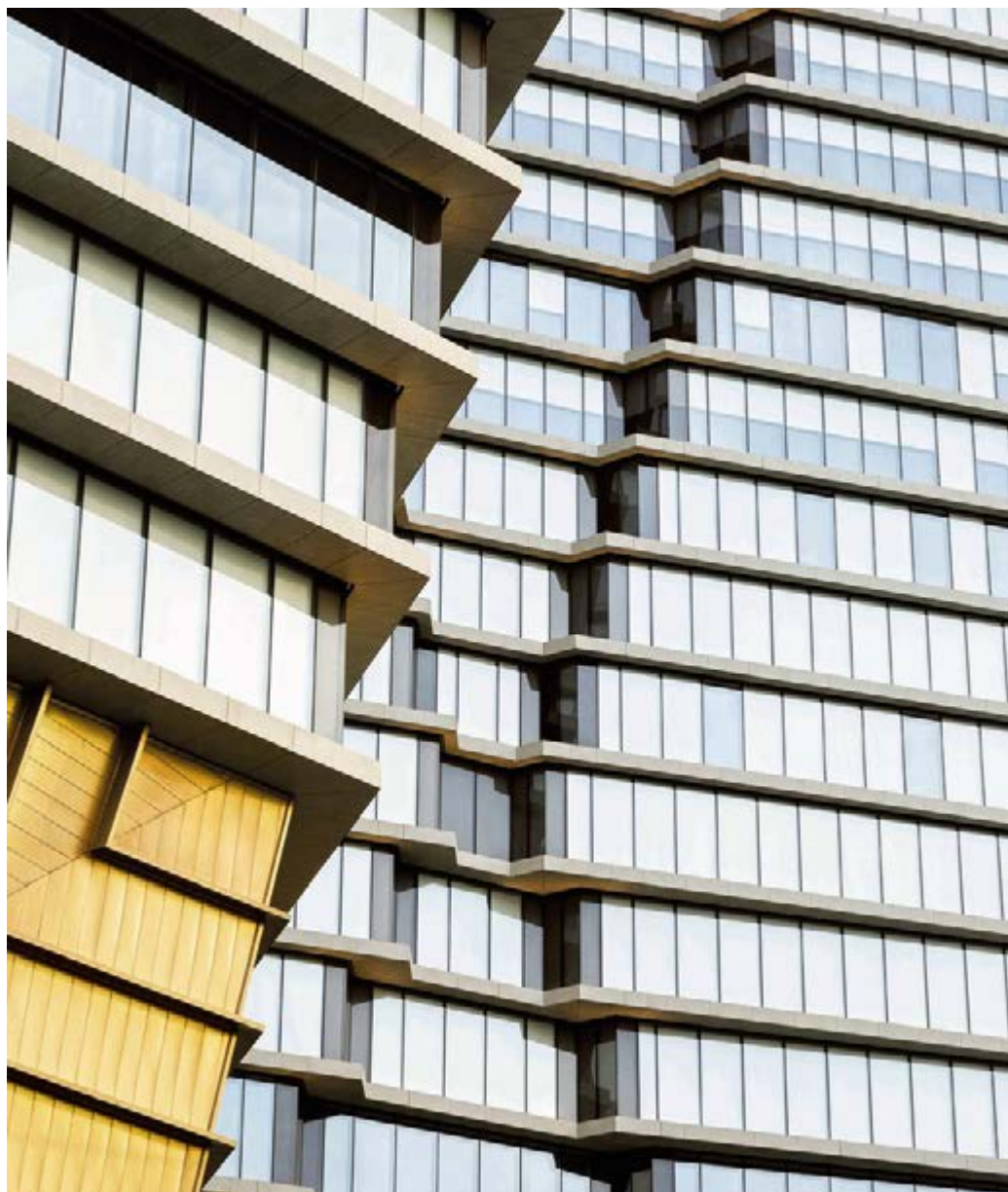


Architectural and decorative aspect of the project.

A key strategic focus of the project was to reduce the building's surface area at street level to create a large garden area, improving the quality of the surrounding area for the public. As a result, the building rises up on two huge legs that widen progressively, framing a spiralled profile. Geometrically versatile, Dekton® adapts with precision to the complexity of the building, thanks to its infinite range of formats, from minimal thickness to maximum surface areas.



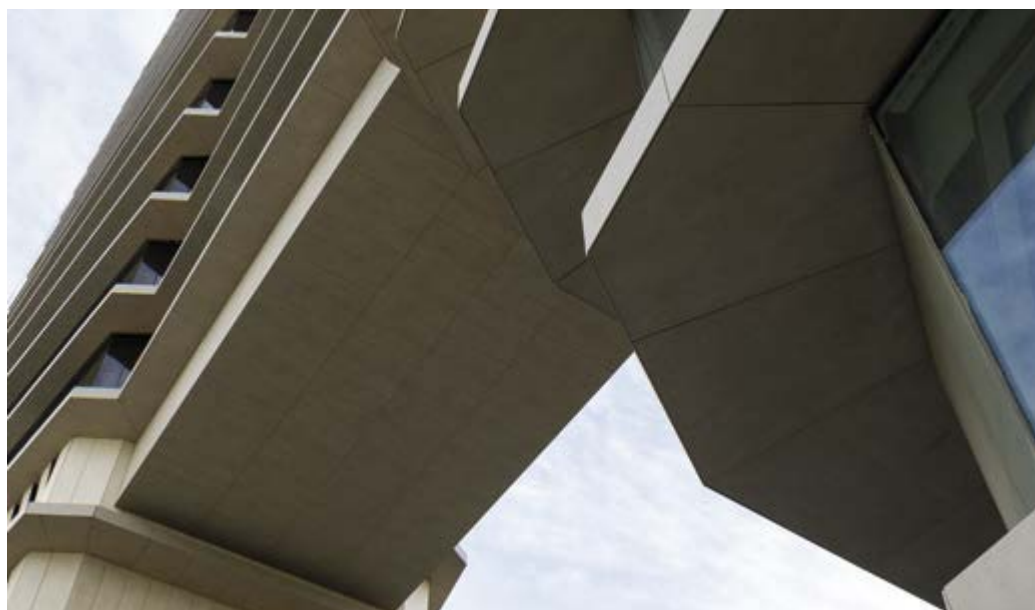
On the intermediate floors, the broken perimeter of the concrete slabs is clad with panels 12 millimetres thick and up to two metres wide which, thanks to minutely accurate cutting, define the vertexes and edges exactly to create an image of perfection.



From a functional point of view, this ambitious project turns the traditional layout of an office block on its head, locating facilities on the ground floor to free up space at the top. This way, the upper levels can be dedicated to leisure use and the offices are distributed up from the seventh floor, optimising access to natural light and views.

The technical foundations are clad using a unique ventilated facade system that alternates the orientation of intersecting Dekton® panels.

This application allows for the passage of air between the large-format (320 x 70 cm) pieces and creates a uniform frontage that gives texture and depth to the elevation. Cosentino also offers the opportunity to custom-make a personalised palette of six colours, based on the Strato model, that create a progressive colour gradation from the lower part upwards.





Inside, a huge 30-metre atrium acts as a vestibule and meeting point. The offices face outwards, through a glass facade, and inwards towards the central courtyard lit by a large light well.

Finishes have been carefully chosen to create a comfortable workplace and coherent corporate image. The possibility to produce large-format Dekton pieces for floors, walls and ceilings allows the number of joints to be reduced and the sense of continuity to be maximised.





Project details

Name: ToHa

Location: Tel Aviv, Israel

End date: 2019

Architecture: Arad Architects, Yashar Architects

Collaborators: Buro Happold Engineering, Israel David Engineering (Consultant structural engineer)

Client: Gav-Yam Amot Totseret Ha-Aretz

Cosentino materials

Application: Roof

Material: Dekton® by Cosentino

Colour: Strato

Thickness: 4 mm

Quantity: 1,800 m²

Format: 140×30 cm

Application: Flooring

Material: Dekton® by Cosentino

Colour: Soke, Sirius, Strato

Thickness: 8 and 20 mm

Quantity: 3,500 m²

Format: Various: 320×144, 140×80, 80×170 cm

Application: interior walls/facade

Material: Dekton® by Cosentino

Colour: Zenith, Sirius, Kadum, Spectra, Strato

Thickness: 8 mm

Quantity: 2,000 m²

Format: Various: 80×270, 70×300

Application: Ventilated facade

Material: Dekton® by Cosentino

Colour: Strato, Spectra

Customised colours: Totzeret1, Totzeret2, Totzeret3, Totzeret4, Totzeret5, Totzeret6

