



Ertex Solar

Austria

The Pioneer & World Leader in Building Integrated Photovoltaics (BIPV) since 2004

THE ULTIMATE LEVEL OF CUSTOM-MADE SOLAR PANELS

Master Energy

GREECE - CYPRUS

The Building Façade of the Future: Energy-Generating and Aesthetic

Roofing

Balconies

Sky Lights

Spandrels

Brises Soleil

Ventilated Facades

Sound Walls

Curtain Walls

Active Building Skins

Walkable Floor

Canopies & Shade House

Ventilated Facades Systems address the challenge of heat loss by integrating external insulation and a ventilated air gap

Energy efficiency meets the design

Experience the perfect symbiosis of functionality and aesthetics. By integrating photovoltaics into an insulating façade, you make a building more energy–independent and also transform it into an outstanding design object.

Facade with future

Solar cells in the building envelope allow the building to generate its electricity and at the same time save heating costs through insulation. In addition by protecting the environment, façades of this type are an important step towards a sustainable energy supply and an investment in the future. With our wide–ranging expertise in the fields of insulating glass and photovoltaics, we are constantly realising exceptional solar projects with insulating façades.

The global building integrated photovoltaics (BIPV) facade market is anticipated to grow significantly from 2024 to 2028, driven by a heightened focus on sustainability, renewable energy, energy efficiency, and cost savings.

BIPV facades, which incorporate solar panels directly into building exteriors, represent an innovative technology that has the potential to change how energy is generated and used in urban settings.

Colour design options

Our solutions consist of laminated safety glass into which photovoltaic elements are integrated. They fulfil the same standards as laminated safety glass in the construction industry and can, therefore, be integrated into any surface of the building envelope. The realisation of coloured variants is achieved by using coloured cells, coloured films, coloured or printed glass.

By integrating Solar Modules, the Façade is used not only for Protection, but also for Energy Generation

the world's only handmade solar panels

More than **70** years in the Glass Industry

More than **20** years of creating Unique Solar Panels

More than **3.000** Unique Projects Worldwide

5,100 x 2,440 mm

is a World Record in the Solar Module Sector



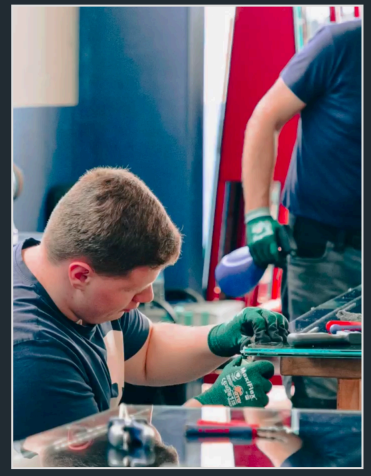


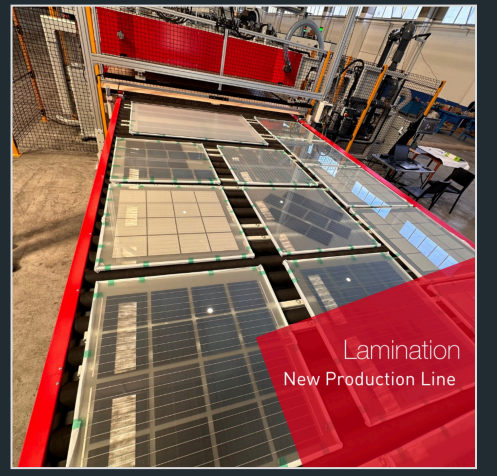
new custom–made
lamination production line
to manufacture the world's only
handcrafted solar panels.

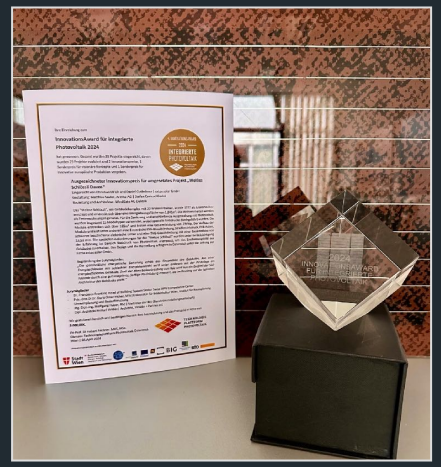


MADE IN AUSTRIA





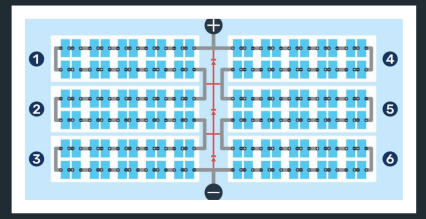


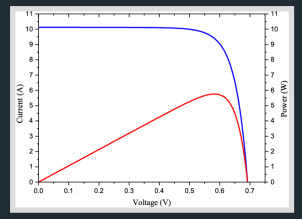


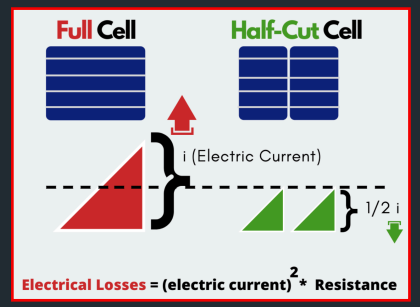
Quality & Innovation Awards

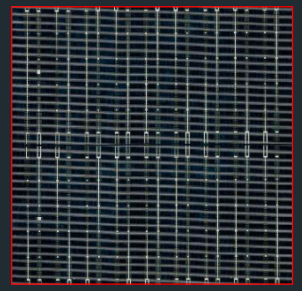
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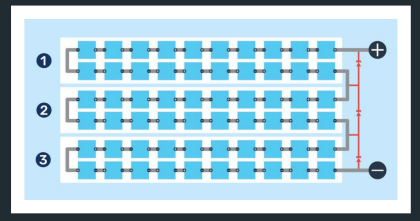


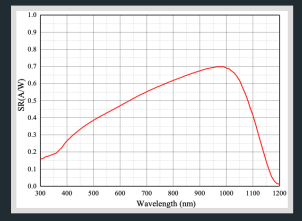












Efficiency(%)	Pmpp(Wp)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
24.90-25.00	6.87	0.606	11.331	0.709	11.832	81.85

Voc.Temp.Coef.	-0.268%/K
Isc.Temp.Coef.	+0.042%/K
Pm.Temp.Coef.	-0.3%/K

Half-Cut new tech Monocrystalline Cells with ultimate performance, up to 20 busbars

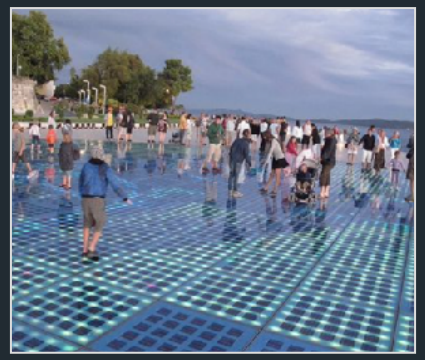
- Reduced Resistance: By halving the current flowing through each cell, resistive power losses are significantly reduced, as the power loss is proportional to the square of the current ($P = I^2R$).
- Increased Efficiency: Less resistance leads to less energy wasted as heat, allowing more electricity to be captured and utilized, thus boosting the panel's overall efficiency.
- Improved Shading Tolerance: The panel's wiring is divided into two separate halves, connected in parallel. This design allows the other half to continue generating power even if one half is shaded, preventing a complete drop in output.
- Enhanced Durability: The reduced mechanical stress on smaller, half-cut cells can decrease the likelihood of micro-cracks developing, which can damage the panel over time.

Excellent power generation performance Ultimate conversion efficiency and reliability



art & technology



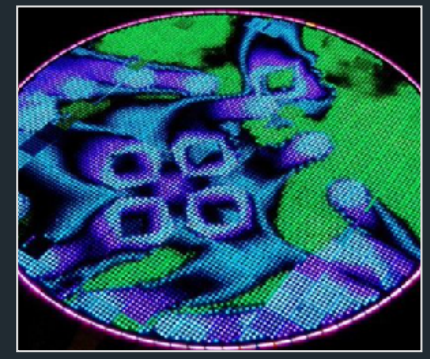


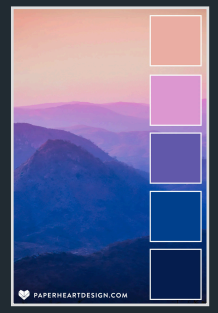
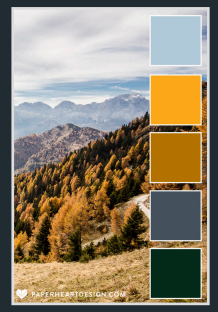
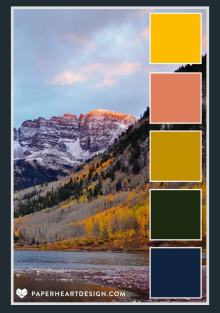
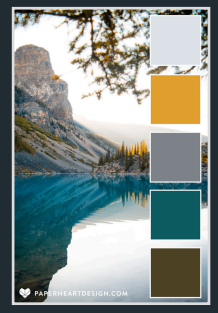
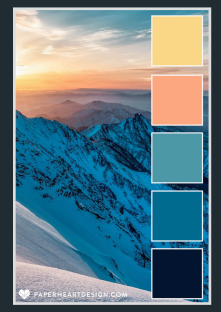


art & technology

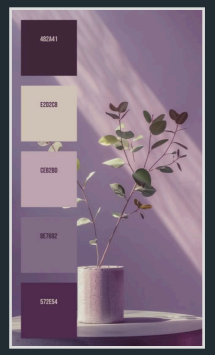


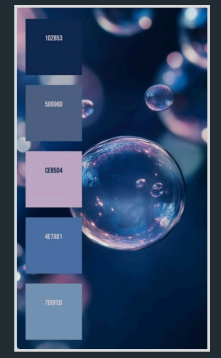




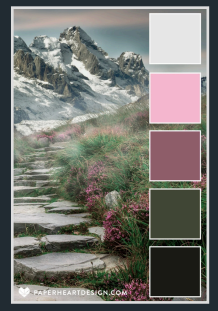
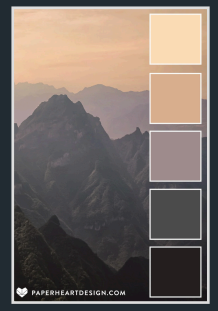
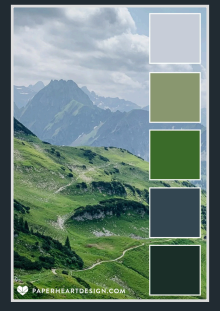
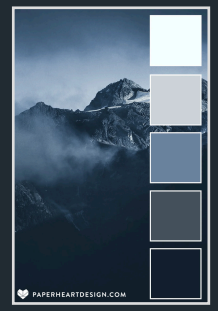
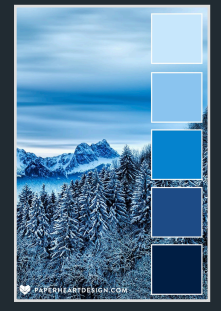






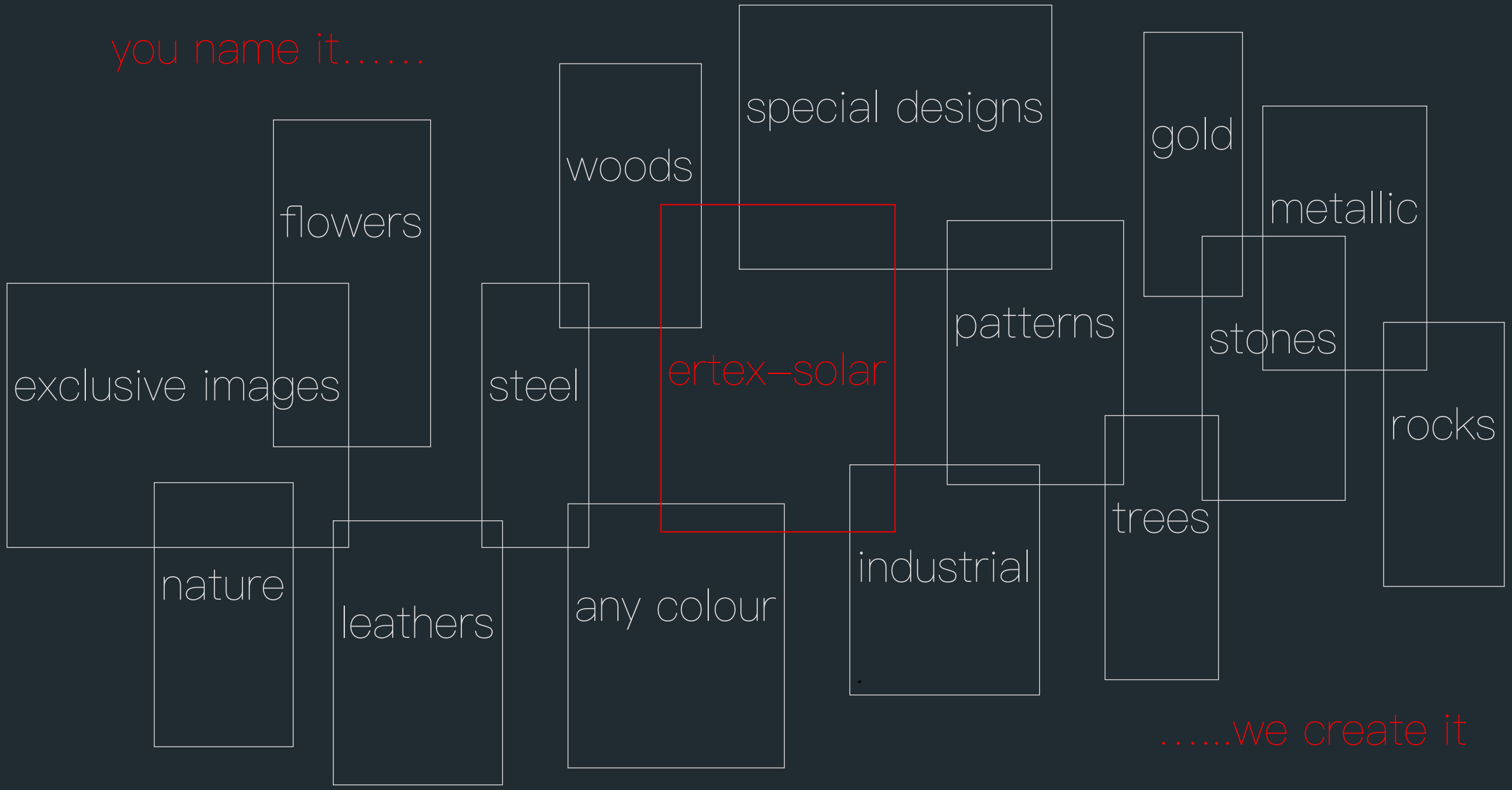
unique range of sizes, surface finishes and different colours



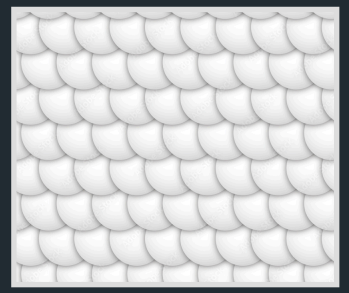
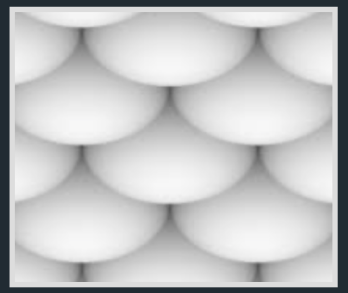
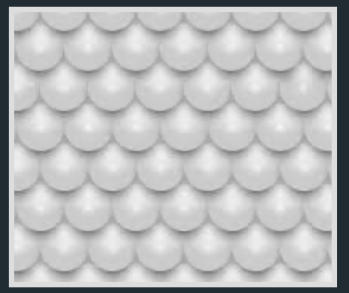
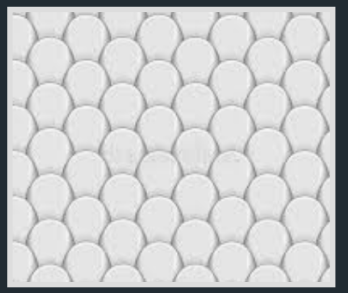



unique colour palettes to meet your architectural challenges

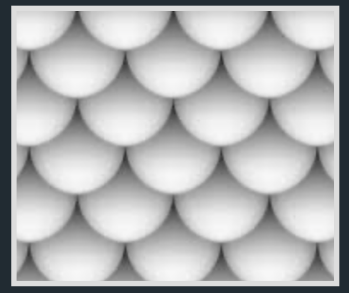
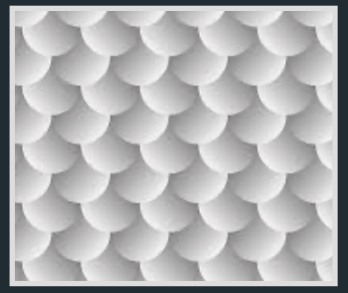
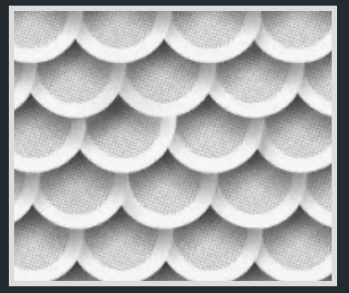
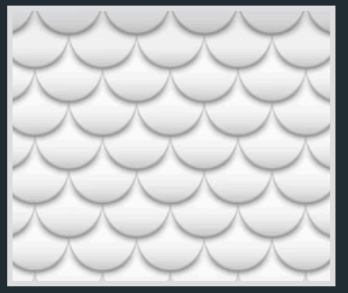






