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**GenVue™**  
MAKING BUILDINGS ACTIVE

**GenVue  
Powerskin**

[www.genvue.co.uk](http://www.genvue.co.uk)





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## GenVue Powerskin

Imagine the possibilities & picture transforming any architectural surface into a source of sustainable energy.

With GenVue Powerskin, the revolutionary power-generating surface, this vision becomes a reality.

# Values



## **GenVue PowerskinWhere Sustainability Meets Aesthetics**

We redefine architectural sustainability, creating power generating buildings without compromising on design.

Each GenVue Powerskin module is expertly customised, offering absolute freedom in cladding design to suit your vision.

### **SUSTAINABILITY**

A revolutionary step forward in green architectural sustainability.

### **AESTHETIC DESIGN**

Unmatched freedom in aesthetics and design customisation.

### **CUSTOMISATION**

Choose from a wide array of sizes, collections, and surface finishes.

### **COMMUNITY**

Empowering self-sufficient green energy communities.

### **GREEN LIFE**

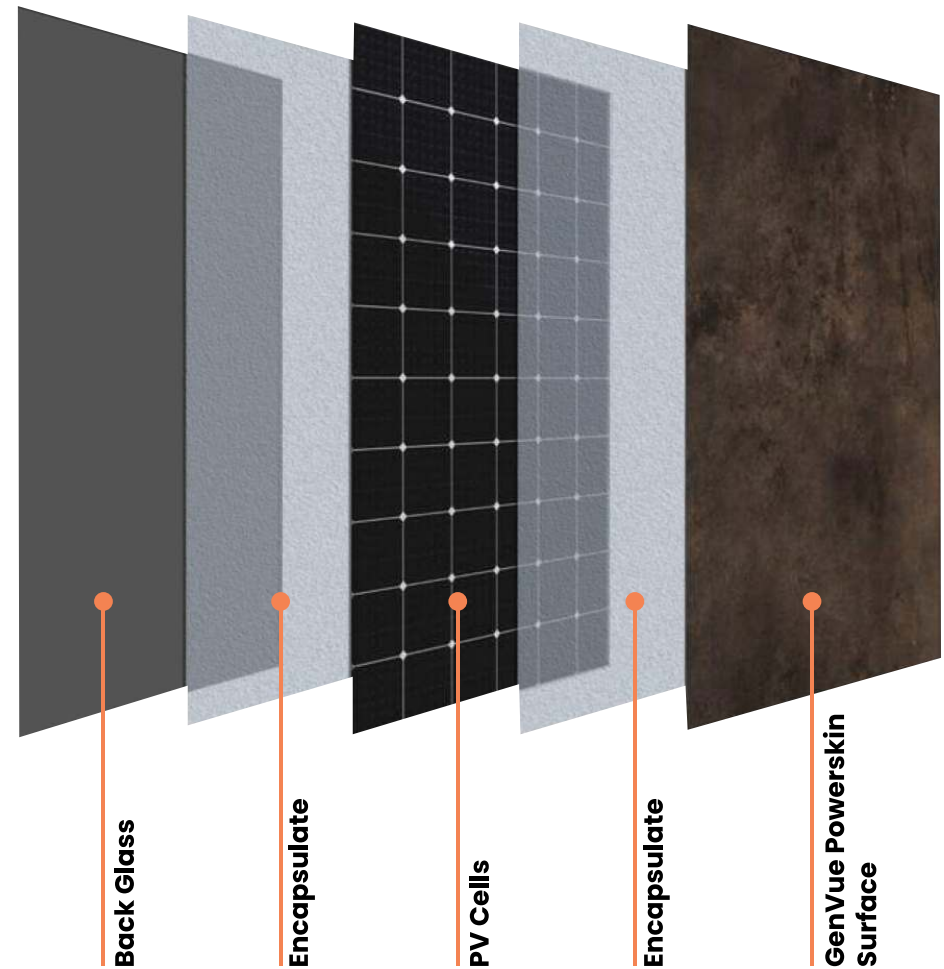
Shaping a sustainable future with every design.

# The next generation energy surface



GenVue Powerskin is a revolutionary PV surface that transforms any architecture into a power generating building.

GenVue Powerskin changes the concept of sustainable architecture and revolutionises the world of construction by offering innovative and aesthetic solutions capable of transforming simple passive building into active green energy accumulators.



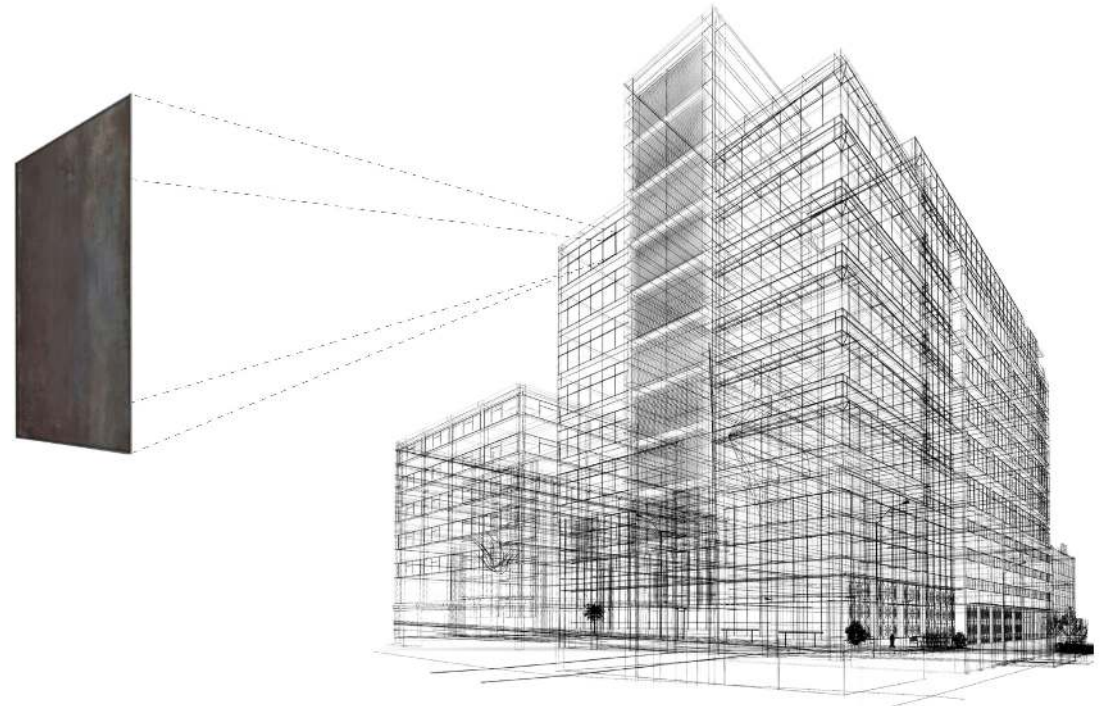
# GenVue Powerskin, the new building material

Don't simply cover. Design as per intent.

**The essential solution for green architecture.**

Freely design – without constraints– your entire building with GenVue Powerskin. An exceptionally strength cladding material also capable of generating green energy.

GenVue Powerskin replace, do not cover, all traditional cladding material such as facades and roofs this guarantees a great saving on construction costs.





**From roof  
to the ground**

GenVue Powerskin adapts to any architectural surface.

From roof to facade the whole building becomes capable of generating green energy.

# Environment and Building sector



GenVue Powerskin plays a fundamental role in combating climate change with the evolution of smart cities towards renewable and clean energy.

By 2050:  
Green Deal, EU Countries

Target reduction of greenhouse gas (GHG) emissions. Europe aims to become the world's first climate-neutral continent.

By 2050:  
Climate Mobilization Act,  
New York City

Target reduction of greenhouse gas (GHG) emissions for buildings over 25,000 sq ft.

By 2050:  
Climate Change Scoping Plan,  
California

Target reduction of greenhouse gas (GHG) emissions below 1990 levels.

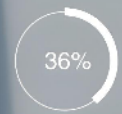
Solar energy's potential is hundreds of times greater than the world's total electricity use. Why not exploit it?



Of global energy consumption are from buildings

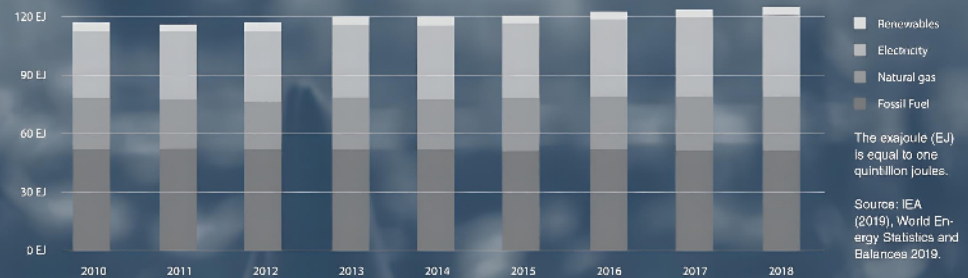


Of EU buildings are extremely energy inefficient



Of global CO2 emissions are from buildings

## More buildings, more green energy needs





## Maximum efficiency

**200WP/SQM**

Maximum power /  
Watt peak

**96,9%**

up to efficiency  
(compared to v PV panel)