Thickness: 12 mm

Quantity: 20,000 m²

Format: various

Photography credits: Fernando Alda



CASE STUDY

Sea Towers

Barcelona, Spain

Material

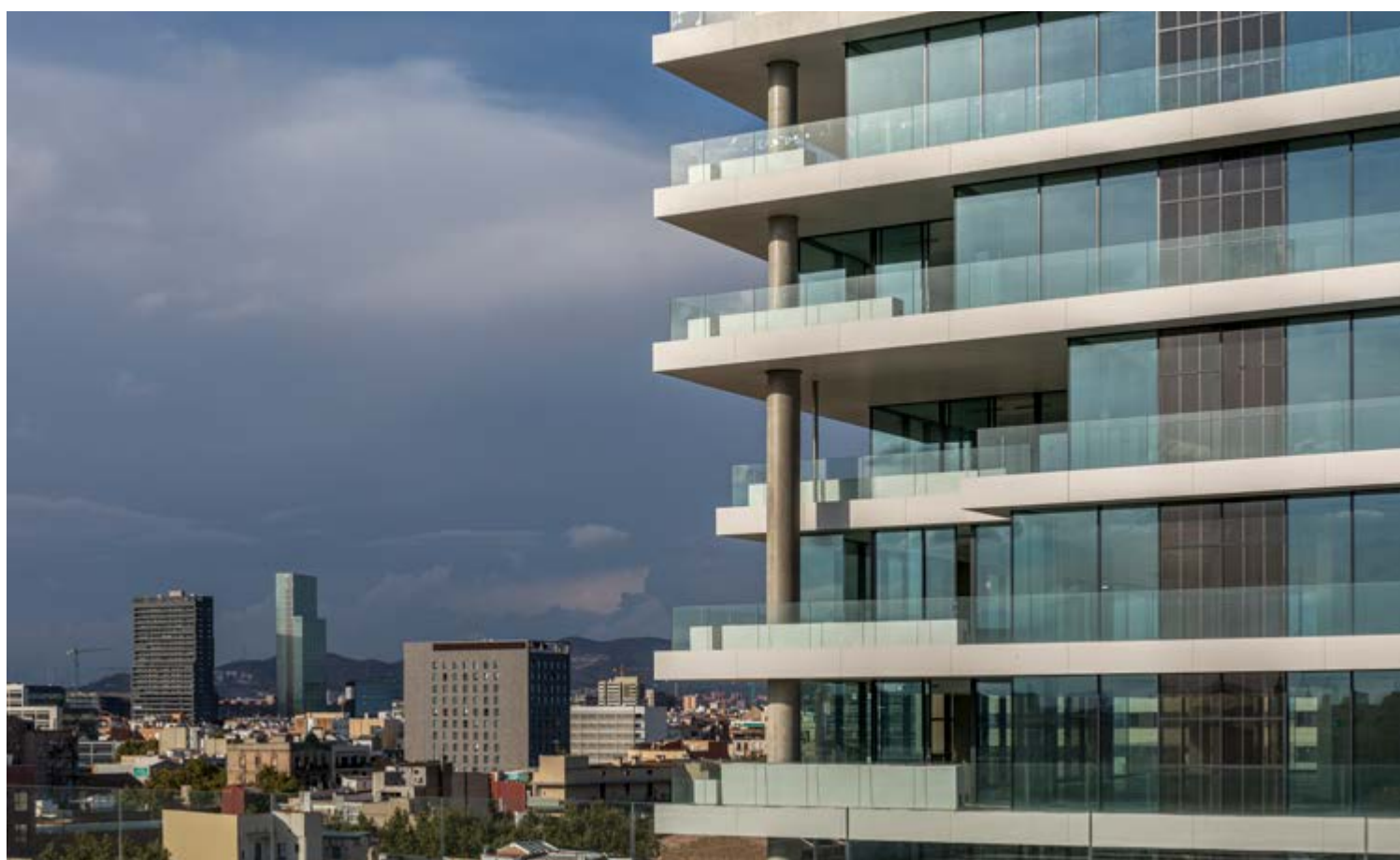
17.000 m²
Dekton® Nayla

Facade system

DEKCLIP

Thickness

8 mm





CASE STUDY

Art Hotel Las Palmas

Las Palmas de Gran Canaria,
Spain

Materials

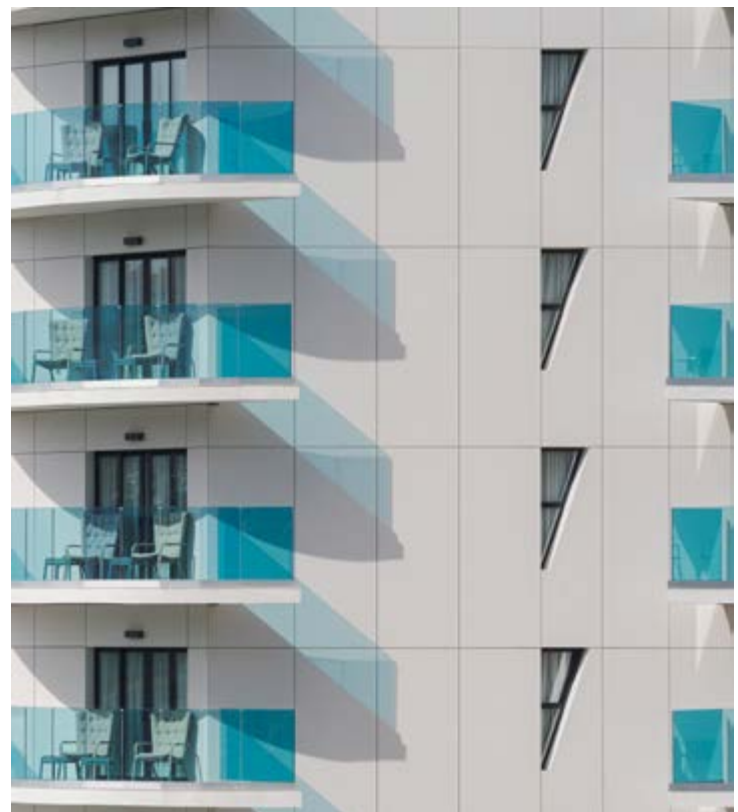
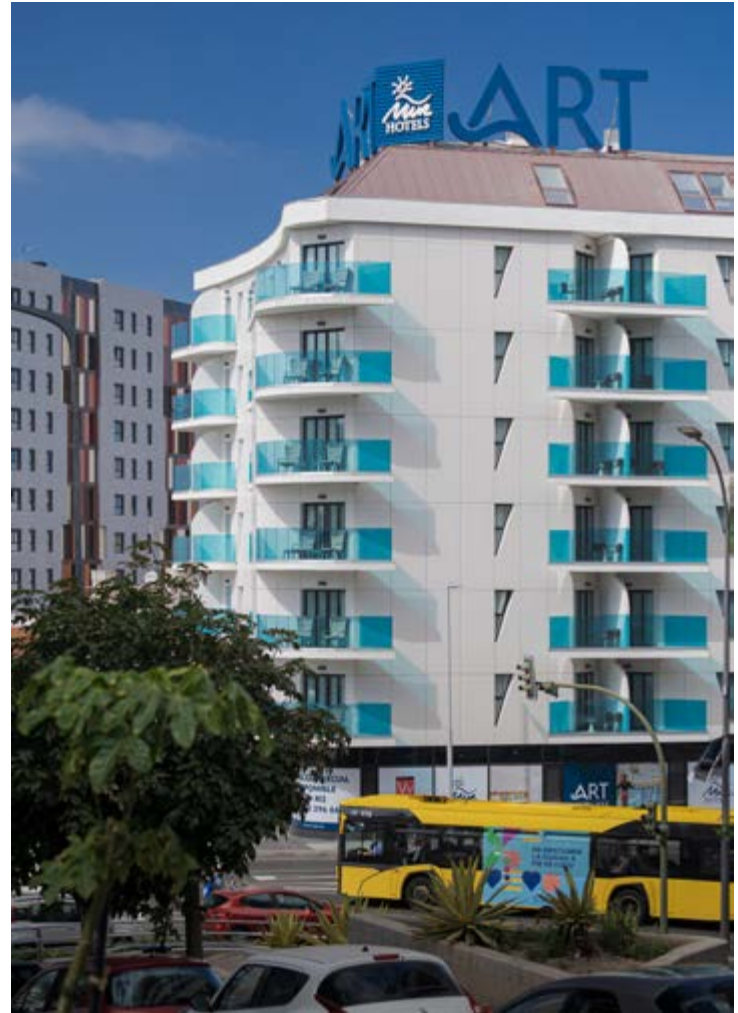
1,200 m²
Dekton[®] Aeris and Dekton[®] Eter

Facade system

DEKCLIP

Thickness

8 mm





CASE STUDY

Rafa Nadal Academy by Movistar

Manacor, Majorca, Spain

Materials

Dekton® Strato, Ventus, Zenith, Spectra, Trilium, Keon, Domoos and Customised Blue.

Facade system

DEKCLIP

Thicknesses

8, 12 and 20 mm









CASE STUDY

Armonk Professional Center

New York City, USA

Material

126 m² Dekton® Trilium

Facade system

DEKCLIP

Thickness

12 mm

CASE STUDY

Gunni & Trentino Flagship Store

Madrid, Spain

Materials

600 m² Dekton® Xgloss Halo

100 m² Dekton® Domoos

Facade system

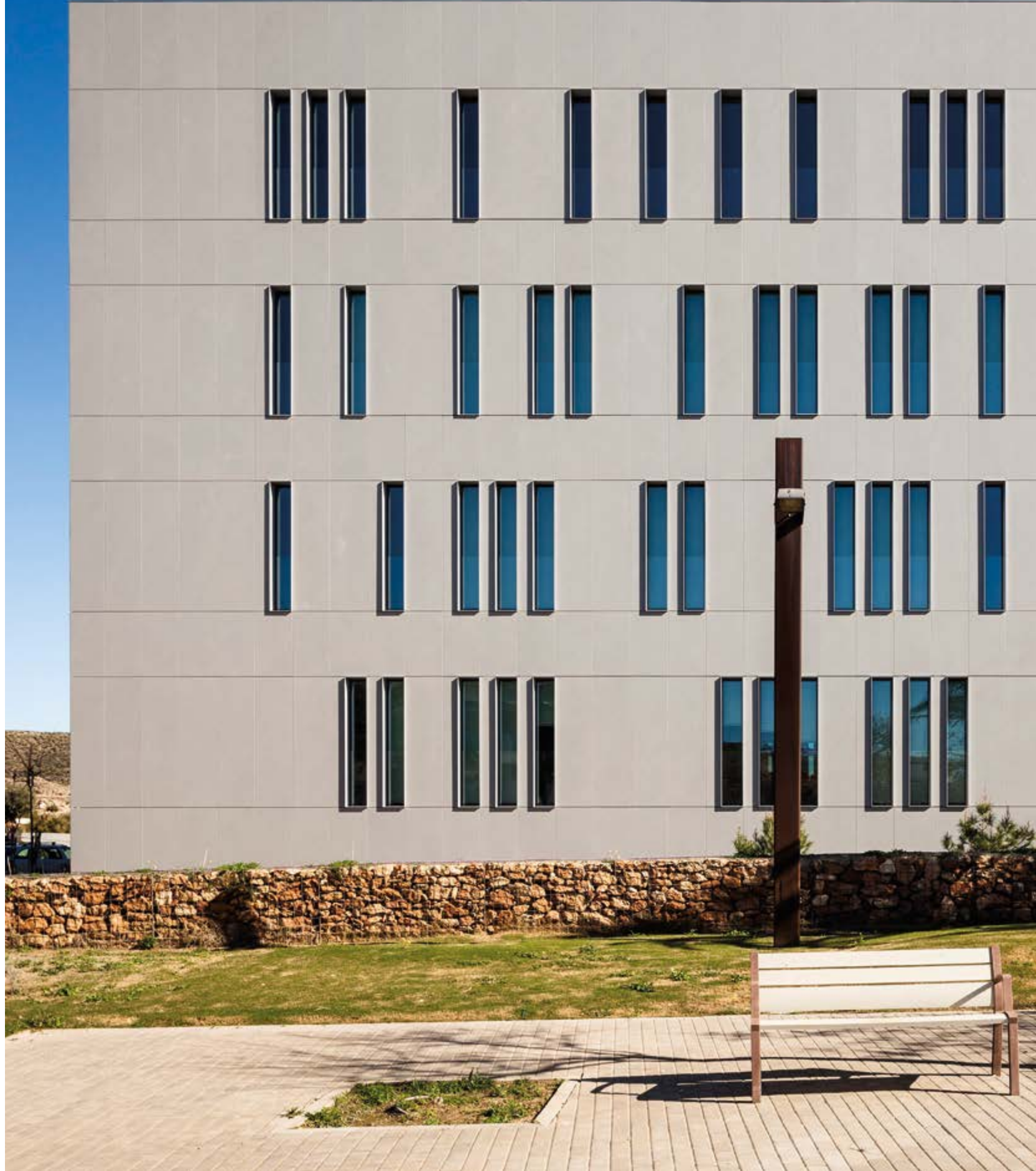
DEKCLIP

Thickness

12 mm







CASE STUDY

Cajamar Building

Almería, Spain

Material

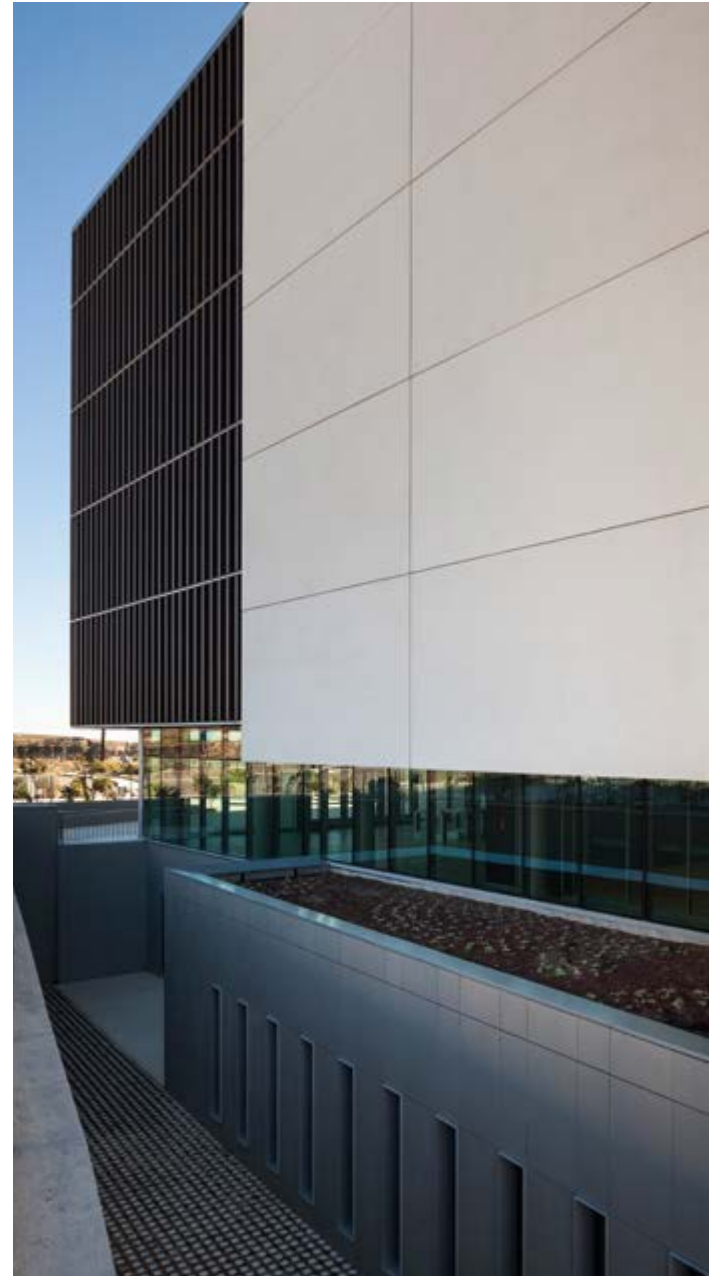
2,000 m² Dekton® Sirocco

Facade system

DEKCLIP

Thickness

12 mm



CASE STUDY

444N Orleans Building

Chicago, USA

Material

Dekton® Aura Bookmatch

Facade system

DEKCLIP

Thickness

12 mm







DK T4

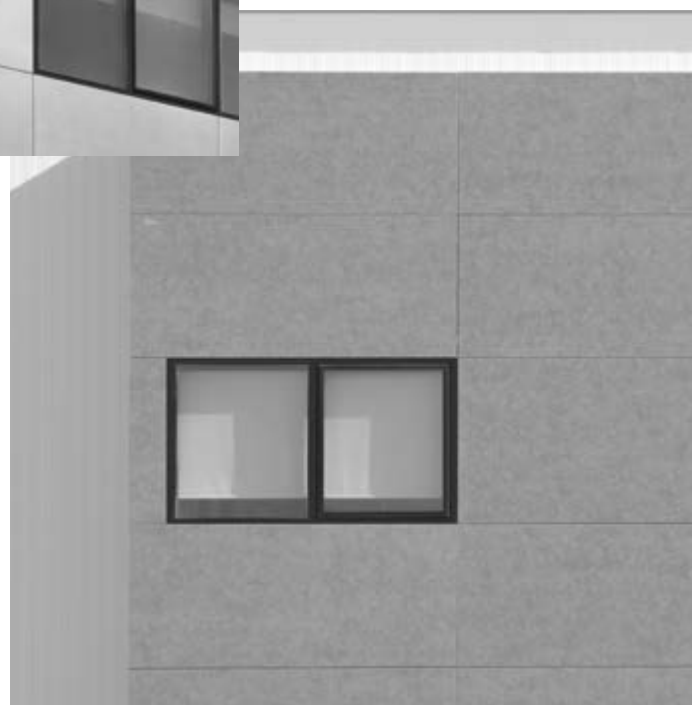
Visible Clip Fixing System

In the DKT4 system of visible fixing, the piece is shown as it is, with the fixing tabs of the upper and lower pieces visible to the eye. The clips hold both pieces and keep them in line with the plane of the facade, as well as maintaining the distances (joints) between consecutive pieces.