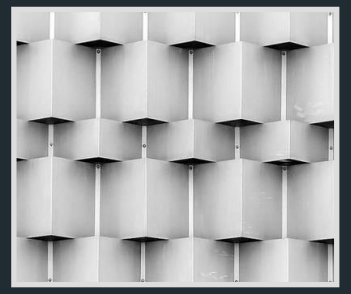
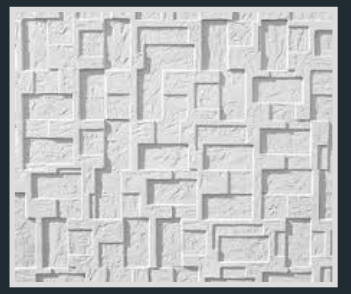
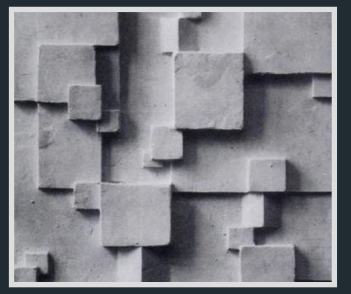
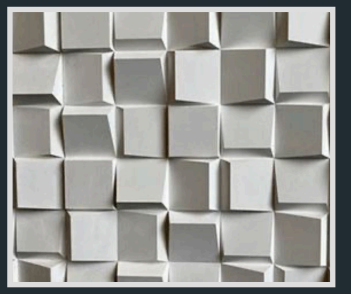

you name it.....
flowers
woods
special designs
gold
metallic
exclusive images
steel
ertex–solar
patterns
stones
rocks
nature
leathers
any colour
industrial
trees
.....we create it

here are just a few from our huge range of products and projects worldwide

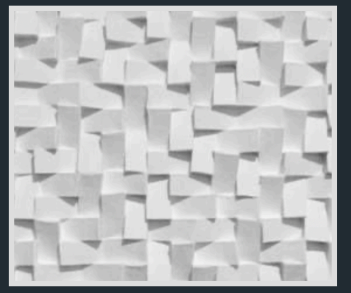
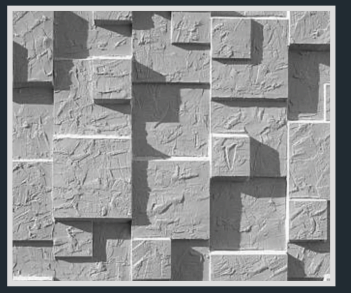
Modern Art Look

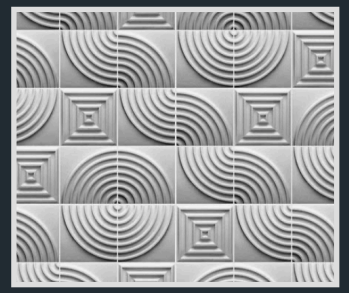
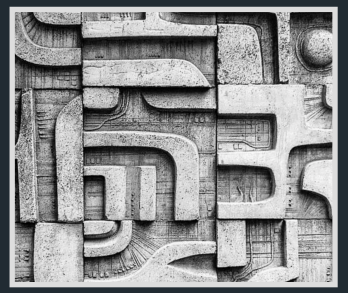
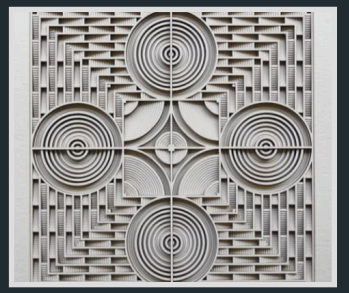
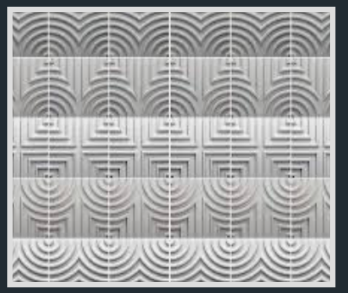





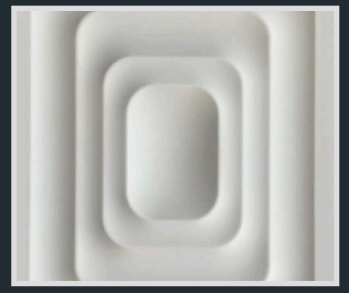
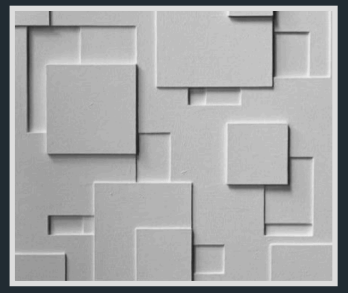
Classic Art Look



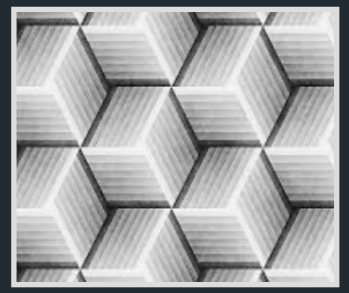
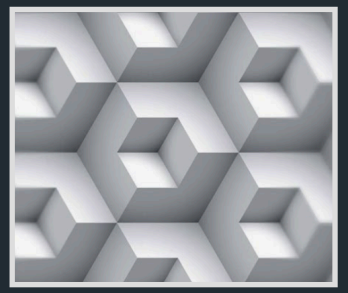
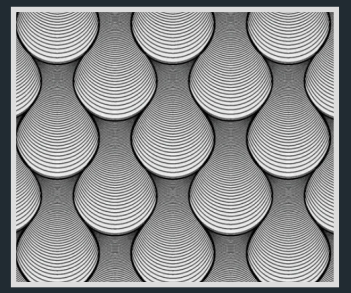
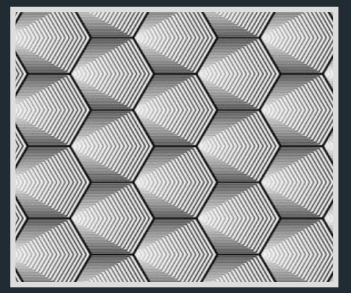



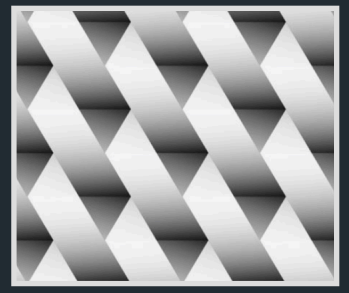
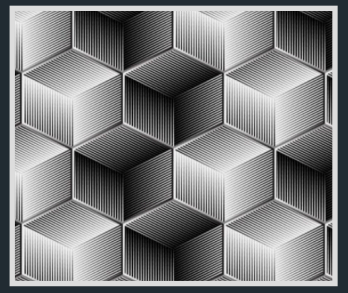
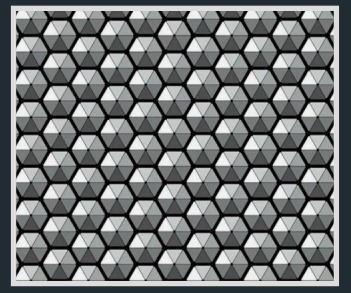
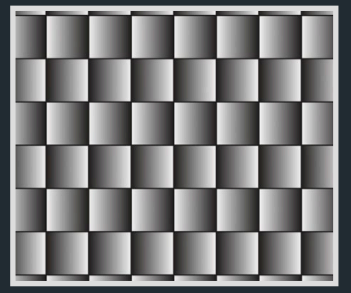
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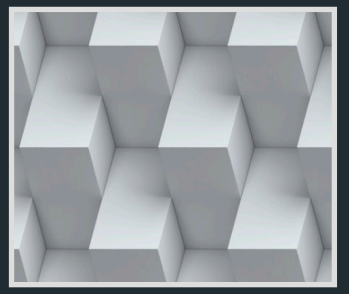


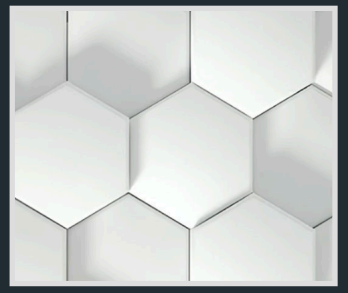
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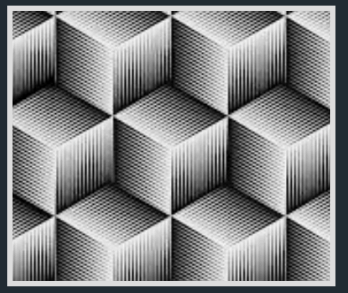





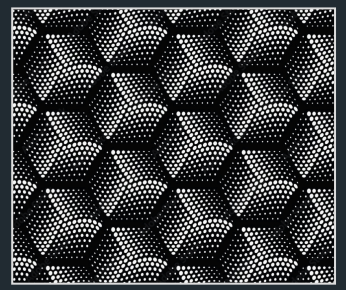
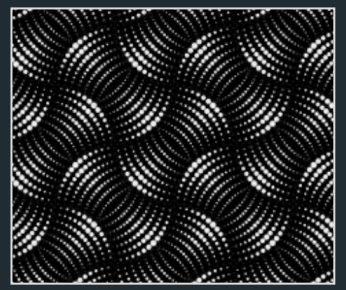
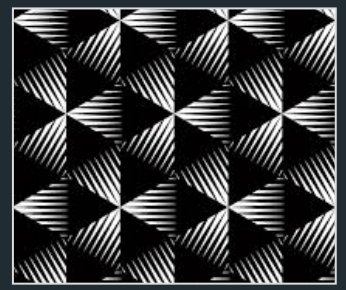
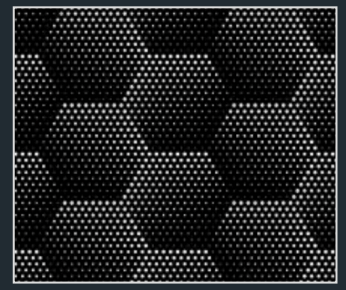
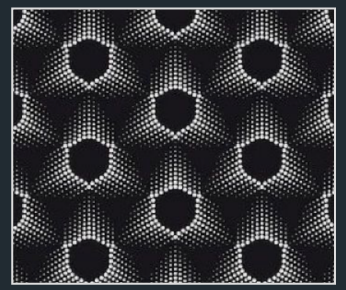
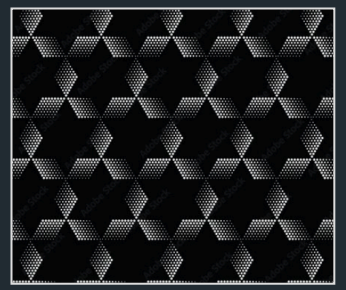


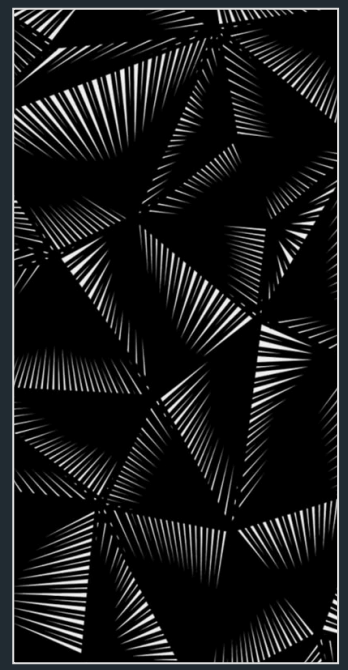



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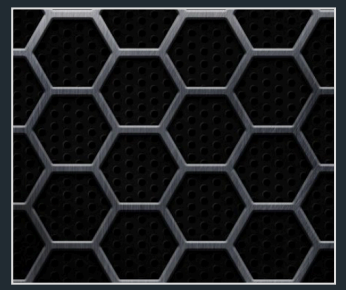
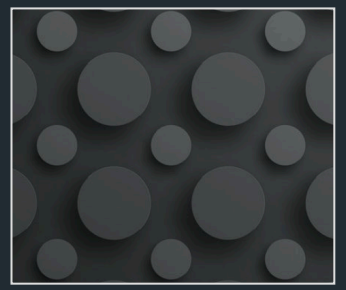
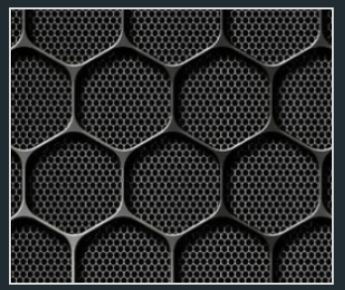
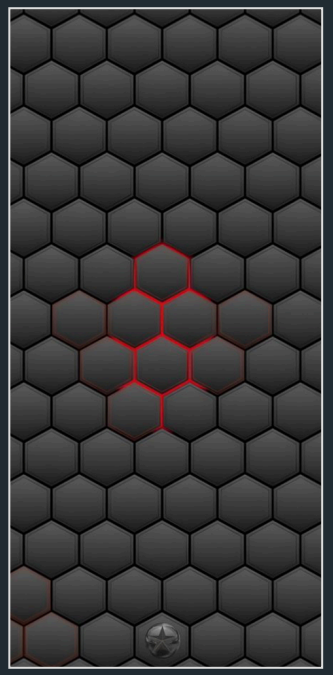





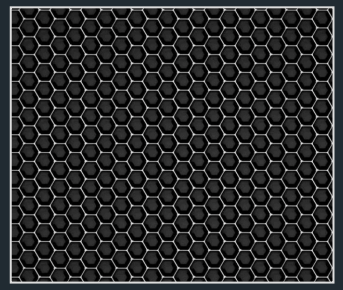








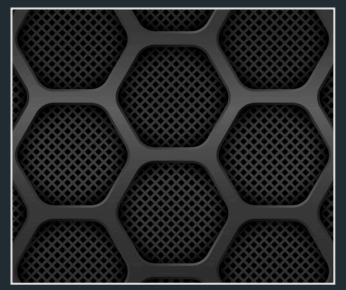
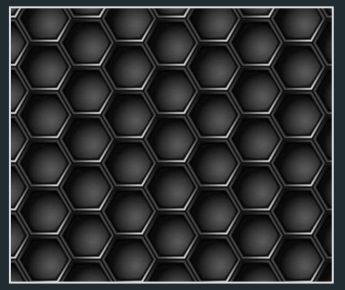


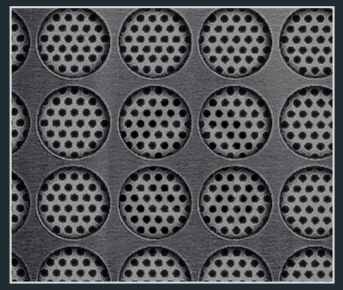
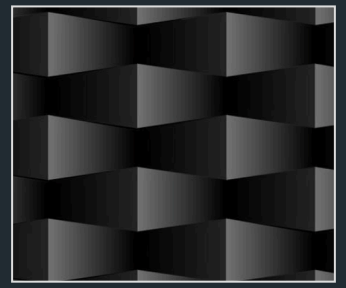
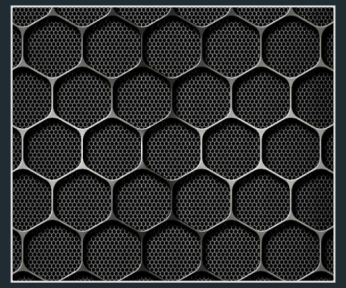
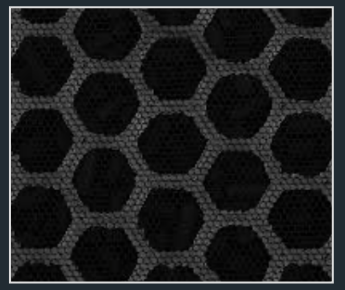
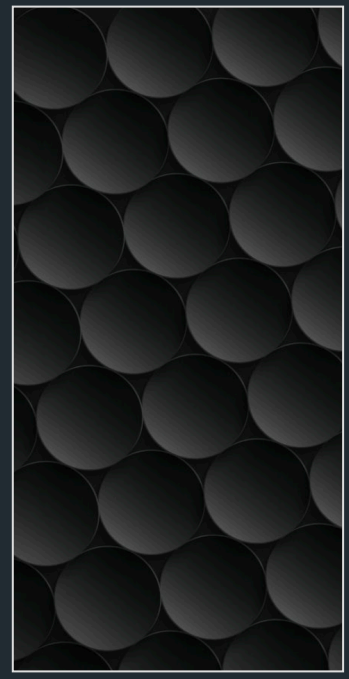
Unique Industrial Look

