

THE ULTIMATE LEVEL OF CUSTOM-MADE SOLAR PANELS

Master Energy

GREECE - CYPRUS

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

A VINCI GROUP COMPANY



ERTEX SOLAR

AUSTRIA

THE PIONEER & WORLD LEADER IN BUILDING INTEGRATED PHOTOVOLTAICS (BIPV) SINCE 2004



VINCI GROUP

FRANCE

294,000 EMPLOYEES WORLDWIDE

373,100 WORKSITES

7,000 LOCATIONS

€7 BILLION IN FREE CASH FLOW

€74.6 BILLION IN REVENUE

+120 COUNTRIES

€15.5 BILLION IN MANAGED NET CASH AS OF DECEMBER 31, 2025

€22.0 BILLION VINCI REPORTED A TOTAL LIQUIDITY POSITION DECEMBER 31, 2025

€6.5 BILLION UNUSED CREDIT FACILITY: EXTENDED TO A NEW MATURITY DATE OF JANUARY 2031

A WORLD LEADER IN CONCESSIONS, ENERGY AND CONSTRUCTION SINCE 1899

Roofing

Balconies

Sky Lights

Spandrels

Brises Soleil

Ventilated Facades

Sound Walls

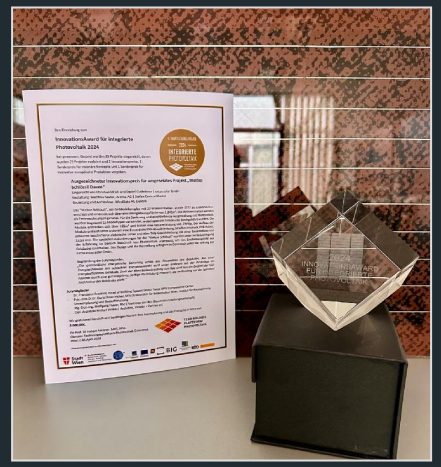
Curtain Walls

Active Building Skins

Walkable Floor

Canopies & Shade House

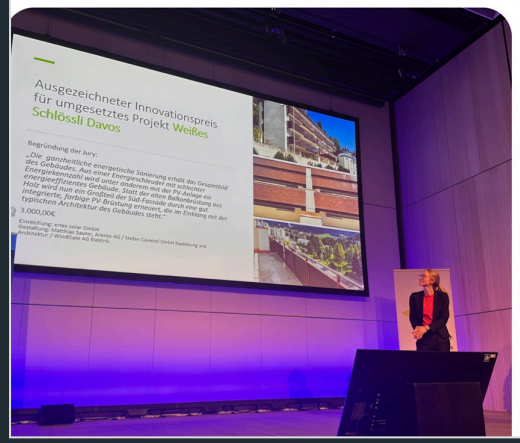
ERTEX SOLAR



MADE IN AUSTRIA

Global Energy Innovation & Quality Awards







Recognizing International Standards of Excellence

the world's only handmade solar panels

More than **22** years of creating Unique BIPV Solar Panels

More than **3.000** Unique Projects Worldwide

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

More than **12 m²** panels

5,100 x 2,440 mm

is a World Record in the Solar Module Sector



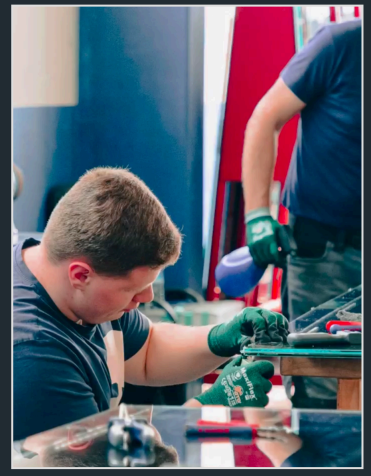


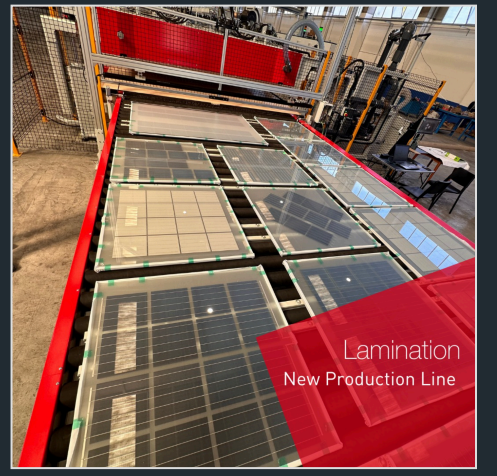
unique custom–made
lamination production line
for manufacturing the world's only
handcrafted solar panels

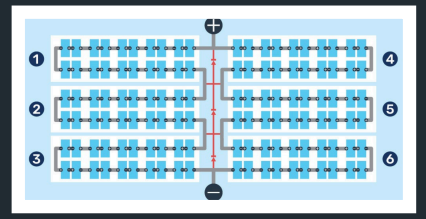


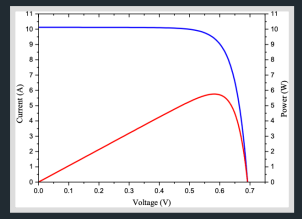
MADE IN AUSTRIA

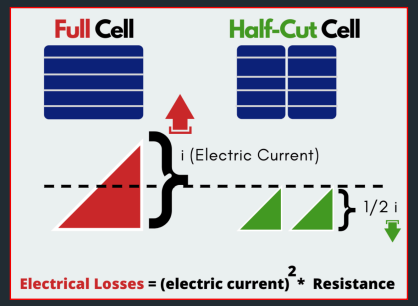


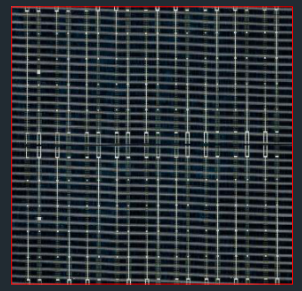


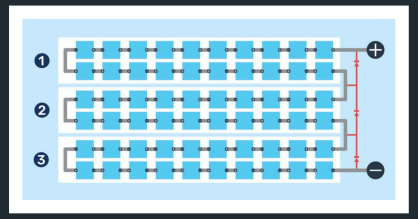


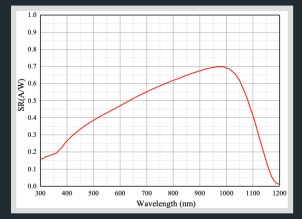












Efficiency(%)	Pmpp(Wp)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
24.90-25.00	6.87	0.606	11.331	0.709	11.832	81.85

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

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.

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.

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.

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

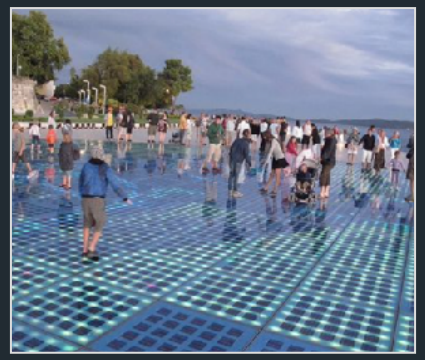
Our solutions consist of laminated safety glass into which photovoltaic elements are integrated. They fulfil the same standards as laminated safety glass in the construction industry and can, therefore, be integrated into any surface of the building envelope. The realisation of coloured variants is achieved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



art & technology



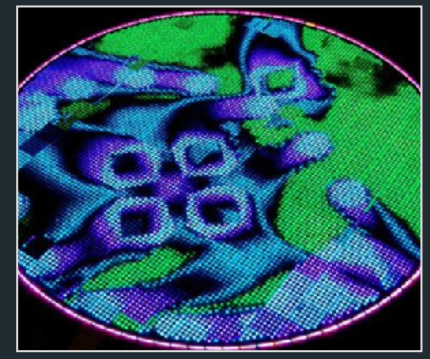


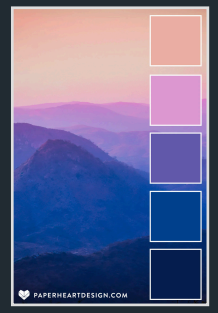
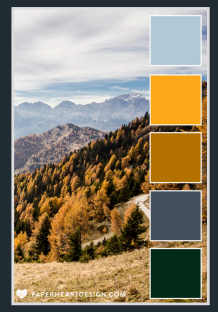
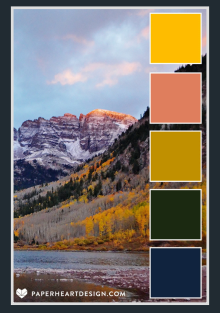
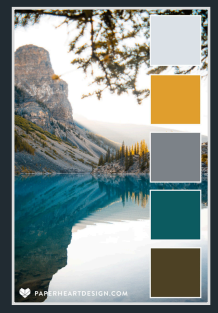
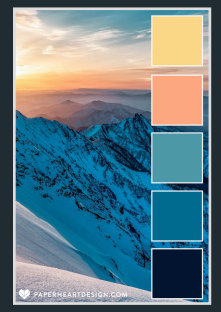


art & technology

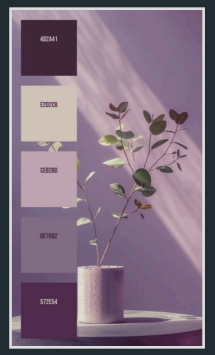


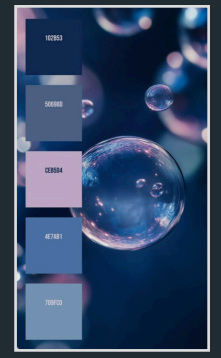




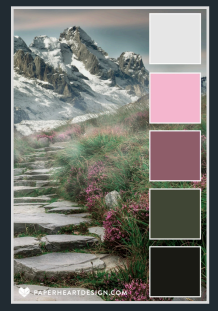
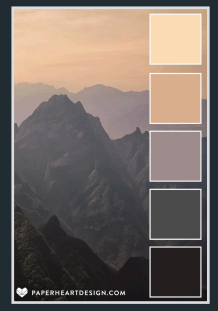
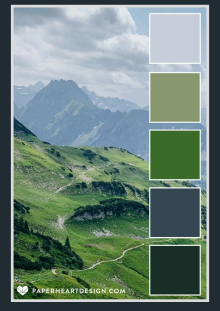
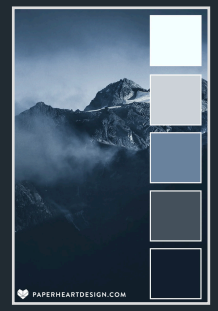
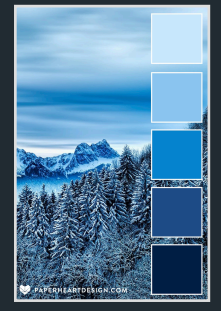






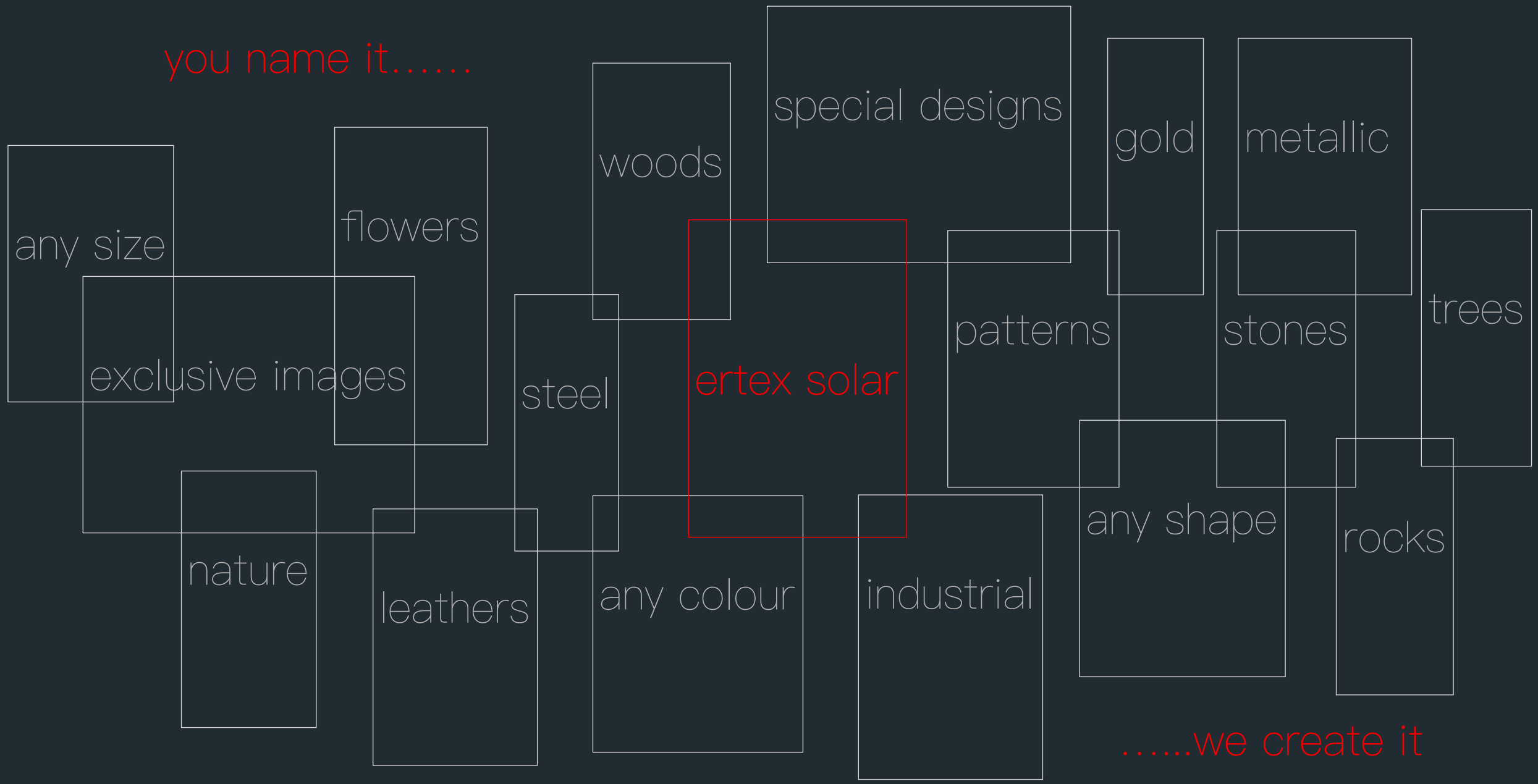
unique range of sizes, surface finishes and different colours



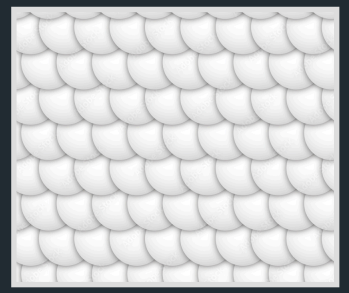
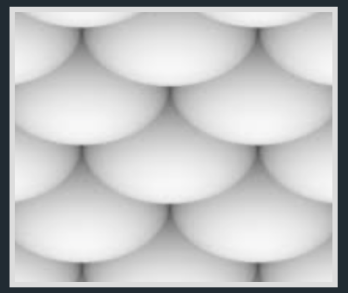
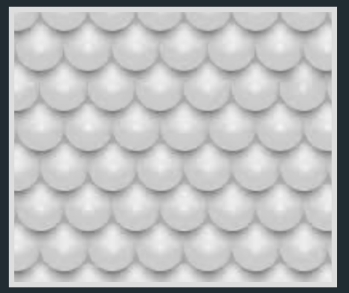
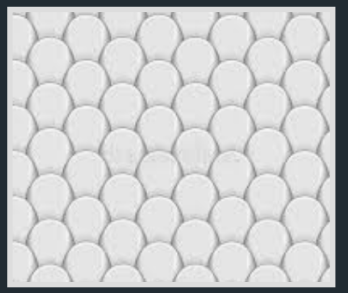



unique colour palettes to meet your architectural challenges

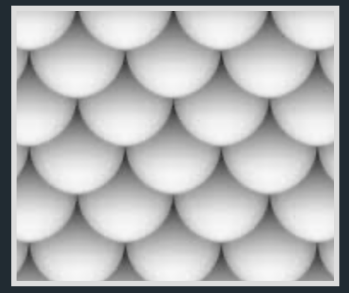
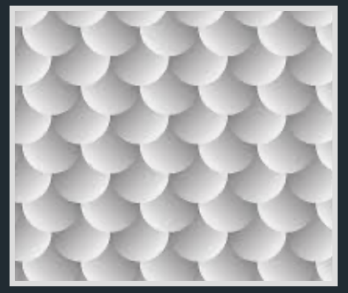
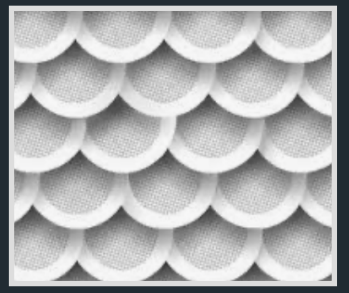
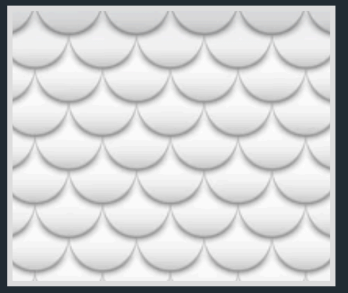