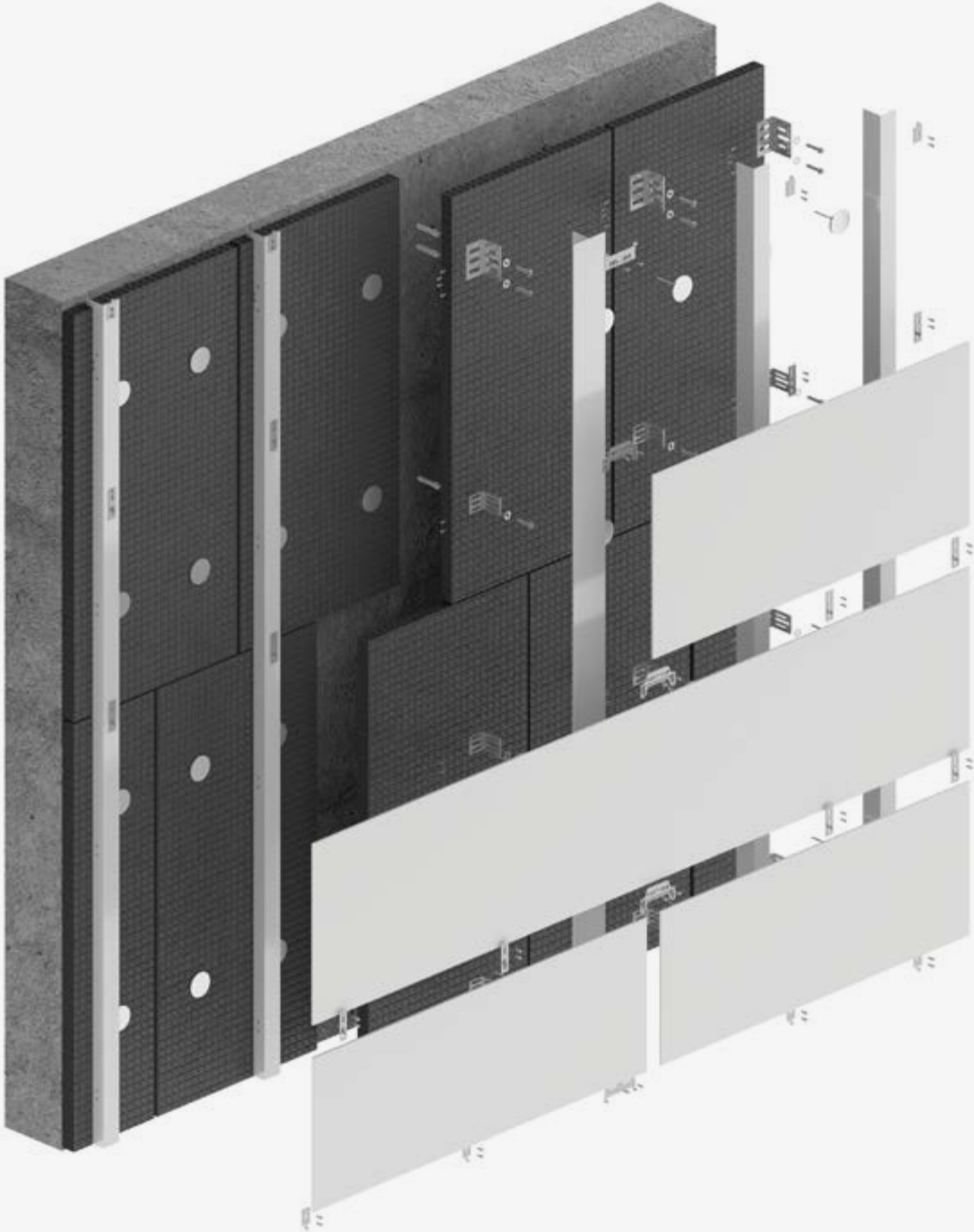
Although this type of fixing is fairly flexible in adapting to the thickness of the material, it is ideal for the smaller sizes, lighter weights and smaller thicknesses.



Mechanical fixing
using visible clips
that hold the pieces.



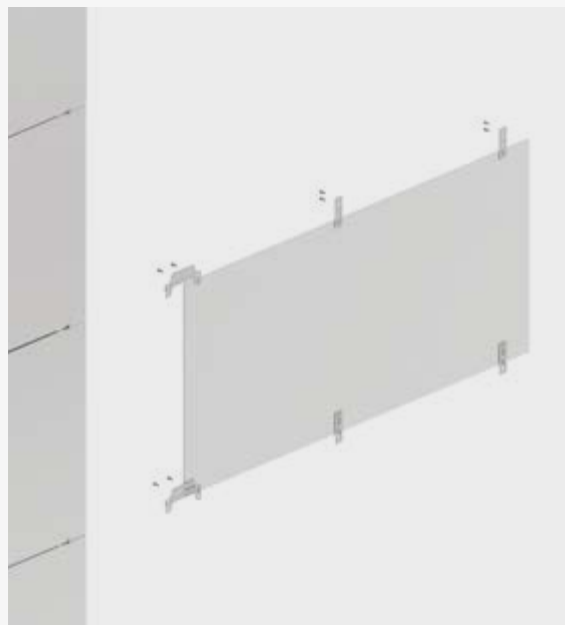
DKT4 - Diagram



Bottom and middle clips



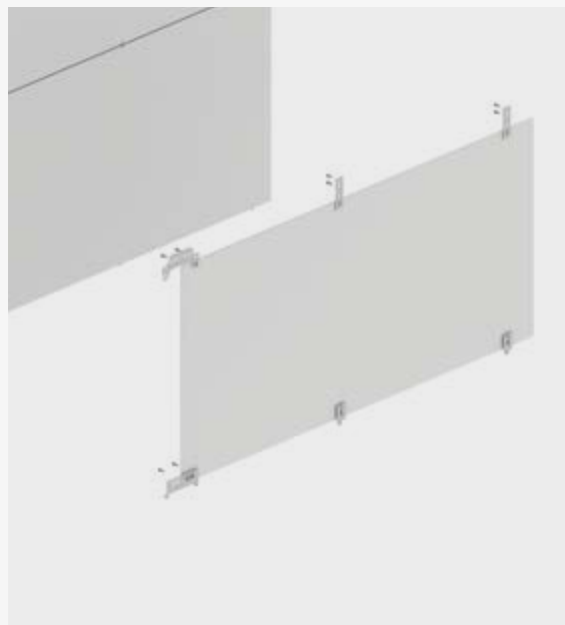
Middle clips



Joints



Bottom clips





CASE STUDY

Schaffhauserstrasse

Zurich, Switzerland

Material

550 m² Dekton® Sirius

Installation system

DKT4

Thickness

20 mm



Elan Centre, Netanya, Israel



DK R

Rivet fixing system

It is a visible mechanical fixing system using Dekton® coloured rivets. Possibility of cutting large slab formats up to full slab formats, both vertically and horizontally, mainly in thicknesses of 4 and 8 mm. To do this, the pieces must be pre-drilled in the workshop or on site with a water supply.

Dry drilling of 4 mm Dekton® panels is possible with the right drill bit. Dekton® coloured rivets can be supplied by Cosentino so that they blend in better with the overall appearance of the facade and are less noticeable from a distance.

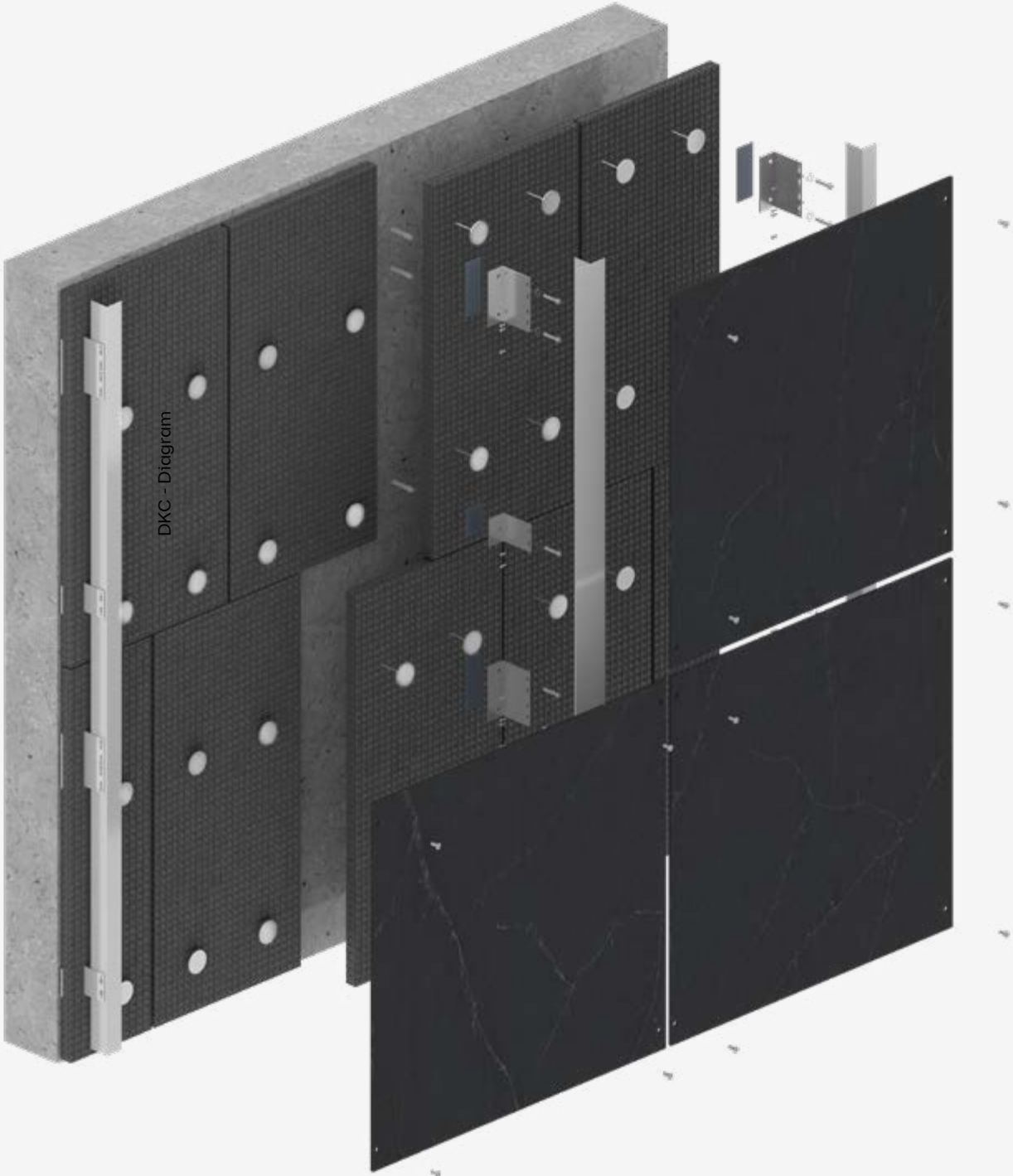


A range of accessories such as fixed point spacers, a self-centering drill bit and a rivet nose piece are required for the correct installation of the panels. All of these can be supplied by Cosentino. The idea of this system is that the rivets do not exert pressure on the piece, but that the piece hangs on the profiles and is always free to move in a way that is compatible with the expansion of the profiles.