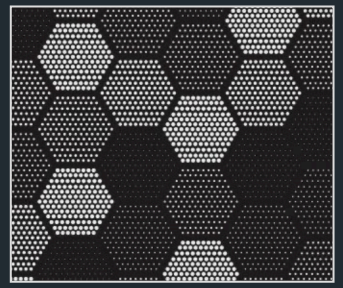
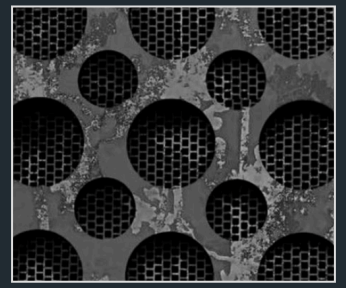
Unique Industrial Look



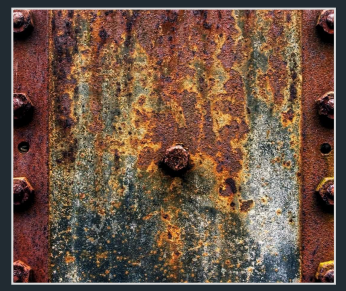



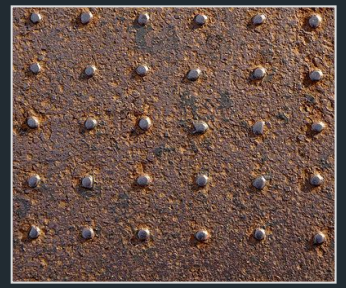
Unique Industrial Look





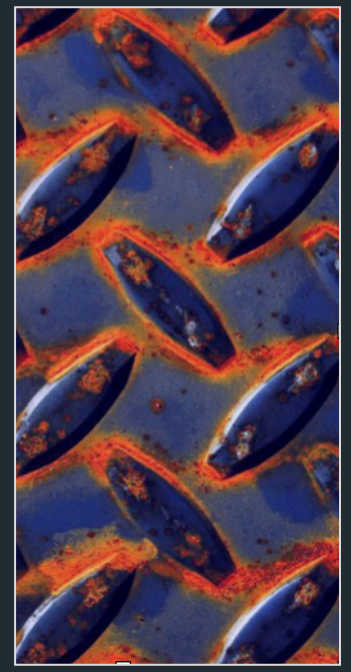





Unique Industrial Art Look

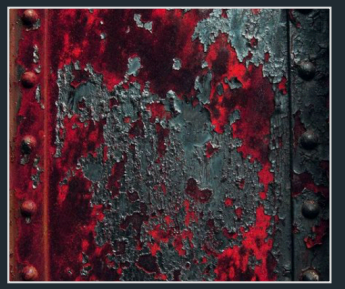


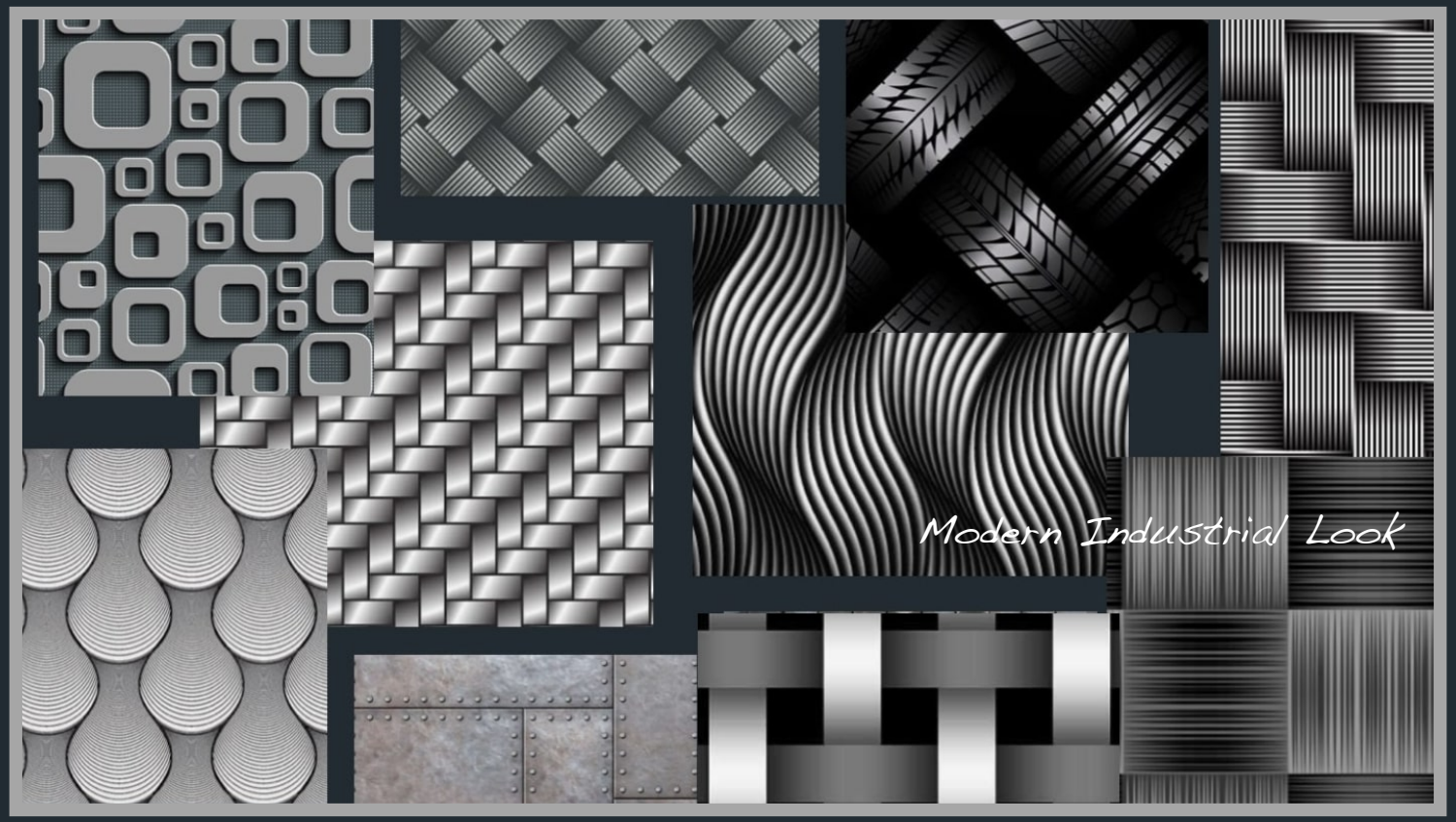


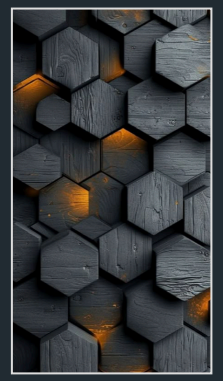


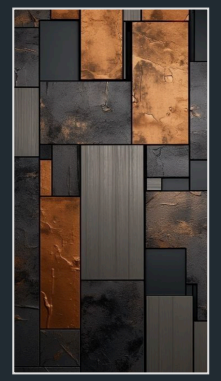
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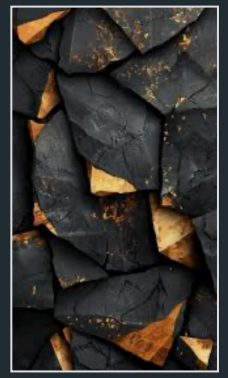



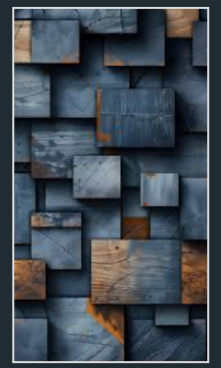

Modern Industrial Look

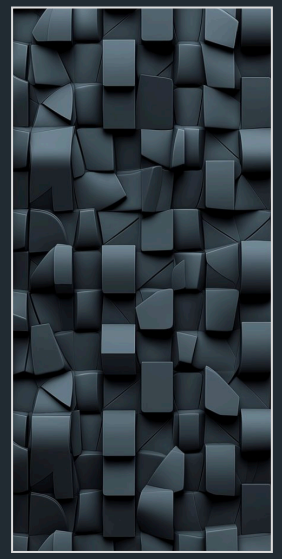


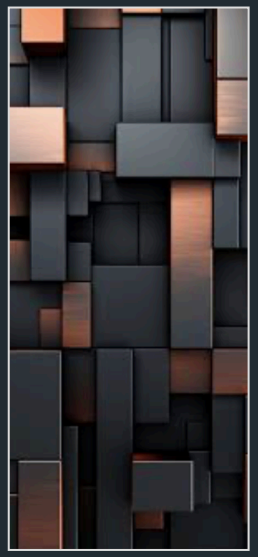


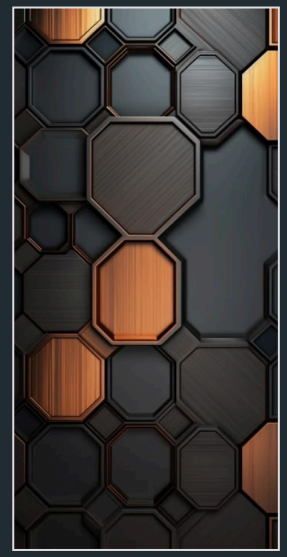
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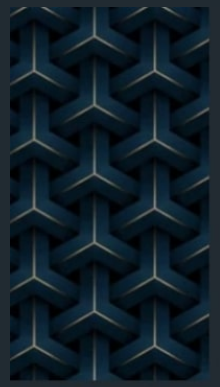


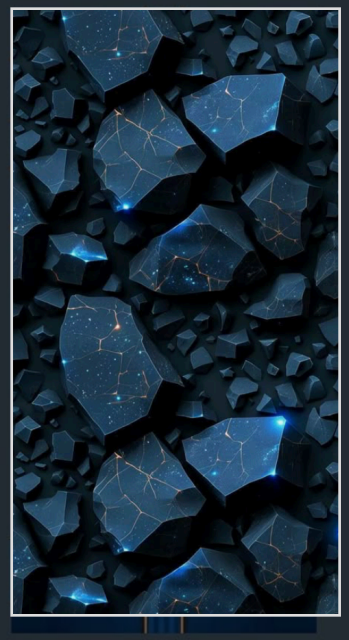


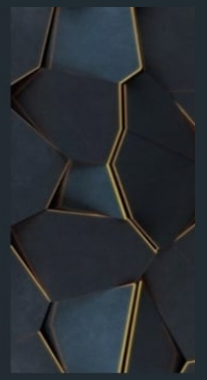


Unique Golden Look

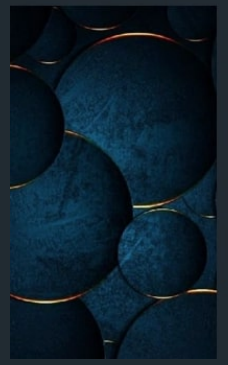
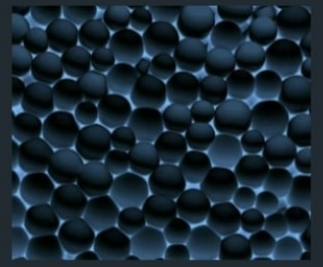




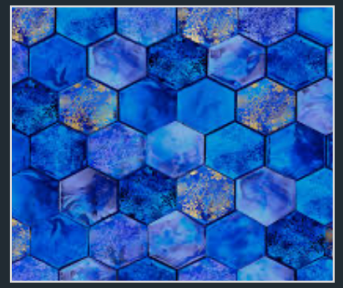
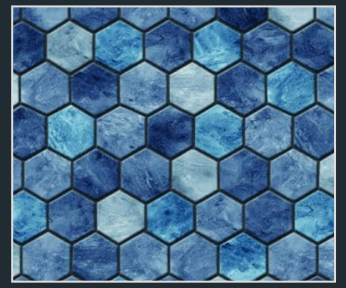




Modern Pattern Look

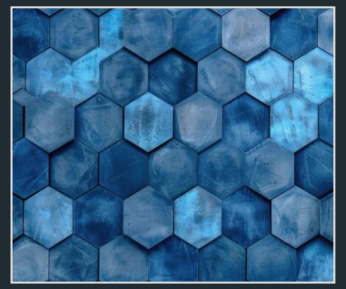




Modern Art Look



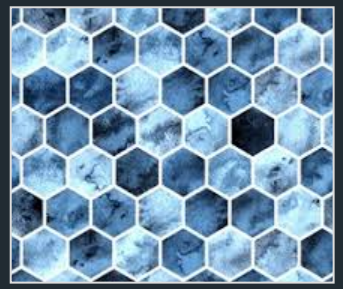


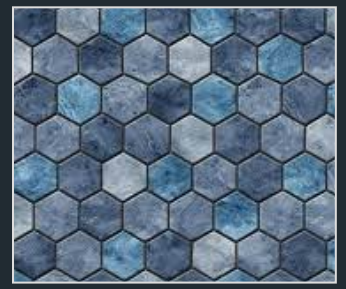


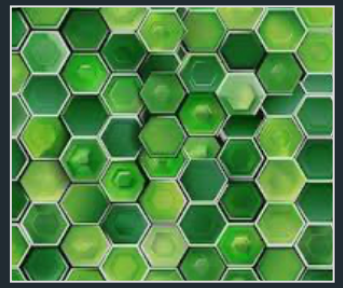
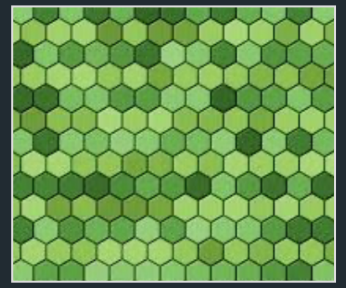
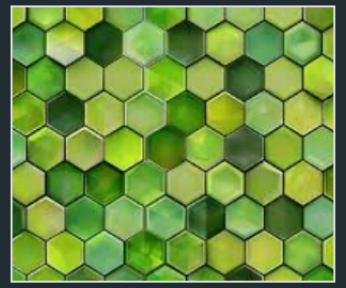
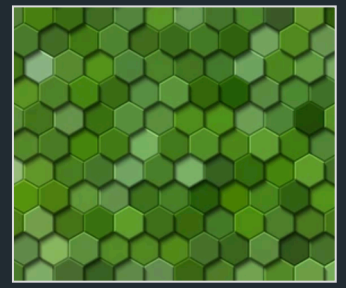




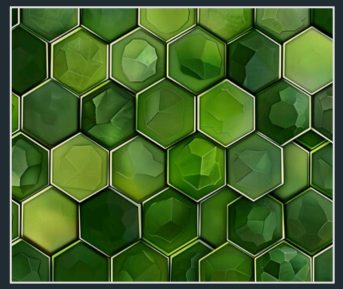
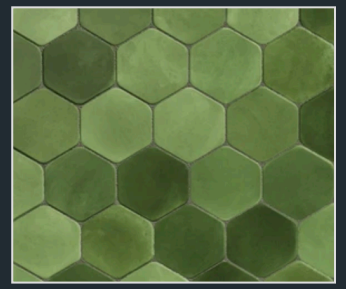
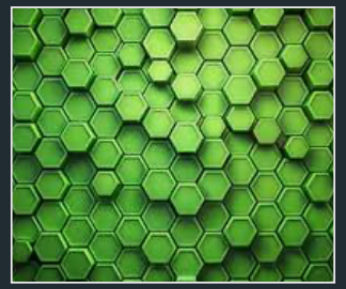
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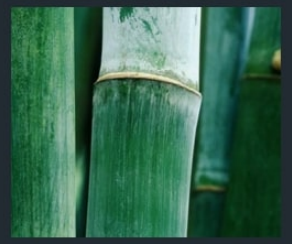