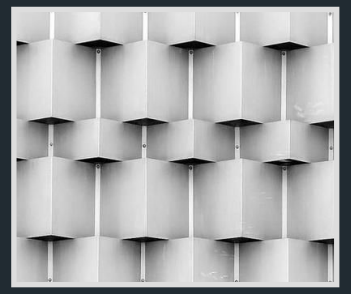
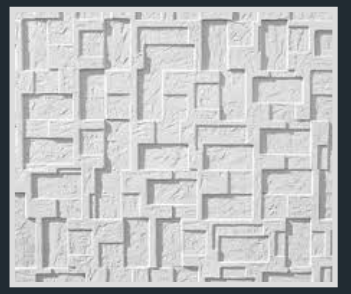
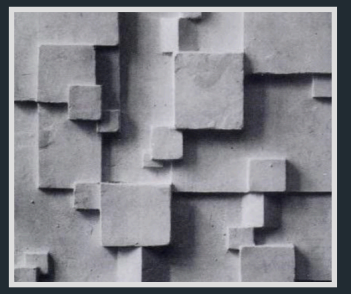
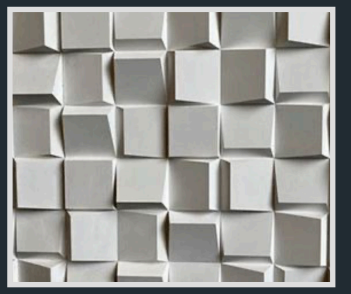

you name it……
any size
flowers
woods
special designs
gold
metallic
exclusive images
steel
ertex solar
patterns
stones
trees
nature
leathers
any colour
industrial
any shape
rocks
……we create it

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

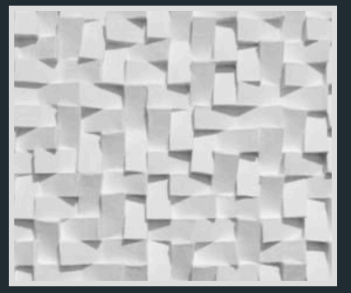
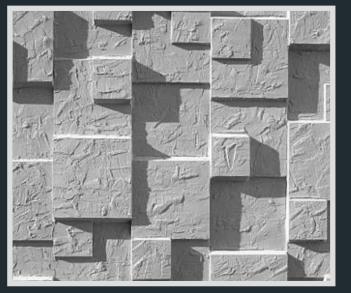
Modern Art Look

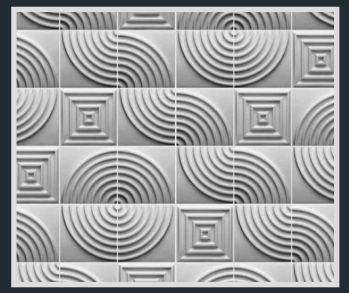
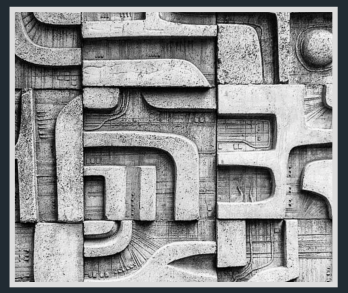
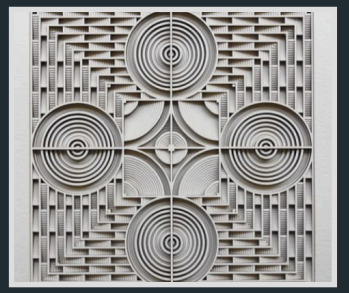
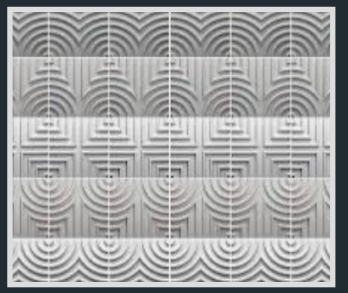





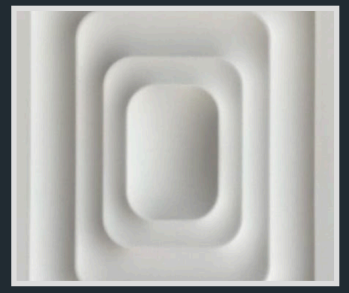
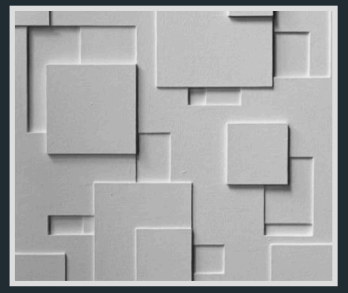
Classic Art Look



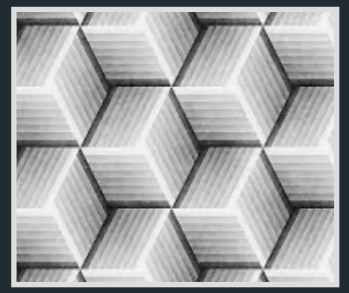
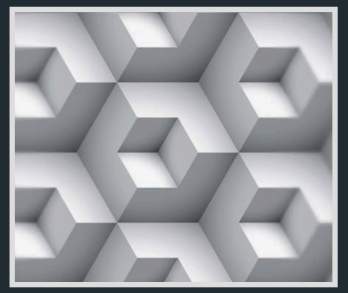
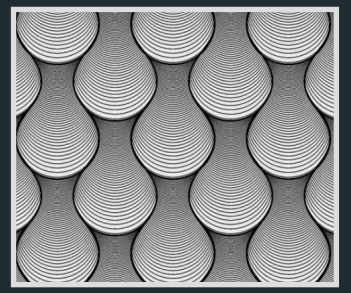
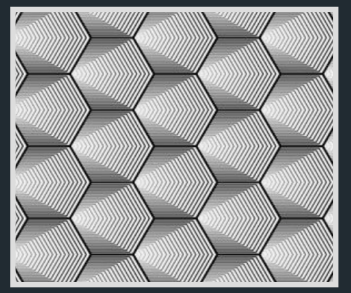



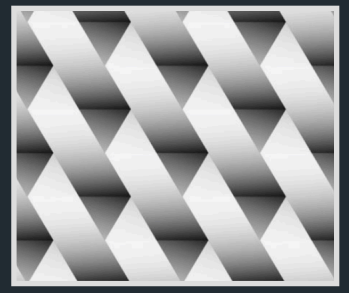
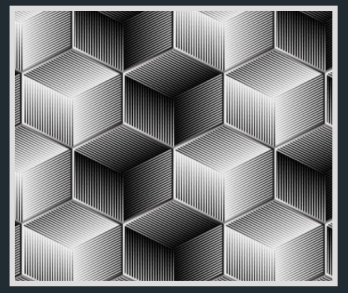
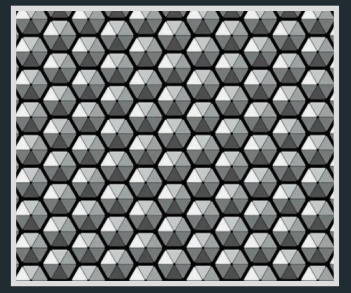
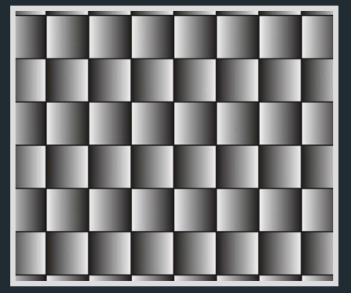
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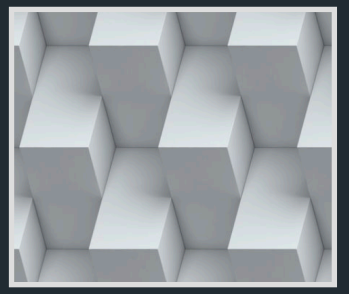


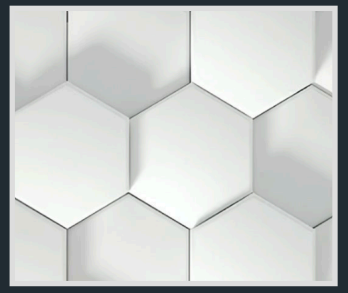
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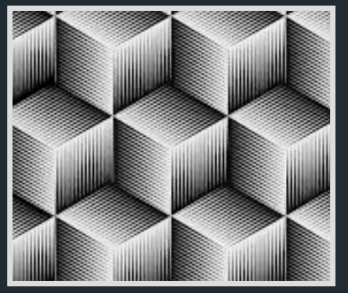





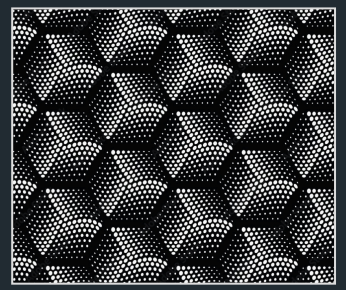
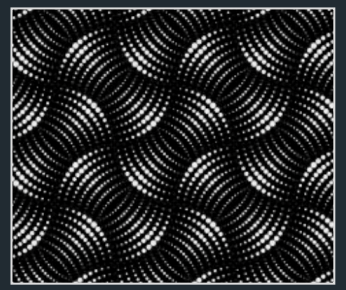
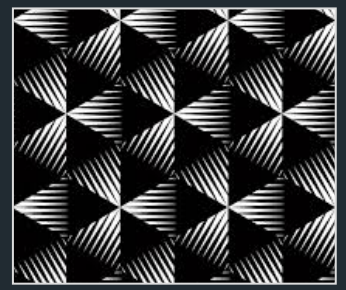
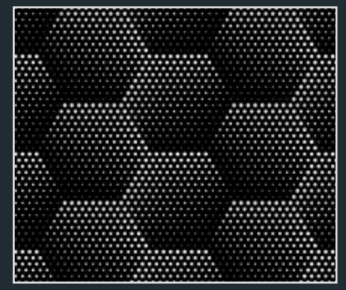
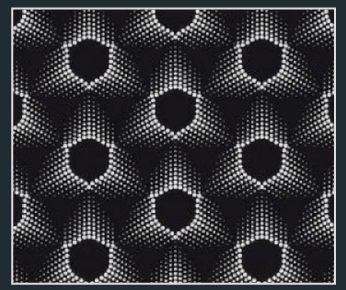
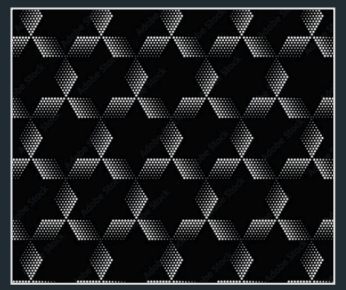


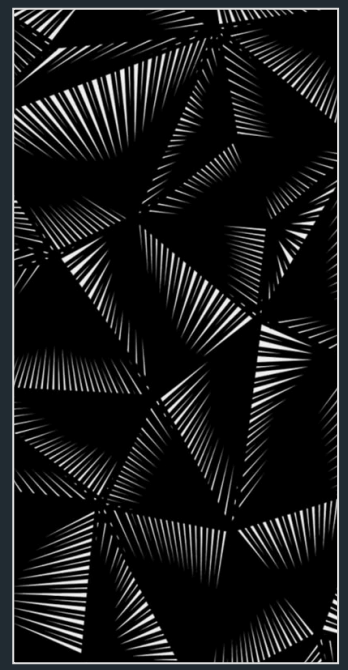



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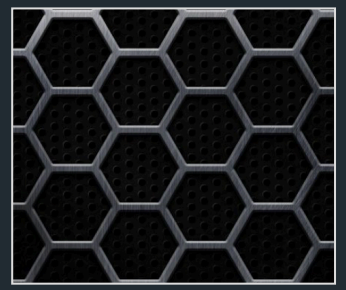
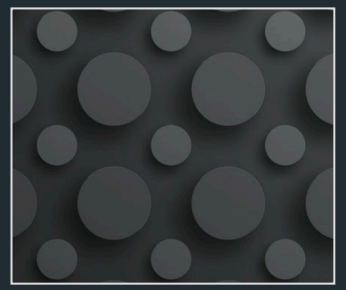
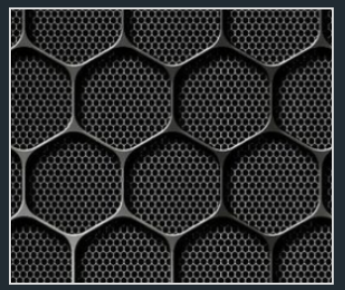
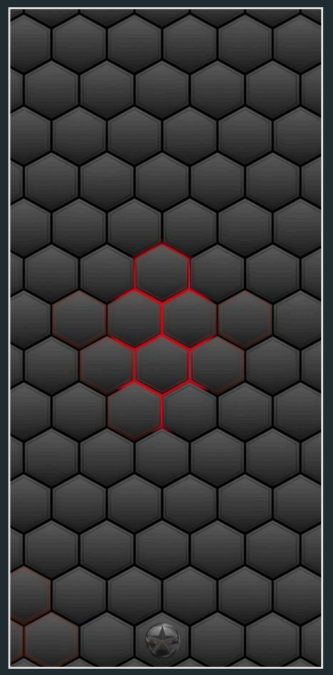





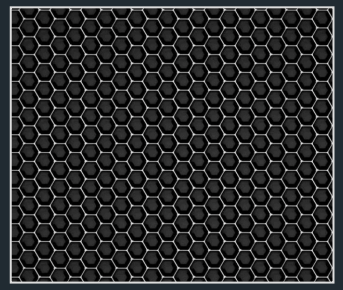








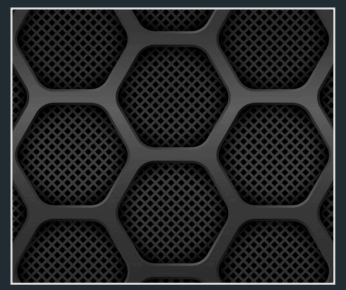
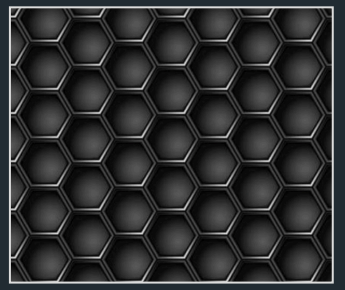


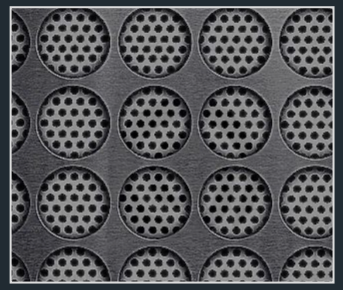
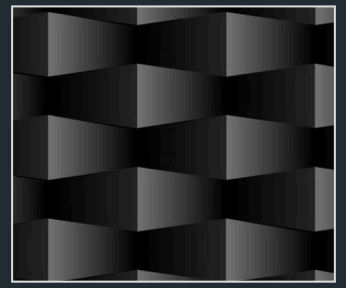
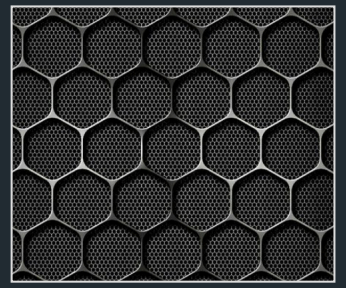
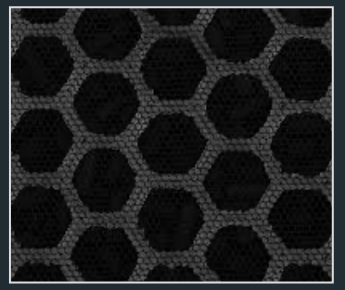
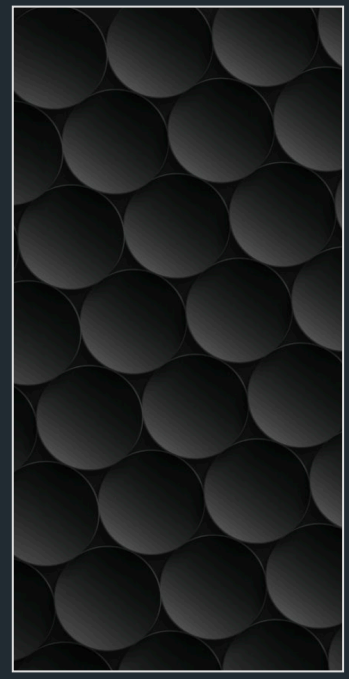
Unique Industrial Look