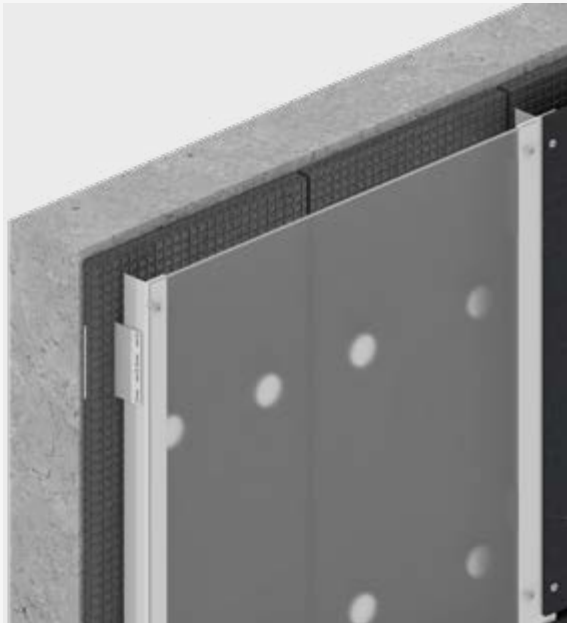
Visible mechanical fixing with rivets



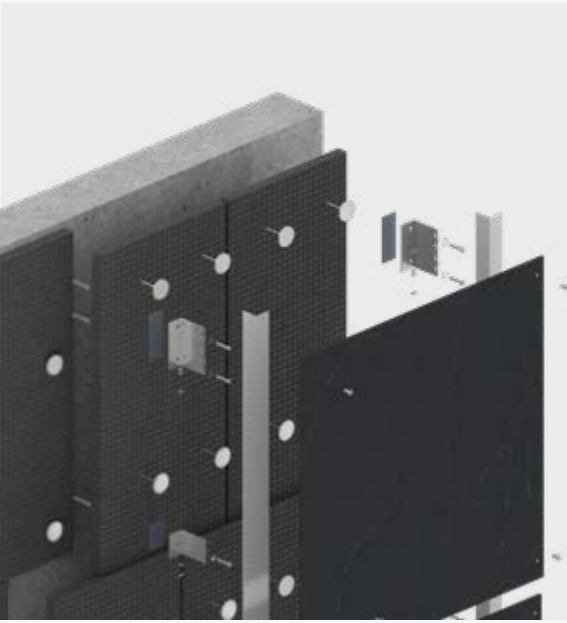
DKR - Diagram



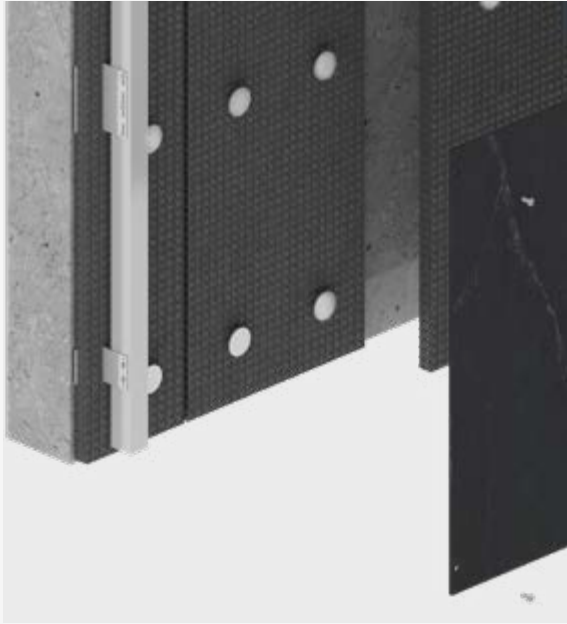
Joint



System details



Start detail



System details



CASE STUDY

Elan Centre

Netanya, Israel

Materials

2,200 m²

Dekton® Kreta / Dekton® Lunar

Facade system

DKCW and DKR

Thickness

8 mm







CASE STUDY

Hadar Project

Tel Aviv, Israel

Materials

Dekton® Moone 4,500 m²

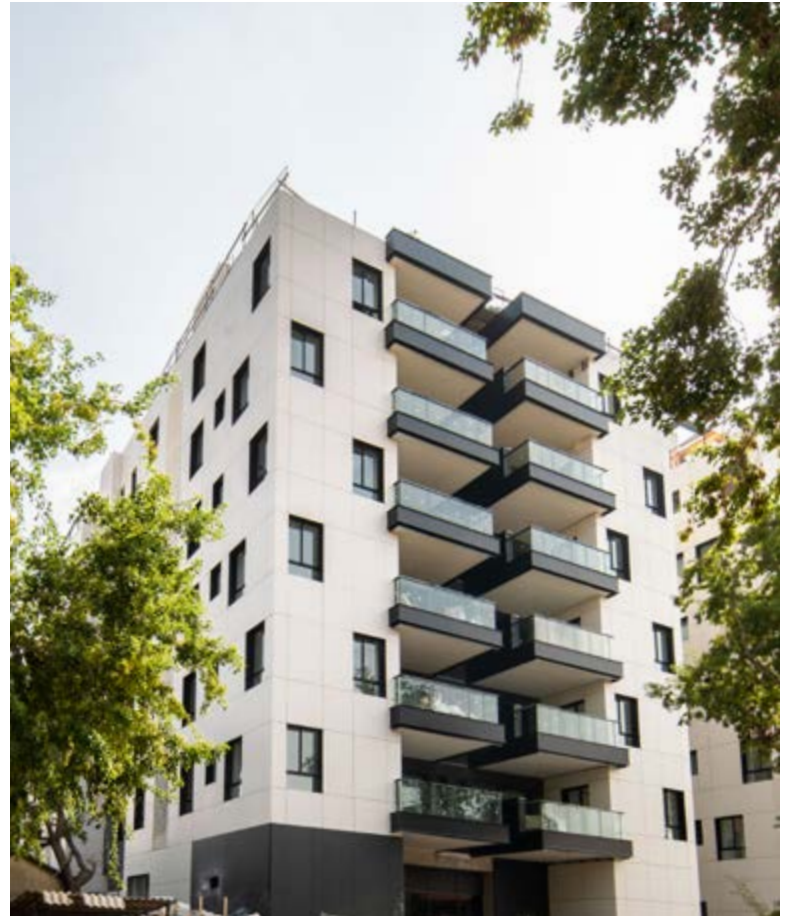
Dekton® Strato 1,500 m²

Facade system

DKR

Thickness

8 mm



Leonardo Building, Johannesburg, South Africa





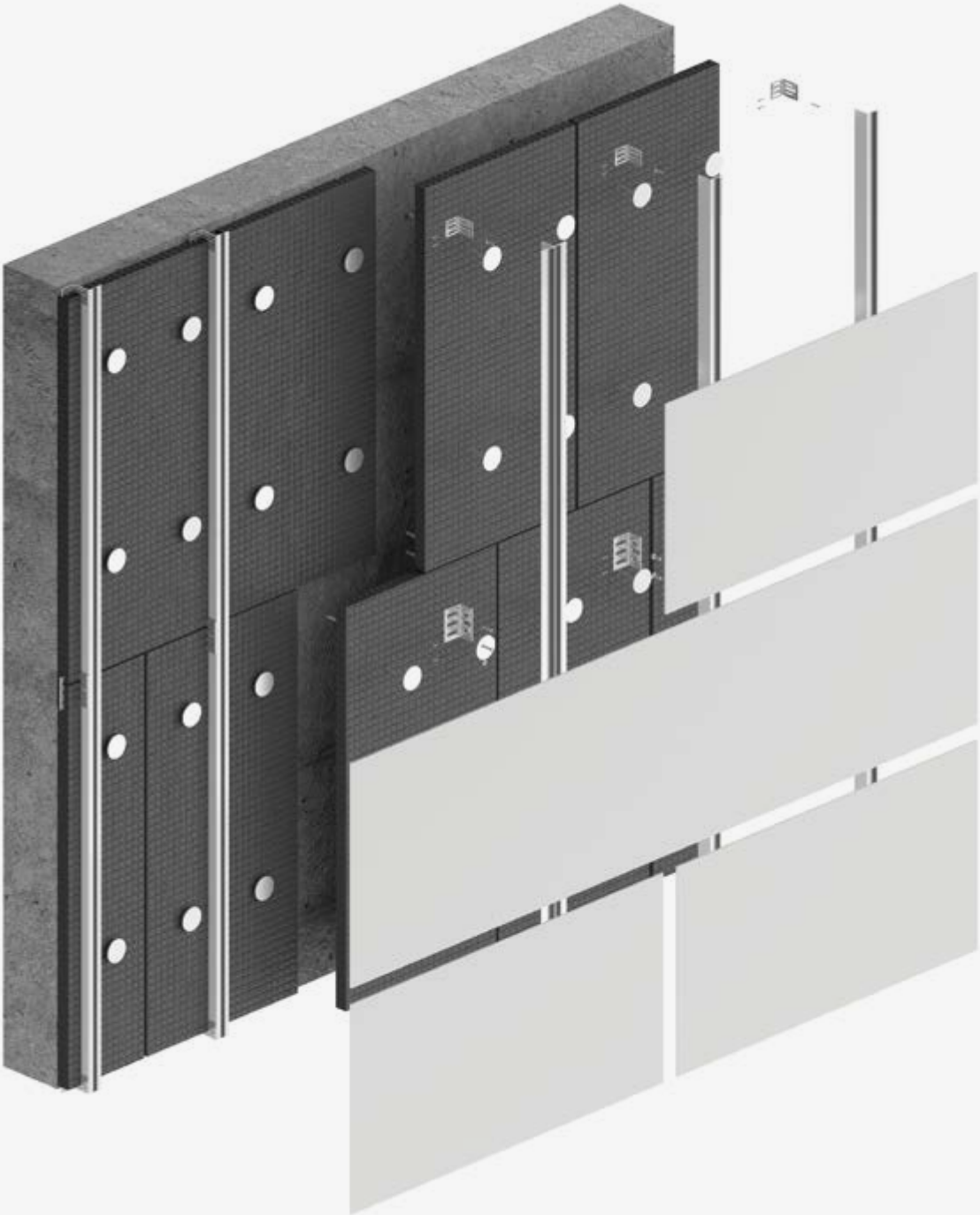
Chemical Anchor System

DKC is a totally chemical fixing system, which allows parts to be glued directly to the supporting substructure with structural adhesives, avoiding any machining of the part. Starting from a profile, two strips of double-sided tape are placed in the center while they are added to the perimeter of said profile.

During fixing, the double-sided tape secures the piece while the adhesive is curing. You can work with a wide range of formats and even design pre-assembled elements in the factory. This system allows a wide range of thicknesses, with 8mm pieces being the most demanded in renovation works and for changes of image.



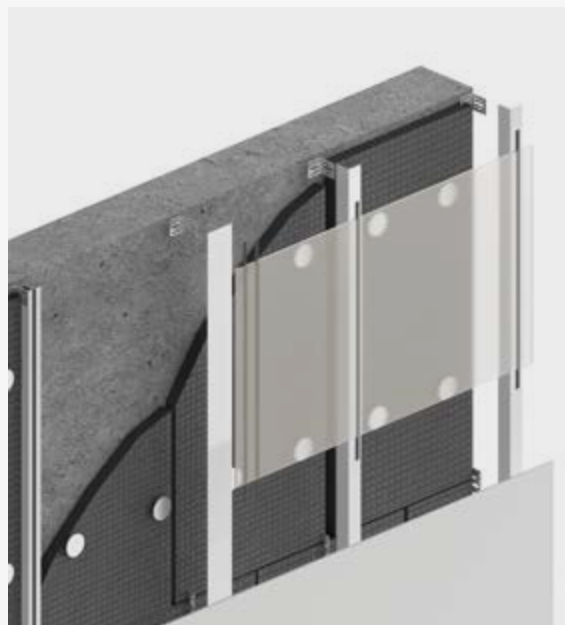
Fixing with
chemical
anchoring
on profiles.



Substructure



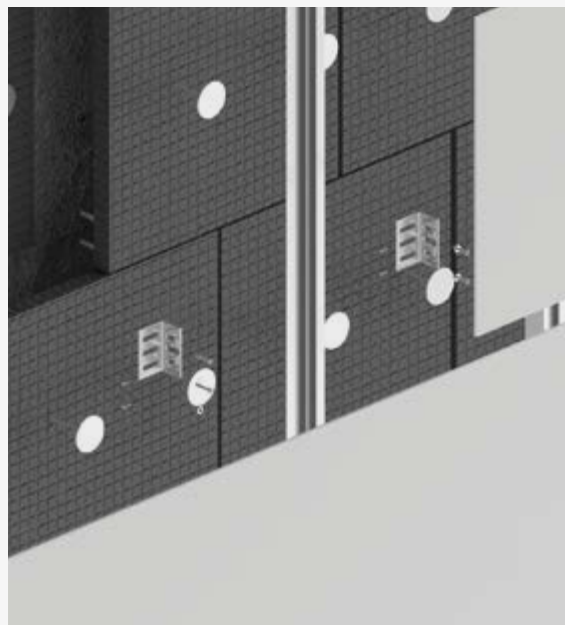
Chemcial anchor system



Joint



System detail





CASE STUDY

Villa Haifa

Haifa, Israel

Material

300 m² Dekton® Domoos

Facade system

DKC

Thickness

8 mm





CASE STUDY

Leonardo Building

Johannesburg, South Africa

Material

20,000 m² Dekton® Gada

Facade system

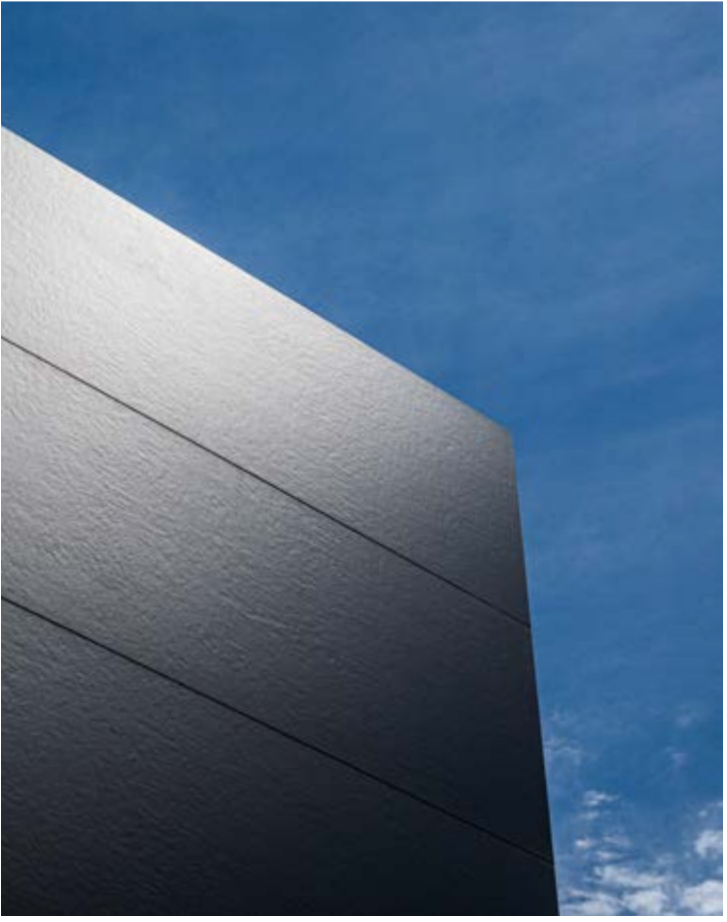
DKC

Thickness

8 mm







CASE STUDY

Villa Sant Gregori

Girona, Spain

Material

400 m² Dekton® Sirius

Facade system

DKB

Thickness

8 mm





CASE STUDY

TR House

Barcelona, Spain

Material

350 m² Dekton® Blanc Concrete

Facade system

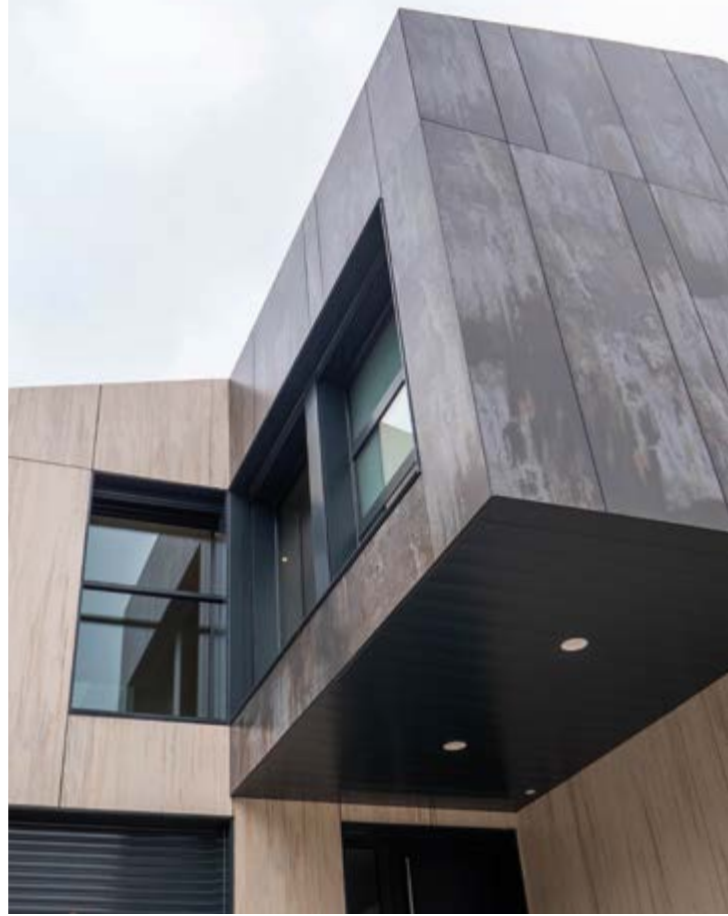
DKC

Thickness

8 mm







CASE STUDY

Family home in Álava

Álava, Spain

Materials

600 m² Dekton® Trilium

120 m² Dekton® Makay

Facade system

DKC

Thicknesses

4 and 8 mm







CASE STUDY

Gardens Valdenoja development

Santander, Spain

Material

1,000 m² Dekton® Kreta

Facade system

DKC

Thickness

4 mm





CASE STUDY

Rosh Hanikra

Rosh Hanikra, Israel

Materials

400 m²

Dekton® Kelya

Dekton® Soke

Facade system

DKC

Thickness

8 mm









Moles Building, Girona, Spain.