## Quality process for extreme performances

**250H**

Of solar transmittance,  
 $\Delta E \leq 0,001$

**1250H**

Of solar transmittance,  
 $\Delta E \leq 0,001$

**5000H**

Of solar transmittance,  
 $\Delta E \leq 0,001$

**30+**

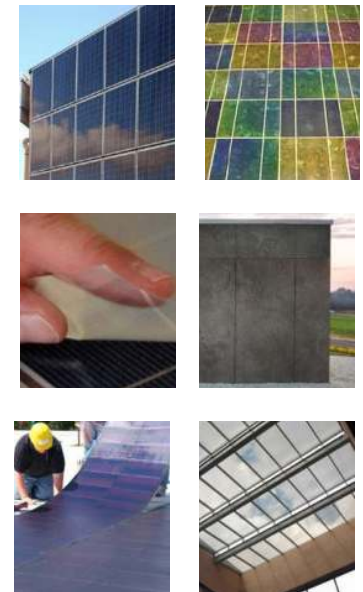
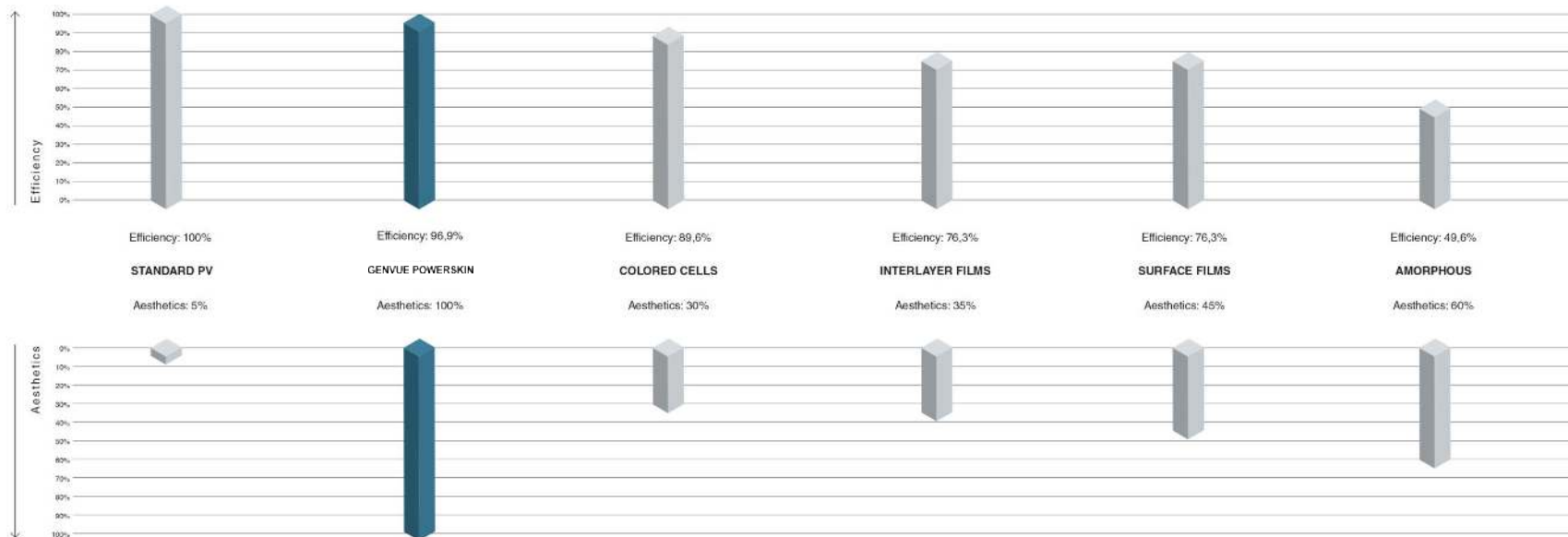
Years of full power lifetime.  
After 30 years, energy  
productivity could  
decrease by up to 20%

## Active surfaces comparison

## Aesthetic customization without compromising energy surface efficiency.

GenVue Powerskin focuses on energy efficiency, offering aesthetically customisable surface with payback period similar to traditional photovoltaic. Compared to other tech solution, GenVue Powerskin is the most efficient and aesthetic customisable technology. Although, coloured cells are efficient, they are an expensive surface that does not guarantee a completely customisable result. There are also films applied inside the glass, customisable but which are mechanically dangerous and create small visual defects at short distance.

Other films are applied on the external surface of the panel but because of the reduced thickness they are delicate and not well performing. Finally, there is the amorphous surface, a semi-transparent solution that does not use silicon-based cells, the result therefore has low efficiency and high costs.



# GenVue Powerskin A Smarter Investment

## GenVue Powerskin house, cladding & energy

With GenVue Powerskin, your home becomes an energy-efficient powerhouse. After the initial investment, you save on traditional electricity costs while selling excess energy, ensuring a full return on investment within approximately 10 years.

## Traditional house + electric bill

After cladding investment, traditional homes continue to rely on electricity, incurring additional energy costs year after year.

Take advantage of national efficiency incentives and European investments in combating climate change—all while avoiding the ever-rising costs of traditional energy.

GenVue Powerskin panels allows you to use green and free energy.

+

The energy produced, but not used, can be sold to third parties.

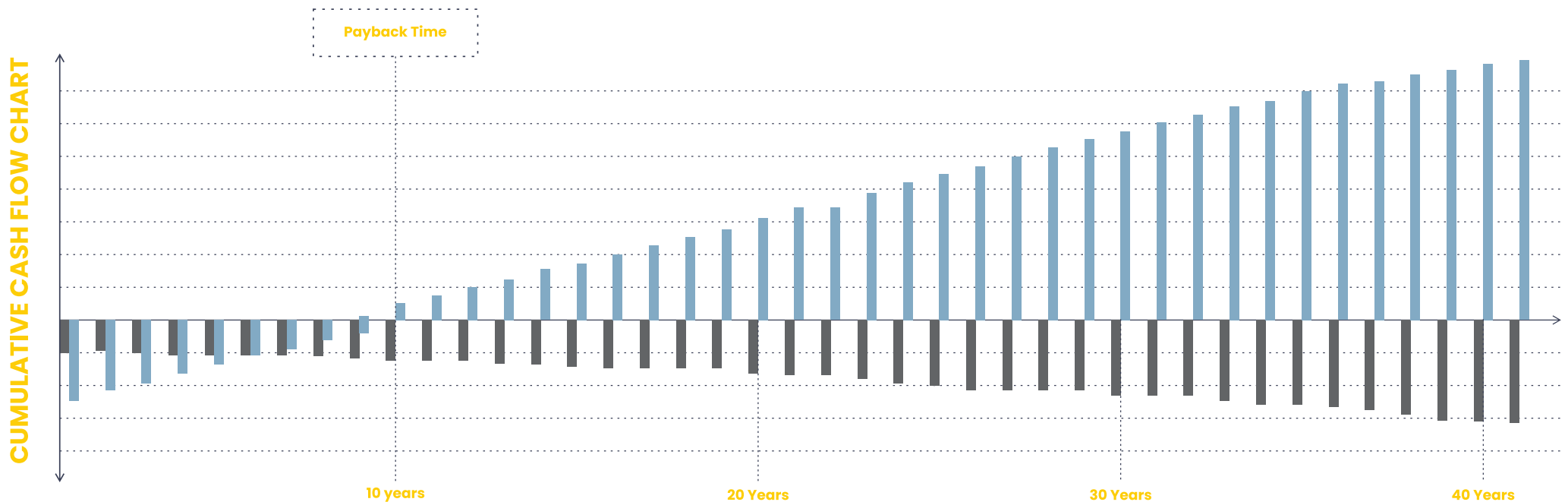
=

Payback after 10 years, after that is all about energy and money savings.

This **saves money**

This **earns money**

**GenVue Powerskin payback and more**





Dummy modules used to cover the shaded parts.

Dummy modules used to cover smallest parts.



Dummy modules:

Smallest parts or Shaded parts

Same aesthetic & costs reduction



GenVue Powerskin Facade / Active modules

Dummy modules / Non active modules

## Non-Active Module

Not all building facades are exposed to full sunlight, which is why GenVue Powerskin provides non-active dummy modules. These modules are visually identical to active energy-generating modules but do not include PV technology.

Dummy modules are perfect for completing areas such as shaded facades, rooftops, or smaller sections like attics, while maintaining the same aesthetic as active modules. This ensures a consistent, polished look across the entire structure.

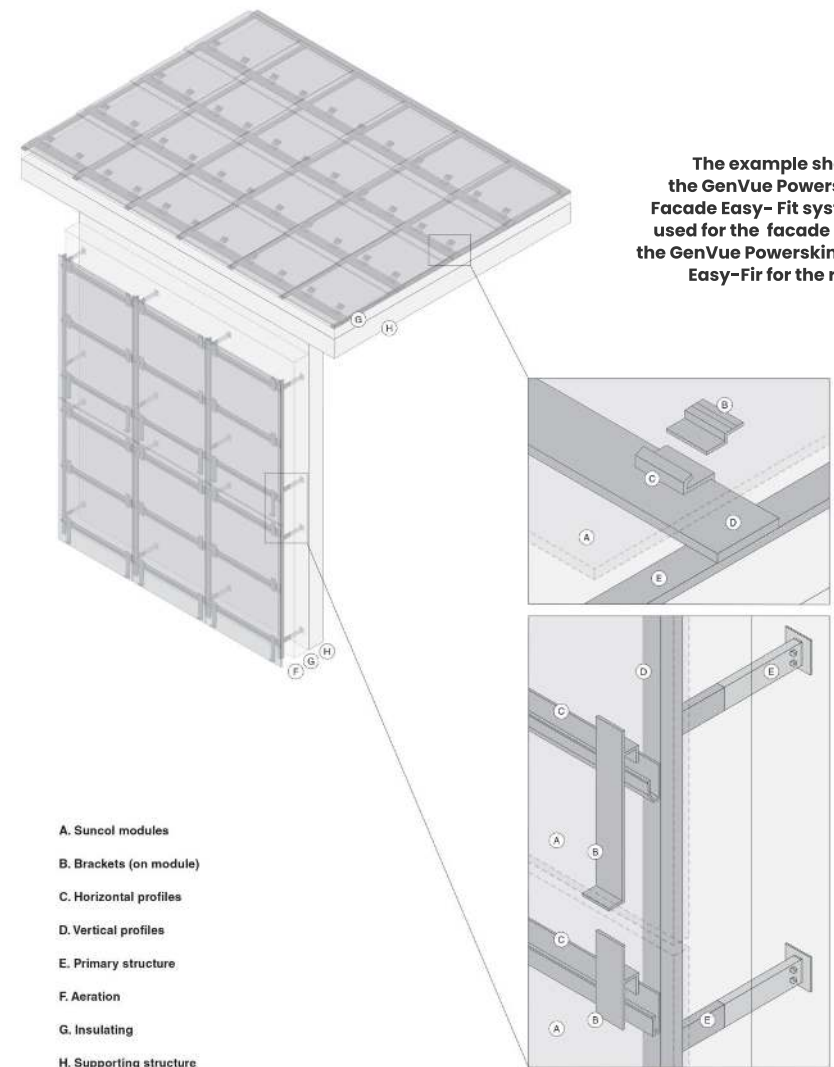
Since dummy modules lack PV components, they offer a cost-saving solution without compromising on design. Finished with the same collections and treatments as active modules, they deliver a uniform, harmonious appearance.