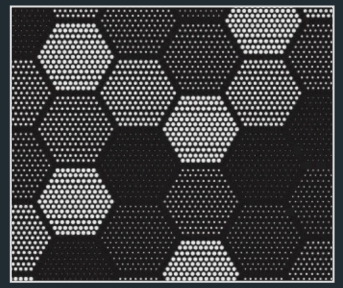
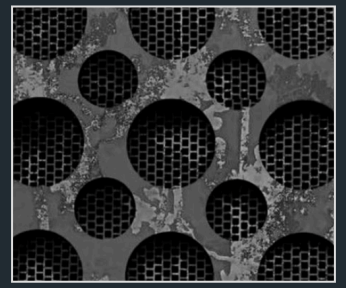
Unique Industrial Look



Unique Industrial Look



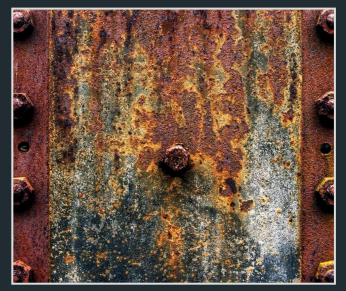




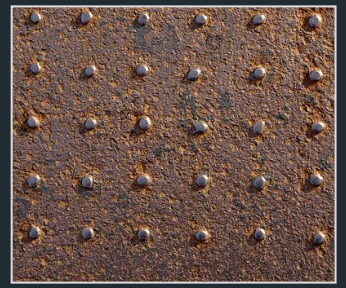

Unique Art Look







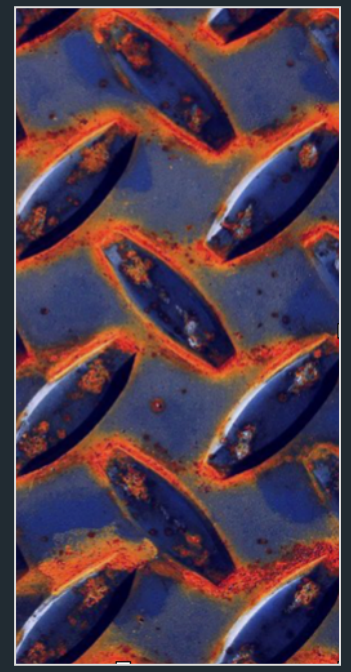





Unique Industrial Art Look

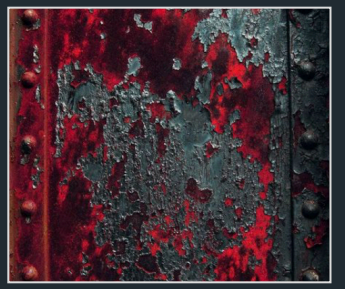


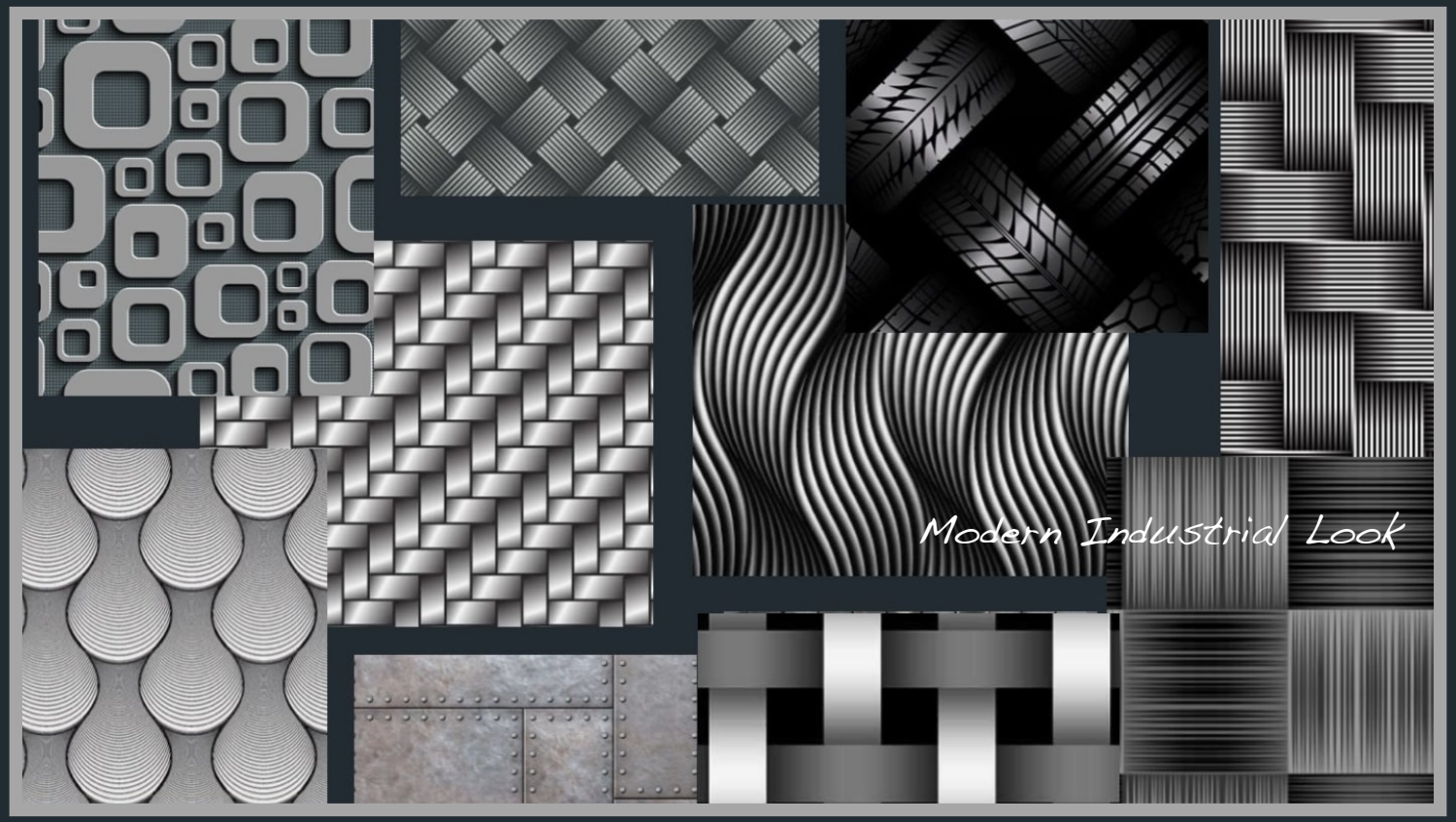


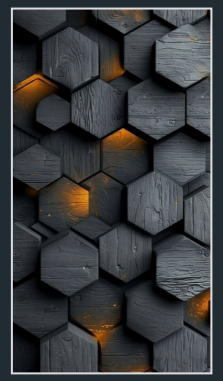


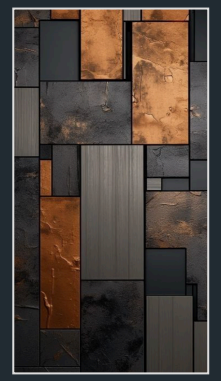
Unique Industrial Art Look



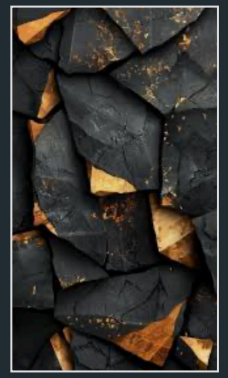



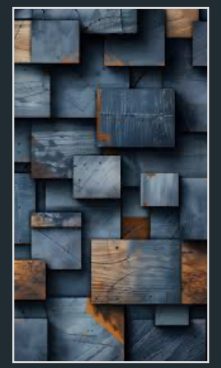

Modern Industrial Look

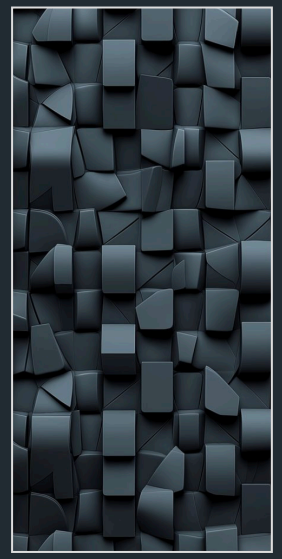


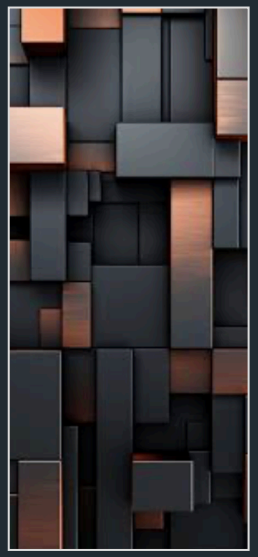


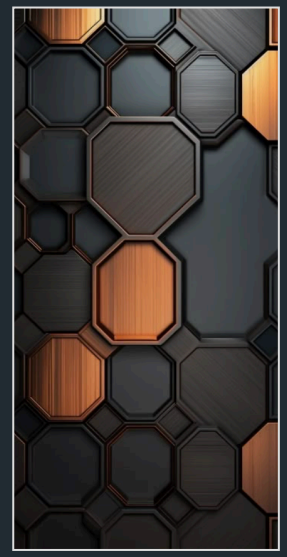
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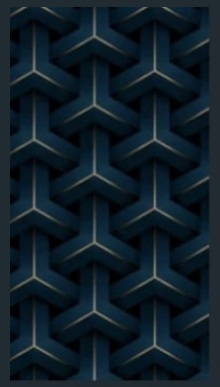


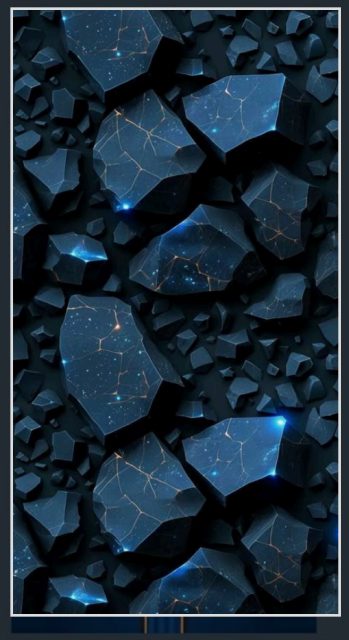


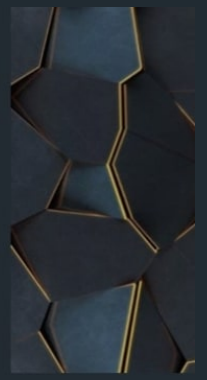


Unique Golden Look

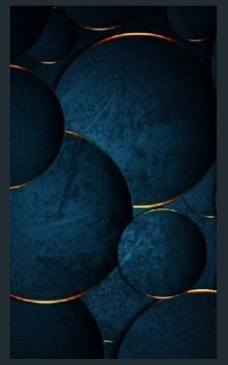
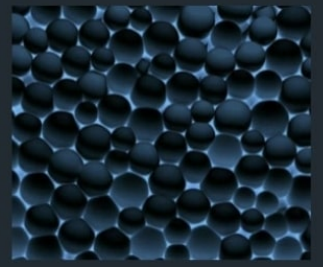




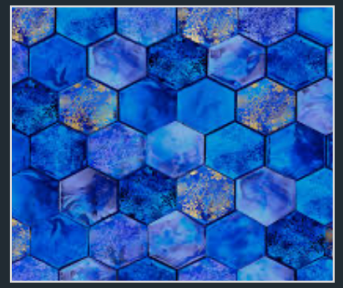
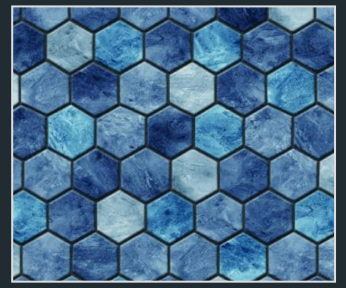




Modern Pattern Look

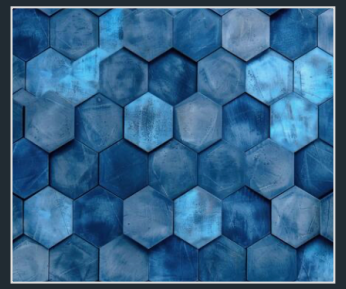




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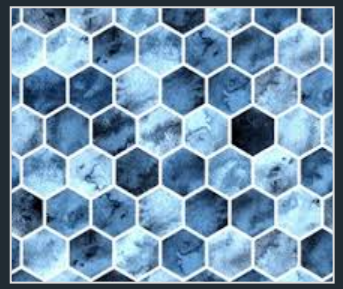


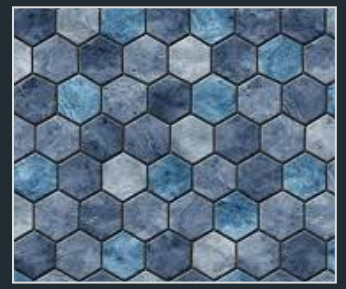


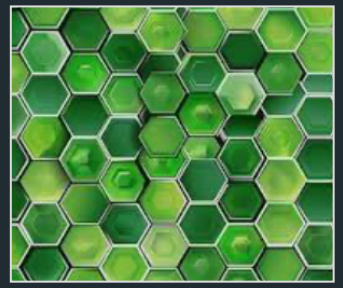
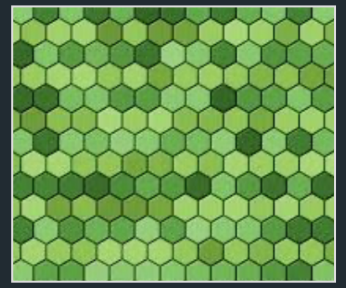
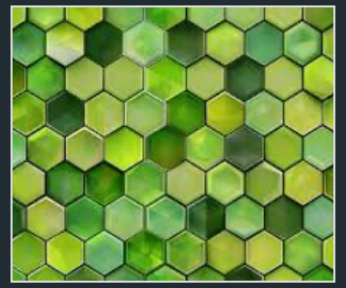
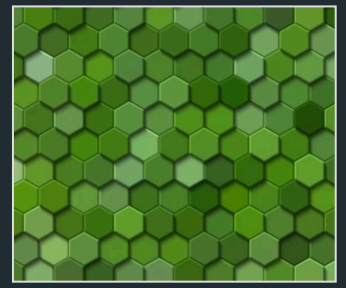




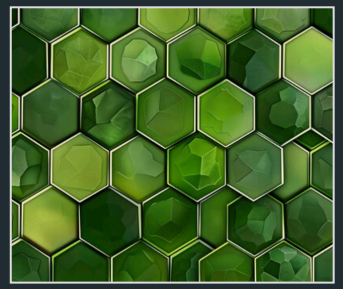
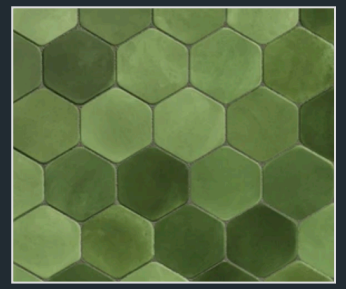
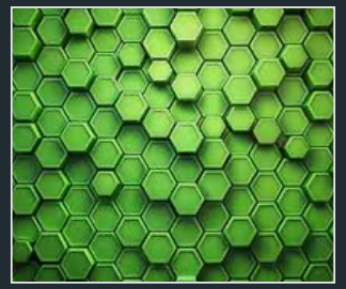
Modern Art Look