DK B**Direct
Adhesion**

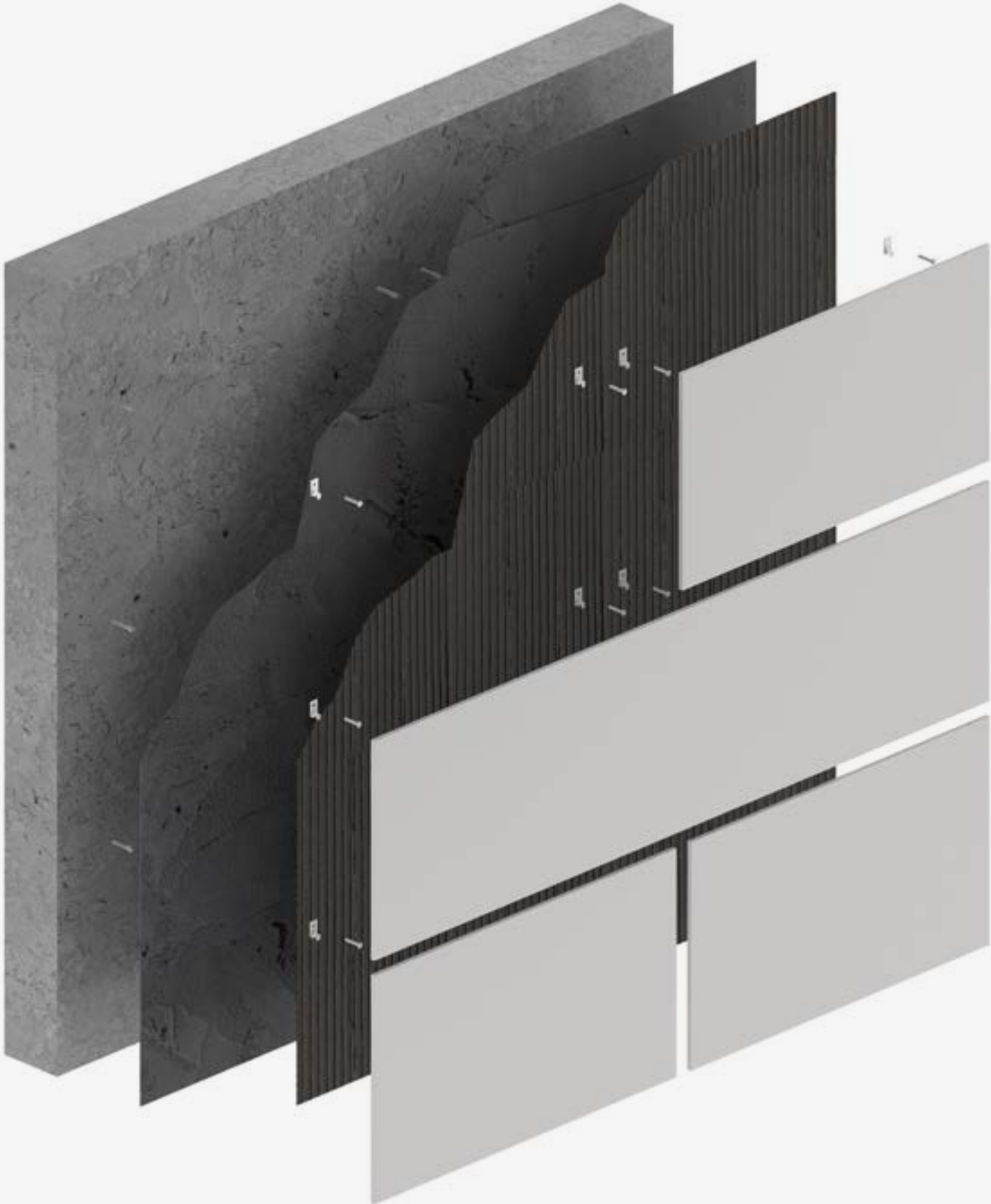
The DKB system is a glued facade system, without format limitations and where 8mm thickness is commonly used. Each piece is applied directly to the cladding, thanks to a layer of improved cement based adhesive applied according to the technique of double gluing on the support and back of the piece, leaving horizontal

and vertical joints of at least 3mm. Generally, the use of hidden security clips is always recommended (and is compulsory in some places according to local standards), slotting the edge of the piece or making a regular groove on the back, and always following the local regulations applicable to each project.



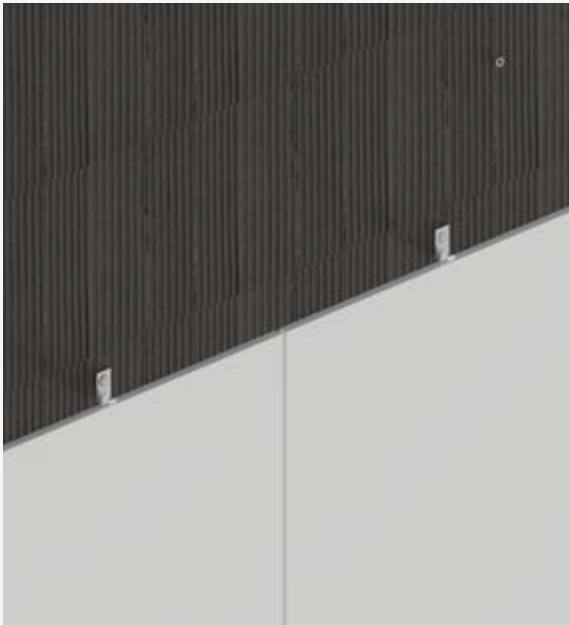
Fixing with cement-
based adhesive





DKB - Diagram

Joint



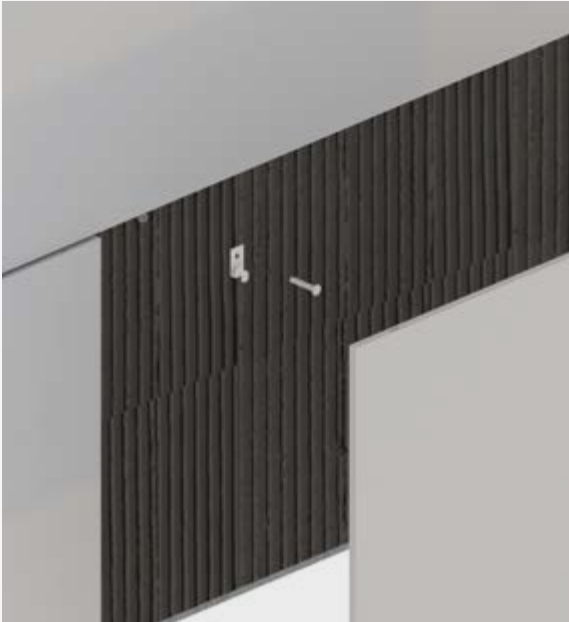
Detail of system layers



Bottom



System detail





CASE STUDY

La Gramoia

Girona, Spain

Materials

700 m²

Dekton® Lunar

Dekton® Bromo

Facade system

DKB

Thickness

8 mm







CASE STUDY

BallyCotton

Cork, Ireland

Material

Dekton® Kira

Facade system

DKB

Thickness

12 mm







DK S

ETICS/EIFS System

In our fast-moving world, homes undergo multiple refurbishments for aesthetic and decorative reasons as well as to create warmer indoor environments. The DKS system is an External Thermal Insulation Composite System (ETICS)

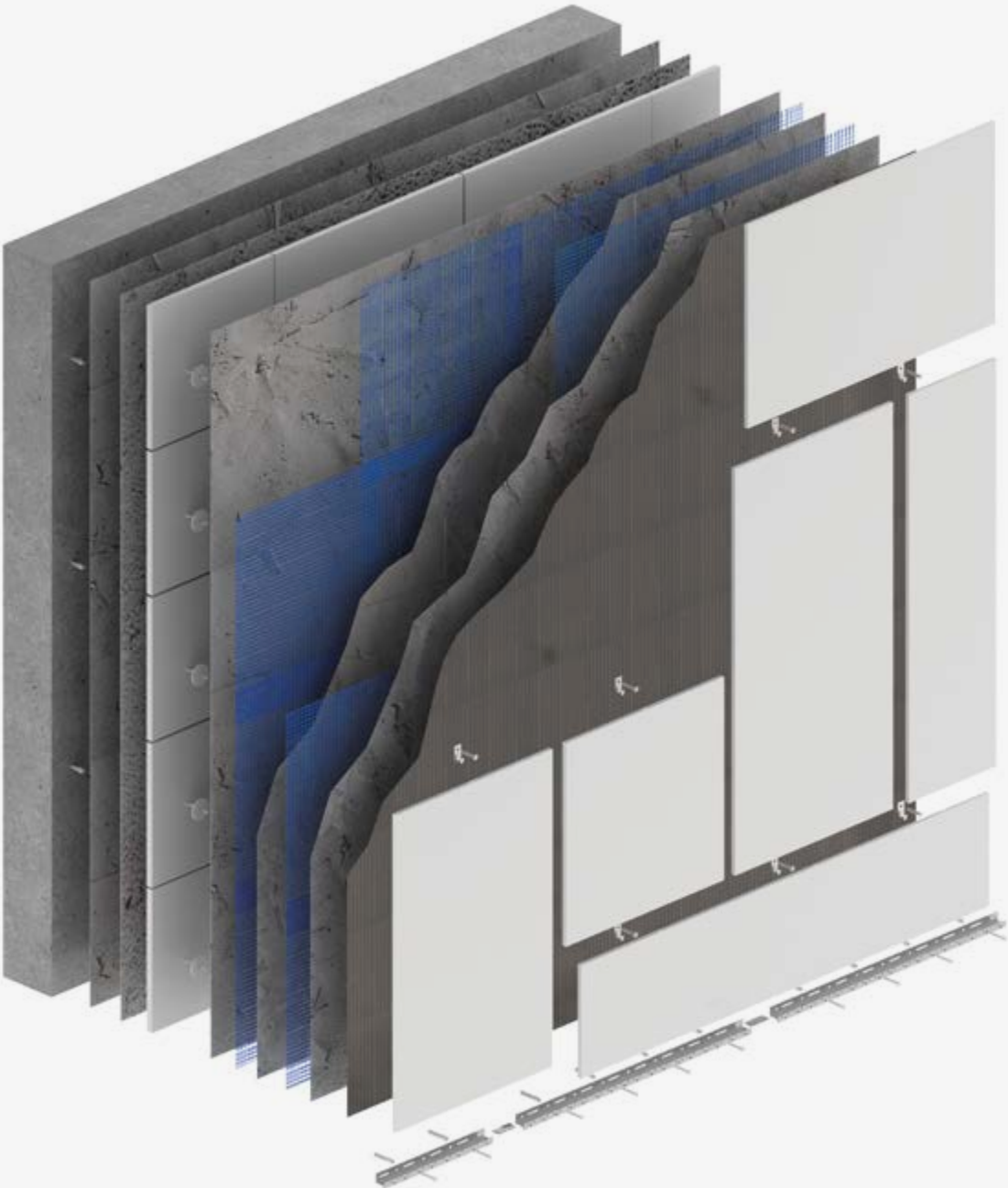
clad on the outside with Dekton®. On an ETICS that is ready to be finished with cladding, Dekton is applied using a suitable cement based adhesive.



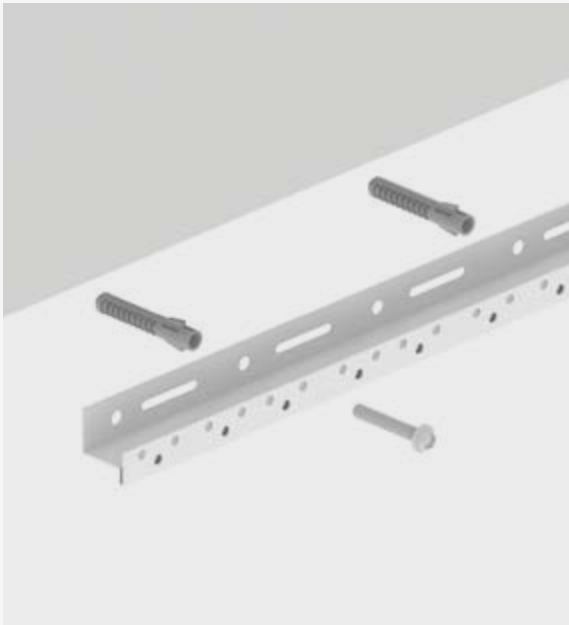
Because the pieces are adhered to the finished reinforced layer of the insulation system, there is a limit to the weight and format, which must be indicated by the ETICS supplier. The product and application instructions of the ETICS supplier must be followed to fully guarantee the application.