## GenVue Powerskin Easy-Fit system

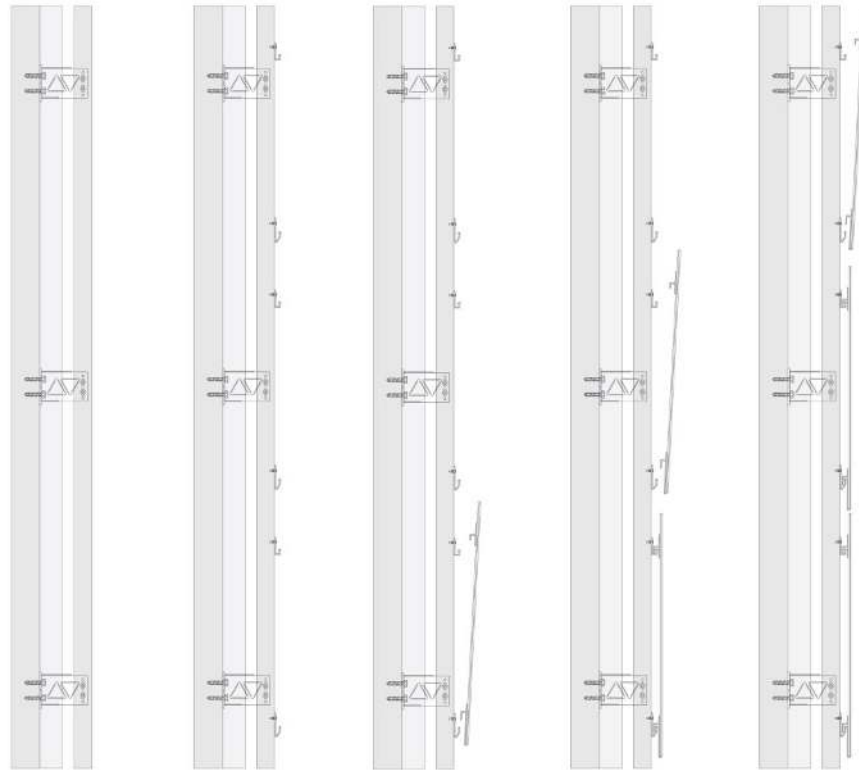
Thanks to GenVue Powerskin Easy-Fit system you can quickly block modules of any size and format both on facade and roof. GenVue Powerskin has specifically studied an assembly method to facilitate the composition of the facade and leave maximum freedom of design choice. In the same way, for both the facade and the roof, the Easy-Fit system allows you to freely compose the modular surface through a system of hooks applied partly directly on the back of the panel (B) and partly on the structure ©. The horizontal profiles are fixed on the vertical profiles, all supported by the Primary Structure (E). This last one gives lift and stability to the whole structure. Size of the aeration (F) and type of insulating layer (G) and its thickness are chosen by the customer.

Each Easy-Fit system works in a similar way but has different characteristics depending on the desired product. For more information ask for specific product catalogs or consult our experts.



# Fast and easy assembly

## GENVUE POWERSKIN FACADE ASSEMBLY



Fix the primary structure and vertical profiles.

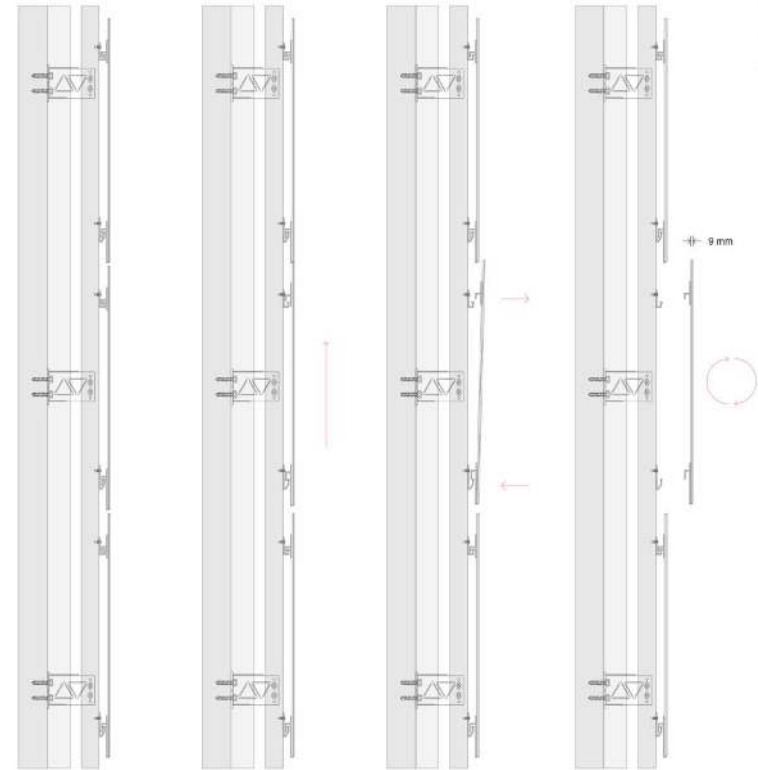
Assembly of the horizontal profiles on primary structure.

Assembly of the panel with back brackets and match.

Match the brackets with horizontal profile

Assembly and composition of entire facade.

## GENVUE POWERSKIN FACADE PANEL REPLACEMENT



Identification of the panel to be replaced.

Move the panel upwards and until it touches the top.

Tile the panel until it comes off the structure.

Replace the panel and repeat steps in reverse.

**GENVUE POWERSKIN PANEL IS ONLY 9 MM THICKNESS**

# Quality and Certifications

## PRODUCT LIFE

Over 30 years

## FACTORY DEFECTS

12 years

## PERFORMANCE

Liner decay  $\leq 80\%$  in 25 years

## COLOR GUARANTEED

$\Delta E < 3$

## CERTIFICATIONS

### Our certification authorities :

ISO : LL-C Certification | IEC: Kiwa Certifications



9001:2015



14001:2015



45001:2018



61730



61215



UNI EN  
12600



UNI EN  
ISO 12543

## TECHNICAL FEATURES



### DURABILITY

We lengthened the GenVue Powerskin surface life cycle. We guarantee it for 30 years.



### ENERGY SAVING

GenVue Powerskin allows you to collect and use free green energy.



### PAYBACK TIME

GenVue Powerskin allows a quick return on investment, only 10 years.



### IMPACT RESISTANT

GenVue Powerskin has been tested with a maximum load of 8000 Pa.



### FIRE CLASS A

GenVue Powerskin is a flame retardant material, possesses A class fire resistance.



### HEAT RESISTANT

The GenVue Powerskin technology remains efficient even in extreme heat conditions, up to 80°C.



### DIMENSIONAL STABILITY

GenVue Powerskin is not subject to dimensional variations as it has a low coefficient of thermal expansion.



### EFFICIENCY

GenVue Powerskin combines the best photovoltaic technology for maximum performance.



### RELIABILITY

GenVue Powerskin technology ensures uncompromising performance and certain results.



### DUST & SAND RESISTANCE

The surface porosity of GenVue Powerskin is on average 0.1% and does not absorb dust



### THERMAL RESISTANT

GenVue Powerskin is resistant to rapid climate changes and thermal shocks.



### FREEZE RESISTANT

The GenVue Powerskin technology remains efficient even in extreme heat conditions, up to -20°C.



# Shape and dimensions

**Modulable  
on any  
shapes**



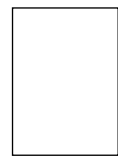
# Dimensions

GenVue Powerskin offers a wide range of dimensions to cover all type of building. The entire house becomes an active building capable of producing green and free energy. From maximum size (2000 x 3000 mm) to minimum size (200 x 300 mm) on specific request we can produce energy surfaces of any size through the GenVue Powerskin Facade product. The other GenVue Powerskin products allow to use predetermined dimensions allowing a considerable saving on time and cost realization.

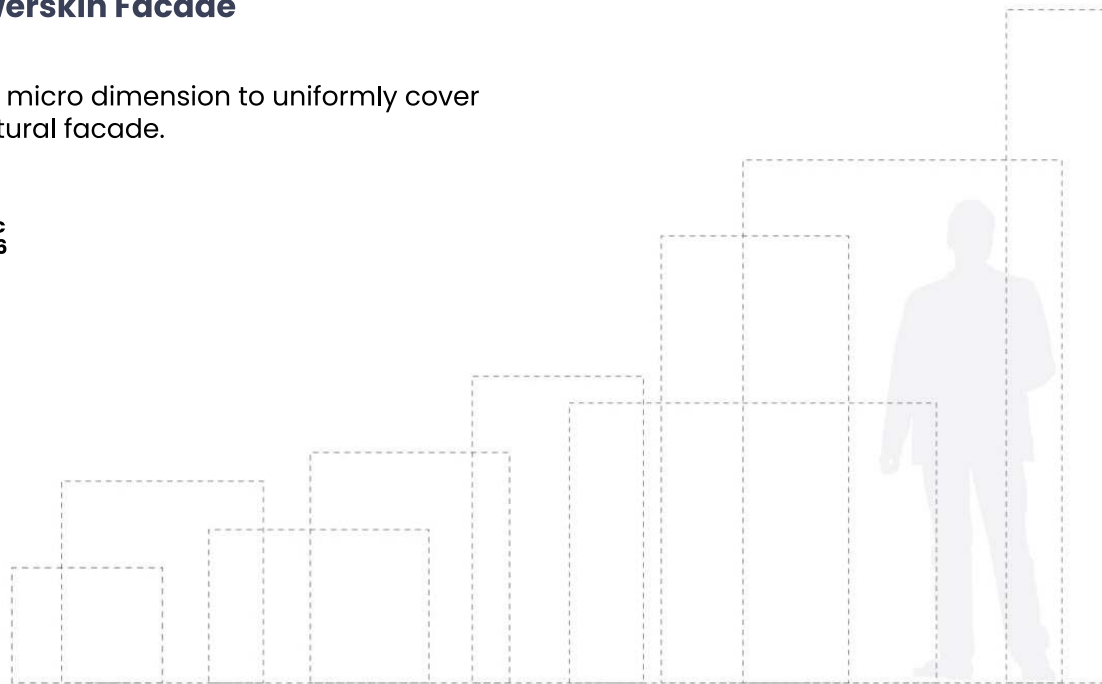
For GenVue Powerskin Facade, according to the desired panel size, our experts will indicate the best surface to maximize the number of photovoltaic cells and thus obtain the maximum energy yield.

## GenVue Powerskin Facade

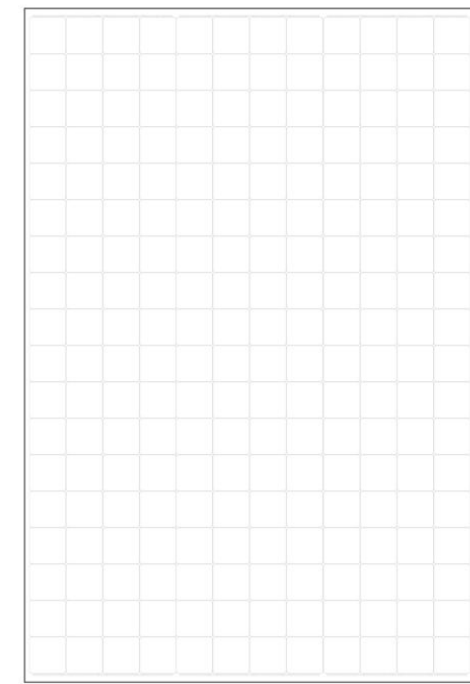
From macro to micro dimension to uniformly cover entire architectural facade.