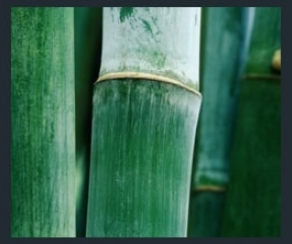



Modern Art Look



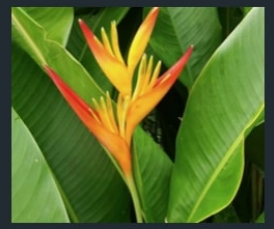




Unique Bamboo Look



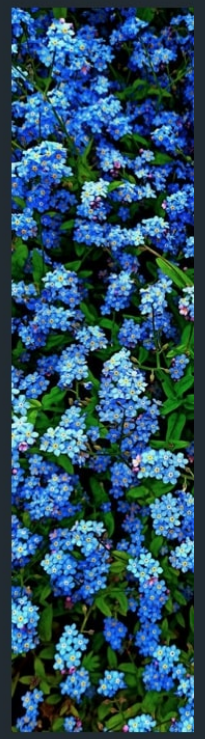




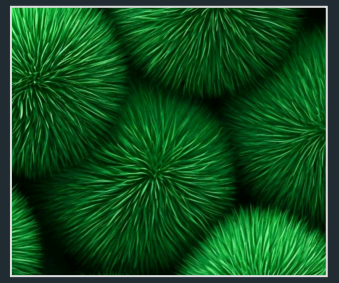



Unique Flower Look

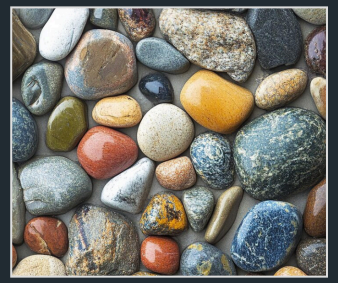









Unique Nature Look



Unique Solar Panels
with Natural Wood Look

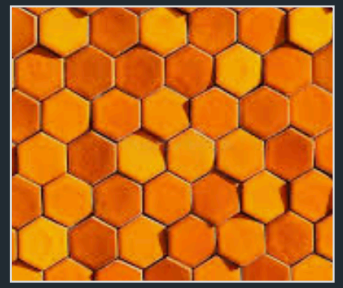

Natural Wood Look

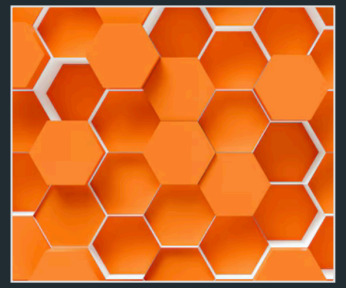

Unique Solar Panels
with Natural Rock and Stone Look


unique marble look

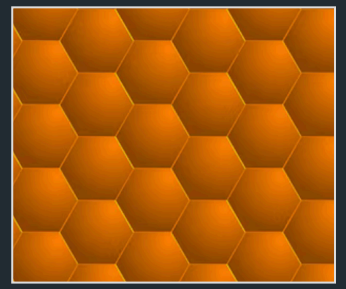
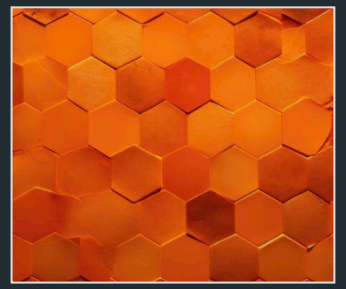

Unique Solar Panels
with Genuine Leather Look


unique marble look






Modern Art Look

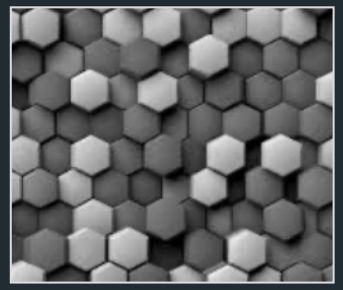




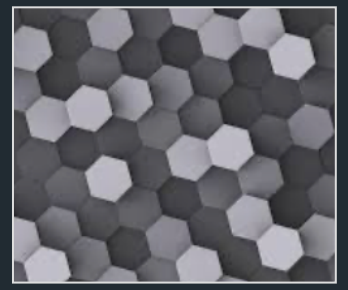






Modern Art Look



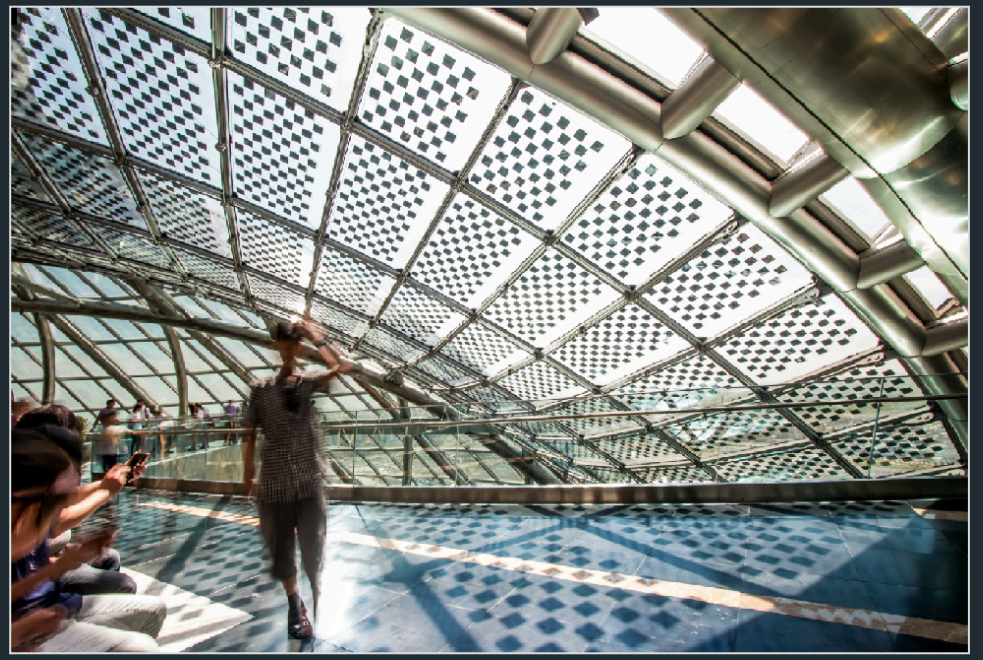
“ the sphere”

Astana Exhibition Center



“ the sphere”

Astana Exhibition Center

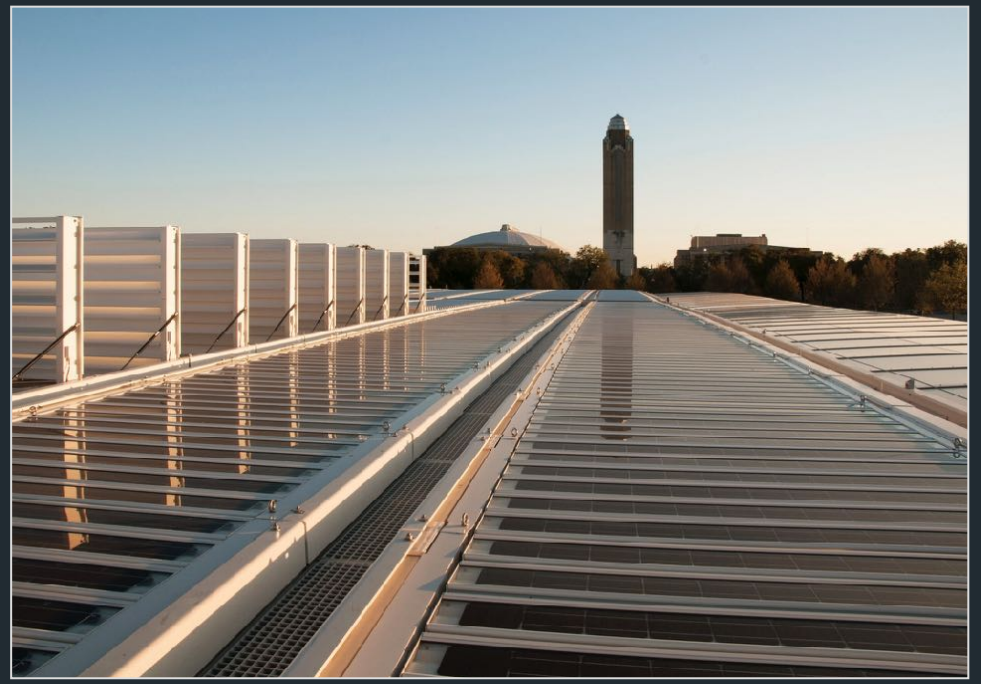




2.403 Transparent Panels

by Renzo Piano Building Workshop





Kimbell Art Museum



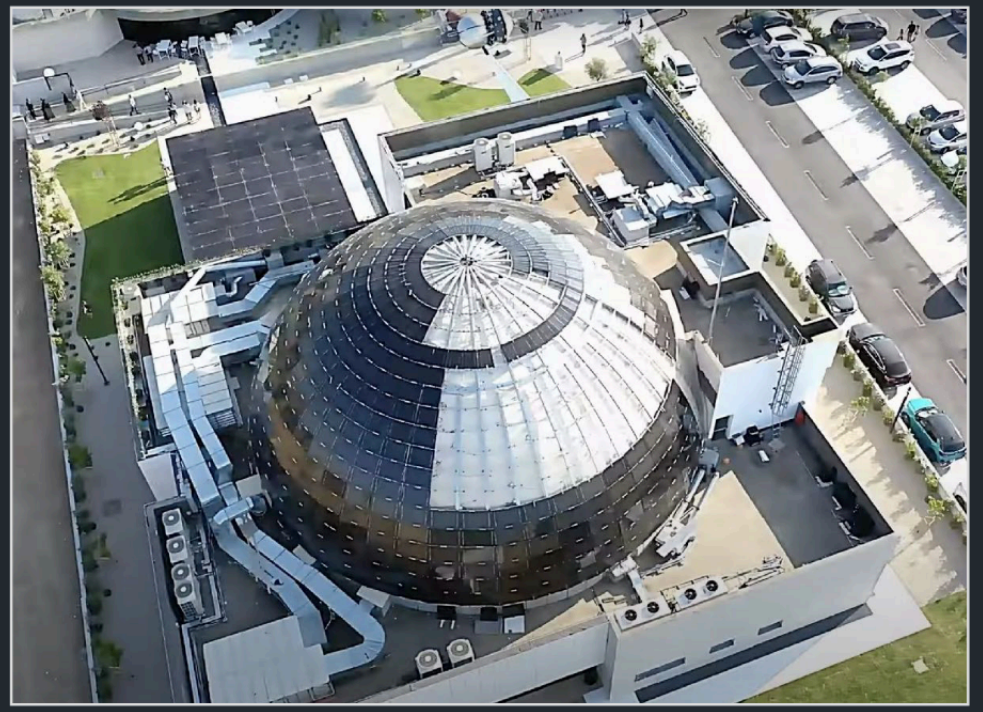
Dome Amphitheater

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





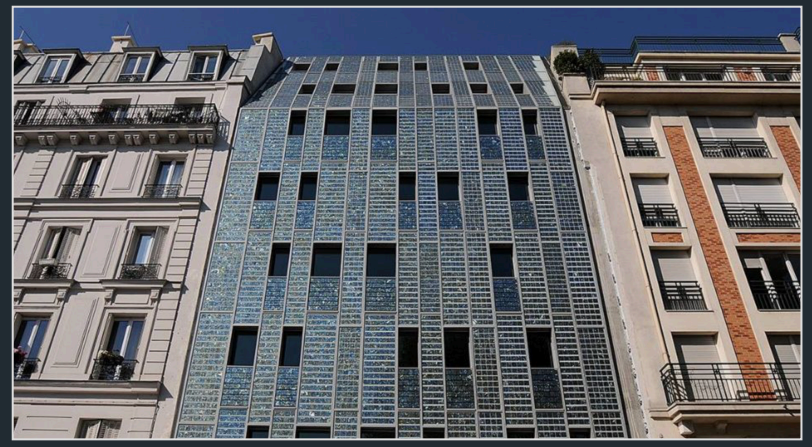

AUDI
Brand Experience
Center - Munich

Audi Munich


AUDI
Brand Experience
Center - Munich


AUDI
Brand Experience
Center - Munich

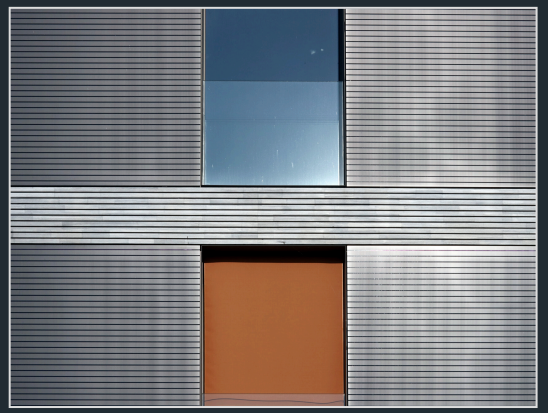
Emmaus Solidaritet
unique facade installation
Paris – France