Fixing pieces of an external thermal insulation (ETICS) project of high energy-efficiency.

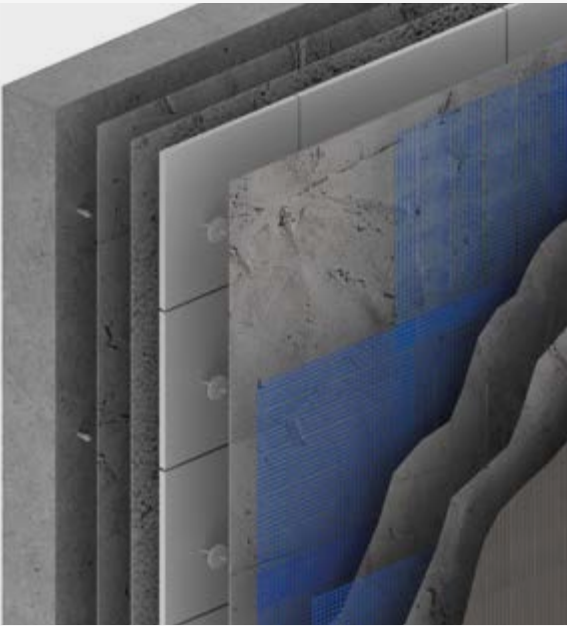




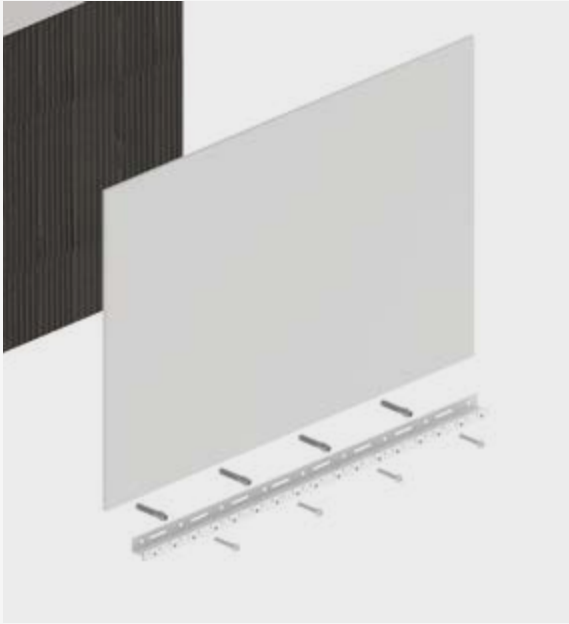
Starting profile



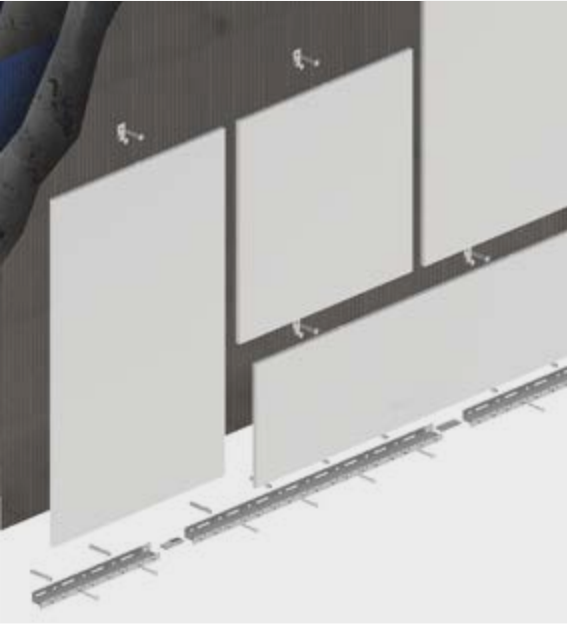
System Detail



Bottom Slab



System detail



Elan Centre. Netanya, Israel





Wall curtain system

A curtain wall is a non-loadbearing exterior wall cladding system consisting of linear elements that are connected to each other and anchored to the main structure of the building.

It can be divided into structural and infill elements (fixed or movable). The structural elements usually

follow a grid pattern with vertical elements or mullions fixed to the building structure to support their own weight, the forces transmitted to them by the horizontal elements or transoms, and the loads acting on the facade such as wind (suction and pressure), seismic and impact loads. The infill elements are divided into

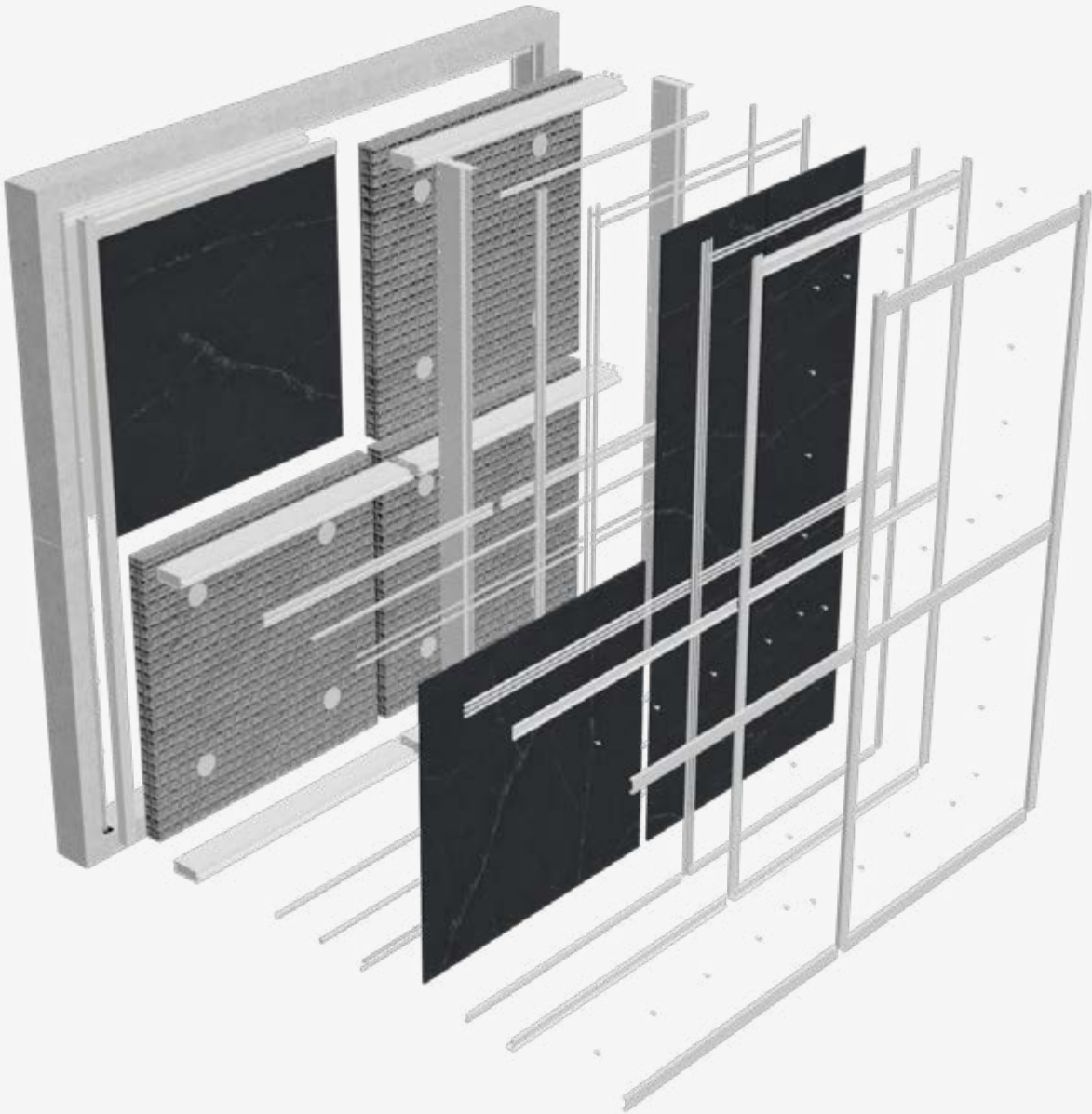


transparent or translucent and opaque, including Dekton®, which can be fixed to mullions and transoms using different systems depending on the type of structure and project requirements.

The curtain walling systems can be divided into two main types: the STICK type, with a framework of profiles with opaque and transparent areas that are transported, assembled and installed individually on site, and the UNITISED type, where all the elements are pre-assembled in the workshop and then transported and installed on site.

Depending on how they are fixed, there are two types of infill elements: those fixed with structural silicone for glazing (SSG) and those fixed with a press and cap system.

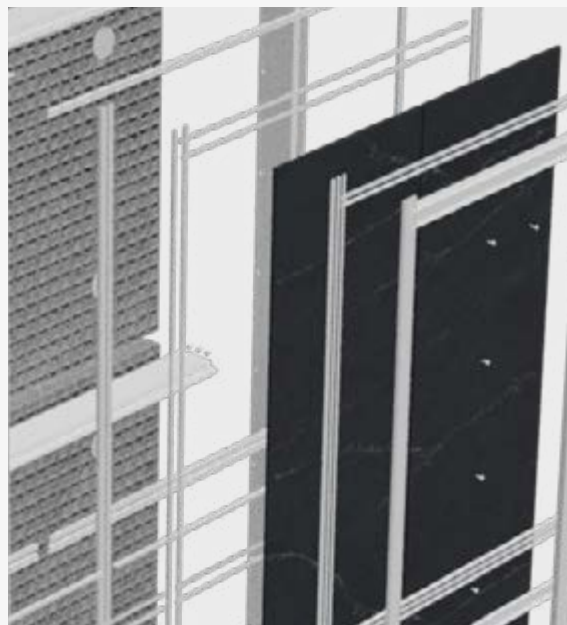




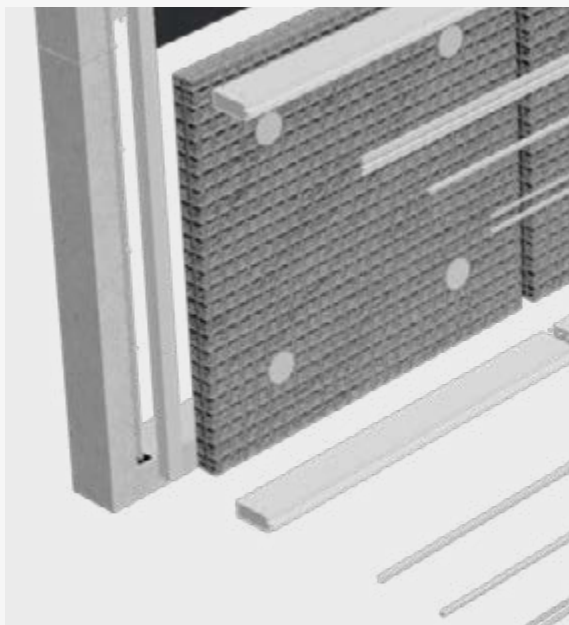
Detailed view of the system



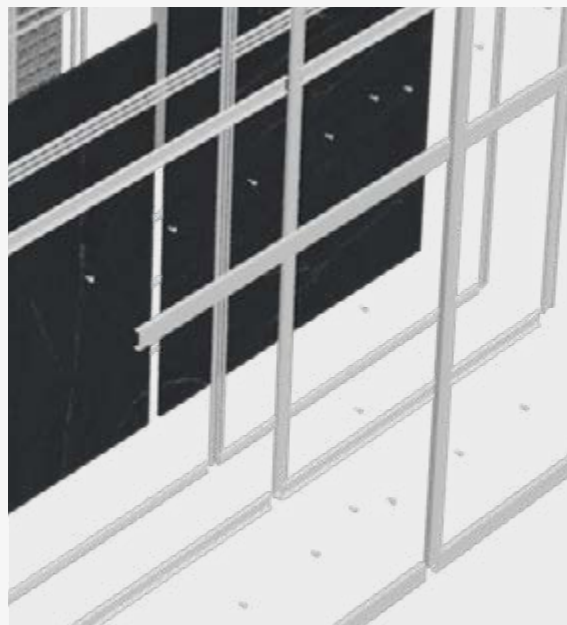
Detailed view of system layers



Start



Detailed view of system layers



CASE STUDY

Elan Centre

Netanya, Israel

Materials

2,200 m²
Dekton® Kreta
Dekton® Lunar

Facade system

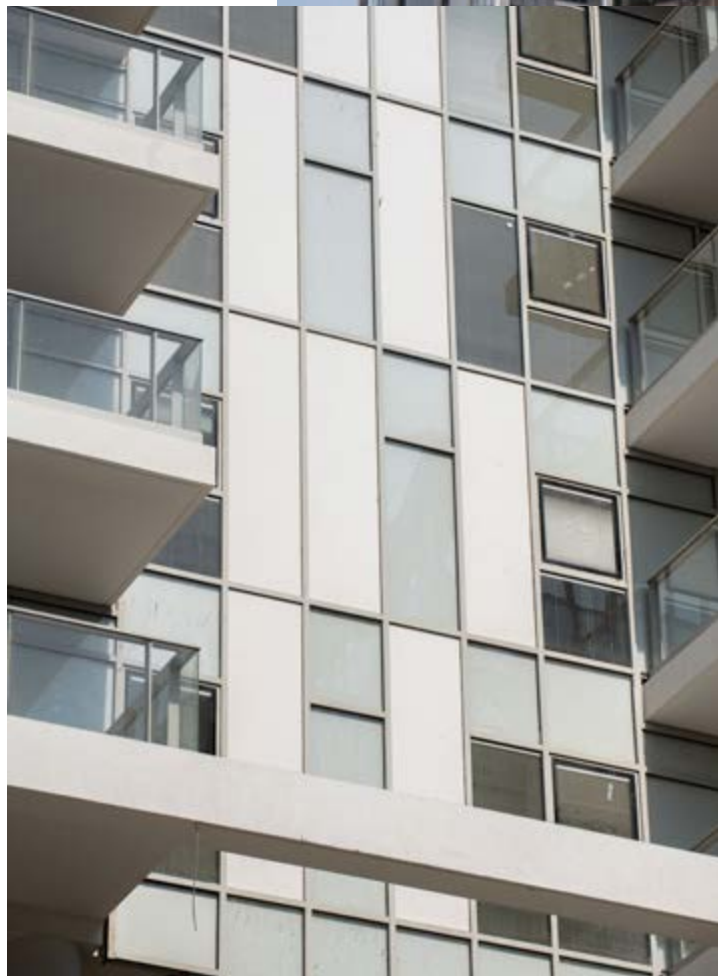
DKCW and DKR

Thickness

8 mm







CASE STUDY

Golf Project

Tel Aviv, Israel

Material

4,500 m² Dekton[®] Aeris

Facade system

DKCW

Thickness

8 mm



General Conditions of Sale Cosentino Group (“Cosentino”)

1. Scope and validity

The present General Conditions of Sale shall be applicable provided that the parties have not agreed upon other specific conditions expressly and in writing. The same shall be of priority application, where appropriate, on the general conditions of the purchaser.