**Minimum dimension**  
**200X300MM**



**All size between, up to...**



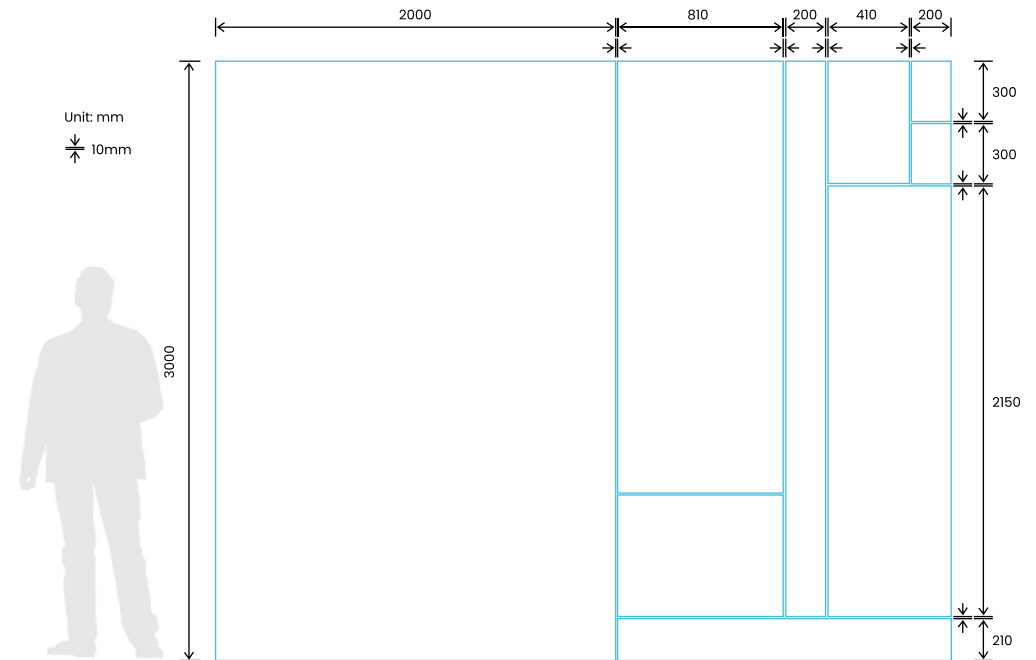
**Maximum dimension**  
**2000X2000MM**

# Facade compositions

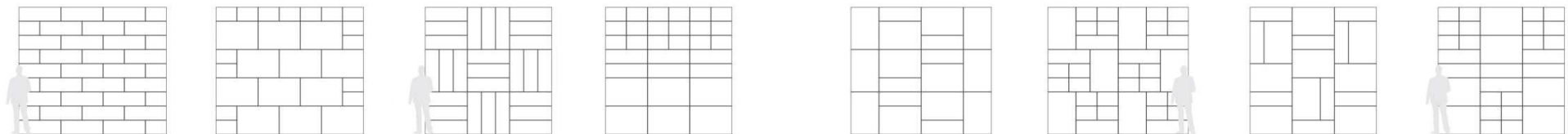
With the GenVue Powerskin Facade, you can take advantage of infinite dimensions to design enormous slabs or create striking geometric compositions that add movement and dynamism to any building.

For seamless surface coverage, opt for panels in the maximum size (2 x 3 m), or freely customise your facade with smaller modules of your choice. GenVue Powerskin also offers panels in three predefined dimensions, specifically crafted to enable unique geometric compositions on any facade. From just three panel sizes, you can create limitless and varied designs, giving your project a bespoke architectural character. No matter the product or configuration, the Easy-Fit system ensures simple and efficient assembly, adapting effortlessly to any design choice or composition.

## Composition example with GenVue Powerskin Facade (free dimensions)



## VARIOUS COMPOSITION EXAMPLES WITH 3 PREFIXED DIMENSIONS OF GENVUE POWERSKIN



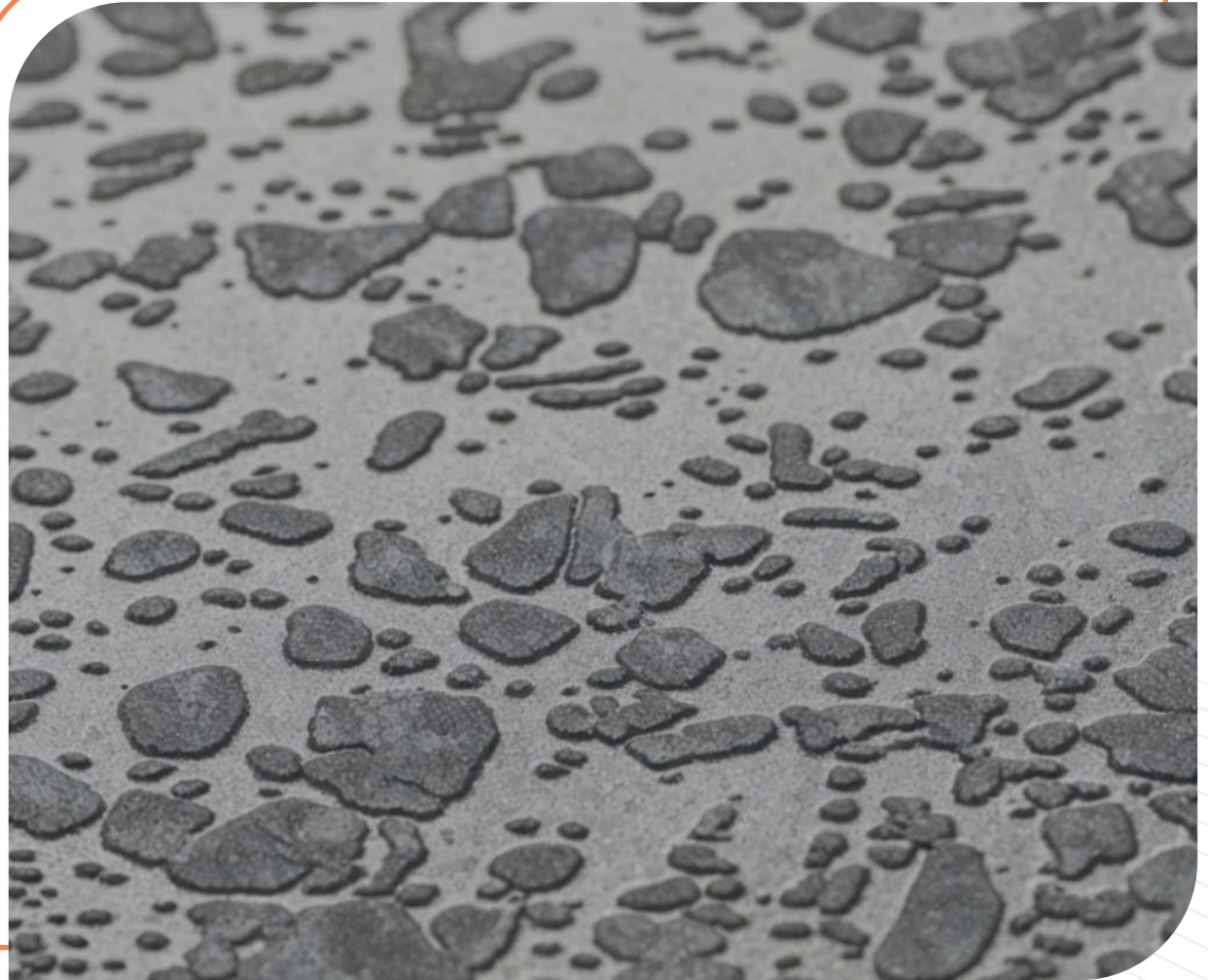
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## GenVue Powerskin surfaces

We take advantage of the materiality of the glass. GenVue Powerskin Facade offers a wide range of surfaces to better adapt to the characteristics of the project and the urban context.

The surface finishes, in particular the Natural surface, are proposed in combination with specific Material Collections capable of enhancing the veins of the natural world.

You can customize the GenVue Powerskin surface with different tactile surfaces capable of generating interesting lighting effects. We also offer Flat and Cannette surfaces available in Glossy, Soft Touch and Matte versions to better adapt to the desired light effect.



---

**NATURAL**

---

A 3D surface, tactile and textured, to enhance the veins of the natural world. (Available in Granite, Corten and Bush hammered effects)

---

**CANNETTE**

---

Wavy surface capable of producing interesting light effects. (Available in glossy, soft touch and matte effects)

---

**FLAT**

---

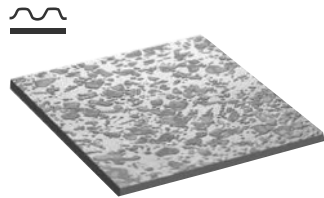
The classic and traditional smooth glass surface. (Available in glossy, soft touch and matte effects)

---

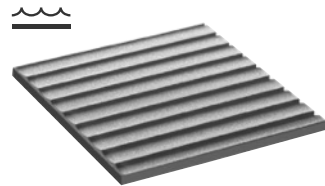
**SOLAR**

---

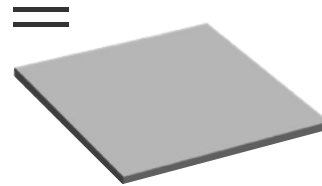
Texture specially designed to maximize the energy efficiency of the surface.