Modern Art Look



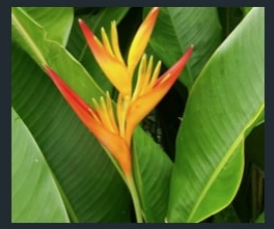




Unique Bamboo Look



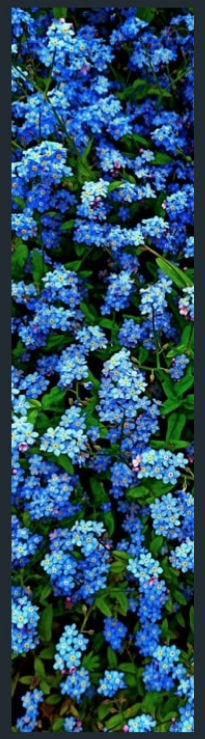




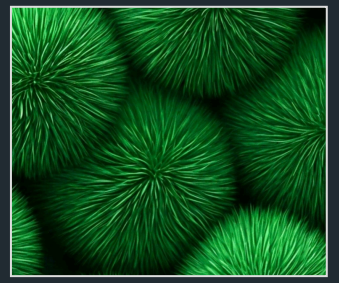



Unique Flower Look

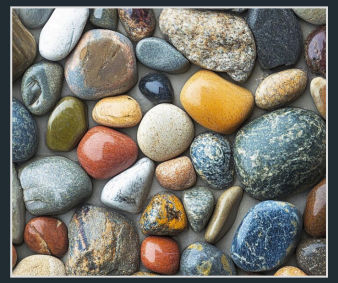









Unique Nature Look



Unique Solar Panels
with Natural Wood Look

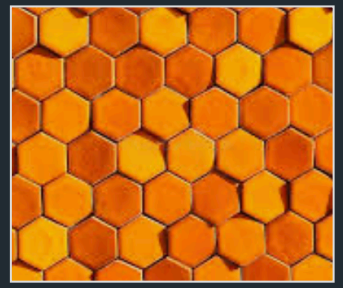

Natural Wood Look

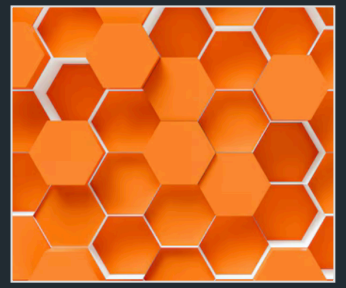

Unique Solar Panels
with Natural Rock and Stone Look


unique marble look

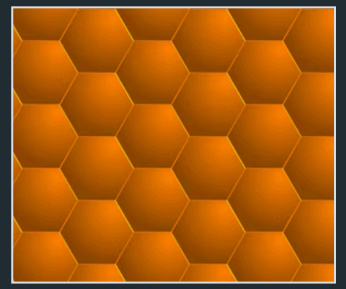
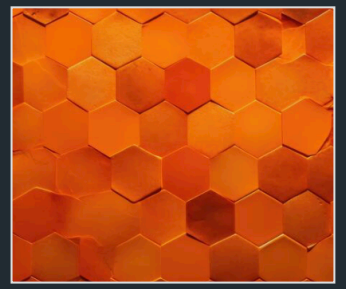

Unique Solar Panels
with Genuine Leather Look


unique marble look






Modern Art Look

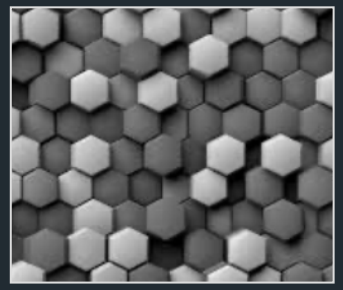




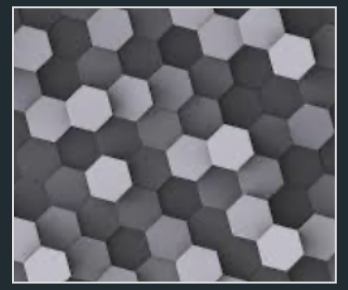






Modern Art Look



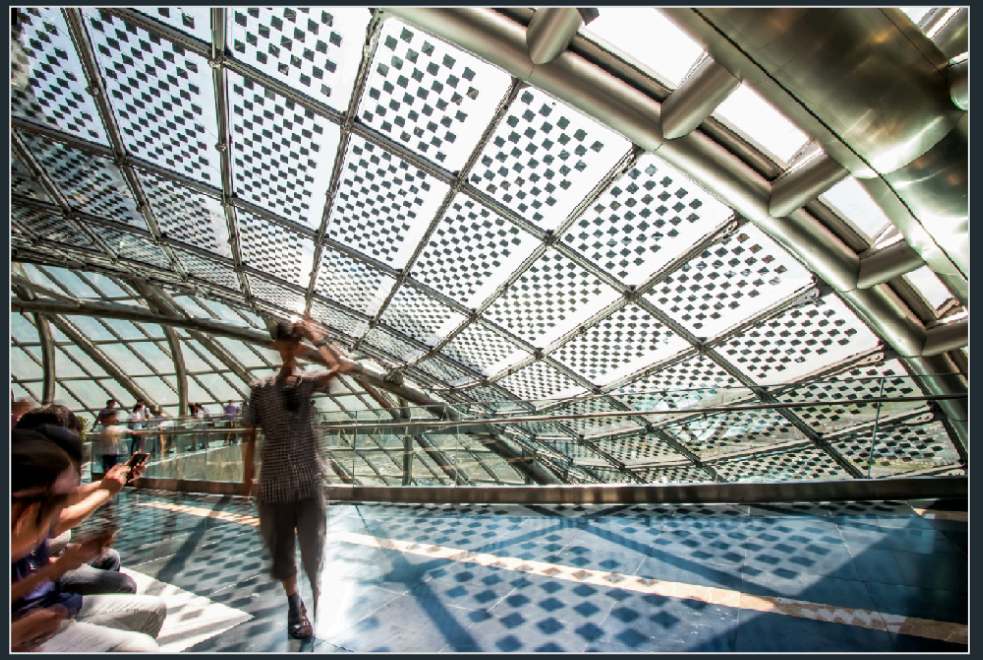
“ the sphere”

Astana Exhibition Center



“ the sphere”

Astana Exhibition Center

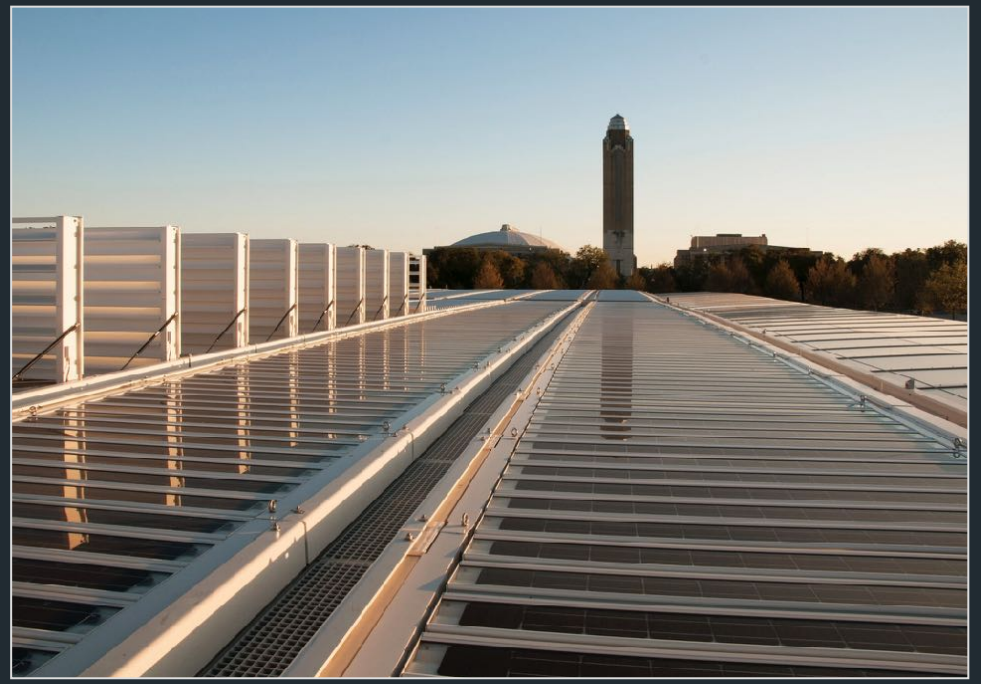




2.403 Transparent Panels

by Renzo Piano Building Workshop





Kimbell Art Museum



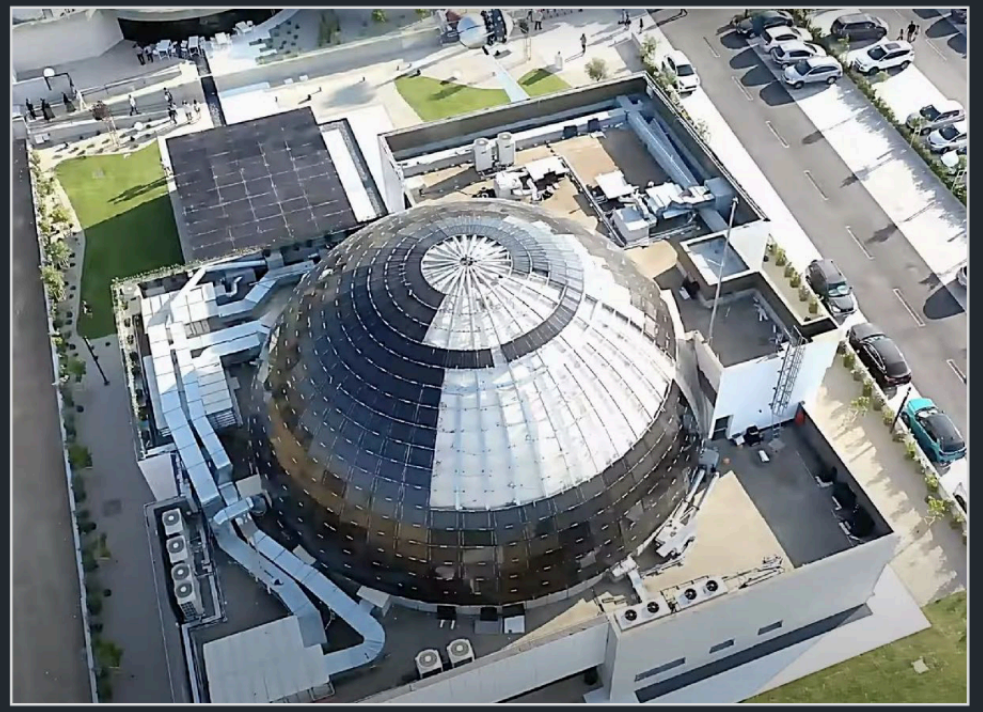
Dome Amphitheater

720 Custom-Made Panels

17 different sizes

All in the shape of a trapezium





amphitheater

stadiums

sport centers





science center



unique facade

Audi experience center





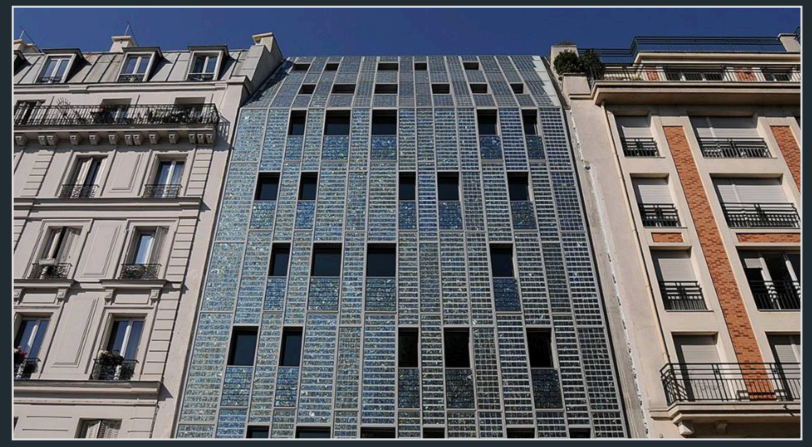


Audi Munich experience center





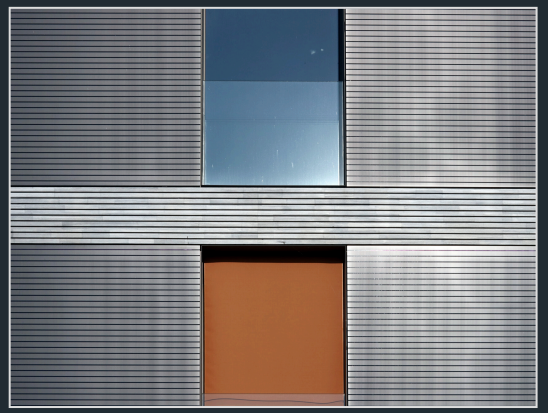
unique facade installation
Paris – France