The Client acknowledges that the General Conditions of Sale have been made available to them prior to the business relations to which they may apply. The undertaking by COSENTINO of the sale of a product to the Client implies the acceptance for this, fully and without reservation, of its terms that are considered automatically and duly incorporated into the business relations between the parties.

Signing the delivery note or delivery document implies the acceptance of the present General Conditions of Sale, as well as the quality, quantity and state of the goods.

When the sale refers to Dekton panels for facades, the client acknowledges that the Conditions of Service Provision and the Technical Conditions for Facades form an indissoluble part of these General Conditions of Sale.

COSENTINO offers are not binding until a written confirmation of the order has been issued.

Orders sent by the client are binding. They may be accepted by COSENTINO within two weeks of receipt, either in writing or by delivery of the material to Client. If the order is submitted electronically and a confirmation of receipt is issued, such confirmation of receipt does not constitute a binding acceptance of the order.

2. Pricing

The sales prices of the products shall be those that are set in COSENTINO's offers and rates, disclosed to the Client, or alternatively the specific terms and conditions agreed upon between COSENTINO and the Client. The corresponding taxes shall be added to said prices.

COSENTINO may change the sales prices of products at any time. The increase in the sales price shall not affect those already-underway orders that have been expressly accepted by COSENTINO.

COSENTINO reserves the right to set a credit limit for each Client and subordinate deliveries on the basis of this limit and/or the presentation of an adequate payment guarantee. In the event of any delay in payment, COSENTINO may proceed to recover the goods pending payment and/or initiate appropriate legal action.

3. Product guarantee and delivery

COSENTINO guarantees that the products are marketed under the terms of the specific product guarantee that is made available to the Client, which the latter declares to know and accept.

The order represents an acquisition commitment for the Client.

COSENTINO reserving the right to suspend or cancel them, in cases where the provided guarantees of solvency are deemed insufficient.

The product delivery dates agreed upon with Clients shall always be merely indicative, with any delivery subject to

the availability of stock. COSENTINO shall not be liable for any non-delivery of products or delays of the same.

The Client must review the goods at the time of reception, informing COSENTINO in writing as soon as possible and, in any event, no later than seven (7) days as from the delivery date of the goods, of any external and apparent defects that they may see. The delivery of materials shall be understood as delivered by simply making them available to the purchaser, in the COSENTINO facilities.

Any exchange or return of goods consisting of full slabs that the Client may request within thirty (30) days following the receipt of the goods shall be verified and approved by COSENTINO.

Furthermore, any exchange or return of goods consisting of full slabs requested by the Client after thirty-one (31) until ninety (90) days from the date of receipt of the products must be verified and authorised by Cosentino and a refund fee equal to 25% of the price of the goods will be applied.

Returns of full slabs will not be accepted after ninety (90) days from the receipt of the products.

As a general principle, materials produced or purchased especially for the Client will not be returned.

If COSENTINO produces tools or orders them for Customer's orders and charges the incurred costs proportionately to the Customer, ownership of such tools and their accessories does not pass to the Customer, nor does the Customer have a right to their delivery. In particular, the tools will not be delivered to the Customer.

COSENTINO reserves the right to make partial deliveries. The Goods may present reasonable deviations in weights and quantities, attributable to the production processes. A deviation of up to 10% in weights and quantities is allowed.

Any costs for inspections and acceptance procedures will be borne by the Client.

4. Packaging and transportation

The packaging, if any, is not included in the given prices and shall be borne by the Client. The delivery, unless otherwise agreed, will be ex-works (EXW according to Incoterms 2020), with transport and unloading at Customer's expense and risk. If the transport is carried out by means, commission or management of Cosentino, it will be understood that the transport agreed upon with Cosentino is as Client's agent.

5. Quality and measurement

No claim will be accepted if the material has been used or subjected to any transformation, treatment, or modification process by the Client.

The measures to be recorded shall be obtained by proportionally deducting those incoming, chamfers and commercial trade in simply sawn blocks or tables and they will be true if their edges are cut to a fixed size.

In the case of natural stone, the samples provided do not mean that the supply will be absolutely identical in tone and aspect, as they are natural products, which, although carefully selected and prepared, may be subject to variations in hue, grain and composition. The variations introduced by nature in the same shall not be considered defects: no claims for this reason will be addressed. The Client may examine the product in our facilities. Any claims for differences or

defects in the material must be made by the purchaser upon delivery of the goods, or within a maximum period of eight (8) days following receipt of the same.

6. Terms of payment

Payments shall be made in the way and timeline established in the corresponding invoice. Notwithstanding the foregoing, and unless COSENTINO and the Client have expressly agreed otherwise, payments shall be made through a charge to the account the Client has designated for said purpose. Each time the Client places a new order, and it is accepted by COSENTINO, the customer expressly authorises COSENTINO to submit the corresponding invoice to the bank account that has been provided to COSENTINO and that is reflected in the corresponding invoice. Therefore, the Client expressly recognises that they will not have the right to request the return of the invoices from their bank corresponding to the purchases that COSENTINO draws on said current account, for breach of the conditions of article 48 of Royal Decree-Law 19/2018, of 23 November, on payment services and other urgent financial measures ("RD 19/2018") or any other regulation that may be applicable.

In any case, and in order to avoid any doubt, the Client expressly waives the right to request the return of the charges made as a result of the invoices drawn by COSENTINO, in accordance with the provisions of Article 34 of RD 19/2018 or any other regulation that may be applicable.

The Client authorises COSENTINO to report the declarations contained in the present clause to the financial institution in which the payments are directly debited.

Notwithstanding the foregoing, COSENTINO reserves the right to claim, where it considers appropriate, the payment by other means (cheque, transfer, promissory note, etc.).

In the event of total or partial breach of the payment obligations assumed by the Client, COSENTINO shall have the right to settle the outstanding sales as well as to compensation for damages and payment of the corresponding interest. Furthermore, the Client must bear the financial and banking expenses caused by the delay in payment.

7. Retention of title

The Products shall remain the property of COSENTINO until any and all claims of COSENTINO arising from its business relationship with CLIENT have been paid in full.

In the case of current accounts, this retention of title shall serve as security for the claim for the balance to which COSENTINO is entitled.

Prescription, engineering, consulting and construction support services are ancillary services provided free of charge and without any obligation or responsibility on the part of COSENTINO, unless a separate additional order is made for such services and the corresponding amount is paid.

8. Liability

Apart from those cases derived from non-conformity of the products, any claim for damages brought by the Client when there is no gross negligence or fraud is expressly excluded. The contractual liability of COSENTINO is limited to the purchase value of the products. Under no circumstance shall COSENTINO be financially liable to the Client for loss of profit, income lost, costs of downtime or, in general, for losses of any kind that the Purchaser may suffer due to non-delivery or faulty delivery of the products.

The Client shall be solely liable, exempting COSENTINO where applicable, for damages stemming from the improper use, storage, preservation, processing or handling of products.

For this purpose, COSENTINO has provided the Client with all the necessary documentation and instructions for the safe and proper use of products.

Likewise, COSENTINO is exempt, with regard to third parties, of any legal, contractual or extra-contractual liability that may arise from the handling, treatment and installation of products made by companies other than COSENTINO.

The Client is responsible for complying with the existing legal provisions on the environment, and especially for the managing waste produced in the handling and processing of acquired materials or their packaging.

Therefore, COSENTINO shall have the right to modify the delivery times of the goods agreed with the corresponding client and/or these General Conditions of Sale due to circumstances beyond its scope or control, including, among others, regulatory changes, natural or social or legal conditions (restrictive regulations on foreign trade operations, changing market conditions that may restrict or substantially affect the product supply or prices, as well as unforeseen tariffs or taxes) or force majeure that are beyond its control.

9. Health and safety requirements

The Client will comply, at all times, with all regulations that may apply to the implementation, handling, storage, manufacturing and disposal of products marketed by COSENTINO.

Products purchased from COSENTINO may contain crystalline silica (please see the corresponding label and Safety Data Sheet). Incorrect processing of the products, or without appropriate measures for protection, may cause serious illness, such as silicosis or lung cancer.

Consult a competent health and safety professional in order to implement the required occupational measures for containing the source of dust, such as tools with a water supply and ventilation systems that ensure air renewal.

Employers of the professionals who ultimately process the products are responsible for informing employees and ensuring that the workplace complies with the applicable local regulations for limiting occupational respirable crystalline silica exposure.

To be exact, the Client must carry out, regarding each position, periodic risk assessments in accordance with applicable sector regulations, and implement the appropriate risk control measures.

All boards are accompanied by a safety label with the identified hazards. The Safety Data Sheets, labels and the Guide to Good Practices are available in your language at osh.cosentino.com, accessible by scanning the following QR code, at www.cosentino.com, or upon request to the manufacturer at info@cosentino.com.



10. Personal data protection

In compliance with the current legal framework in matters of data protection, we inform you that the underlying personal data of these conditions will be included in a file under the liability of COSENTINO, with registered address Ctra. Baza a Huércal – Overa, Km. 59 – 04860 Cantoria (Almería), for purposes of managing business relations. Likewise, the Parties ensure compliance with the duty of information regarding their employees whose personal data is communicated between the Parties in order to maintain and fulfil the

contractual relationship. The legal basis that legitimises the processing of the data of the interested Parties is the need for the entering into and execution of this contract, as well as the lawful interest of the Controller.

The retention period of their data will be 15 years in order to comply with the legal obligations of the company. However, they may exercise their rights of access, rectification, abolition, objection, limitation and portability by means of written communication to the address provided or to the Data Protection Officer gdpr@cosentino.com providing a photocopy of their Spanish National ID card or equivalent document, and indicating the right that is requested. Likewise, if they consider their personal data protection rights to be violated, they may file a claim with the Spanish Data Protection Agency (www.aepd.es) or any other entity that is competent in this matter.

The Client accepts that COSENTINO has the right to provide the Client's data in a commercial relationship to a credit insurance agency in order to contract credit insurance.

11. Cosentino industrial property rights

The Client acknowledges that the trademarks and trade names that identify COSENTINO and its products are and will solely and exclusively belong to COSENTINO, and that they may not claim anything or have any rights with respect to the same. Trademarks and trade names shall only be used by the Client for product marketing, clearly stating the Client's relationship with COSENTINO, that COSENTINO is the owner of the trademarks and trade names, and complying with the guidelines and requirements established by COSENTINO in all circumstances.

In that regard, the Client undertakes to not register or request the registration of any name, trademark, trade name, internet domain, social media profile, or any other form of industrial or intellectual property that contains or

resembles the trademarks or trade names that identify COSENTINO and its products in a misleading way about the origin of the products or about the Client's relationship with COSENTINO.

In the event that the Client is interested in the design, implementation or use of a web page for the promotion and marketing of COSENTINO products, prior written authorisation by COSENTINO shall be required to agree upon the characteristics, design and contents of the same, as well as the domain name that will be used for this purpose, in detail. To the contrary, COSENTINO shall be empowered to demand that the Client cease using said web page at any time.

Furthermore, COSENTINO may require that the Client use any of COSENTINO's web pages instead of alternative web pages.

If, for any reason, the Client registers any name, domain, trademark, social media profile or trade name that contains, is equal to or similar to the trademarks and trade names registered or used by COSENTINO, the Client will be obliged to immediately transfer the ownership of said records to COSENTINO upon the formal request of and at no cost to the latter.

The Client shall not use any trademark, trade name or copyright of COSENTINO as a part of its company name or trade name.

COSENTINO reserves all proprietary rights, patent rights, design rights and copyrights with respect to images,

drawings, designs, details, cost estimations and other documents. This also applies to any document designated as "confidential". The express written consent of Cosentino is required before such documents may be disclosed to third parties.

12. Assingment

COSENTINO shall be entitled to transfer or assign in favour of third parties the manufacturing and delivery of the goods as well as assign the delivery of any other services under these General Conditions of Sale.

13. Applicable law and jurisdiction

The present General Conditions of Sale shall be subject to Spanish law or that law that would be applicable to the commercial relationship between the Cosentino subsidiary that carries out the sale and the Client.

