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AKTIVNE FASADE

Predavač: mag.oec., Antonija Mušović

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Praksa

AGC Your Glass CR00001 22-11-2017

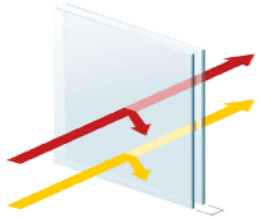
Vaš sastav:

Stratophone 88.2 (8 mm Planibel Clearvision + 0.76 mm clear acoustical PVB + 8 mm iplus Energy N on Clearvision pos.2) - 16 mm Argon 90% - 66.2 Stratophone Clearvision 2X Planibel Clearvision

Osobne napomene:

SVJETLOST	
Prijenos	75
Refleksija	12

Energija	
Solarni faktor	40
Refleksija	33



TOPLINSKA SVOJSTVA (EN 673)	EN 673
Ug-vrijednost - W/(m².K)	1.0

SVJETLOSNA SVOJSTVA (EN410)	EN 410
Prolaz svjetlosti - τv (%)	75
Refleksija svjetlosti - ρv (%)	12
Unutarnja refleksija svjetlosti - ρvi (%)	14
Usklađenost boja - RD65 - Ra (%)	96

ENERGETSKA SVOJSTVA	EN 410	ISO 9050
Solarni faktor - g (%)	40	37
Refleksija energije - ρe (%)	33	34
Direktna propusnost energije - τe (%)	38	35
Solarna apsorpcija stakla 1 - αe (%)	29	30
Solarna apsorpcija stakla 2 - αe (%)	0	1
Ukupna apsorpcija energije - αe (%)	29	31
Koeficijent osjenčanosti (g) - SC	0.46	0.43
UV propusnost - UV (%)	0	
Selektivnost	1.88	2.03

DRUGA SVOJSTVA	
Otpornost na vatru - EN 13501-2	NPD
Reakcija na vatru - EN 13501-1	NPD
Otpornost na metke - EN 1063	NPD
Otpornost na provale - EN 356	P1A - P2A
Otpornost na udarce klatnom - EN 12600	1B1 / 1B1

AKUSTIČNA SVOJSTVA	
Direktna zvučna izolacija(Rw (C;Ctr) - EN 12758) - dB	52 (-1; -5)(1)

DEBLJINA I TEŽINA	
Nominalna debljina (mm)	45.52
Težina (kg/m²)	72

The data are calculated using spectral measurements that are conform to standards EN 410, ISO 9050 (1990) and WIS/WINDAT.
The Ug-value (formerly k-value) is calculated according to standard EN 673. The emissivity measurement complies with standards EN 673 (Annex A) and EN 12898.
This document is no evaluation of the risk of glass breakage due to thermal stress. For tempered glass: the risk of spontaneous breakage due to Nickel-Sulfide is not covered by AGC Glass Europe. The Heat Soak Test is available on request.
Specifications, technical and other data are based on information available at the time of preparation of this document and are subject to change without notice. AGC Glass Europe can not be held responsible for any deviation between the data introduced and the conditions on site. This document is only informative, in no way it implies an acceptance of the order by AGC Glass Europe.
See also conditions of use.
(1)These sound reduction indexes correspond to glazings which are 1,23 by 1,48m according to EN ISO 10140-3 and are tested in laboratory conditions. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources etc. The accuracy of the given indexes is not better than +/- 1dB.
(2)These sound reduction indexes are estimated (no test).They correspond to glazings which are 1,23m. by 1,48 m. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources etc. The accuracy of the given indexes is +/- 2dB.

www.yourglass.com © 2016 AGC Glass Europe AGC GLASS UNLIMITED



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Prozirno



Vision Square

- Klasično riješenje
- Mono PERC or bifacial cells
- Facade, duple fasade, nadstrešnice, krovovi ,…



Vision Stripe

- Laser cut PERC mono cells
- Facade or roof application
- Most efficient transparent technology

Neprozirno



SunEwat Black

- Najefikasnija neproyirna tehnologija
- Potopuno crna fasada
- Refleksivno ili mat staklo



SunEwat Colour

- Selective transmission paint
- Uniform aspect
- Colour on demand



SunEwat Design

- Fully customizable design
- Rasterization methods
- Catalog of standardized design