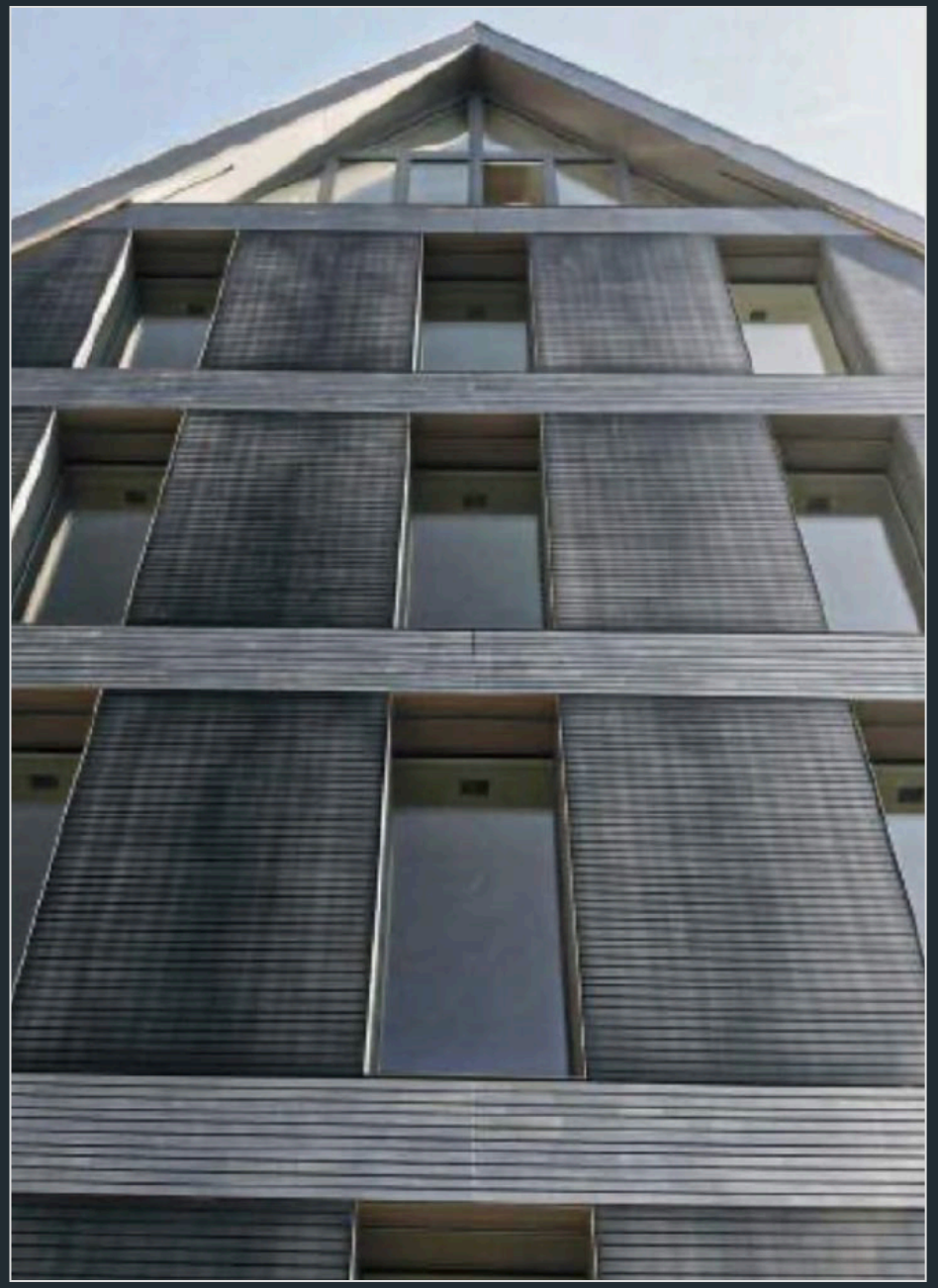






Roosli project





Roosli project

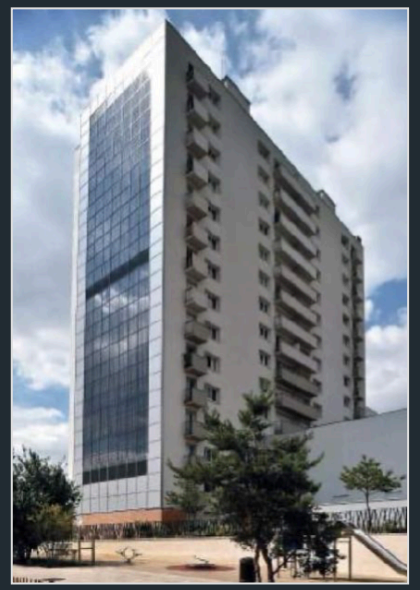
unique facade & roof installation

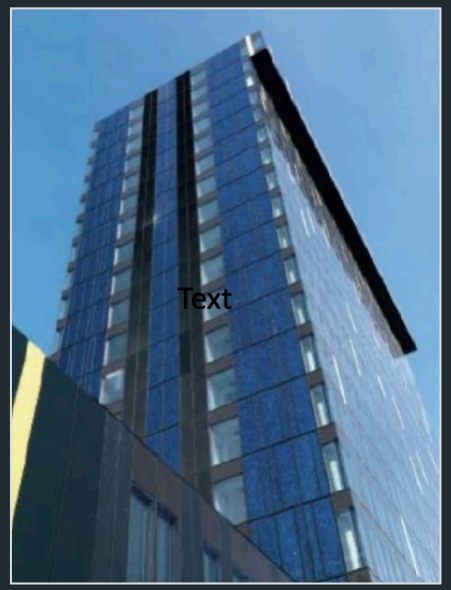


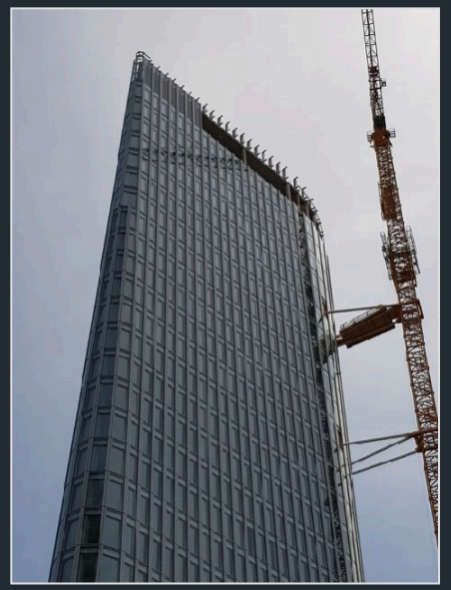




Towers













unique projects













unique projects













unique projects







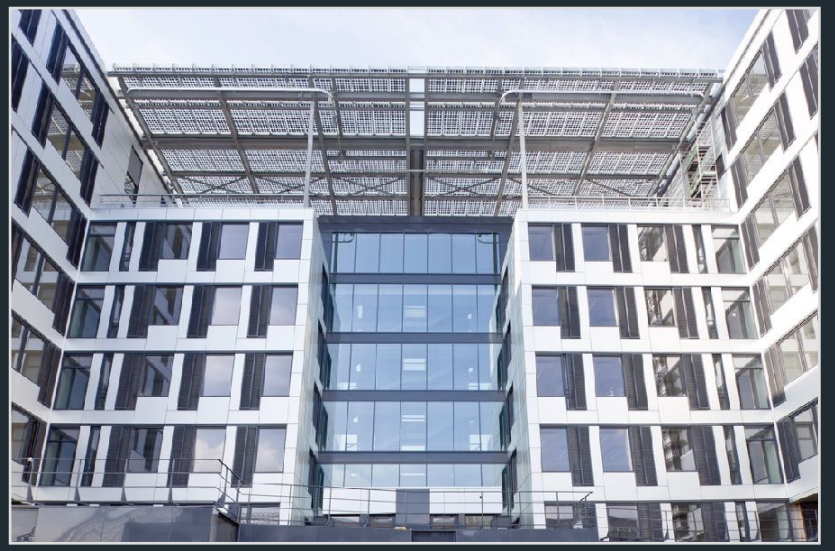
General Hospital Vienna







Headquarters



off–grid building

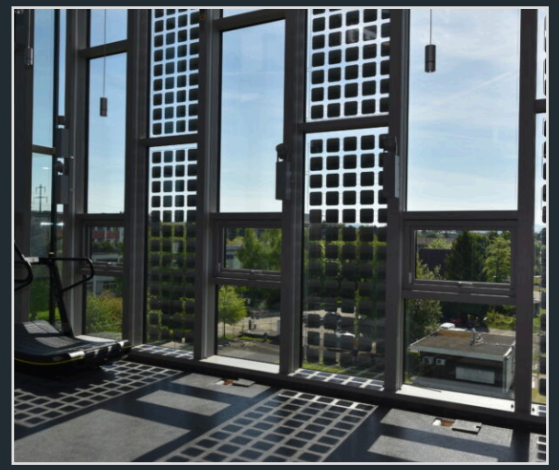


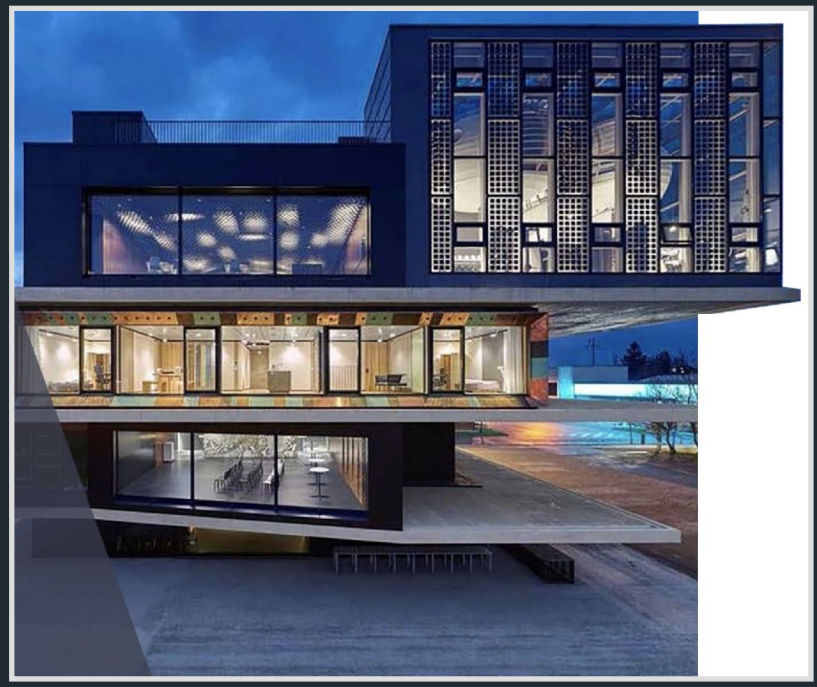
Biessenhofen
Germany





roof & facade installation



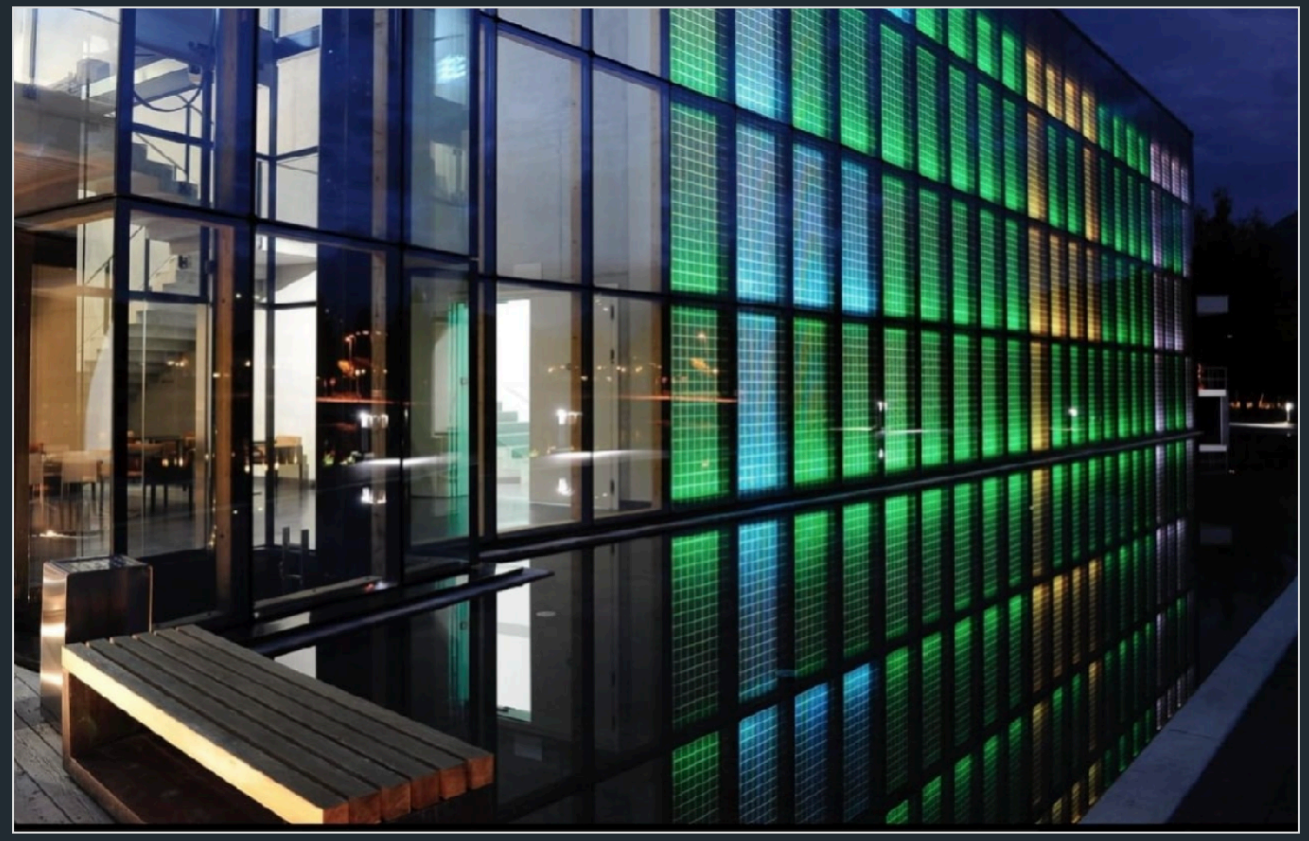


Dubendorf

Switzerland



Constance – Germany

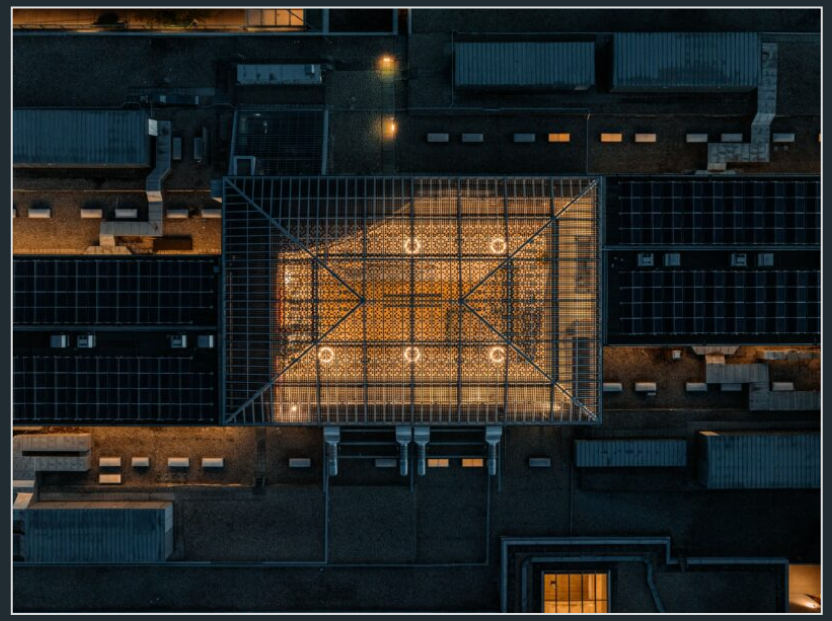


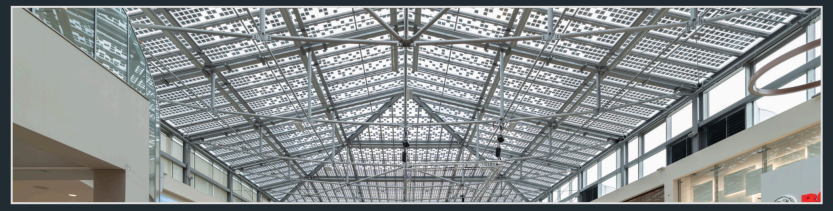
Pierre Arnaud Foundation



Pierre Arnaud France







shopping malls
transparent roofs



Marburg
Germany



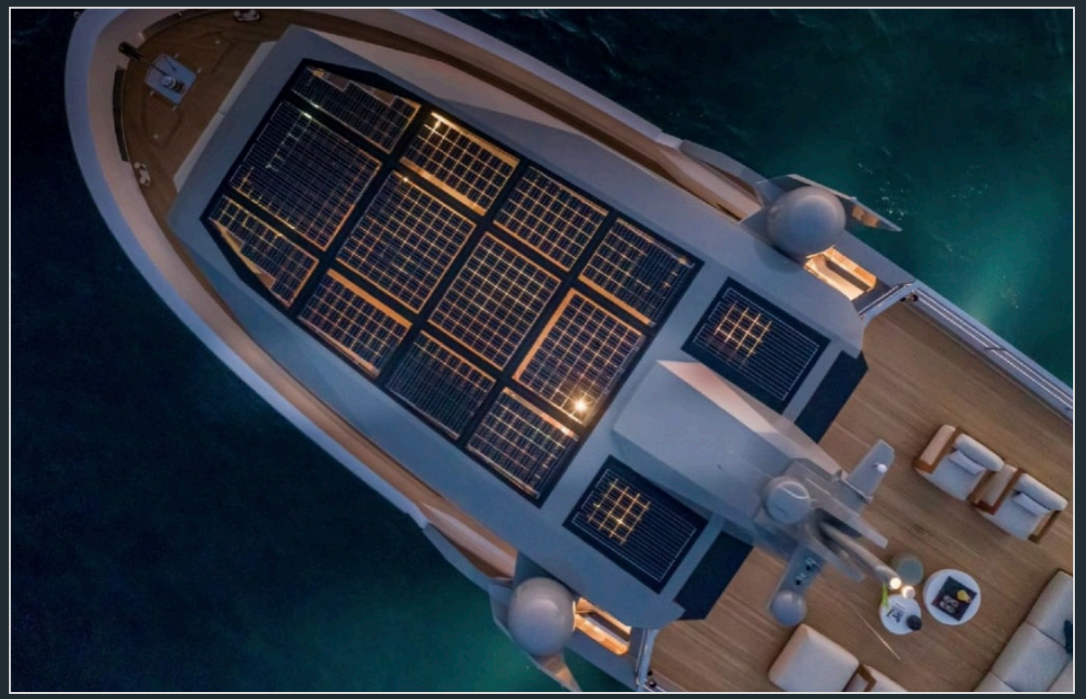
unique energy project





yachts





yachts











unique cruise ships







on cars











Fronius
solar inverters









facade Empl

Canada