In case of discrepancies regarding the interpretation, application or execution thereof or dispute regarding the terms set forth in these general conditions, the Parties agree to submit to the jurisdiction of the courts and tribunals of the city of Almeria or those courts that may be competent to settle any dispute between the Cosentino subsidiary and the Client. Notwithstanding, COSENTINO may request any measure seeking to satisfy its interests before a different court.

COSENTINO and the Client agree to the non-applicability of the United Nations Convention on Contracts for the International Sale of Goods (CISG) or Vienna Sales Convention.

"The client undertakes not to market the products supplied by Cosentino to individuals or legal entities (hereinafter, "Persons"), or entities in which such Persons have an ownership stake or control, that (i) appear as persons sanctioned by laws, regulations, directives, judgements, programmes or restrictive measures with regards to international economic-financial sanctions imposed by the United Nations, the European Union, including the Kingdom of Spain, or any other Member State whose regulations on Sanctions are applicable. This includes the Office of Financial Sanctions Implementation (OFSI) of the Her Majesty's Treasury (HMT) of the United Kingdom and/or the U.S. Department of the Treasury's Office of Foreign Assets Control (OFAC) (hereinafter, "Sanctioned Persons"); (ii) have an ownership stake in or control a Sanctioned Person; (iii) act directly or indirectly for or on behalf of a Sanctioned Person; (iv) are constituted, located or with an operating headquarters or resident in a country or territory, or whose government is recorded in laws, regulations, directives, judgements, programmes or restrictive measures with regards to international economic-financial sanctions imposed by the United Nations, European Union, the Kingdom of Spain, the OFSI of HMT and/or the OFAC (hereinafter, "Sanctions"); (v) maintain business relationships or carry out transactions with Clients that involve the transfer of funds from or to countries, territories or jurisdictions subject to Sanctions."

Technical Conditions of Dekton® Facades

This document outlines the technical conditions for the specific use of Dekton® for facades, including the limitations on the use of the materials and systems supplied by Cosentino.

1. Dekton® slab: specifications and finishes

The technical specifications of the Dekton® panel can be found in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later. Performance may vary slightly depending on the technical families of finishes chosen (Families I, II, III and IV), so it is recommended to analyse the performance per range before making a final choice.

The four families of finishes are listed in Annex N of ETA 14/0413 issued by ITeC on 20/07/2020. The performance of each family of finishes is listed in the 'Declaration of Performance No. 092013DK' document, updated as of January 2019.

The environmental impact of Dekton® panels is described in the Environmental Product Declaration (EPD). S-P-00916 – Version 2, last updated 09/12/2021.

The colour stability of Dekton® finishes has been evaluated using accelerated ageing tests. The results are included in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

The specifications of the Dekton® facade system when used as a ventilated facade with mechanical fixings are set out in the European Technical Assessment ETA 14/0413 issued by ITeC on 20/07/2020. The system designer shall refer to sections 1, 2 and 3 of such document for the technical description of the system, its specifications for use and its performance.

In the event that the fixing solution proposed by the project designer differs from that described in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, Cosentino recommends that the verification tests contained in the European Assessment Document EAD 090062-00-0404 be carried out: Kits for mechanically fixed exterior facade cladding.

2. Limitations on use, cutting, handling, assembly and transport

Depending on the expected impact on the panels, the recommended edge finish for Dekton® panels will vary. See the table of recommendations in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

The use of flat L- or U-shaped Dekton® panels for facades is not recommended due to the concentration of stress in the inner corners. See the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

When drilling holes in the panels, holes must first be drilled in the corners of the hole. The minimum distances from the holes to the edge of the panel must be maintained. See the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

Three-dimensional pieces can be created by mechanically assembling return parts with straight or bevelled edges on ventilated facades. Please refer to the limitations contained in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

Corners between adjacent facades can be made as indicated in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

3. Impact category

The impact resistance of Dekton® facade surfaces varies according to their thickness and family. This value is given in section 3.5 of Dekton® ETA 14/0413 dated 18/01/2022. The panels were subjected to a series of hard and soft body impacts at different energy levels. The results place Dekton® in impact category IV for thicknesses of 12 mm or 20 mm.

Category IV: The degree of exposure in use should be a zone out of reach from ground level.

It is the responsibility of the project engineer to decide which facade construction solution is ultimately chosen for a specific project.

4. Fixings used in Dekton® panels and their limitations of use

The Dekton® facade panel allows for various mechanical fixing systems to the substructure. The fixing systems can be hidden (DKT1, DKT2 and DKT3) or visible (DKT4 and DKR). There are also gluing systems such as chemical (DKC), mixed (DEKCLIP), with cement-based adhesives (DKB) or on external ETICS type insulation (DKS). However, not all of these fixing systems are suitable for use on ventilated facades. Please refer to the limitations contained in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

The instructions and limitations of use for each type of fixing system on the back of the panel, as set out in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later, and in the relevant ETA standards, must be followed:

- DKT1 System: Manual and Annex 2 of ETA 14/0413
- DKT2 System: Manual and Annex 2 of ETA 14/0413
- DKT3 System: Manual and Annex 2 of ETA 14/0413
- DKT4 System: Manual
- DKR system: Manual
- DEKCLIP system: Manual
- DKC system: Manual
- DKB system: Manual
- DKS system: Manual

In the event that the fixing solution proposed by the project designer and facade contractor differs from that described in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, Cosentino recommends that the verification tests contained in the European Assessment Document EAD 090062-00-0404 be carried out: Kits for mechanically fixed exterior facade cladding.

5. Adhesive fixings for cladding panels

For glued fixings, whether chemical (DKC), mixed (DEKCLIP), with cement-based adhesives (DKB) or on external ETICS type insulation (DKS), the installer must strictly adhere to all the criteria and limitations for design, calculation, placement patterns, cleaning, surface preparation, pre-priming, gluing process, tapes and temperature of use specified in the Dekton® manuals and in the technical documentation of the adhesive suppliers.

As these are products not manufactured by Cosentino, the installer must request technical documentation from the supplier of the adhesive and its ancillary components for each gluing system.

6. Substructure, slab support and anchors and their limitations of use

The general instructions for the substructure and its anchoring to the main structure of the building, as described in the Cosentino Facade Manual – Cosentino Facade Fixing

Systems, rev. 08 (March 2023) and later, must be followed.

In the case of ventilated facades, the general instructions for the substructure and its anchoring to the main structure of the building, as described in the Cosentino Facade Manual and in Annex 4 of ETA 14/0413, dated 20/07/2020, must also be followed.

In the case of joints between facade panels, the structural and thermal movement joints of the building must be respected, as recommended in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later.

7. Other materials supplied by Cosentino and their limitations of use

Cosentino can supply the customer with materials that are not manufactured by Cosentino but are part of the facade design, such as fixings, glues, adhesives, structural profiles, anchors or thermal insulation elements, among others.

In this case, it is the sole responsibility of the customer to use these materials in accordance with the technical instructions of their suppliers.

Cosentino shall not be held responsible for any failure on the part of the customer to comply with the technical data sheets, product specifications and limitations on the use of materials manufactured by other companies and supplied by Cosentino for use in facades.

8. On-site installation

The instructions and recommendations given in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023) and later, must be followed.

In the case of ventilated facades, the general installation instructions, as described in the Cosentino Facade Manual and in Annex 4 of ETA 14/0413, dated 20/07/2020, must also be followed.

9. Reaction to fire and fire transmission through the air gap

Within the limits of liability set out in the agreement, an aggregate limit of €100,000 shall apply in respect of claims relating to the combustibility of the facade cladding or panels, the insulation material and its fixing systems, or claims relating to the fire safety of any air gap barrier or fire compartmentation (or lack thereof) on the building facade.

10. Quality requirements (QA/QC)

It is the responsibility of the project designer to specify the quality requirements for the execution of the facade, which may include requirements for dimensions, flatness, testing, sampling, etc. The quality requirements to be met will depend on the geographical location of the project.

If there are no specific quality requirements for facades in the project drawn up by the architect, and if the requirements to be followed by the facade contractor are not specified, Cosentino will follow the quality

requirements set out in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023). In the absence of other standards, Cosentino recommends that the facade contractor follow the quality criteria of the Centre for Window and Cladding Technology (CWCT) in its 'Guide to good practice for facades', section 'Quality'.

In particular, Cosentino requires the customer to validate the production drawings and the final product prior to loading and shipment.

Cosentino's quality team checks the finished product and assists with the reception of the piece/material by its technicians for each project.

11. Facade maintenance and cleaning

It is the responsibility of the project designer to specify the maintenance and cleaning requirements of the facade throughout its life cycle. In any case, Cosentino recommends that the requirements for final cleaning of the job, maintenance, cleaning and conservation set out in the Dekton® Facades Maintenance and Cleaning document be followed.

12. Reference standard according to geographical area

It is the responsibility of the project designer to specify the reference standards to be followed in the development of the facade solutions, including requirements for wind load, impact resistance, fixings, durability, reaction to fire, fire resistance, etc. The technical standards to be met will depend on the geographical location of the project.

If there is no specific standard for facades in the project drawn up by the architect, and if the standard to be followed by the facade contractor is not specified, Cosentino will follow the European standard for its calculations, checks and recommendations. In particular, the European Assessment Document EAD 090062-00-0404 shall be taken into account: Kits for mechanically fixed exterior facade cladding and the European and international reference standards listed in section 4 of both documents, together with all their Annexes.

13. Health and Safety (H&S) requirements

It is the responsibility of the project designer to specify the health and safety requirements to be met in the development of the facade solutions. These requirements will depend on the country in which the project site is located.

If there are no health and safety requirements for facades in the project drawn up by the architect, and if these are not specified by the facade contractor, Cosentino will follow the health and safety requirements indicated in the Cosentino Facade Manual – Cosentino Facade Fixing Systems, rev. 08 (March 2023).

14. Liability

Engineering, site and installation support (if applicable) are services for which Cosentino is liable only if a separate order for such services is placed and paid for. In this case, Cosentino's civil liability (general and professional) towards the customer shall be limited to the amount invoiced for these services.

15. Dekton® brand

Only those facade elements that have been manufactured exclusively from Dekton® components in accordance with the current Cosentino facade manuals can be branded as Dekton®. The use of construction components other than those recommended by Cosentino in its manuals shall render this right null and void. Furthermore, Dekton® test reports relating to such units will no longer be valid.

16. Supplementary conditions

These Technical Conditions for Facades supplement, but do not replace, Cosentino's General Terms and Conditions of Sale and Terms and Conditions for the Provision of Services, in the version in force at the time of prescription or sale. These three documents apply to the ancillary services of facade prescription, consultancy and installation (where applicable).

Notes for Dekton® prescription on facades.

This note is joint and severally supplied together with the preliminary study or specific documentation issued to the architects for their project at design stage. For future deliverables during design stage, this note will be understood as delivered and accepted by the architects and will also be valid for any of the deliverables that would be sent to the architects during that stage.

The **drawings** supplied by Cosentino, if any, have been drawn up based on information received by Cosentino and sent by the designer. Cosentino is not responsible for the accuracy and scope of the information received, whether in dimensions, orientation, height, or others. The plans are not drawn for installation; their objective is to give indications to the designer about the application of Dekton on the facade during the development of the project.

The **calculations** supplied by Cosentino, if any, have been prepared based on the information received by Cosentino and sent by the designer. Cosentino is not responsible for the accuracy and scope of the information received, whether in dimensions, orientation, height, or others. Calculations are not made for installation; their objective is to give indications and limitations to the designer on the application of Dekton on the facade during the development of the project.

For the **impact resistance** of a facade cladding, please refer to the European approved document "Kits for external wall claddings mechanically fixed". Dekton surfaces on facades have an impact resistance that varies according to their thickness and their family. This information is included in section 3.5 of the ETA 14-0413 dated 18.01.2022, issued by Dekton. The panels have been subjected to a series of hard body and soft body impacts at different energy levels. The results classify Dekton in the impact category IV for thicknesses of 12mm or 20mm. Category IV: The degree of exposure to use must be an area out of reach from ground level. The responsibility for the decision of the built solution of the facade to be adopted in the specific project falls on the designer.

The **facade study** carried out by Cosentino Technical Team, in accordance with the instructions received, has focused on what was requested, which can be one of these four options: a) Dekton panels without reference to their fixing system; (b) Dekton panels for adhered attachment to a continuous surface; (c) Dekton panels excluding fastening substructure; or (d) Dekton panels including a fastening substructure.

The facade study carried out by Cosentino Technical Team is complemented by the following **documents**, which are an inseparable part of the study:

- [ETA 14-0413 certification, dated 18.01.2022, for ventilated \(not adhered\) facades.](#)
- [Dekton Environmental Product Declaration.](#)
- [Technical Manual of Dekton Facades.](#)
- [Maintenance and Cleaning requirements for Dekton Facades.](#)
- [25-year Dekton Facades warranty.](#)
- [Conditions of Provision of Services \(CPS\)](#)
- [Technical Conditions of Facades \(TCF\)](#)

We recommend that the designer consult the Cosentino **Manuals, Certificates and Tests** for Dekton facades, accessible on the web <https://www.cosentino.com/professional/technical-documentation> and/or with the Technical Department of Cosentino.

Dekton® Warranty

Cosentino has a specific team from the Quality Department, trained to provide on-site support. In addition, we have our Dekton® Trainers. Their mission is to provide training and the certification of workshops for the proper preparation of materials.

Cosentino offers a 25-year material guarantee on its Dekton® facades executed anywhere in the world and offers its clients, if necessary, all its support and project monitoring services so that they are executed according to the highest quality standards.



*Warranty subject to the terms and conditions of the "Dekton Facades Warranty" to be requested from Cosentino Global, S.L.U.

COSENTINO®

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* To obtain more information about colours with
an NSF certificate please visit www.nsf.org

This commercial technical catalogue is an extract from the
Dekton Facades Technical Manual, which is Cosentino's
reference document for this application and must be
consulted for the most detailed technical information.

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