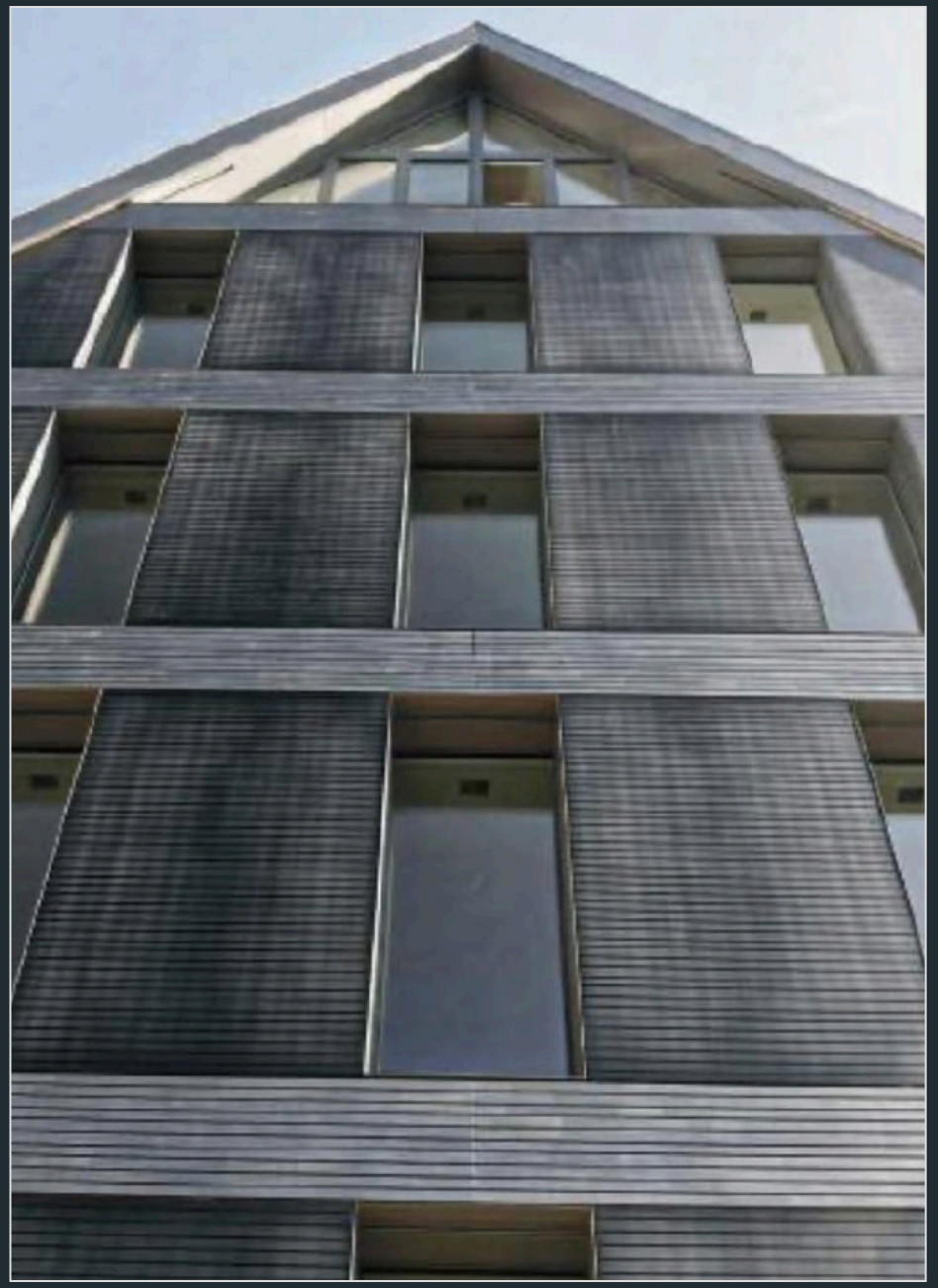






Roosli project





Aesch – Switzerland

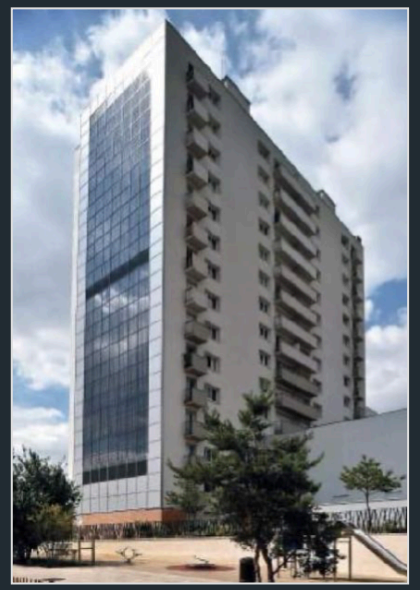
unique facade & roof installation

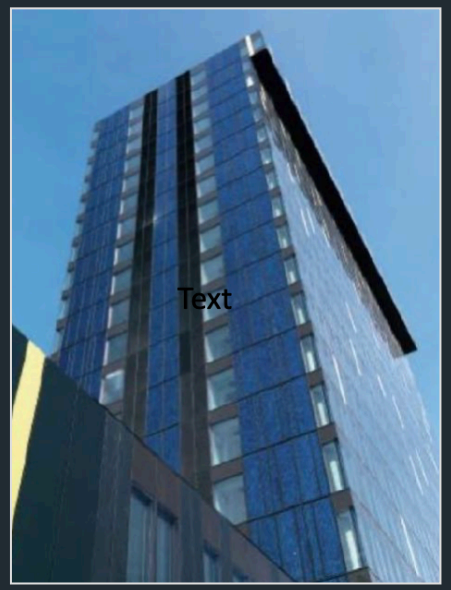


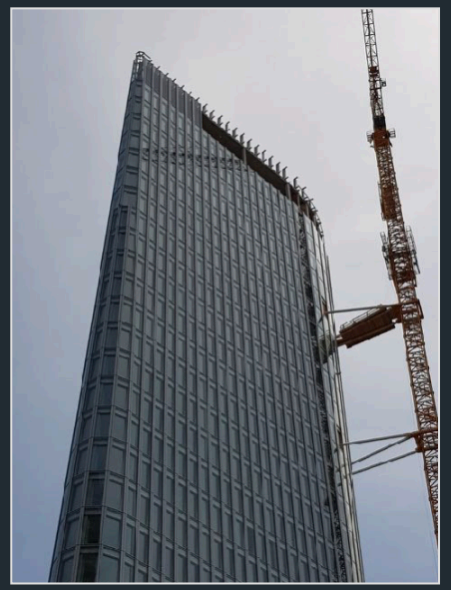




Towers













unique projects













unique projects













unique projects







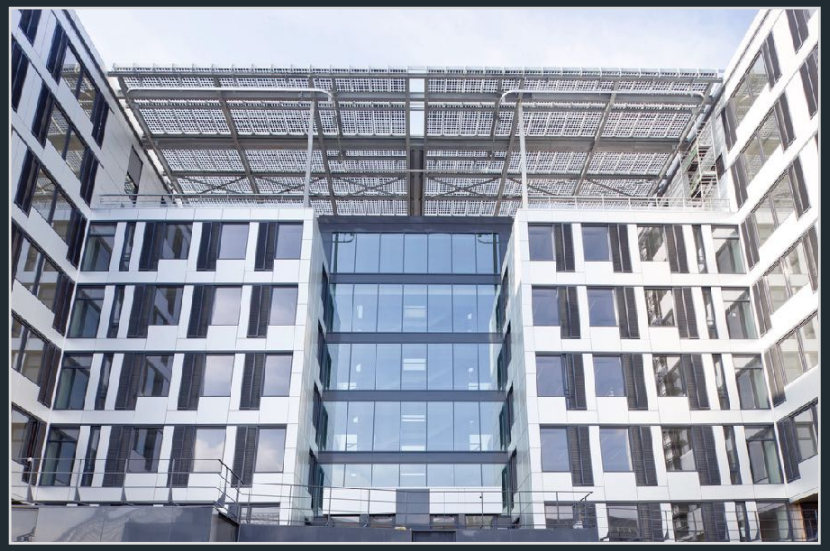
General Hospital Vienna







Headquarters
France



off–grid building

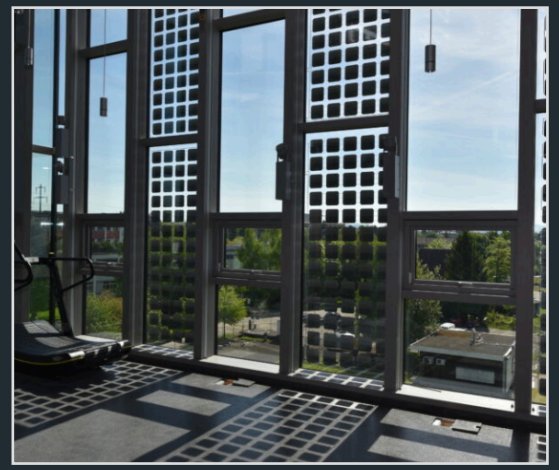


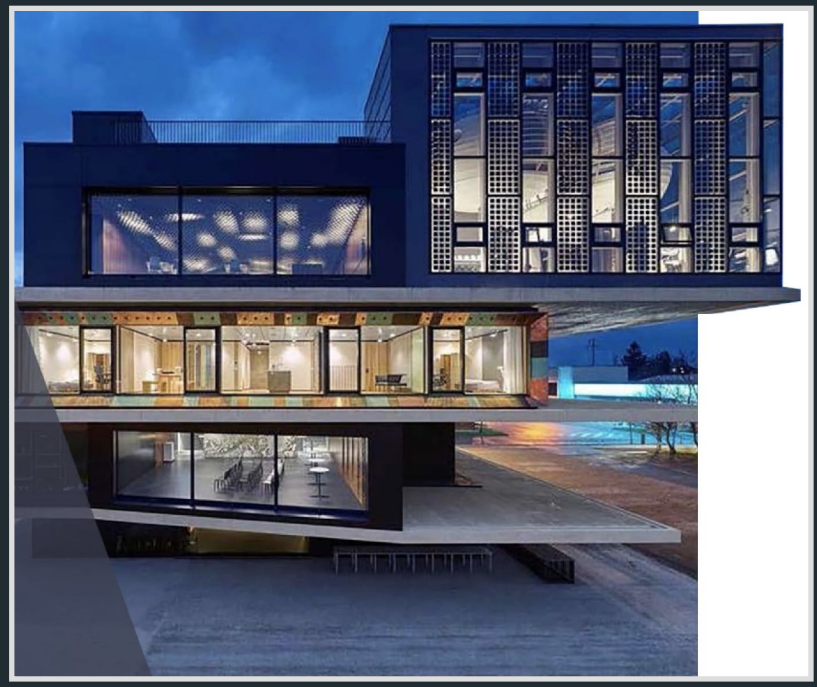
Biessenhofen
Germany





roof & facade installation



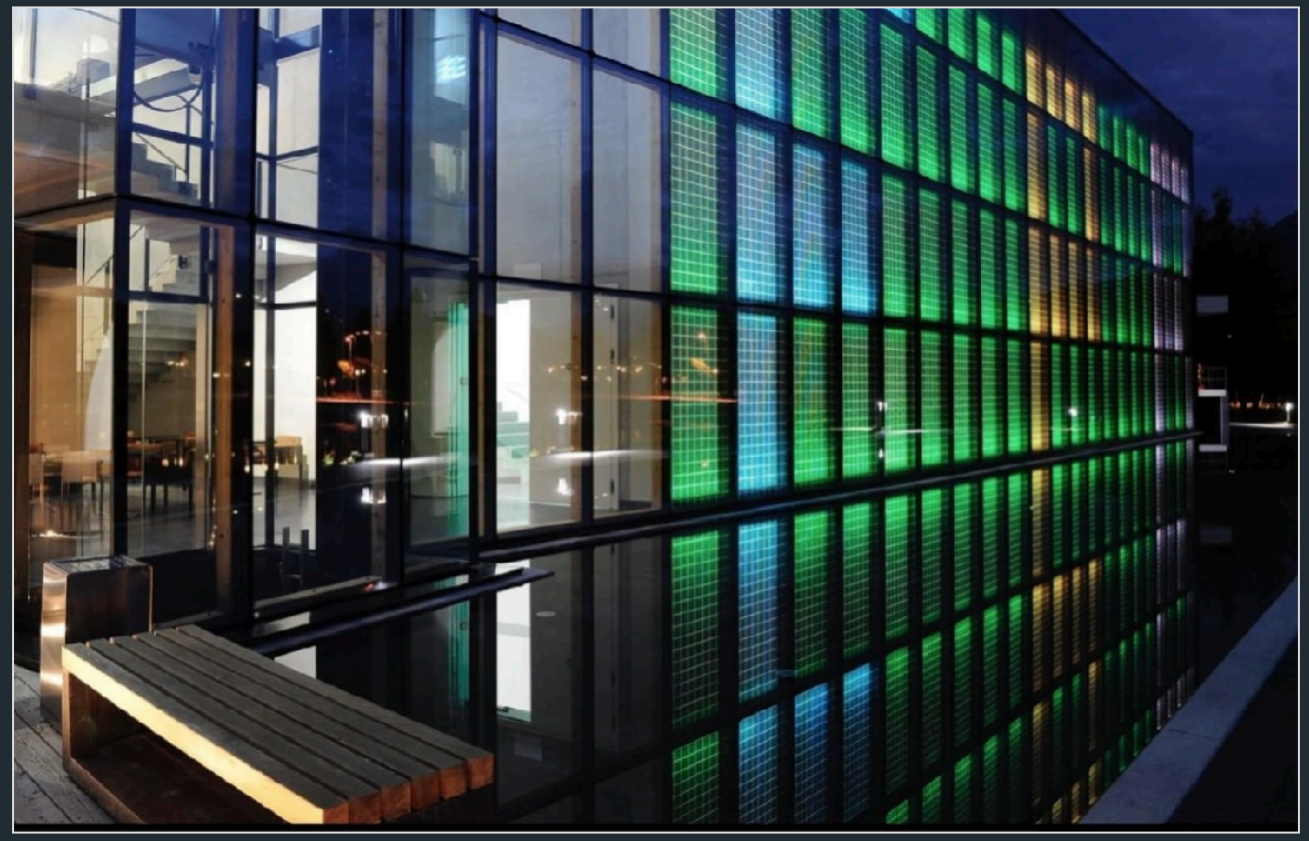


Dubendorf

Switzerland



Energiewurfel
Constance – Germany

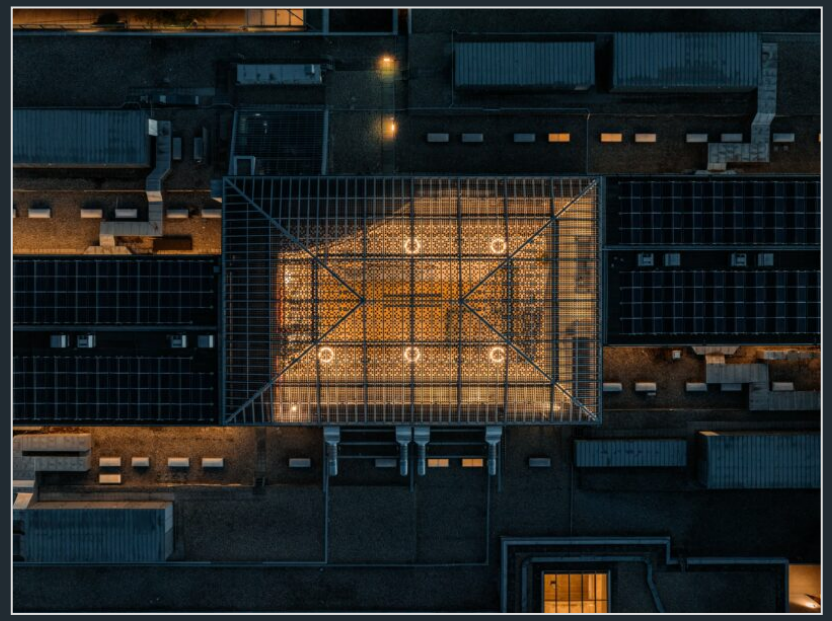


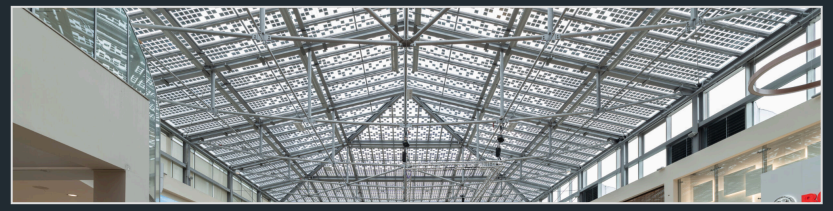
Pierre Arnaud Foundation



Pierre Arnaud France







shopping malls
transparent roofs



Marburg
Germany

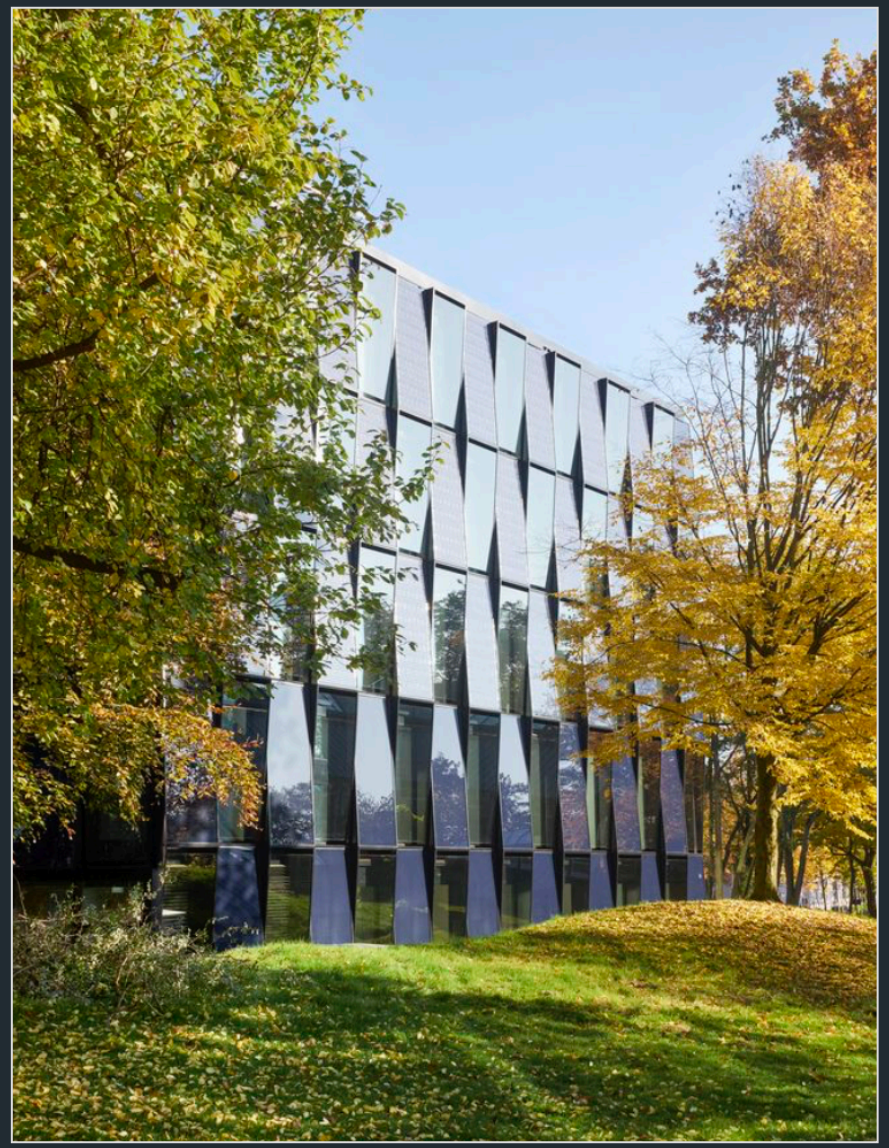


unique energy project



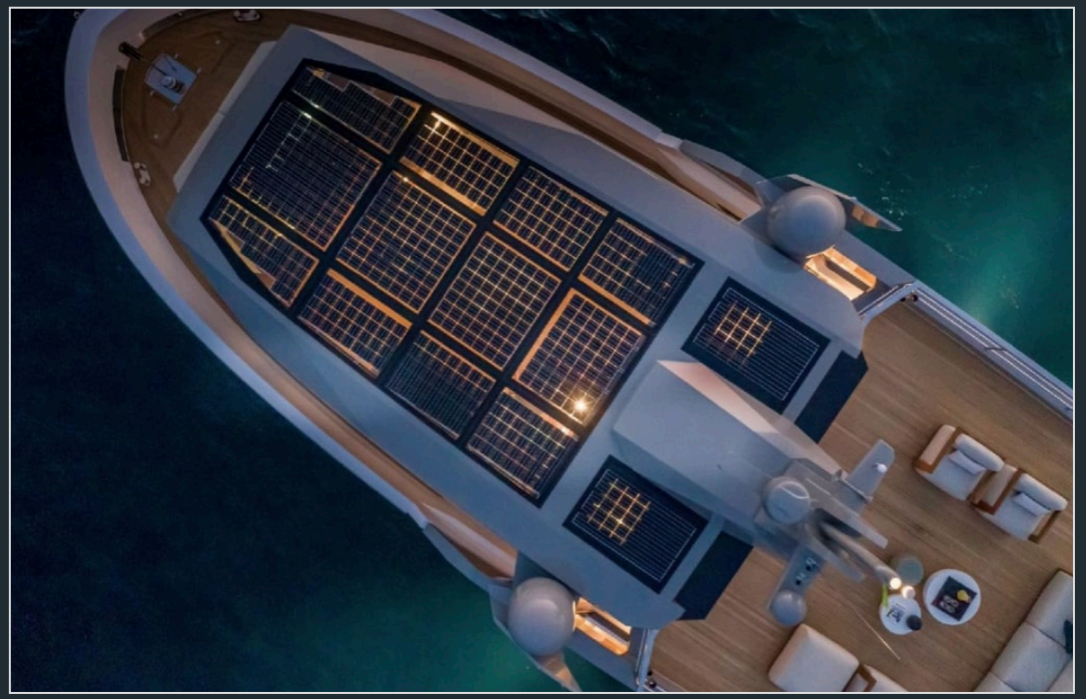


Headquarters
Mönchengladbach
Germany



yachts





yachts











unique cruise ships







cars











Fronius