ventilated facades

roof & facade installation

Schweiz

Switzerland



ventilated facades





ventilated facades



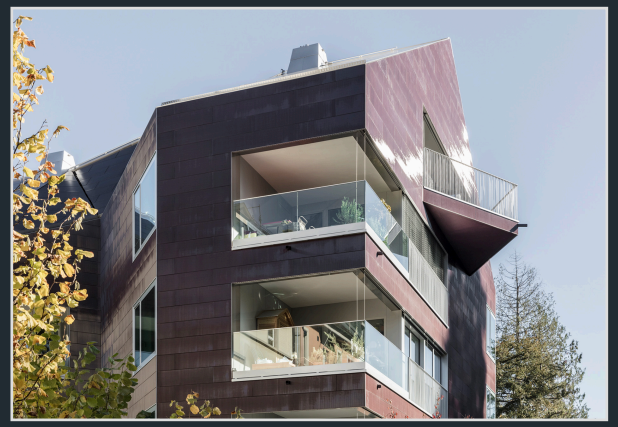
Coop Headquarters



facade & roof



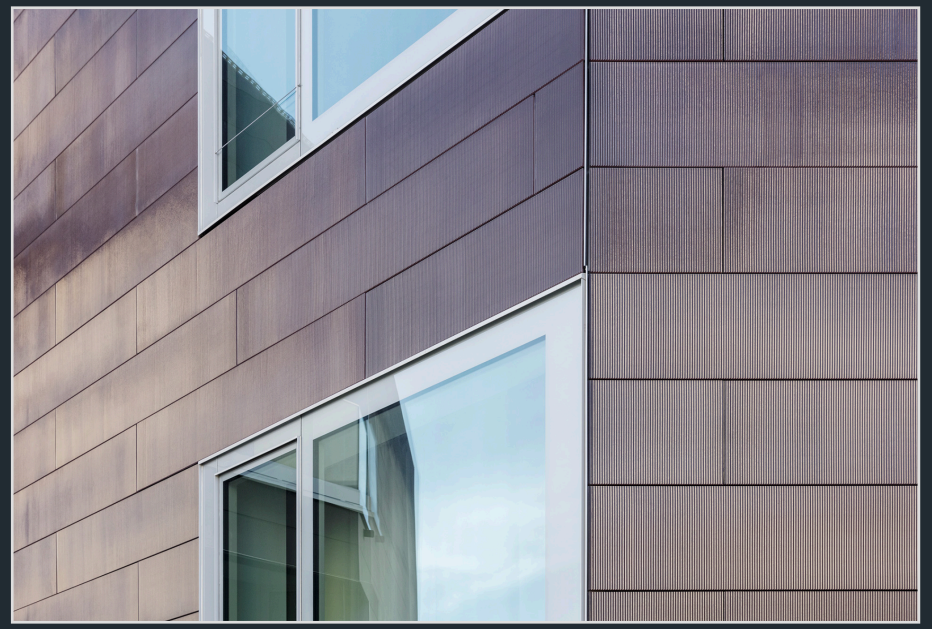
ventilated facades



Solaris

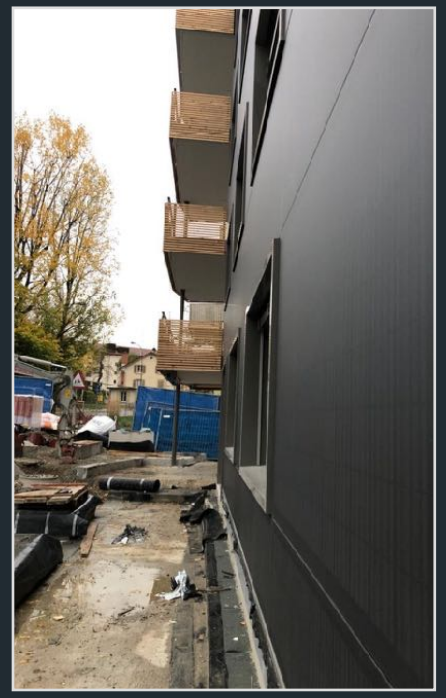
Zurich

Switzerland



zero energy building

ventilated facades



unique facades

Talstrasse
Zurich

Switzerland



ventilated facades

facade – roof

self–sufficient residence

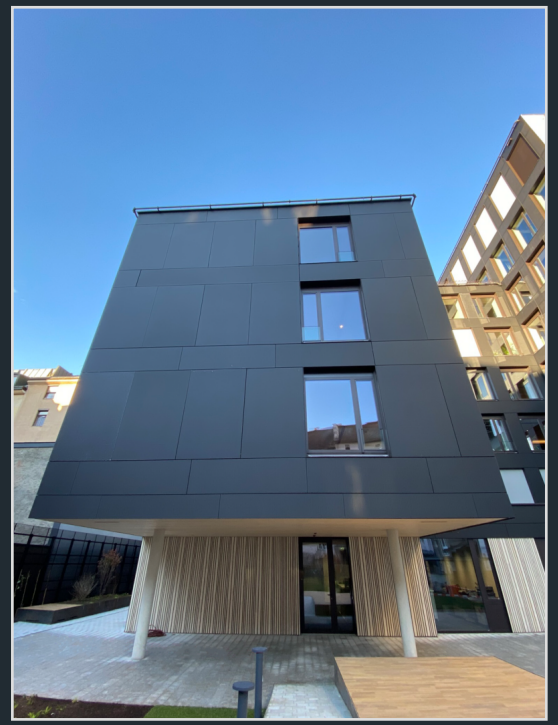


ventilated facades

self–sufficient office building

Tyrol







facades – roof

ventilated facades



self–sufficient
residences



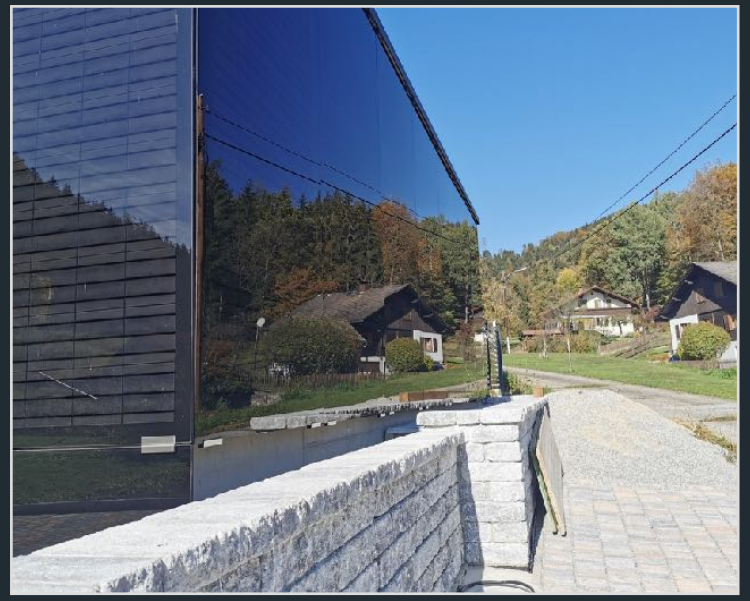
Sonnenpark project

ventilated facades



facades
roofs
balconies
storage





roof & facade



Unique Indoor Parking





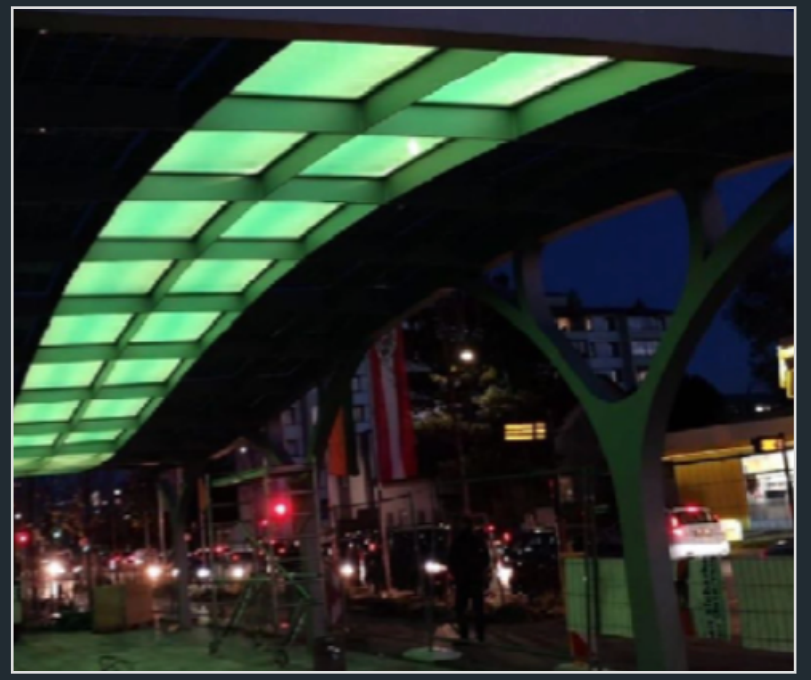


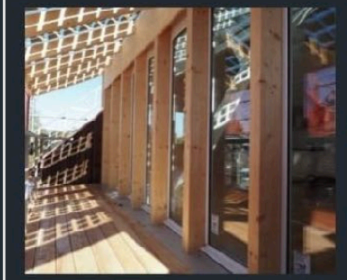
Fehlmann Areal Winterthur



unique projects “the waves”

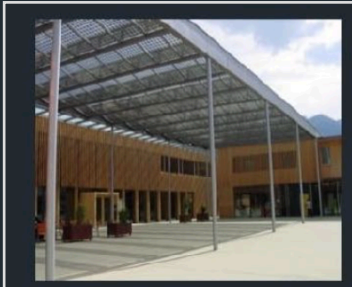
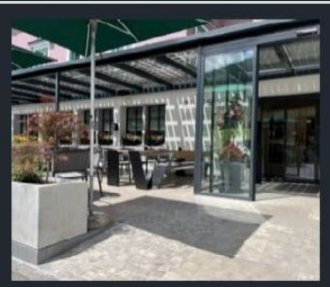
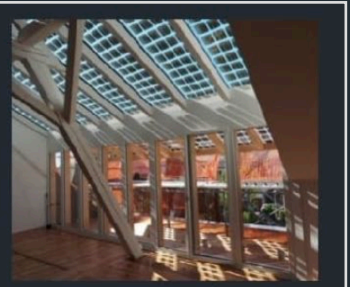