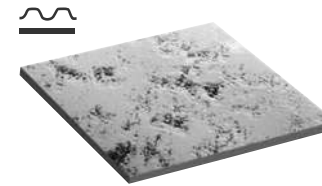
**Natural  
Granite effect**  
Recommended for  
Granite textures



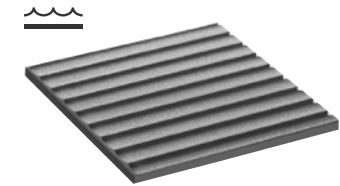
**Cannette  
Glossy effect**  
Recommended for  
Essence colors



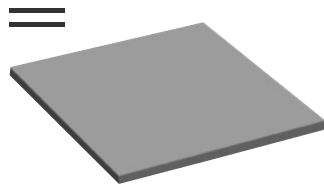
**Flat  
Glossy effect**  
Recommended for  
Essence colors



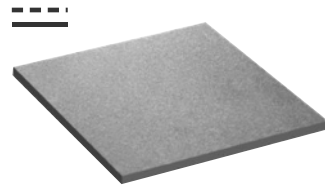
**Natural  
Corten effect**  
Recommended for Metal  
and Concrete textures



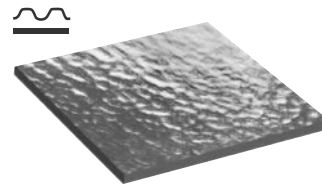
**Cannette  
Soft touch effect**  
Recommended for  
Essence colors



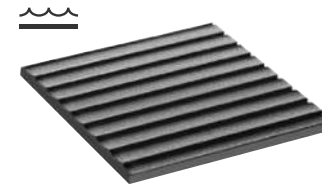
**Flat  
Soft touch effect**  
Recommended for  
Essence colors



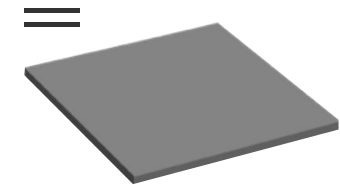
**Solar  
Energy effect**  
Recommended for  
Essence colors



**Natural  
Bush hammered effect**  
Recommended for  
Calcareous and Stone  
texture



**Cannette  
Matte effect**  
Recommended for  
Essence colors



**Flat  
Matte effect**  
Recommended for  
Essence colors

# GenVue Powerskin collections



# Collections overview

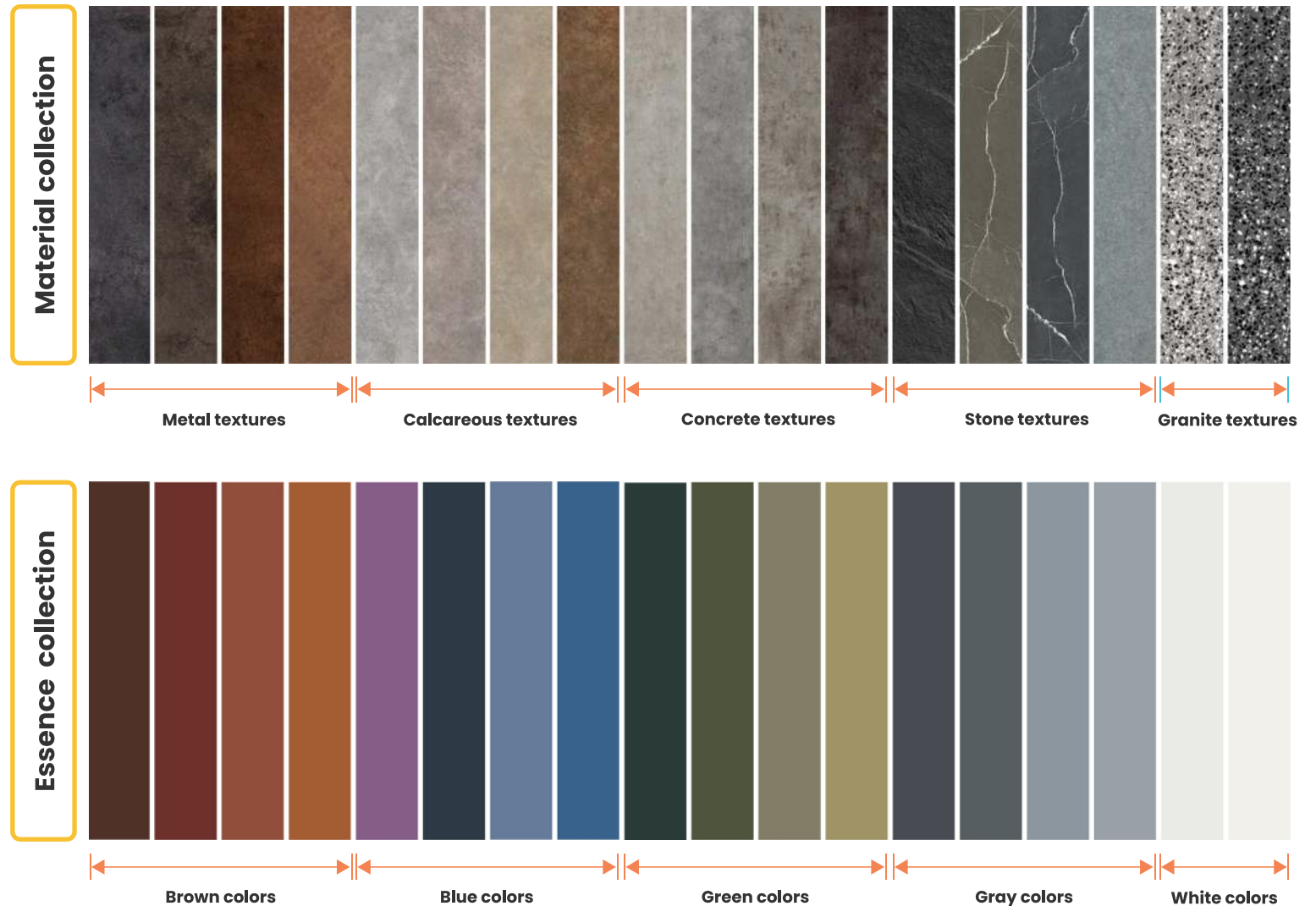
Choose between 18 material textures and 18 plain colors to perfectly adapt your project to the urban context.

The choice of the collection varies according to the chosen product, GenVue Powerskin Facade allows you to express yourself freely with all 36 colors while Puzzle and Tile (at least in the standard version) have a limited selection of colors.

Depending on the desired collection, GenVue Powerskin offers a recommended surface finish capable, as in the case of the material collection, to enhance the grain and textures of the natural world.



GenVue Powerskin uses completely ecological coloring processes for all collections.



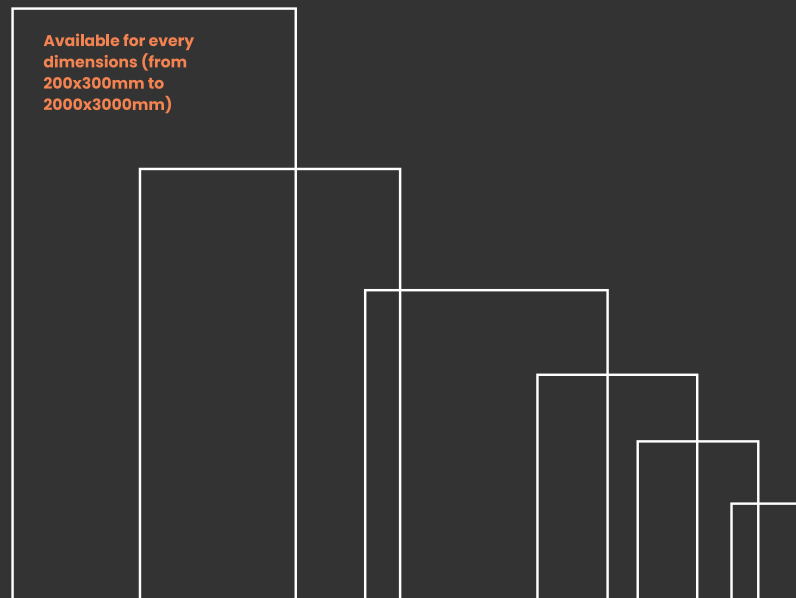
# GenVue Powerskin

## natural black

### A dark surface for an extraordinary efficiency

GenVue Powerskin also proposes Natural Black High Efficiency Surface, specified design to maximize energy efficiency.

This product is available for all dimension and all superficial finishes, all aesthetically black. It is made with a transparent front glass (no color collection) able to allow all the luminous radiation to reach directly the new generation ensuring maximum efficiency and aesthetic performance.



18 Material textures +

18 Essence colors +


1 Natural Black High Efficiency Surface

Electrical properties :

145 Wp/sqm \*

Available for every products :

 **GenVue Powerskin Facade**  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 **GenVue Powerskin Puzzle**  
730 x 1100 mm | 360 x 1100 mm  
360 x 545 mm

 **GenVue Powerskin Tile**  
1400 x 800 mm | 1400 x 440 mm  
698,5 x 800 mm | 698,5 x 440 mm

Available for every surface :





































 **NATURAL**

 **CANNETTE**

 **FLAT**

 **SOLAR**

\* wp/sqm peak power(watts) per square meter.

Collection	Category	Name	Color Code	Efficiency	
<b>Essence collection</b>	Brown colors	 Orange brown	EB - 8023	120 Wp/sqm	
		 Copper brown	EB - 8004	145 Wp/sqm	
		 Oxide red	ER - 3009	145 Wp/sqm	
		 Mahogany brown	EB - 8016	150 Wp/sqm	
	Blue colors	 Reddish lilac	EV - 4001	140 Wp/sqm	
		 Dove blue	EB - 5014	145 Wp/sqm	
		 Bright blue	EB - 5007	165 Wp/sqm	
		 Grayish blue	EB - 5008	145 Wp/sqm	
	Green colors	 Olive yellow	EY - 1020	160 Wp/sqm	
		 Olive gray	EG - 7002	145 Wp/sqm	
		 Olive green	EG - 6003	145 Wp/sqm	
		 Blackish green	EG - 6012	145 Wp/sqm	
	Gray colors	 Window gray	EG - 7040	150 Wp/sqm	
		 Silver gray	EG - 7001	140 Wp/sqm	
		 Basalt gray	EG - 7012	145 Wp/sqm	
		 Graphite gray	EG - 7024	145 Wp/sqm	
	White colors	 Signal white	EW - 9003	110 Wp/sqm	
		 Traffic white	EW - 9016	120 Wp/sqm	
	<b>Material collection</b>	Brown colors	 Used gray	MC - 01	140 Wp/sqm
			 Vintage taupe	MC - 02	140 Wp/sqm
 Worked charcoal			MC - 03	145 Wp/sqm	
 Worn sand			MC - 04	140 Wp/sqm	
Blue colors		 Burnished	MM - 07	150 Wp/sqm	
		 Bronze	MM - 08	145 Wp/sqm	
		 Corten	MM - 06	145 Wp/sqm	
		 Russet	MM - 05	145 Wp/sqm	
Green colors		 Brown	MC - 09	145 Wp/sqm	
		 Gray	MC - 10	140 Wp/sqm	
		 Cream	MC - 11	140 Wp/sqm	
		 Taupe	MC - 12	140 Wp/sqm	
Gray colors		 Graystone	MS - 14	140 Wp/sqm	
		 Slate	MS - 13	150 Wp/sqm	
		 Piasentina gray	MS - 15	150 Wp/sqm	
		 Piasentina ocher	MS - 16	145 Wp/sqm	
White colors		 Vintage dark	MG - 17	145 Wp/sqm	
		 Vintage gray	MG - 18	145 Wp/sqm	

\* Only on specific request, all collections are available for all GenVue Powerskin products and for all surface finishes. Ask our experts how to combine all the elements.

## Essence collection



Essence collection focuses on full-body nuances to redefine spaces. GenVue Powerskin offers a series of 18 essences in pure color, to be used in a transversal and simple way in any architectural project. The colors divided into 4 color families allow the entire building covered by adapting the aesthetics to the needs and constraints of the project.