solar inverters









facade Empl

Canada









ventilated facades

roof & facade installation

Schweiz

Switzerland



ventilated facades





ventilated facades



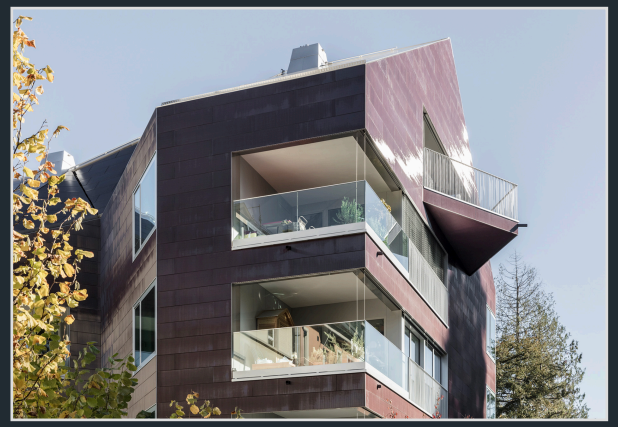
Coop Headquarters



facade & roof



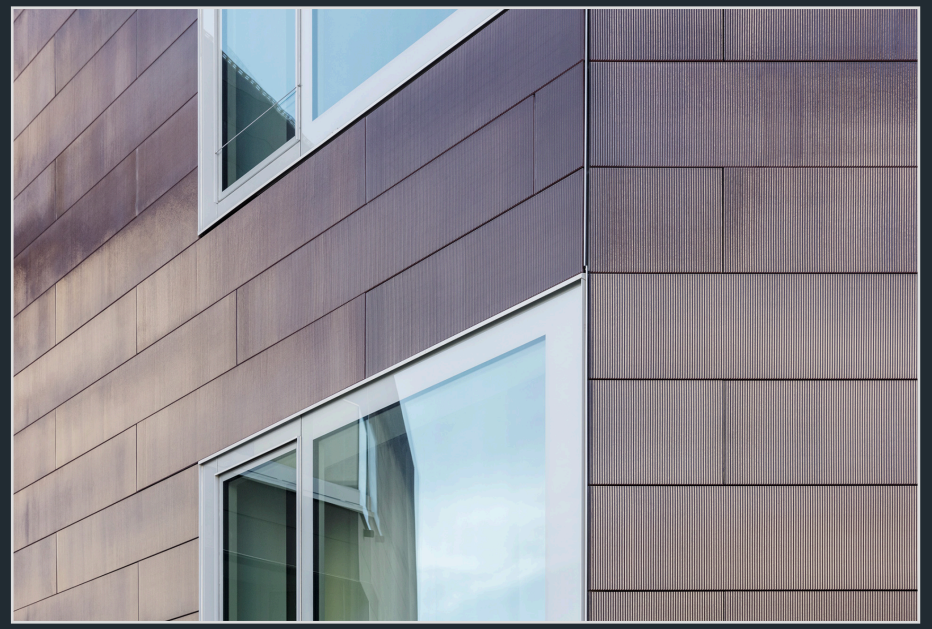
ventilated facades



Solaris

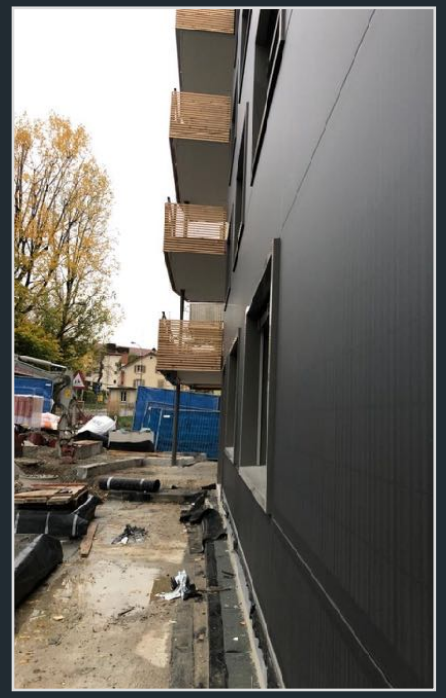
Zurich

Switzerland



zero energy building

ventilated facades



unique facades

Talstrasse
Zurich

Switzerland



ventilated facades

facade – roof

self–sufficient residence

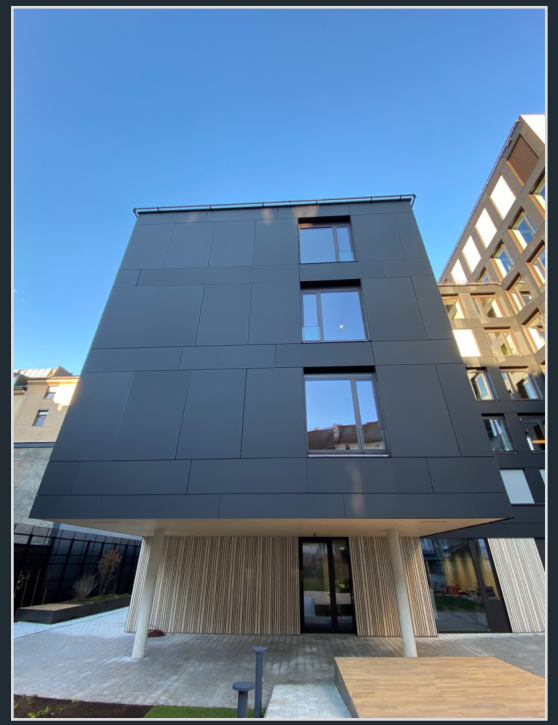


ventilated facades

self–sufficient office building

Tyrol







facades – roof

ventilated facades



self–sufficient
residences



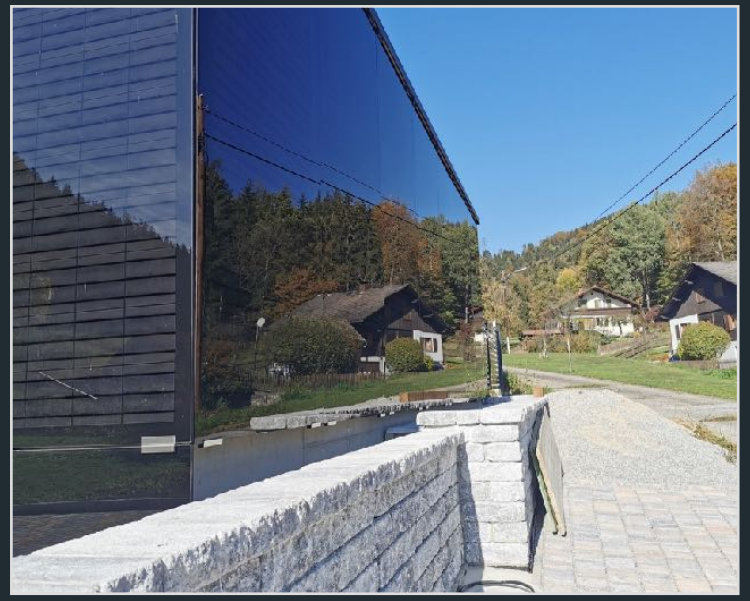
Sonnenpark project

ventilated facades



facades
roofs
balconies
storage





roof & facade



Unique Indoor Parking





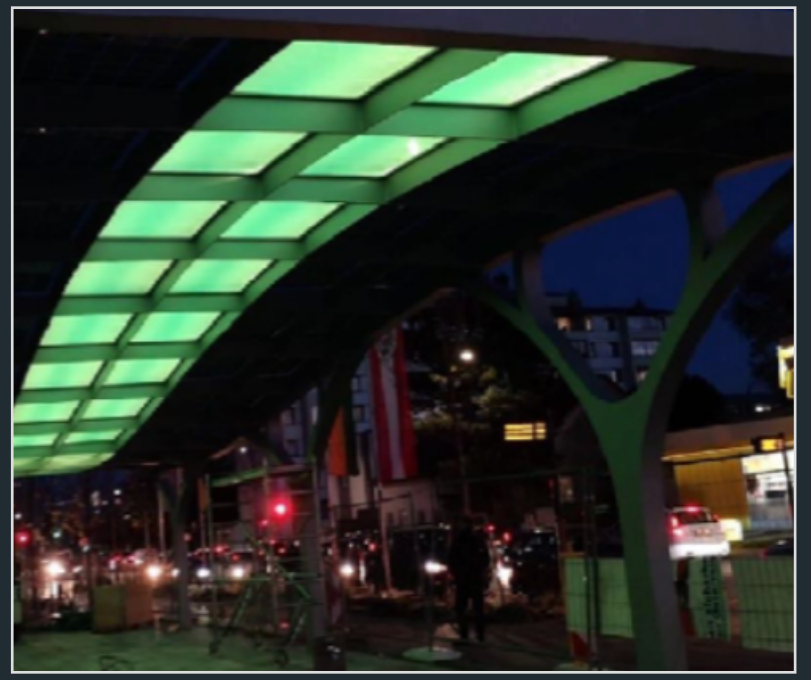


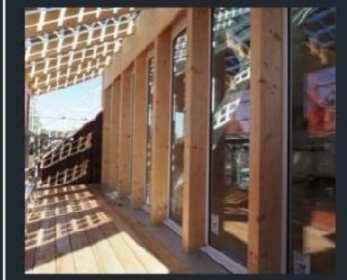
Fehlmann Areal Winterthur



unique projects “the waves”

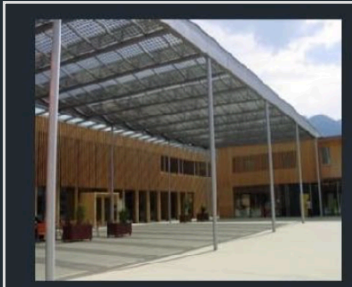
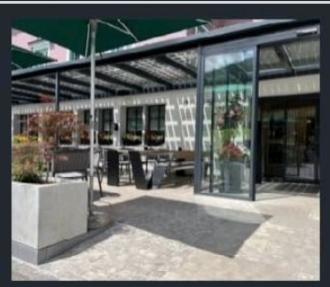
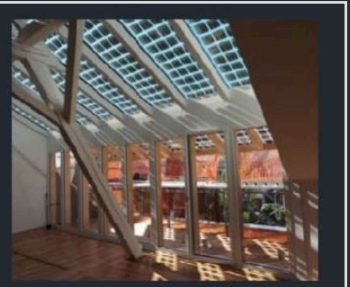