terraces



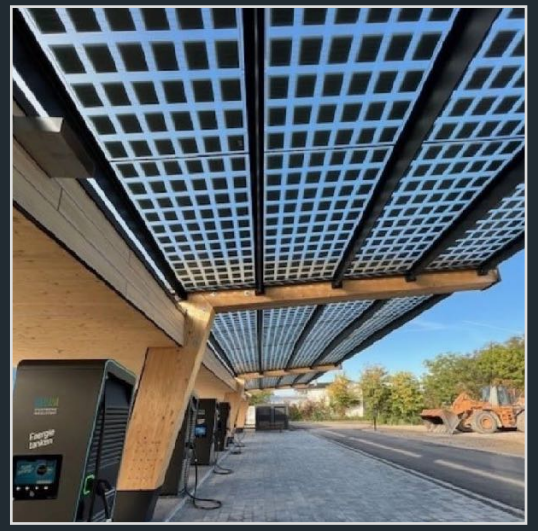




Audi



unique charging hubs



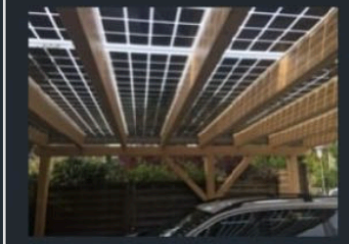




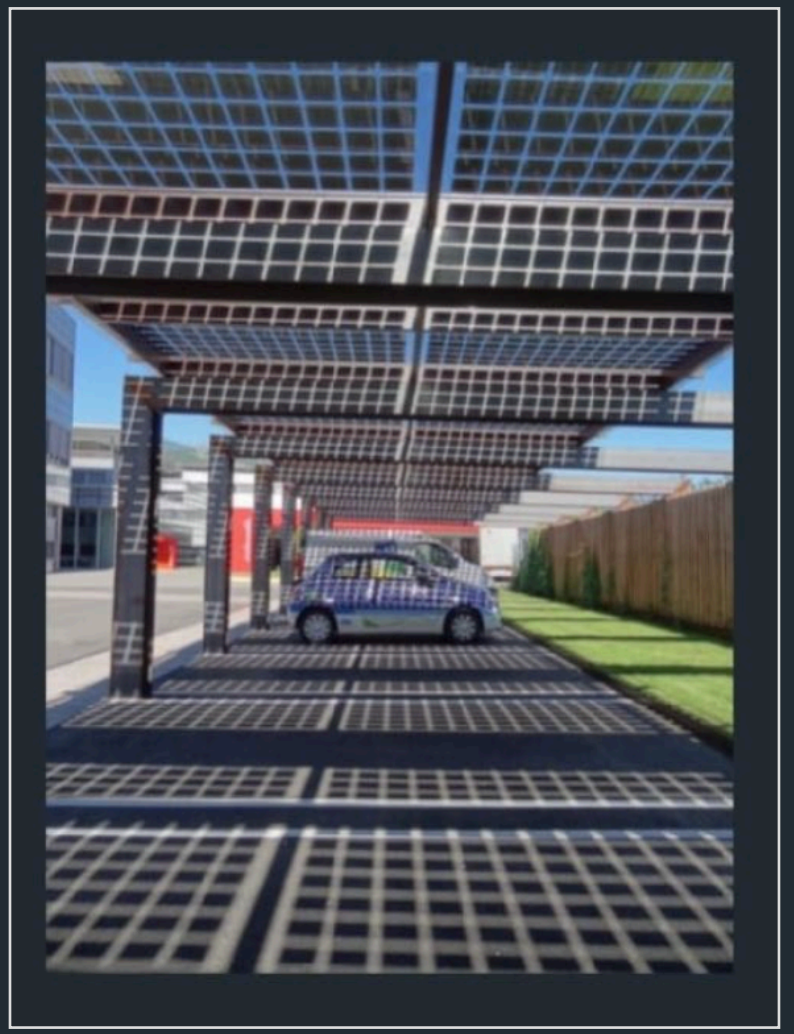




carports



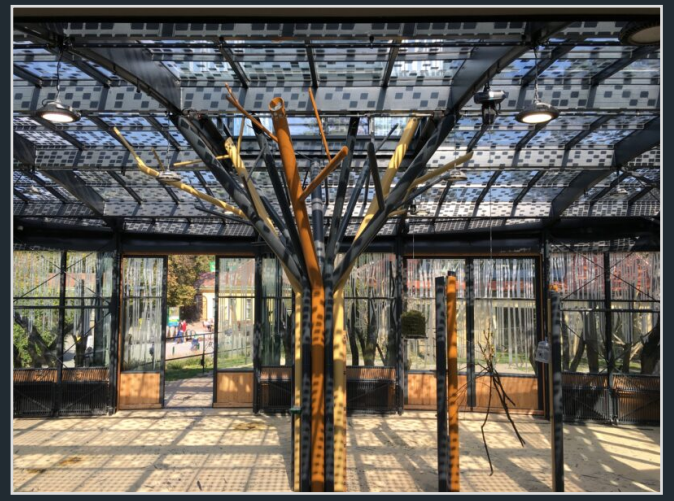






Schönbrunn Zoo

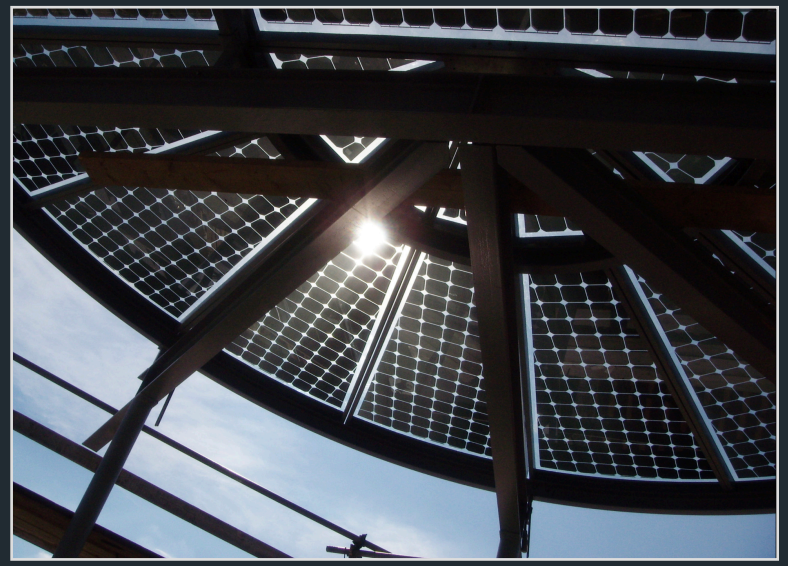






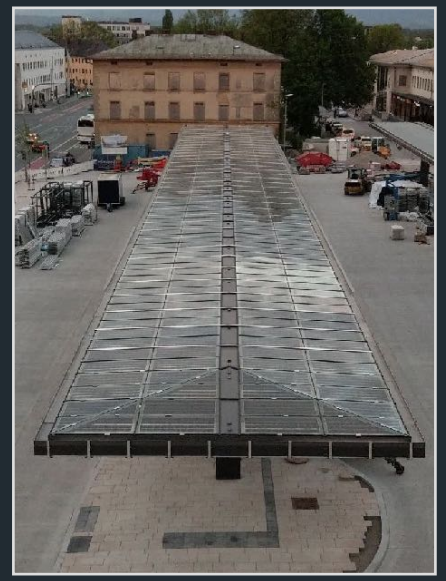
Båstad Tennis Stadium

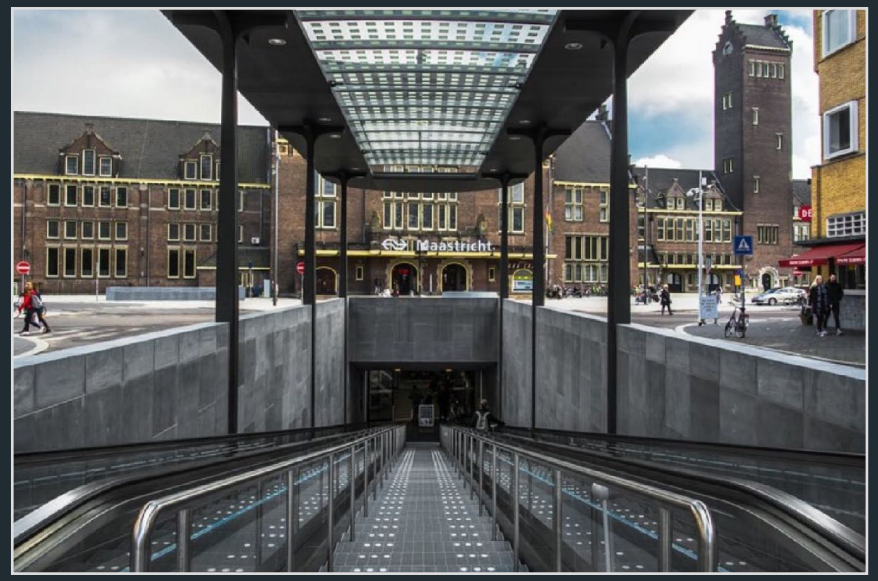




Swedish International Championship





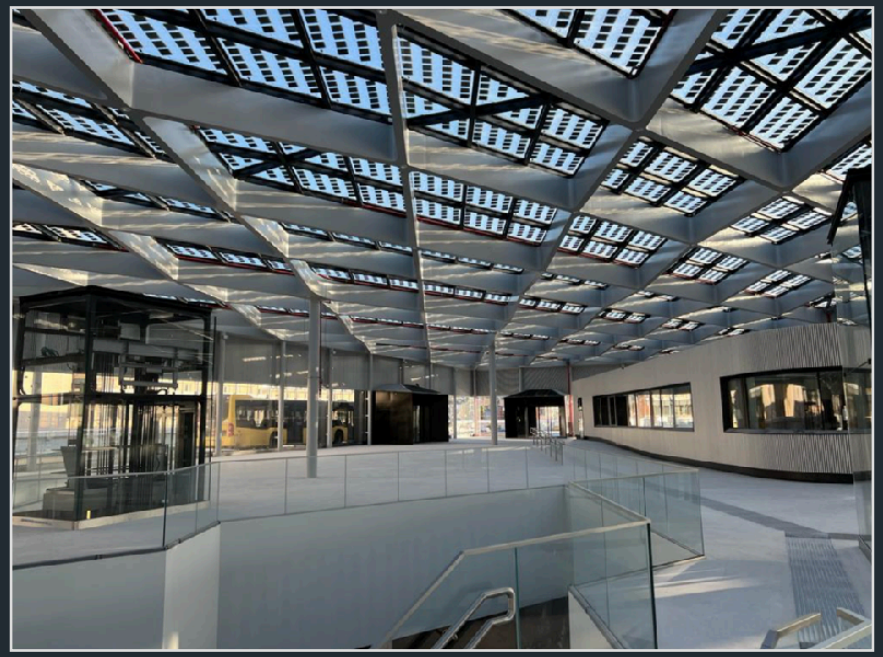


Maastricht



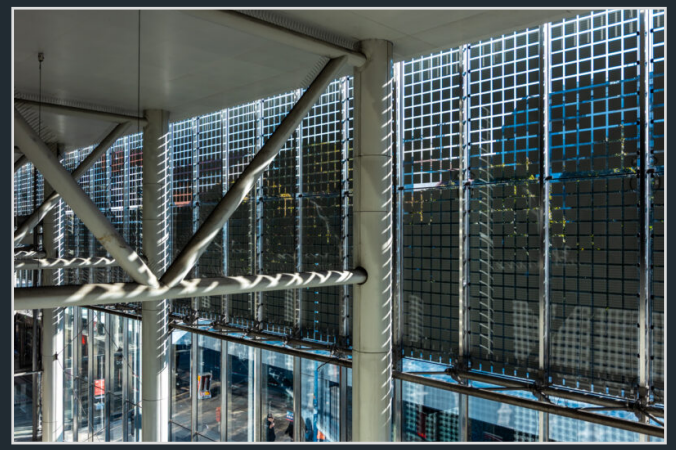
central bus station
8.000 m2
3.560 panels

Belgium

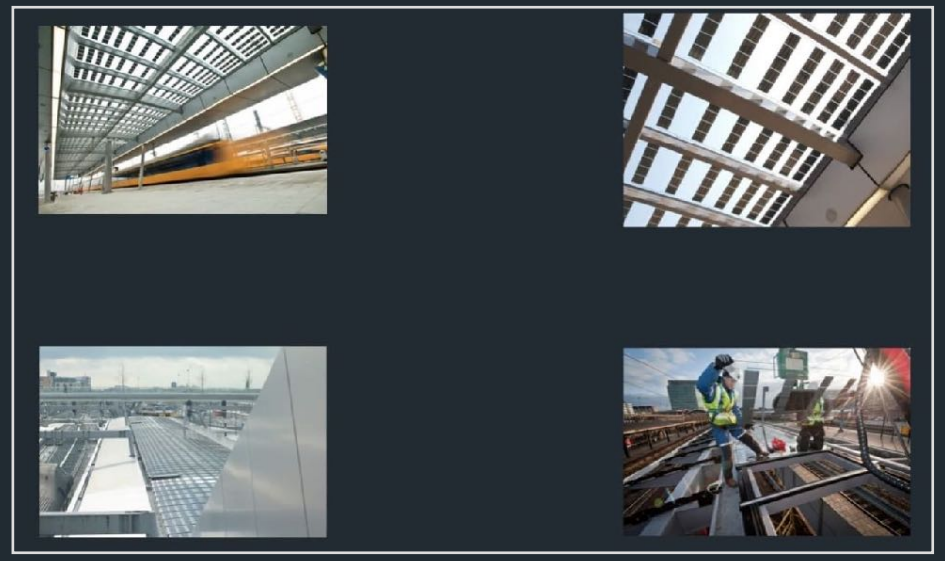




Vienna central train station









Utrecht central train station

panels of any size & shape





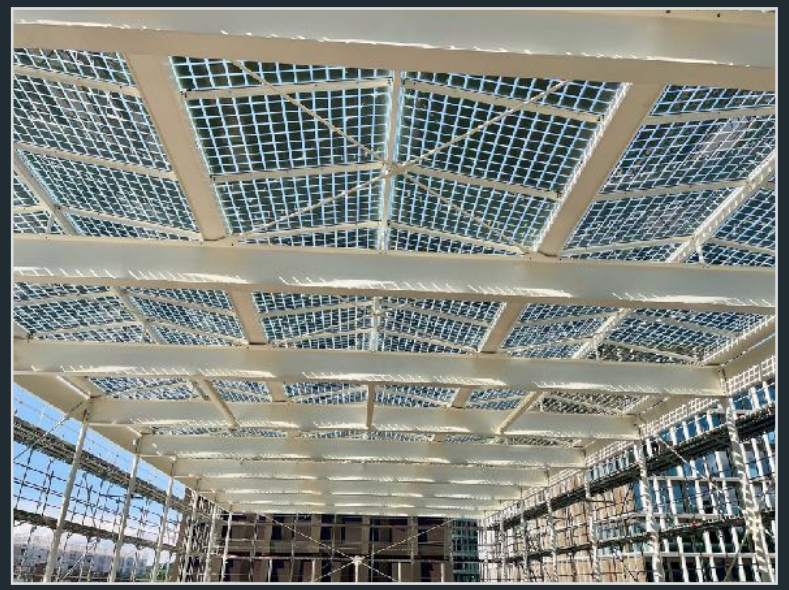
triple–side roof installation



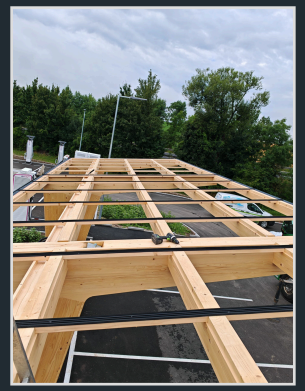
Switzerland

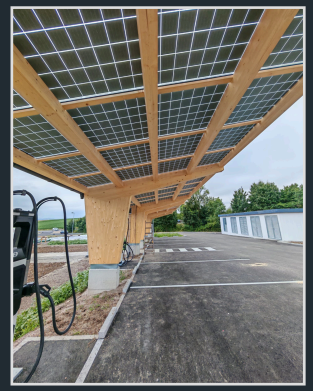


Zurich



Allmend School









public charging stations



wooden constructions



roofs and balconies



roofs
&
canopies




REWE
REWE
REWE
REWE





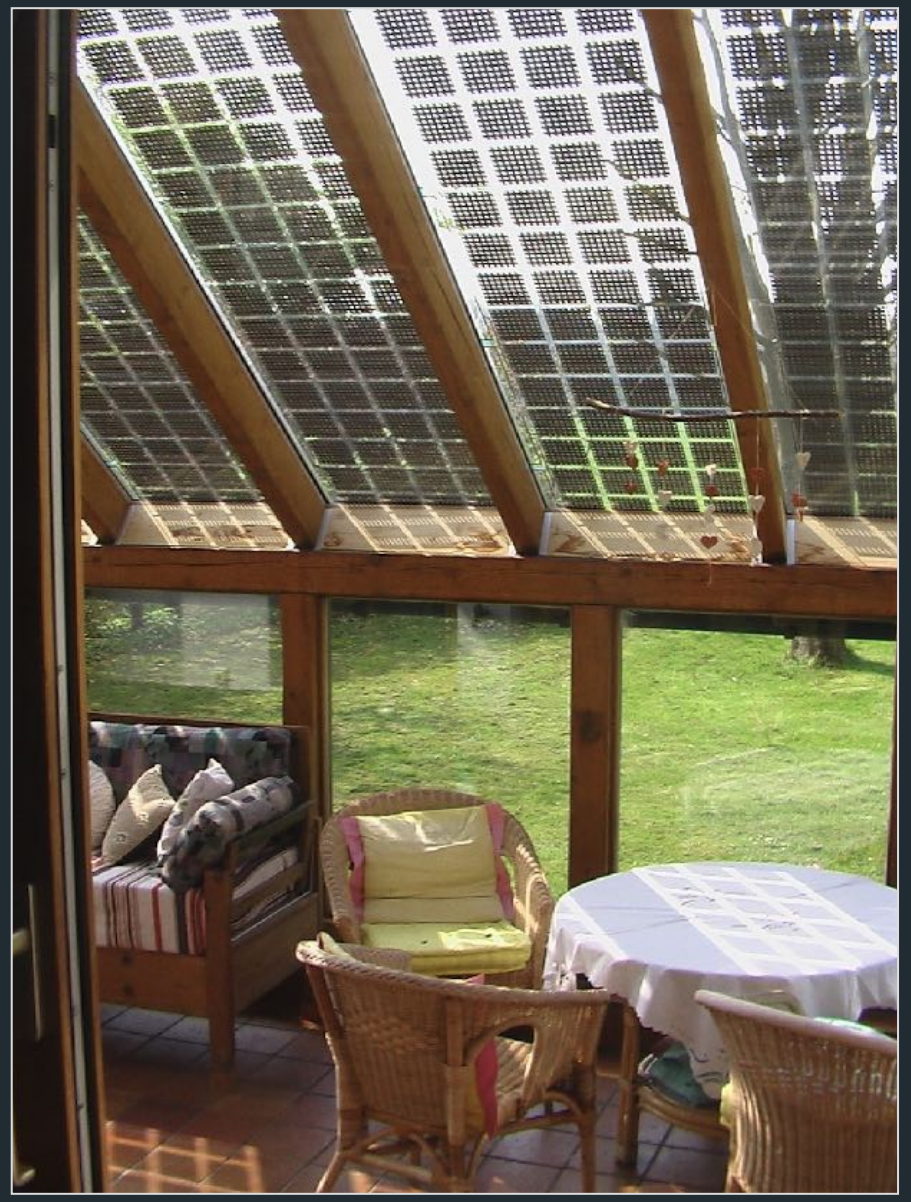
Unique Projects





perforated transparency







timber frame

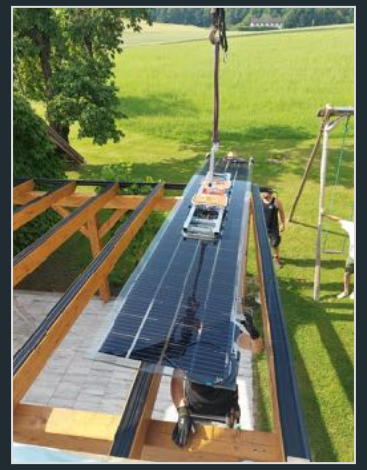


unique wooden construction



Switzerland

unique panels – length 5m









balconies







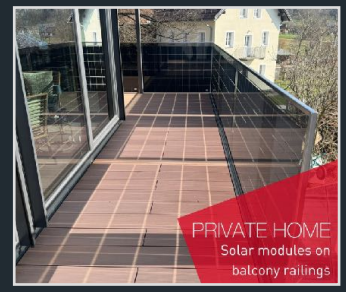












fences & balconies







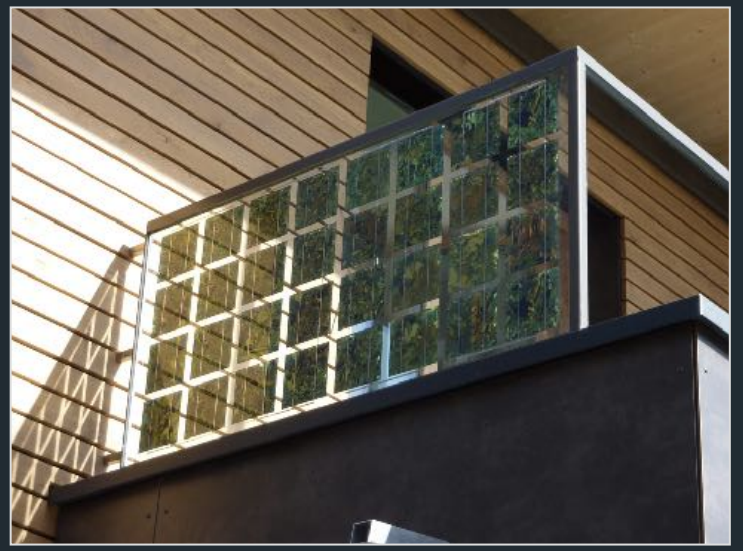




unique flower fence







country house



transparent flower balcony



Tamins
Switzerland

facade & roof installations

facade panels:
designed by Bruno Krucher







Leather Look





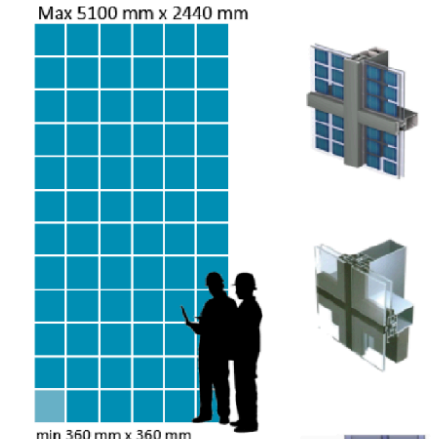
Weisses Schlössli
Davos

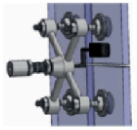




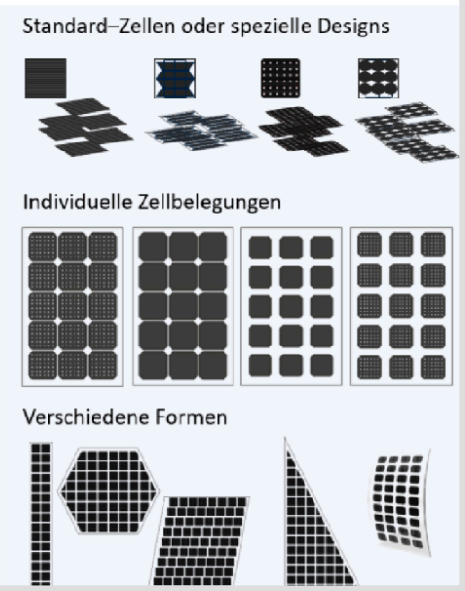
public places




Max 5100 mm x 2440 mm
min 360 mm x 360 mm






Standard–Zellen oder spezielle Designs
Individuelle Zellbelegungen
Verschiedene Formen

certificates



Zertifikate

EN61215-2/EN61730

Issued under the responsibility of:

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY

TESTING DECLARATION

Reference No.	SGP-19922
Date of issue (YYYY/MM/DD)	2023.01.25
Total number of pages	1
Testing Laboratory	AIT Austrian Institute of Technology GmbH
Address	Giefinggasse 2, 1210 Vienna, AUSTRIA
Applicant's name	Ertex Solartechnik GmbH
Address	Peter-Mitterhofer-Straße 4, 3300 Amstetten, Austria
Test specification	1) Terrestrial photovoltaic (PV) modules - Design qualification and type approval 2) Photovoltaic (PV) module safety qualification
Standard test method	Sub clauses of IEC 61215-2:2021 and IEC 61730-2:2016
Used test procedure/sub-clauses	MQT 01, MQT 02, MQT 19.1, MQT 6.1, MQT 15, MQT 03, MQT 13, MQT 10, MQT 11 (50+200 cycles), MQT 12, MQT 14.1, MQT 18.1, MQT 18.2 MST 01, MST 02, MST 03, MST 07, MST 11, MST 14, MST 16, MST 17, MST 25, MST 26, MST 42, MST 51 (50+200 cycles), MST 52, MST 53, MST 54
Test report reference number	2.00.80579.1.0a, 2.00.80579.1.0b, 2.00.80579.1.0c, 2.00.80579.1.0d
Additional information	-

This testing declaration is based on the result of a single examination of the product sample(s) submitted and does not give any presumption of conformity of the products from the current production.