Essence collection  
**Orange brown**  
Brown colors


Color code:  
EB-8023 (similar to RAL 8023)

**Electrical properties:**

120 Wp/sqm \*


**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural  
 Cannette  
 Flat  
 Solar

**Recommended surface finishes:**




Essence collection  
**Copper brown**  
Brown colors


Color code:  
EB-8004 (similar to RAL 8004)

**Electrical properties:**

145 Wp/sqm \*



**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural  
 Cannette  
 Flat  
 Solar \*\*

**Recommended surface finishes:**




Essence collection  
**Oxide red**  
Brown colors

Color code:  
ER-3009 (similar to RAL 3009)

**Electrical properties:**

145 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural  
 Cannette  
 Flat  
 Solar

**Recommended surface finishes:**




Essence collection  
**Mahogany brown**  
Brown colors

Color code:  
EB-8016 (similar to RAL 8016)

**Electrical properties:**

150 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural  
 Cannette  
 Flat  
 Solar

**Recommended surface finishes:**



\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

Essence collection  
**Reddish lilac**  
Blue colors


Color code:  
EV-4001 (similar to RAL 4001)

**Electrical properties:**

140 Wp/sqm \*


**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm


 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



Essence collection  
**Dove blue**  
Blue colors


Color code:  
EB-5014 (similar to RAL 5014)

**Electrical properties:**

145 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



Essence collection  
**Bright blue**  
Blue colors


Color code:  
EB-5007 (similar to RAL 5007)

**Electrical properties:**

165 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



Essence collection  
**Grayish blue**  
Blue colors


Color code:  
EB-5008 (similar to RAL 5008)

**Electrical properties:**

145 Wp/sqm \*

**Available products:**


 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

Essence collection  
**Olive yellow**  
Green colors

Color code:  
EY-1020 (similar to RAL 1020)

**Electrical properties:**

160 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat




Essence collection  
**Olive gray**  
Green colors


Color code:  
EG-7002 (similar to RAL 7002)

**Electrical properties:**

145 Wp/sqm \*


**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm


 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**



 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat




Essence collection  
**Olive green**  
Green colors


Color code:  
EG-6003 (similar to RAL 6003)

**Electrical properties:**

145 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm


 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



Essence collection  
**Blackish green**  
Green colors

Color code:  
EG-6012 (similar to RAL 6012)


**Electrical properties:**

145 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm


 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.


Essence collection  
**Window gray**  
Gray colors

Color code:  
EG-7040 (similar to RAL 7040)

**Electrical properties:**

150 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



Essence collection  
**Silver gray**  
Gray colors

Color code:  
EG-7001 (similar to RAL 7001)

**Electrical properties:**

140 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**




 Natural

 Cannette

 Flat

 Solar

**Recommended surface finishes:**

 Cannette  Flat  Solar



\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

Essence collection  
**Basalt gray**  
Gray colors

Color code:  
EG-7012 (similar to RAL 7012)

**Electrical properties:**

145 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle \*\*  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile \*\*  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**

 Natural

 Cannette

 Flat

 Solar \*\*

**Recommended surface finishes:**

 Cannette  Flat



\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

Essence collection  
**Graphite gray**  
Gray colors


Color code:  
EG-7024 (similar to RAL 7024)


**Electrical properties:**

145 Wp/sqm \*

**Available products:**

 Facade  
Max: 2000 x 3000 mm  
Min: 200 x 300 mm

 Puzzle  
1100 x 730 mm  
1100 x 360 mm  
455 x 360 mm

 Tile  
1400 x 800 mm  
1400 x 440 mm  
698,5 x 800 mm  
698,5 x 440 mm

**Available surface finishes:**


 Natural

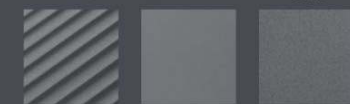
 Cannette

 Flat

 Solar

**Recommended surface finishes:**

 Cannette  Flat  Solar



---

Essence collection

**Traffic white**

White colors

Color code:

EW-9016 (similar to RAL 9016)

---

**Electrical properties:**

120 Wp/sqm \*

---

**Available products:**



Facade

Max: 2000 x 3000 mm

Min: 200 x 300 mm



Puzzle

1100 x 730 mm

1100 x 360 mm

455 x 360 mm



Tile \*\*

1400 x 800 mm

1400 x 440 mm

698,5 x 800 mm

698,5 x 440 mm

---

**Available surface finishes:**



Natural



Cannette



Flat



Solar \*\*

---

**Recommended surface finishes:**



Cannette

Flat



\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

---

Essence collection

**Signal white**

White colors

Color code:

EW-9003 (similar to RAL 9003)

---

**Electrical properties:**

110 Wp/sqm \*

---

**Available products:**



Facade

Max: 2000 x 3000 mm

Min: 200 x 300 mm



Puzzle \*\*

1100 x 730 mm

1100 x 360 mm

455 x 360 mm



Tile \*\*

1400 x 800 mm

1400 x 440 mm

698,5 x 800 mm

698,5 x 440 mm

---

**Available surface finishes:**



Natural



Cannette



Flat



Solar \*\*

---

**Recommended surface finishes:**



Cannette

Flat



\* Wp/sqm peak power (watts) per square meter \*\* Product or surface finishes available only on specific request.

# Material collection

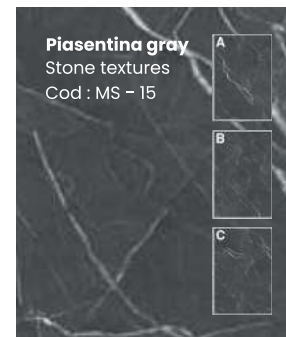
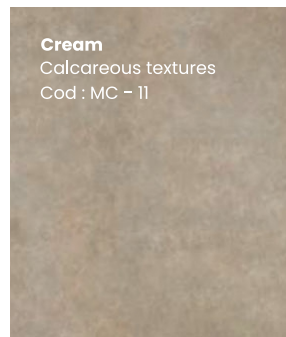
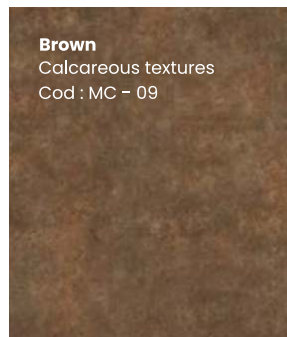
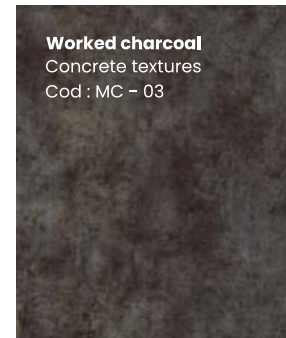
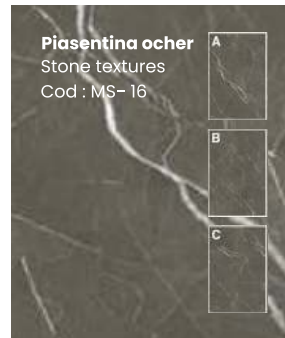
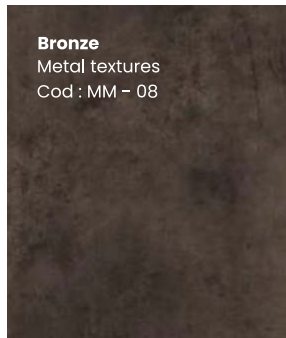
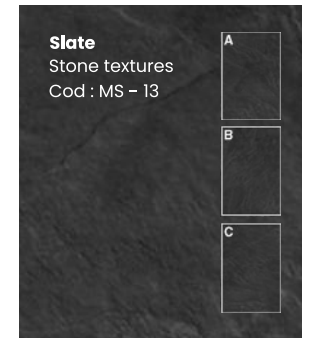
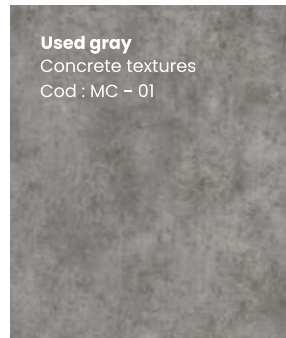
Material collection is a collection full of 18 textures to reproduce the natural world and free your creativity.

In addition, the collection is enriched by the glass surface finishing processes that amplify the texture, giving a sense of materiality to the entire surface. A recommended surface is indicated for each texture.

This collection is designed for the most sophisticated architectural needs, integrating natural textures for a complete integration of the buildings into the urban and city environment.



# Material slab overview



# Project overview





## Residential Green Distric

### Project overview

This project of the Umwelt Arena Schweiz foundation in collaboration with René Schmid Architekten AG was awarded with the Watt D'Or 2021 in the Buildings and Space category by the Swiss Federal Office of Energy for the ecological and economic impact of the project. The future oriented apartment buildings combine a variety of innovative solutions to achieve a CO2 neutral operations goal.

**Location :**  
Männedorf, Switzerland

**Type of building**  
Residential complex

**Color :**  
Copper brown

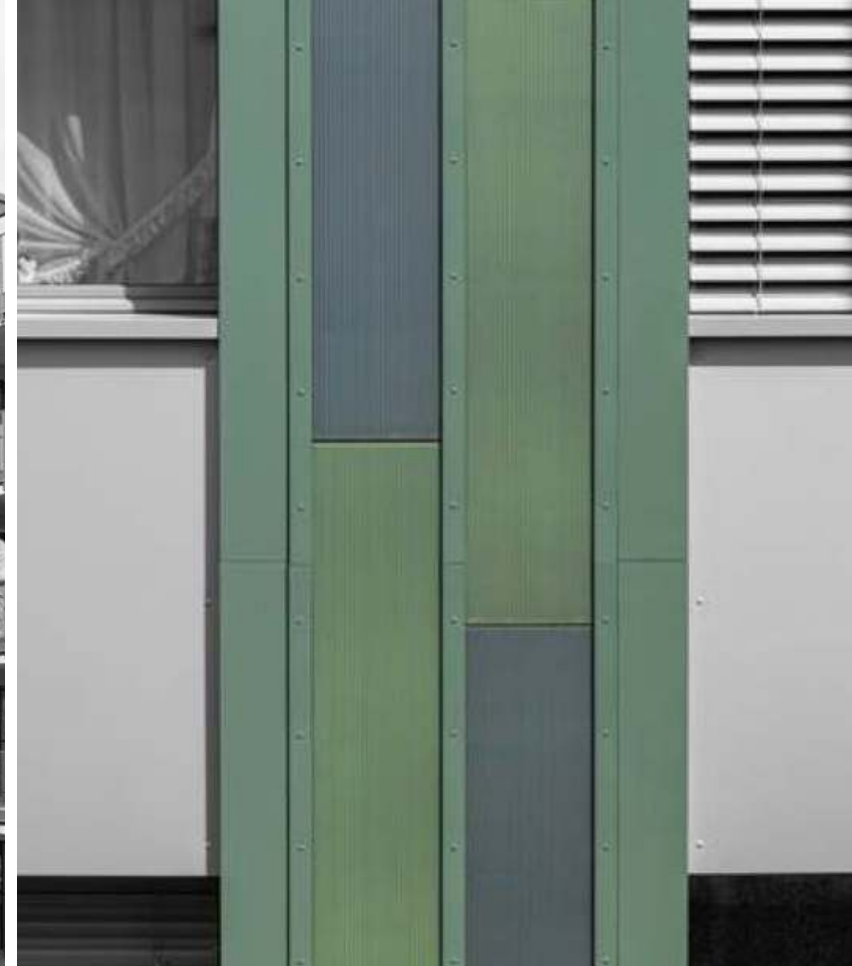
**Surface :**  
House A 424 sqm  
House B 423 sqm

**Power Installed :**  
80 kWp

**Finishes :**  
Cannette surface

**Efficiency :**  
1,32

**Number of modules :**  
484 Haus A  
480 Haus B



# Solar Living Kloten

## Project overview

This project by René Schmid Architekten AG has been built in the centre of Kloten, Switzerland. It includes 22 modern apartments and an underground car park that are geared towards a future-oriented way of life.