terraces

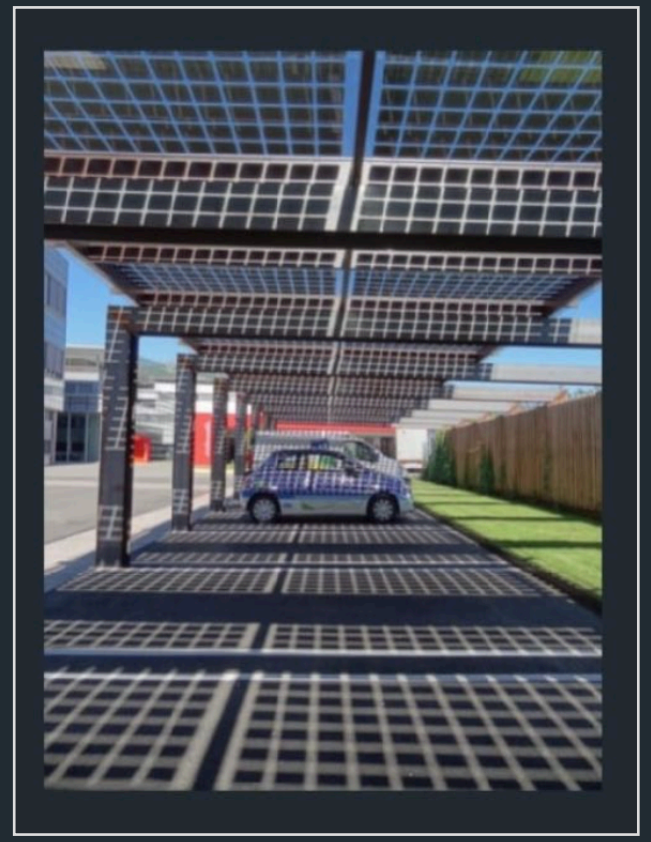




carports









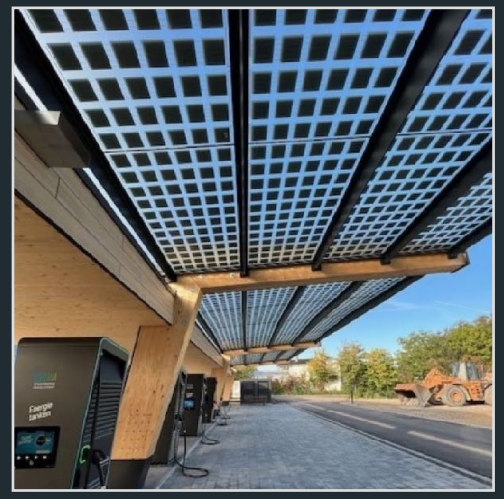




Audi



unique charging hubs



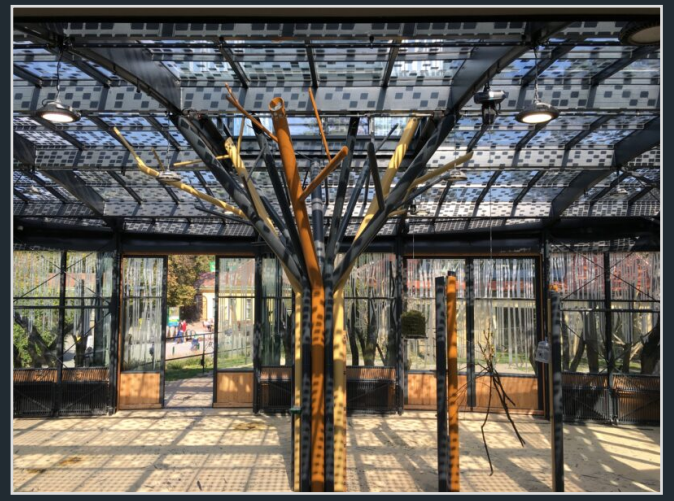






Schönbrunn Zoo

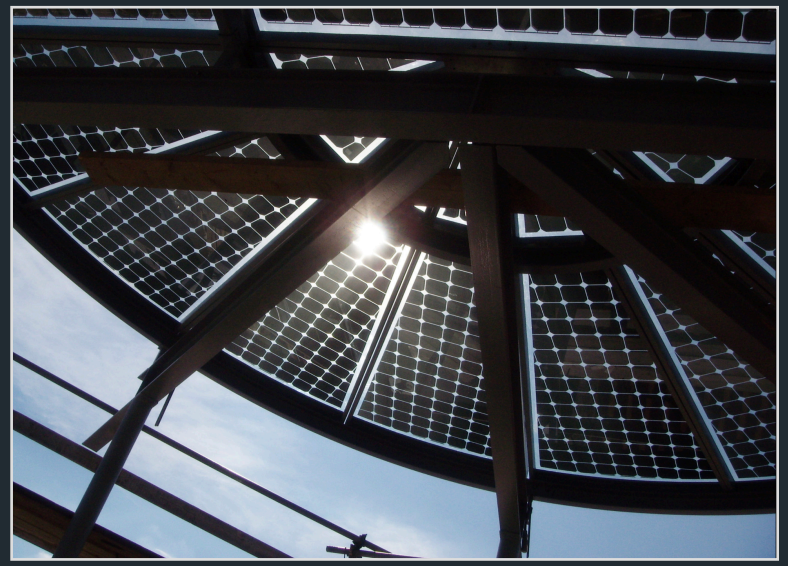






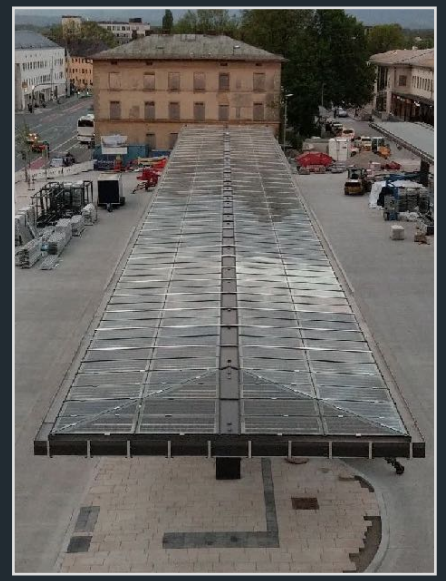
Båstad Tennis Stadium

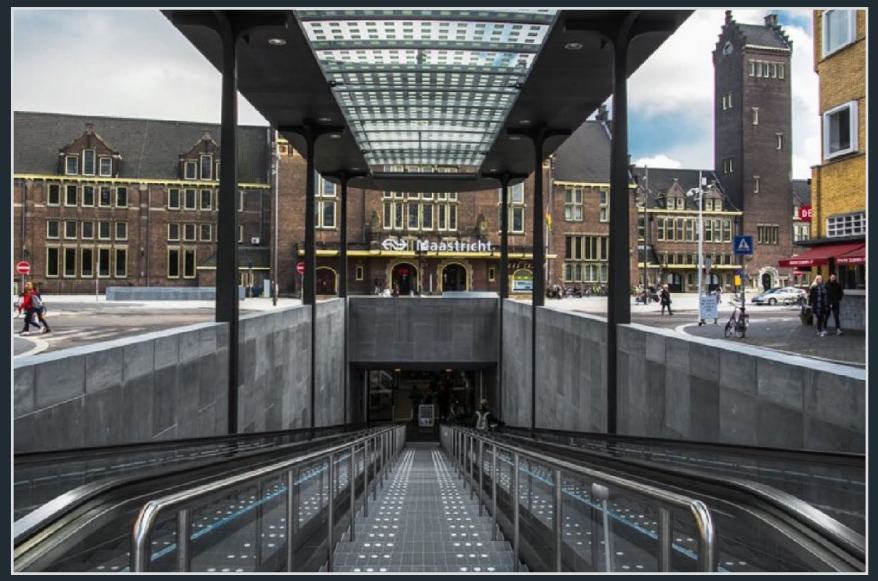




Swedish International Championship





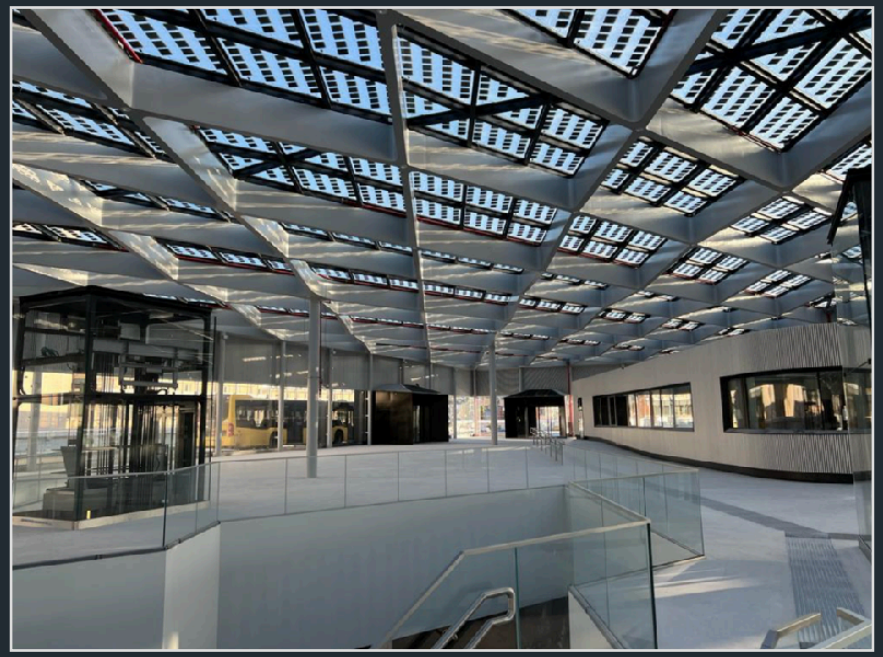


Maastricht



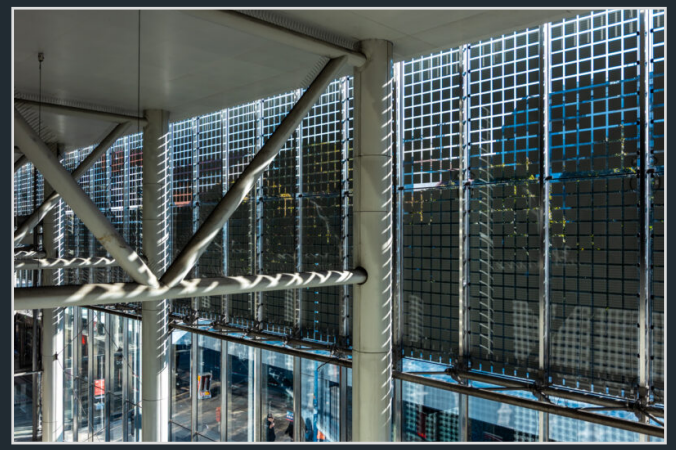
central bus station
8.000 m2
3.560 panels

Belgium

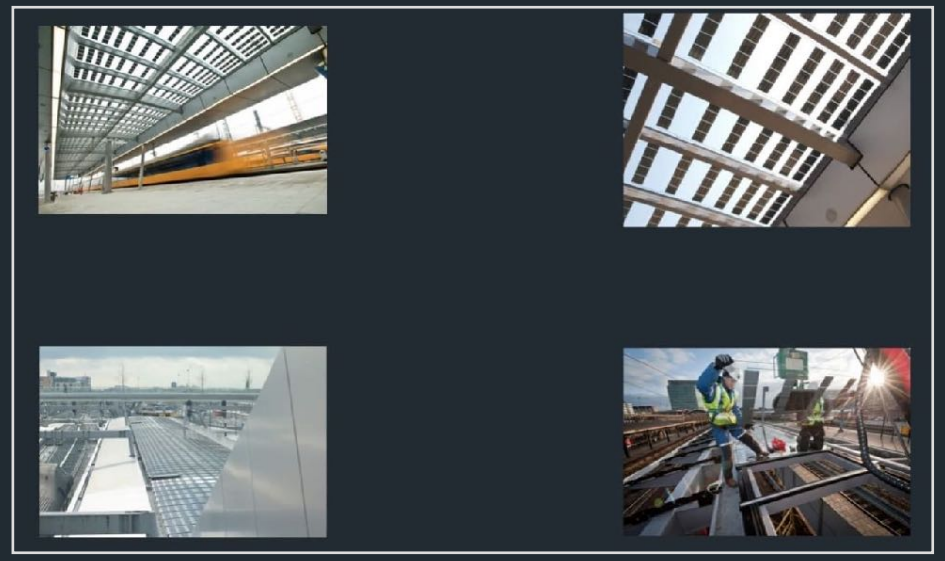




Vienna central train station









Utrecht central train station

panels of any size & shape





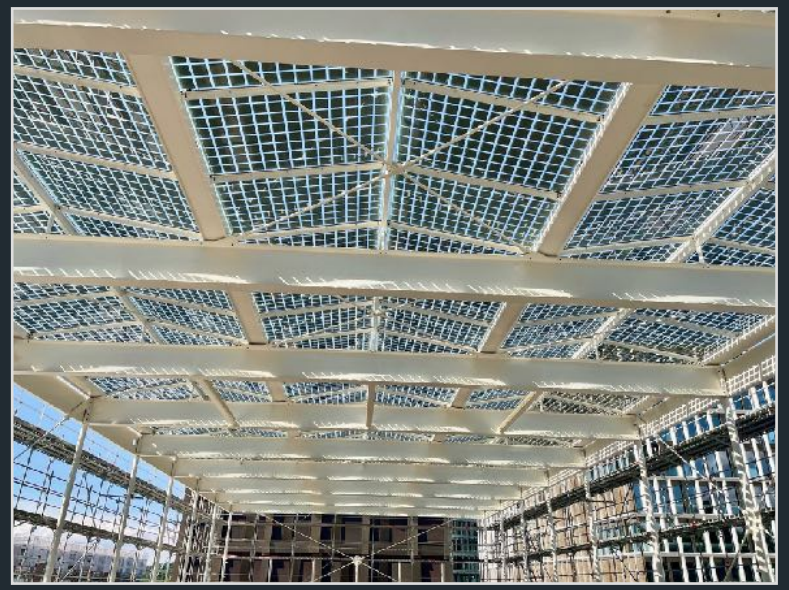
triple–side roof installation



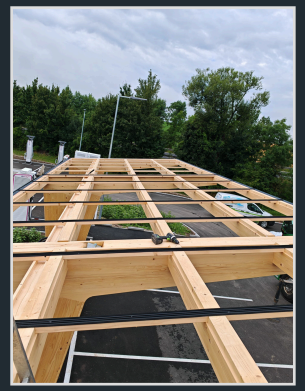
Switzerland

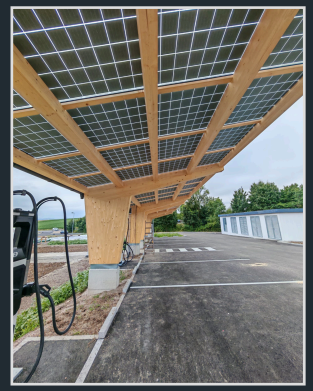


Zurich



Allmend School









public charging stations



wooden constructions



roofs and balconies



roofs
&
canopies




REWE
REWE
REWE
REWE





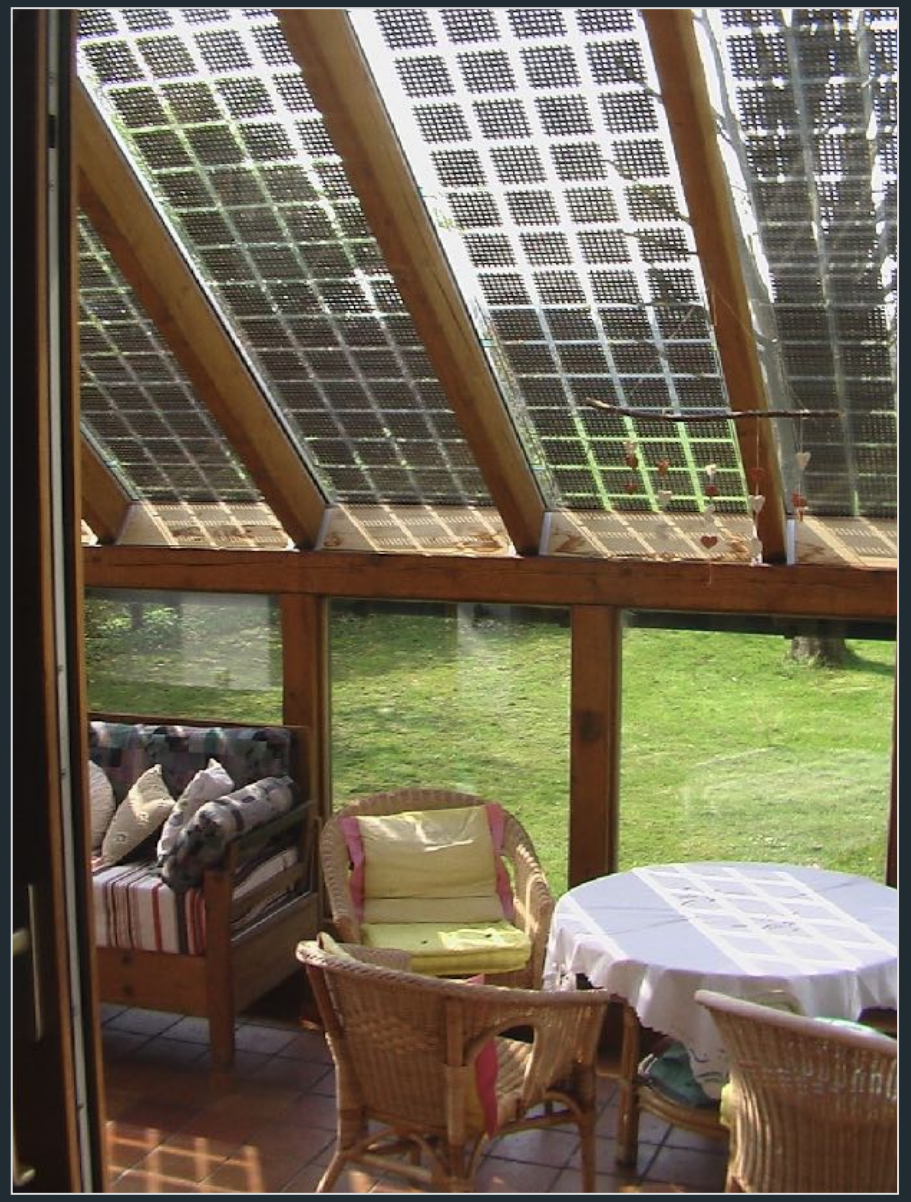
Unique Projects





perforated transparency







timber frame

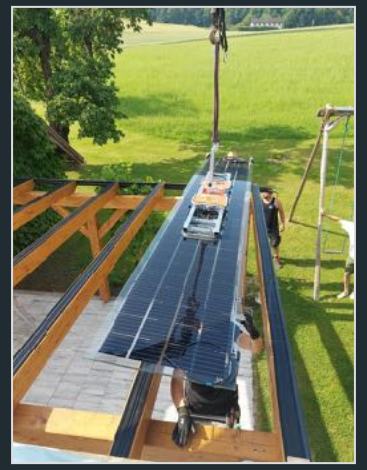


unique wooden construction



Switzerland

unique panels – length 5m









balconies







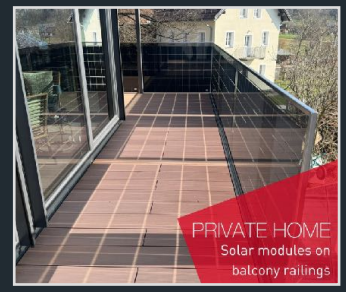












fences & balconies







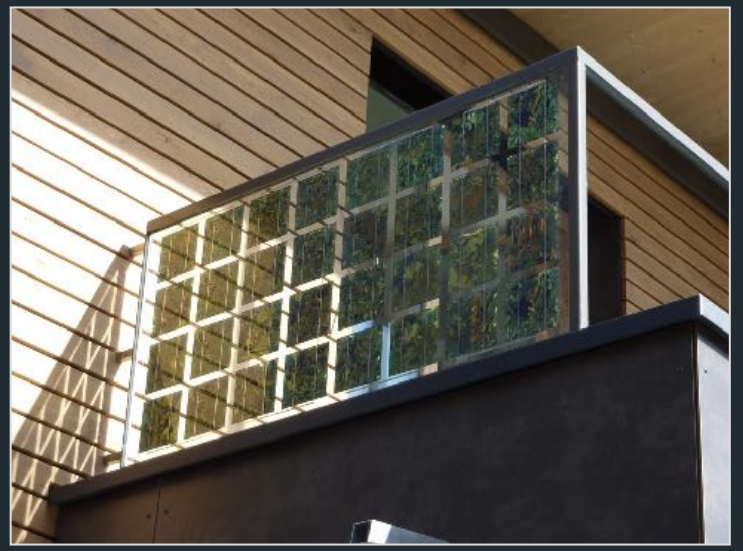




unique flower fence







country house



transparent flower balcony



Tamins
Switzerland

facade & roof installations

facade panels:
designed by Bruno Krucher







Leather Look





Weisses Schlössli
Davos





public places

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

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z.H. Herrn Ing. Christian ULRICH
Peter-Mitterhofer-Straße 4
3300 Amstetten

per E-Mail an: christian.ulrich@ertex-solar.at

Magistratsabteilung 39
Rinnböckstraße 15/2
1110 Wien
Telefon +43 1 4000 8039
Fax +43 1 4000 99 8039
post@ma39.wien.gv.at
ma39.wien.at