Samples of the product have been tested and found to be in conformity with the above-mentioned standard and / or non-standard test procedures. Details concerning the product itself as well as the test procedure are documented in the named test report.

Test item description	Photovoltaic (PV) Module(s)
Trade Mark	Ertex Solartechnik GmbH
Manufacturer	Ertex Solartechnik GmbH
Model/Type reference	VSG SEMI BACK 44.4 (270 Wp), VSG SEMI BACK 66.4 (270 Wp) VSG MONO SIDE 44.4 (350 Wp), VSG MONO SIDE 66.4 (350 Wp)

Head of Competence Unit Energy Conversion and Hydrogen — Responsible for the content

i.V. DDI Dr. Stephan Abermann — i.A. DI (FH) Thomas Krametz

Page 1/1

Kugelfall / Pendelschlag

Stadt Wien | Prüf-, Inspektions- und Zertifizierungsstelle

ertex solartechnik GmbH
z.H. Herrn Ing. Christian ULRICH
Peter-Mitterhofer-Straße 4
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MA 39 – 21-03445

Wien, 31. August 2021
Gesamtseiten: 8

Prüfbericht

über Kugelfall- und Pendelschlagprüfungen an Verbundglas mit Photovoltaik-Einlagen

Auftraggeber/ Werk	ertex solartechnik GmbH, Peter-Mitterhofer-Straße 4, 3300 Amstetten
Auftragsdatum	13. April 2021
Prüfgut	Verbundglas mit Photovoltaik-Zellnetz aus 2 x 6 mm Einscheiben-Sicherheitsglas beziehungsweise 2 x 6 mm teilvorgespanntem Glas
Prüfguteingang	10. Juni 2021
Auftrag	Kugelfallprüfung gemäß ÖNORM EN 14449 sowie Pendelschlagprüfung gemäß ÖNORM EN 12600

FEUER PRÜFUNG

Alu König Stahl GmbH
Goldschlagstraße 87-89
1150 Wien

IBS – Institut für Brandschutztechnik und Sicherheitsforschung Gesellschaft m.b.H.
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office@ibs-austria.at | www.ibs-austria.at
Firmenbuchnummer 89116d
Landesgericht Linz | UID-Nr. ATU23289705

18. Jänner 2022
Roland BECK / AM
+43 732 7617 - 885

Nachweis über die weitere Verwendbarkeit des Prüfberichts Nr. 12120405-1,RevA vom 10. Jänner 2013

Prüfgegenstand:

Schüco SCC 60 Aluminium-Fassade mit PV-Modul-Ertex-VSG und Mineralwolledämmung

Prüfergebnisse:

positiver Nachweis **B-s1, d0**

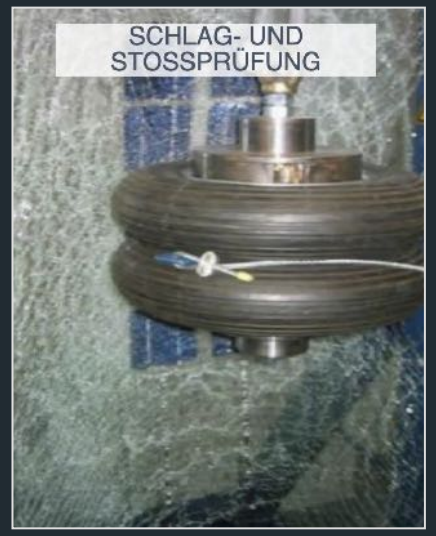
Grundlagen:

ÖNORM B 3800, Teil 5:
„Brandverhalten von Baustoffen und Bauteilen – Teil 5: Brandverhalten von Fassaden Anforderungen, Prüfungen und Beurteilungen"
Ausgabe: 15. April 2013

Geltungsdauer:

Der Prüfbericht Nr. 12120405-1,RevA vom 10.09.2013 ist in Verbindung mit diesem Schreiben weiterhin bis zum **7. Juni 2027 bzw. bis zum Ende der Koexistenzperiode einer anwendbaren harmonisierten Produktnorm** verwendbar.

extreme crash test

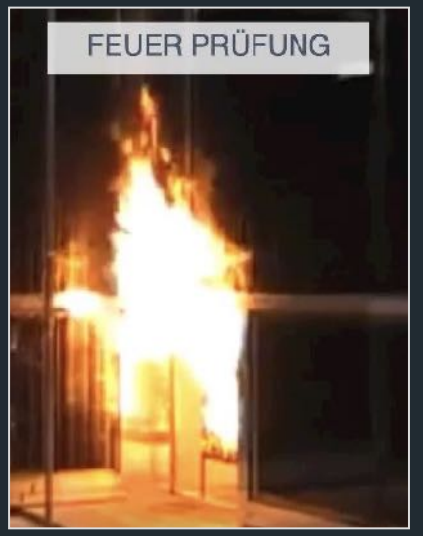


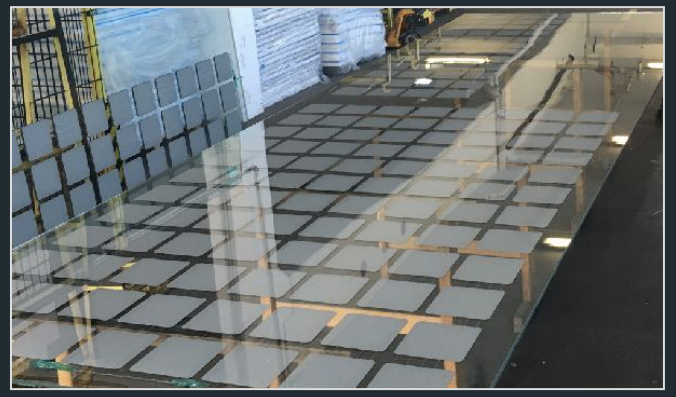
extreme hail test

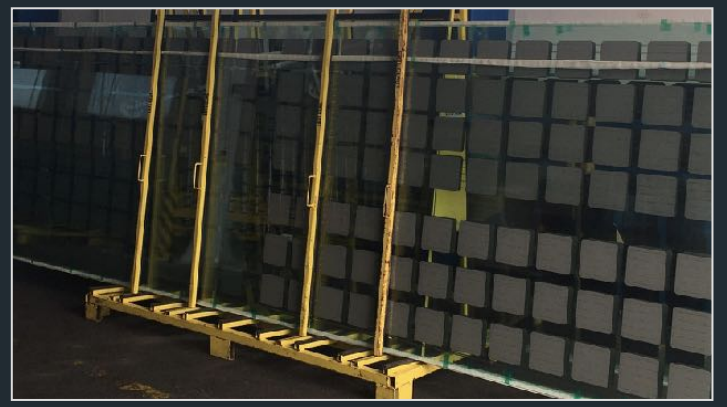
Ice Cube
Diameter 70mm – Speed 110km/h



extreme fire test



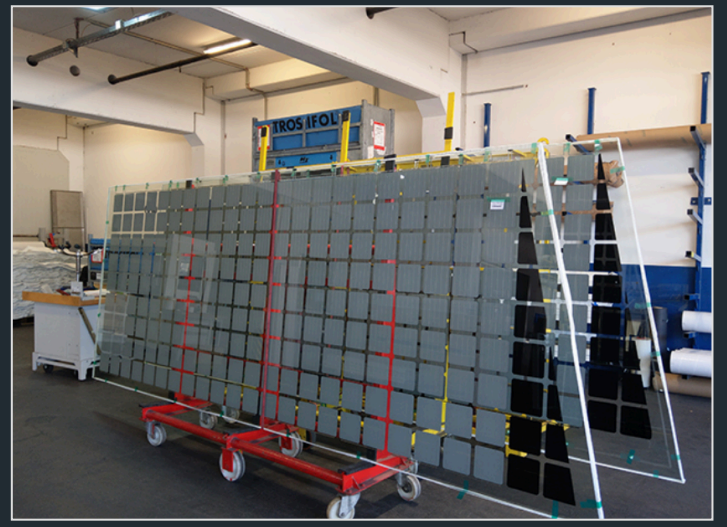




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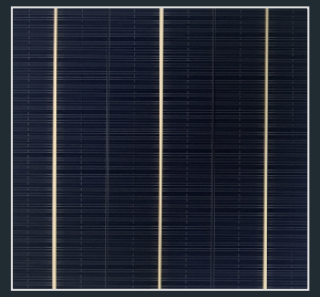


award – perforated cells

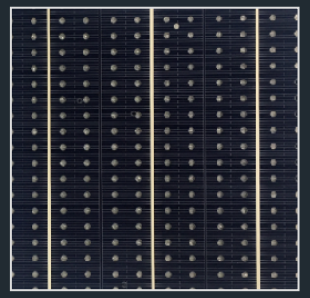


Dubai

handmade process
unique perforated transparency



before



after

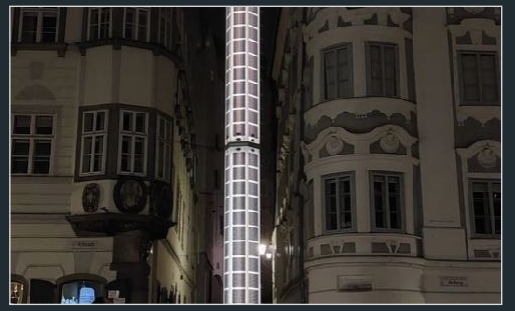


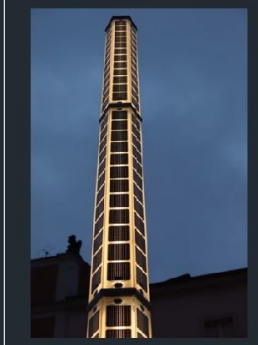
patented technology



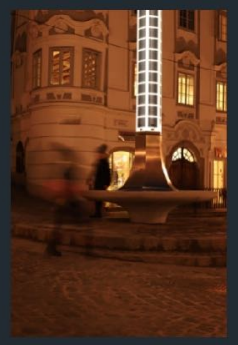
Lichtbrunnen

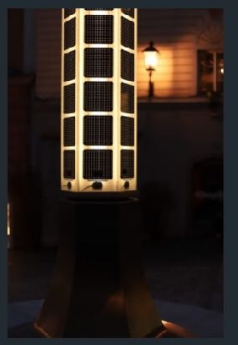
Linz – Austria

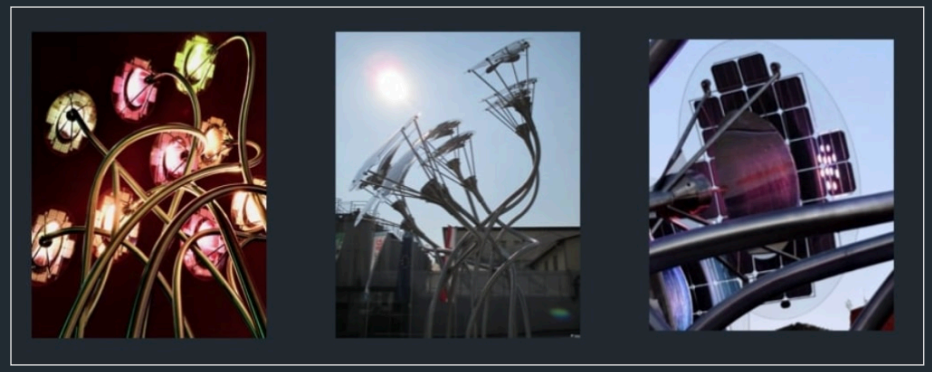












Sonnenblumen

Linz – Austria





ultra–modern museum
Germany





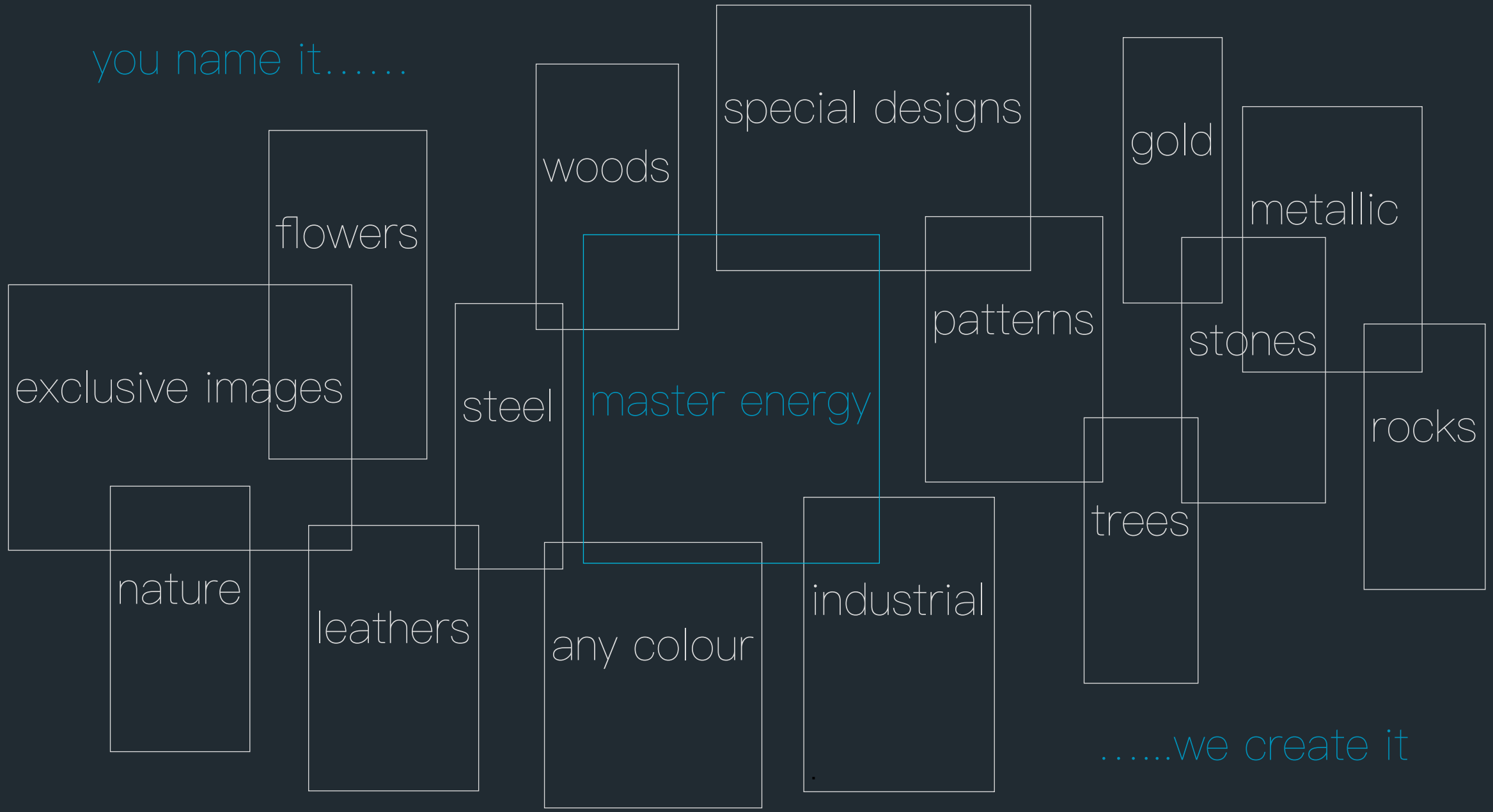


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