"Solar Living" is the guiding principle of this residential complex and it stands for progressive and conscious living in harmony with nature.

**Location :**

Kloten, Switzerland

**Power Installed :**

26.7 kWp

**Type of building :**

Residential

**Finishes :**

Cannette surface

**Surface :**

223 sqm

**Efficiency :**

1,49

**Number of modules:**

408

**Color :**

Blackish green | Olive green  
Olive gray



# Winter World

## Project overview

The solar system installed on the "winter and sports world" leisure facility in Wallisellen will be one of the largest in the region and among the top 15 across the canton. The photovoltaic panels installed on the facades of the building are sophisticated and adaptable in terms of colour, size and shape.

**Location :**

Wallisellen, Switzerland

**Type of building :**

Public

**Surface :**

439.5 sqm

**Number of modules:**

726

**Power Installed :**

50 kWp

**Finishes :**

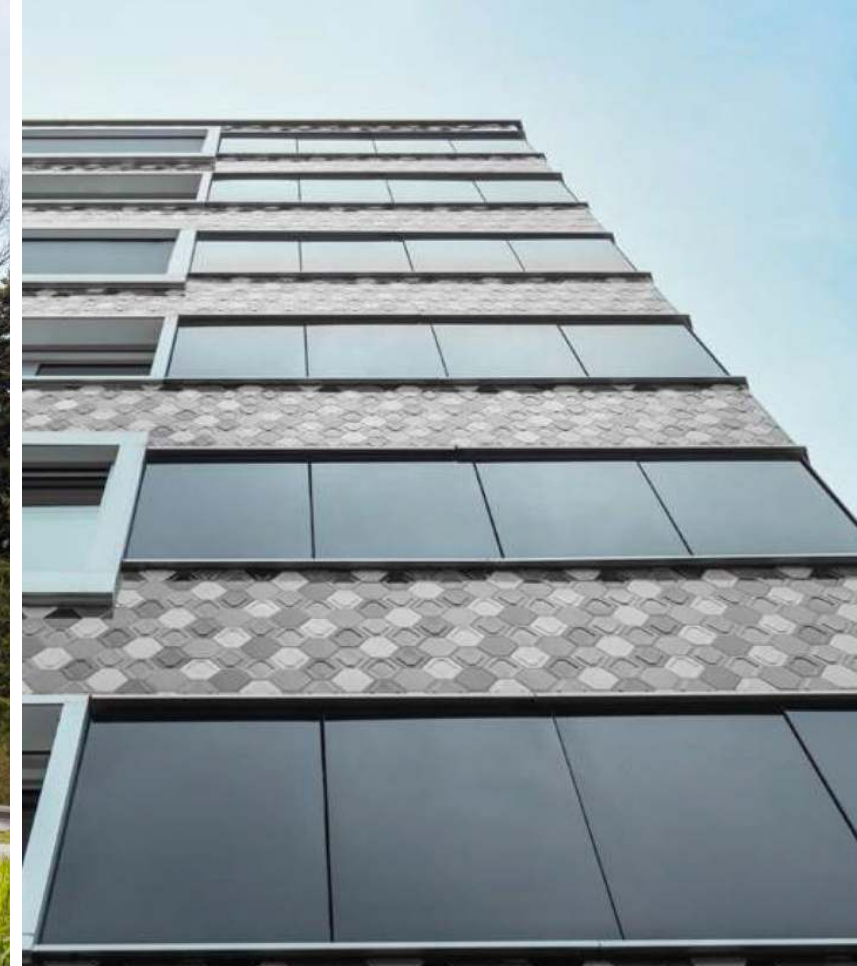
Flat surface Go to Settin

**Efficiency :**

1,35

**Color :**

Copper Brown



# Kloten Milano

## Project overview

The new 8-storey Kloten Milano building has 65 apartments and 650 m<sup>2</sup> of commercial space. In this project, the innovative BIPV modules were carefully studied to seamlessly integrate with traditional elements such as ceramic, giving the facade a perception of greater movement

**Location :**  
Kloten, Switzerland

**Type of building :**  
Residential

**Surface :**  
205 sqm

**Number of modules:**  
160

**Power Installed :**  
21.5 kWp

**Finishes :**  
Flat surface

**Efficiency :**  
0,12

**Color :**  
Graphite gray



## Multi – Functional Roof

### Project overview

A terracotta BIPV roof perfectly integrates with this multi-functional red and brown building.

**Location :**  
Seergräben, Switzerland

**Type of building :**  
Multi functional

**Surface :**  
68 sqm

**Number of modules:**  
63 pz

**Power Installed :**  
7.5 kWp

**Finishes :**  
Solar surface

**Efficiency :**  
15,75

**Color :**  
Oxide red



# Thalwil Residential

## Project overview

This is a project by Tobler Litscher GmbH. The building is characterised by the brown structured glass BIPV modules on the facade and it also includes a customised grey solar roof made with structured glass BIPV modules.

**Location :**

Thalwil, Switzerland

**Power Installed :**

32 kWp

**Type of building :**

Residential

**Finishes :**

Cannette surface

**Surface :**

264 sqm

**Efficiency :**

1,23

**Number of modules:**

282

**Color :**

Mahogany brown



# Opfikon Green House

## Project overview

This is a renovation project by René Schmid Architekten AG. The building has almost all the facade covered by green structured BIPV modules that power the building while positively impacting its aesthetics.

**Location :**

Opfikon, Switzerland

**Power Installed :**

35.1 kWp

**Type of building :**

Residential

**Finishes :**

Cannette surface

**Surface :**

302 sqm

**Efficiency :**

1,35

**Number of modules:**

287

**Color :**

Blackish green | Olive green



## WWZ AG

### Project overview

This office building is being designed to meet high standards for energy efficiency for WWZ Zug, a Swiss supplier of energy, telecommunications and water. The new WWZ Zug building is an office building with an integrated computer centre. The building consists of 3 upper floors for office use and 3 basement floors.

**Location :**

Zug, Switzerland

**Power Installed :**

4.5 kWp

**Type of building :**

Commercial

**Finishes :**

Cannette surface

**Surface :**

269 sqm

**Efficiency :**

0,12

**Number of modules:**

142

**Color :**

Silver gray



# Varen Green View

## Project overview

A newly constructed roof made with black BIPV modules characterises this house in a natural mountain landscape

**Location :**

Varen, Switzerland

**Power Installed :**

19 kWp

**Type of building :**

Residential

**Finishes :**

Solar surface

**Surface :**

119 sqm

**Efficiency :**

0,18

**Number of modules:**

120

**Color :**

Black



# Erschmatt Residence

## Project overview

The traditional coppo roof perfectly blends with the terracotta BIPV modules in a mountain landscape.

**Location :**

Erschmatt, Switzerland

**Type of building :**

Residential

**Surface :**

69.50 sqm

**Number of modules:**

70

**Power Installed :**

10.64 kWp

**Finishes :**

Solar surface

**Efficiency :**

15,75

**Color :**

Terracotta



# Berglodge Goms

## Project overview

The black BIPV roof in the middle of the mountains is in perfect harmony with its surroundings.

**Location :**  
Münster, Switzerland

**Type of building :**  
Multi-functional

**Surface :**  
54.60 sqm

**Number of modules:**  
52

**Power Installed :**  
9.36 kWp

**Finishes :**  
Solar surface

**Efficiency :**  
0,18

**Color :**  
Black



## Burg House

### Project overview

This traditional house has a black BIPV roof with a high energy efficiency

**Location :**  
Burg, Switzerland

**Type of building :**  
Residential

**Surface :**  
34 sqm

**Number of modules:**  
36

**Power Installed :**  
5.28 kWp

**Finishes :**  
Solar surface

**Efficiency :**  
0,18

**Color :**  
Black



# Physical and chemical data

## GENERAL DESCRIPTION

The specified glass is a low-iron glass for use in photovoltaic and solar thermal sector.

The product is available as patterned glass with the surface structures mat/mat. Available in 3,2 mm thickness.

## CHEMICAL COMPOSITION

### Silicon dioxide (SiO<sub>2</sub>)

68-73%

### Sodium oxide (Na<sub>2</sub>O)

9-16%

### Calcium oxide (CaO)

5-13%

### Magnesium oxide (MgO)

0-6%

### Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>)

0-3%

### Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)

<0,014%

## MECHANICAL CHARACTERISTICS

### Density (at 18°C)

(ρ)-2500 kg/m<sup>3</sup>

### Young's modulus

(E) - 7x10<sup>10</sup> Pa

### Poisson's ratio

(μ) - 0,2

### Specific heat capacity

(c)-0,72 x 10<sup>3</sup> J/(kg·K)

### Nominal value of average coefficient of linear expansion between 20° and 300°C

(α) 9 x 10<sup>-6</sup> K<sup>-1</sup>

### Thermal conductivity

(A)-1 W/(m·K)

## PHYSICAL COMPOSITION

### Maximum snow load

5400 Pa

### Maximum load tested

8000 Pa

### Maximum wind speed

130 Km/h

### Hail

G3 Class; 0 25 mm;  
82 Km/h

### Reaction to fire

Class 1

### Thickness

8 mm (0.5mm/+1.5mm)

### Front Glass

Thickness 3.2 mm

### Back Glass

Thickness 3.2 mm

### Cells

Mono-crystalline cells  
166 x 166 mm  
High efficiency

### Encapsulant

EVA Solar

### Junction Box

JB IP 67

### Connector Features

MC4 original

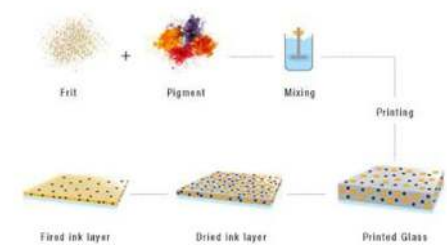
### Cable Characteristics

04 mm<sup>2</sup> length 800 mm

## COATING OVER THE TIME

GenVue Powerskin Coating process consists in a special mineral coating on one glass side vitrified in a high temperature curing.