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.
Akkreditierte Prüf-, Inspektions- und Zertifizierungsstelle
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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**

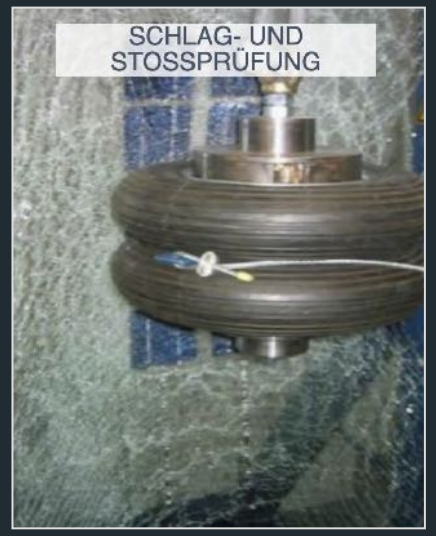
Grundlagen:

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

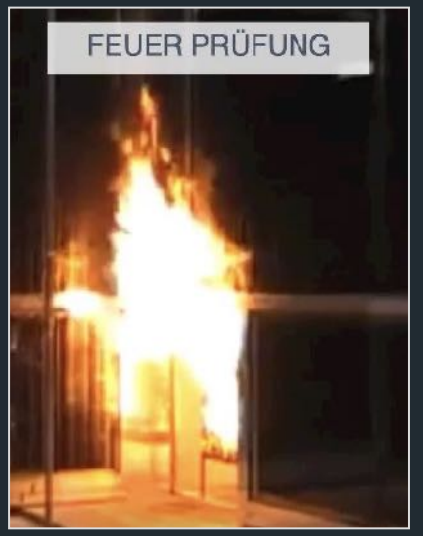


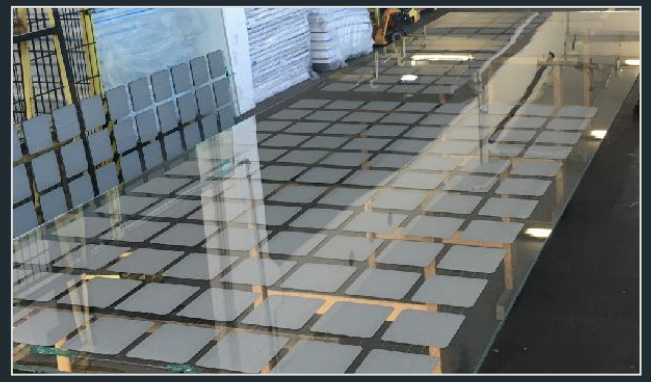
extreme hail test

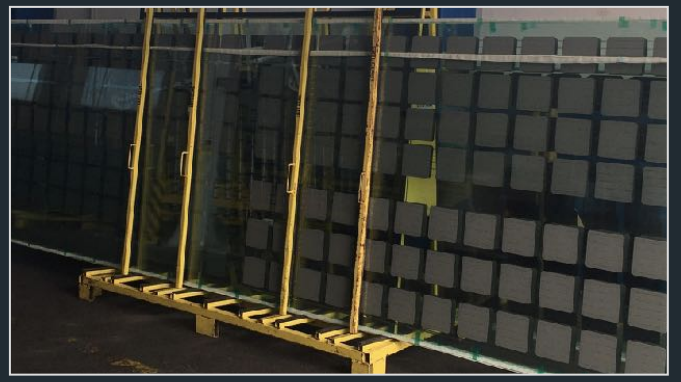
Ice Cube
Diameter 70mm – Speed 110km/h



extreme fire test



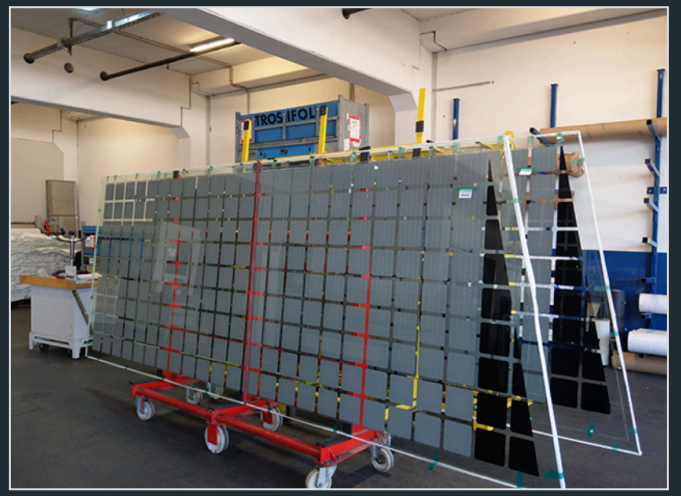




unique huge
custom–made panels
for special projects



5,100 x 2,440 mm
World Record



Austria's most
innovative Companies
at iLab of Austria's Pavilion

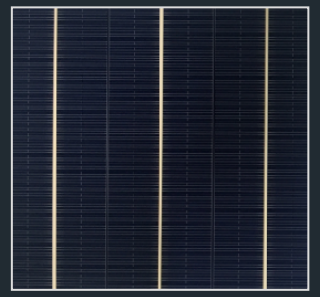


award – perforated cells

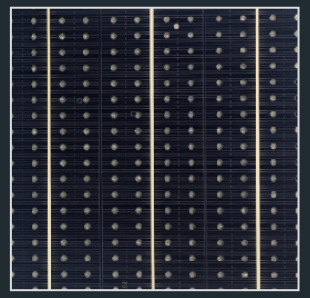


Dubai

handmade process
unique perforated transparency



before



after

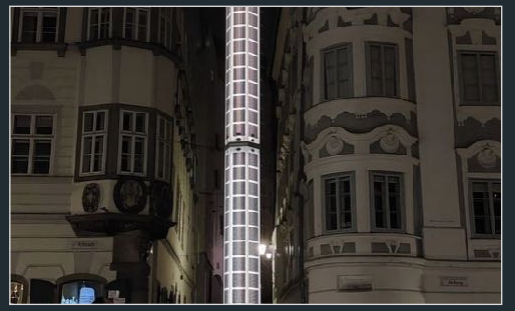


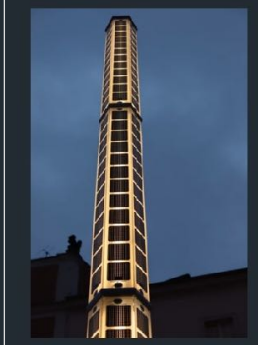
patented technology



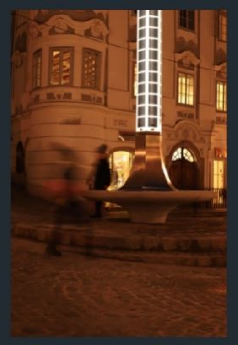
Lichtbrunnen

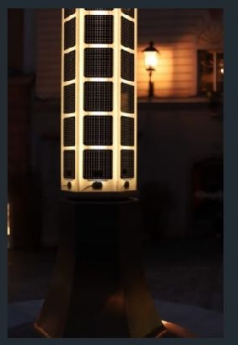
Linz – Austria

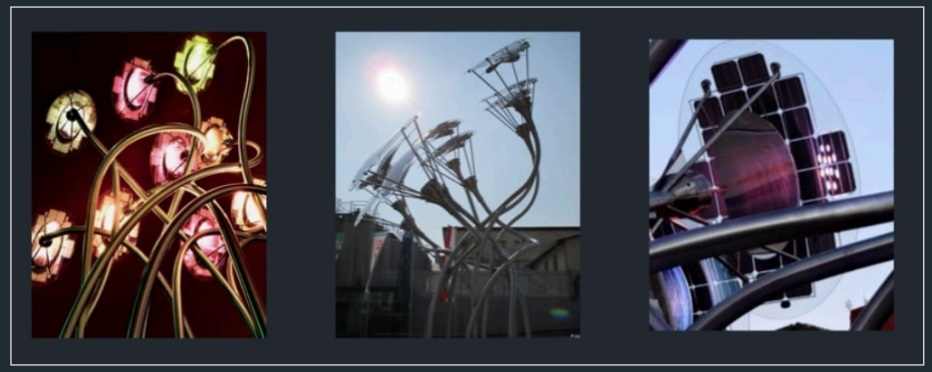












Sonnenblumen

Linz – Austria





ultra–modern museum
Germany







art & technology







Roofing

Balconies

Sky Lights

Spandrels

Brises Soleil

Ventilated Facades

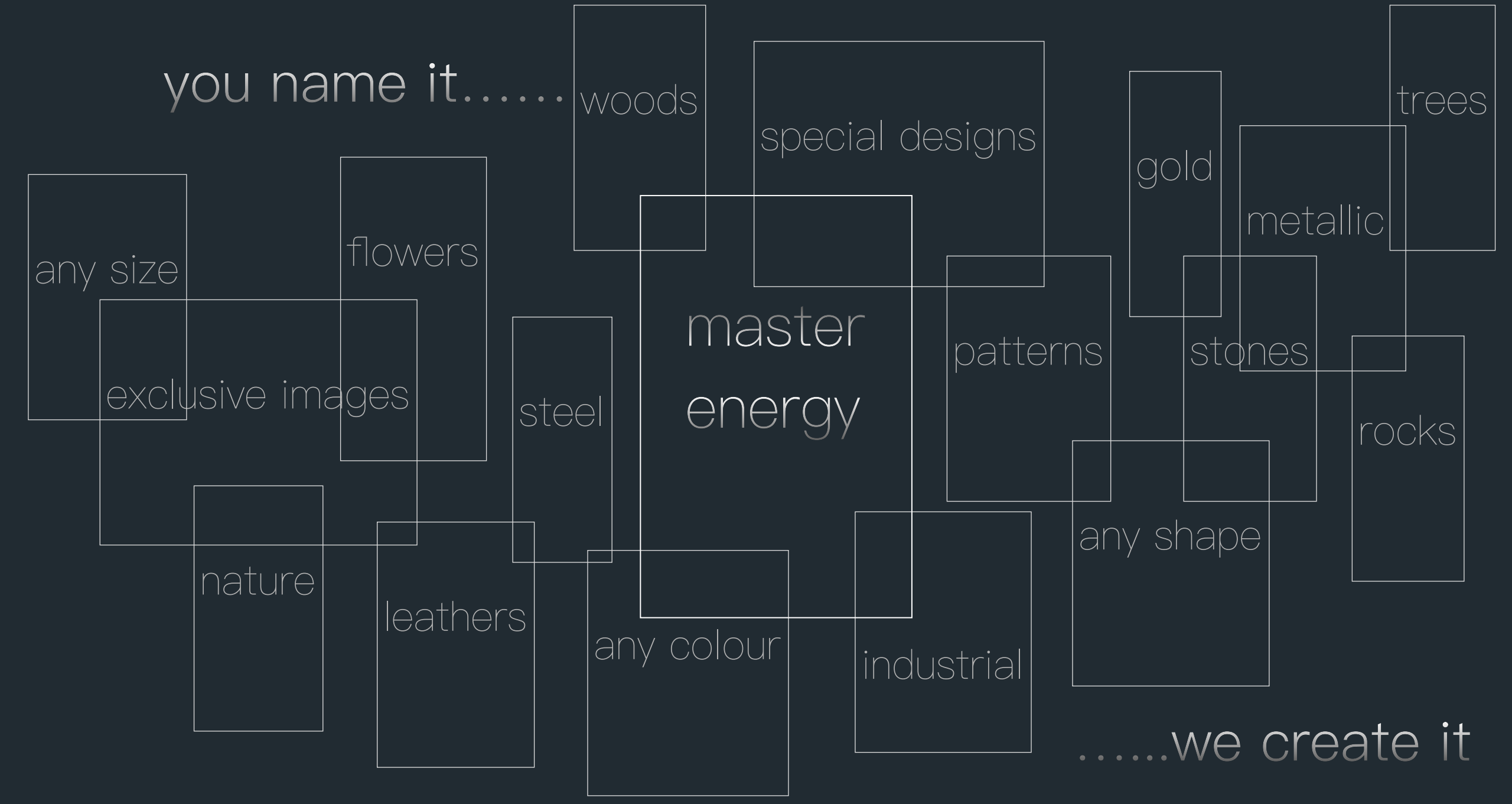
Sound Walls

Curtain Walls

Active Building Skins

Walkable Floor

Canopies & Shade House


you name it.....
woods
special designs
trees
gold
metallic
any size
flowers
exclusive images
steel
master
energy
patterns
stones
rocks
nature
leathers
any colour
industrial
any shape
.....we create it



Certified Manufacturing Excellence

We are committed to the highest standards of integrity, transparency, and technical excellence.

Our bids are structured to reflect the actual project requirements and technical specifications, ensuring full alignment with International Compliance Standards and ESG (Environmental, Social and Governance) reporting mandates.

We strictly adhere to anti-fraud and anti-corruption policies. Each bid is intended for the authentic implementation of the project and provides a reliable basis for Audit Committees, financial institutions, and certification bodies (e.g. LEED).

We do not participate in or facilitate practices that may misrepresent the project cost or jeopardize the legal status of the final investor or the structural integrity of the final construction.

The world's leading dual certifications holder for both: Electronics & Construction

Regulatory Compliance & Risk Management

Institutional Framework for High-Value Energy Infrastructure & Building Envelope Systems

1. Fiduciary Duty & Director's Liability (Duty of Care):
Under international corporate law and the Business Judgment Rule, executive officers bear personal liability for procurement decisions. Selecting a supplier exhibiting systemic financial instability or a downward trajectory in solvency, may be categorised as Breach of Fiduciary Duty or Gross Negligence in the event of future warranty default.

2. Anti-Money Laundering (AML) & Source of Funds Compliance:
Pursuant to EU Directive 2018/1673 and the 6th Anti-Money Laundering Directive, all major infrastructure projects are subject to strict Source of Funds verification. Suppliers maintaining operations despite persistent financial losses through opaque funding mechanisms are classified as "High-Risk Entities" by regulatory bodies. Procurement from such entities without exhaustive Know Your Business (KYB) verification exposes the Board to severe compliance risks and potential criminal liability.

3. EU Corporate Sustainability Due Diligence (CSDDD 2024/1760):
The EU CSDDD mandates that large-scale enterprises prioritize supply chain resilience. Opting for "lower-cost alternatives" from non-sustainable entities that lack certified Insolvency-Protected Reinsurance invalidates a company's ESG (Environmental, Social, and Governance) status. This oversight exposes the Board to regulatory penalties and litigation by shareholders seeking to protect asset value.

4. Foreign Subsidies Regulation (FSR – EU 2022/2560):
European law strictly prohibits the distortion of the internal market via non-EU state subsidies that allow non-market-performing bidders to offer artificially low prices. Contracts awarded to subsidised, non-market-performing bidders are subject to immediate annulment and heavy fines under the jurisdiction of the European Commission.

5. Professional Liability of Design & Lead Consultants:
Lead Architects, Engineers, and Project Managers carry professional civil liability for their specifications. The failure to conduct a rigorous Financial Due Diligence on manufacturers of 25-year components constitutes a professional oversight that shifts the legal liability for future system failure directly onto the consulting firm.

6. Compliance & Innovation Integrity:
In accordance with Article 107 TFEU and the General Block Exemption Regulation (GBER) 651/2014, EU funding is strictly dedicated to the incremental costs of Research & Development. To ensure fair competition, these grants must support the creation of new or significantly improved products and cannot be used as operating aid to subsidize the production or sale costs of existing commercial offerings. Adherence to these standards protects the project from potential audit risks and the mandatory recovery of funds."



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