The color is integrated into the glass mass as a unique product for great durability. The color remains unchanged over the time.



## UV TEST

In over 5000 hours of tests (estimated as equivalent to 20 years of real exposure in central Europe) on Solar, light, UV, PV transmittance and color L\*a\*b", the change in efficiency is almost nothing.

### Material collection data

### Essence collection data

	250 hours	1250 hours	2500 hours	5000 hours
Solar transmittance <b>AM1.5, ISO9845</b>	Δ E ≤ 0,001 Δ E ≤ 0,001	Δ E ≤ 0,001 Δ E ≤ 0,001	Δ E ≤ 0,001 Δ E ≤ 0,001	Δ E ≤ 0,001 Δ E ≤ 0,002
Light transmittance <b>D65, En410</b>	Δ E ≤ 0,003 Δ E ≤ 0,001	Δ E ≤ 0,004 Δ E ≤ 0,001	Δ E ≤ 0,005 Δ E ≤ 0,001	Δ E ≤ 0,005 Δ E ≤ 0,003
UV transmittance <b>ISO9050</b>	Δ E ≤ 0,001 Δ E ≤ 0,025	Δ E ≤ 0,001 Δ E ≤ 0,024	Δ E ≤ 0,001 Δ E ≤ 0,024	Δ E ≤ 0,001 Δ E ≤ 0,028
PV transmittance <b>AM1.5 poly-Si</b>	Δ E ≤ 0,001 Δ E ≤ 0,001	Δ E ≤ 0,001 Δ E ≤ 0,001	Δ E ≤ 0,002 Δ E ≤ 0,001	Δ E ≤ 0,001 Δ E ≤ 0,001
Photosynthetically active radiation	Δ E ≤ 0,002 Δ E ≤ 0,001	Δ E ≤ 0,003 Δ E ≤ 0,002	Δ E ≤ 0,004 Δ E ≤ 0,001	Δ E ≤ 0,004 Δ E ≤ 0,003

### Color L\*a\*b\*

L*	Δ L ≤ 0,3 Δ L ≤ 0,10	Δ L ≤ 0,4 Δ L ≤ 0,10	Δ L ≤ 0,4 Δ L ≤ 0,10	Δ L ≤ 0,4 Δ L ≤ 0,2
a*	Δ a ≤ 0,12 Δ a ≤ 0,04	Δ a ≤ 0,13 Δ a ≤ 0,04	Δ a ≤ 0,14 Δ a ≤ 0,01	Δ a ≤ 0,12 Δ a ≤ 0,001
b*	Δ b ≤ 0,01 Δ b ≤ 0,21	Δ b ≤ 0,17 Δ b ≤ 0,20	Δ b ≤ 0,24 Δ b ≤ 0,23	Δ b ≤ 0,25 Δ b ≤ 0,25

The electrical data comes from laboratory tests and will be confirmed by post-production tests.

## Electrical data example

### Essence Collection Graphite gray color

	I	II			III			
		Puzzle 24	Puzzle 12	Puzzle 6	Tile 32	Tile 16H	Tile 16V	Tile 8
Values per sqm		730 x 1100 mm	360 x 1100 mm	360 x 545 mm	1400 x 800 mm	1400 x 440 mm	698,5 x 800 mm	698,5 x 440 mm
Vmp (V)	21,10	14,70	7,03	3,52	18,75	9,38	9,38	4,69
Imp (A)	6,98	6,98	6,98	6,98	6,98	6,98	6,98	6,98
Power (Wp)	145,00	100,00	50,00	25,00	130,00	65,00	65,00	32,50
Voc (V)	24,79	16,52	8,26	4,13	20,03	11,02	11,02	5,51
Isc (A)	7,38	7,38	7,38	7,38	7,38	7,38	7,38	7,38
Temp. Coeff. Isc (%/°C)	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
Temp. Coeff. Voc (%/°C)	-0,29	-0,29	-0,29	-0,29	-0,29	-0,29	-0,29	-0,29
Temp. Coeff. Pmax (%/°C)	-0,40	-0,40	-0,40	-0,40	-0,40	-0,40	-0,40	-0,40

### Material Collection Worked charcoal texture

Vmp (V)	21,10
Imp (A)	6,87
Power (Wp)	145,00
Voc (V)	24,79
Isc (A)	7,26
Temp. Coeff. Isc (%/°C)	0,05
Temp. Coeff. Voc (%/°C)	-0,29
Temp. Coeff. Pmax (%/°C)	-0,40

Here two sample colors are selected to show the electrical efficiency parameters of all colors and textures. Graphite gray color for the essence collection available on all GenVue Powerskin products and the Worked charcoal texture normally available only for GenVue Powerskin Facade.

Ask our experts for complete electrical data for every color or texture collections.

**Notes:** The electrical data comes from laboratory tests and will be confirmed by post-production tests. The electrical specifications are measured under STC conditions (1000 W/sqm, 1.5 Air Mass Spectrum, cells temperature 25°C); the reference module used to set our Sun Simulator has been calibrated by SUPSI University (Switzerland). The accuracy of the given figures is a function of the calibration tolerance of the reference module and of the guaranteed performances of our Sun Simulator.

## GEOMETRICAL TOLERANCES

If not requested in a different way by the client, we use following tolerances:

Glass thickness: **+/- 0.2 mm** | Length and width: **+/- 1,5 mm**

Angularity (difference between length of both diagonals): **2 mm**

## GEOMETRICAL TOLERANCES

The mentioned glass of this specification can, if requested by the client, be thermal toughened. The glass then has following mechanical and physical properties.

**Flatness:** Local bow: 0.7mm/300mm | **Bending strength:** Solar glass  $\geq 90$  N/mm<sup>2</sup>

## GLASS QUALITY (BUBBLES, SCRATCHES, INCLUSIONS) sqm

The visual inspection of the glass is done in a frontal position with a distance of 1,5m for 20 seconds with a black background (distance between glass and background about 10 cm) with direct natural light.

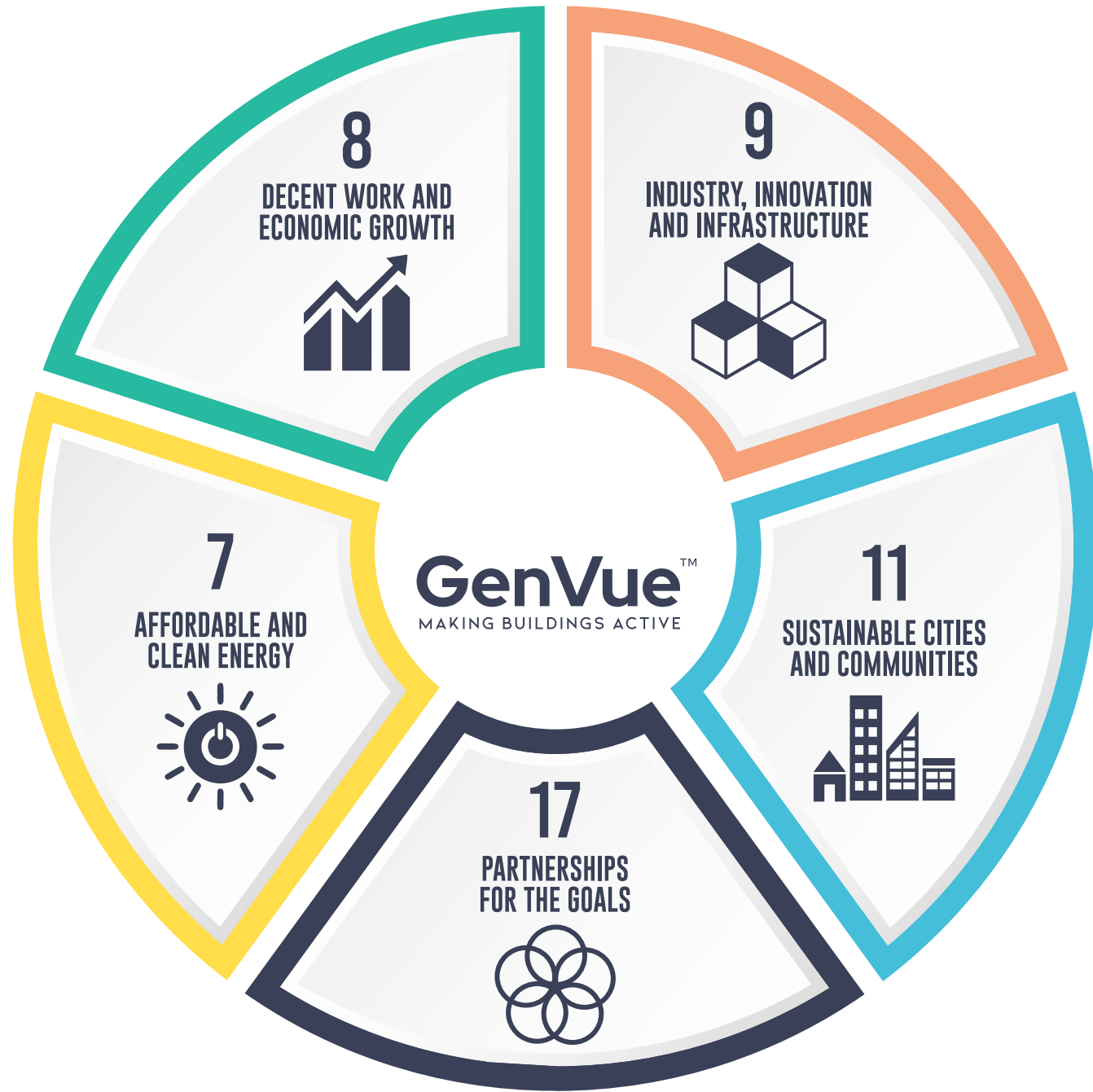
Eventual defects can be classified according to the table:

Longitudinal bubbles max. width 1 mm	Round bubbles	Scratches max. width 1 mm
Length < 5 mm max. 4 pieces	Diameter < 0,3 mm unlimited	Length > 10 mm, 1 piece
5 < Length < 10 mm max. 1 pieces	0,3 mm < Diam. < 1,0 mm max. 3 pieces	
	Diameter > 1,0 mm max. 1 piece	

## EDGES AND CORNERS

Edge processing | Fully grinded C-shape  
**Corner treatment** | **Complete round grinded**

 **SUSTAINABLE DEVELOPMENT GOALS**



**SERVING GLOBALLY**

**GenVue™**  
MAKING BUILDINGS ACTIVE

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