Stopray Active

- AGC Stopray coating match
- Integrated architectural design
- Reflectiveness

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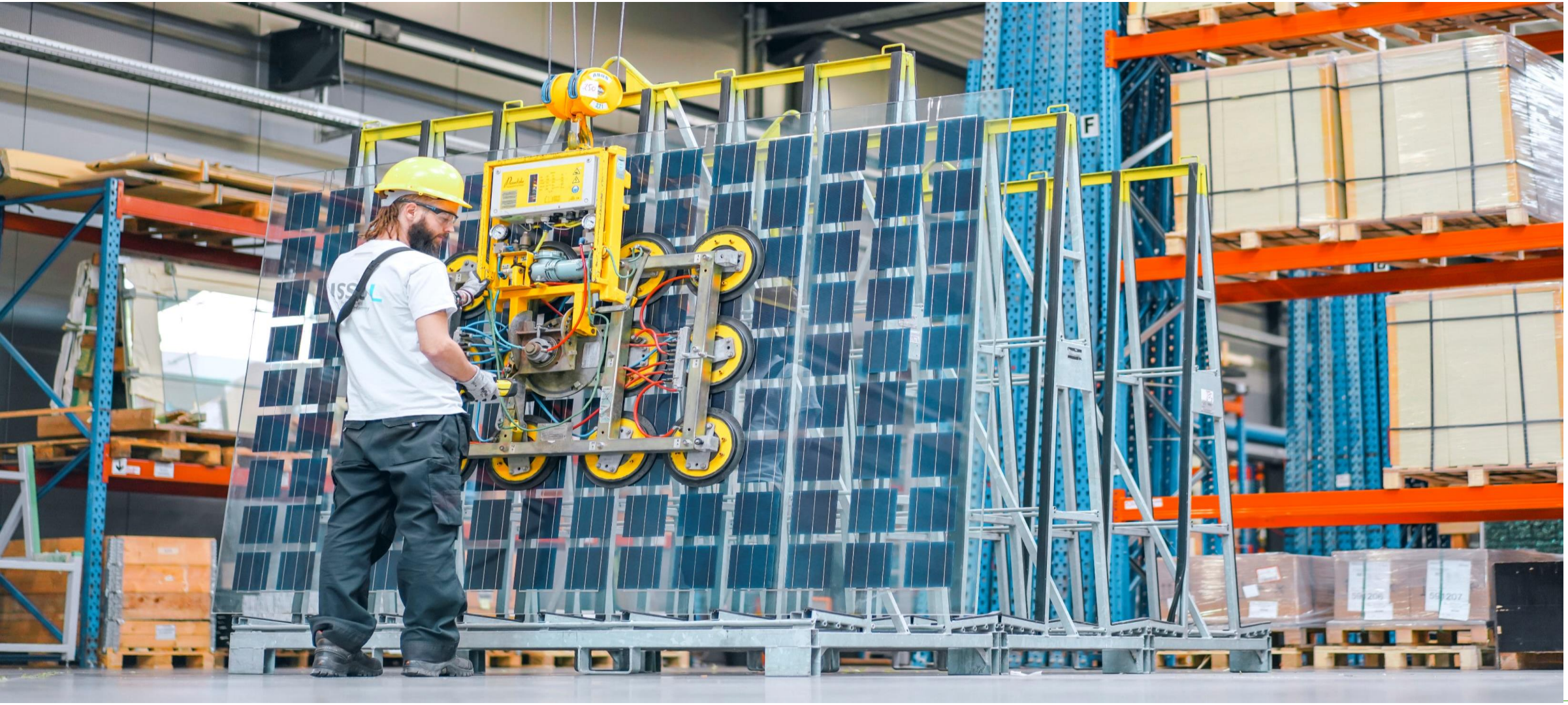
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Max Moore
Buikslotheram, Netherlands
2022

Architects: Mei architects & planners, Being Pleijsier Bouw & BENG Solar

Product : SunEwat Colour
Production Plant : Intelligent Solar



Max Moore
Buikslotheram, Netherlands
2022

Architects: Mei architects & planners, Being Pleijsier Bouw & BENG Solar

Product : SunEwat Colour
Production Plant : Intelligent Solar

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Bruxelles – Belgium
2021

Architectes: Jaspers-Eyers
BESIX - Befimmo

Product : Lacobel T Active
Production Plant : Soltech (BE)

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WTC Zin
Brussels – BE
2021

Befimmo-51N4E
Jaspers-Eyers & Partners
Products :
- *Lacobel T Active Black*
- *Vision Square*

Production Plant: ISSOL (BE)

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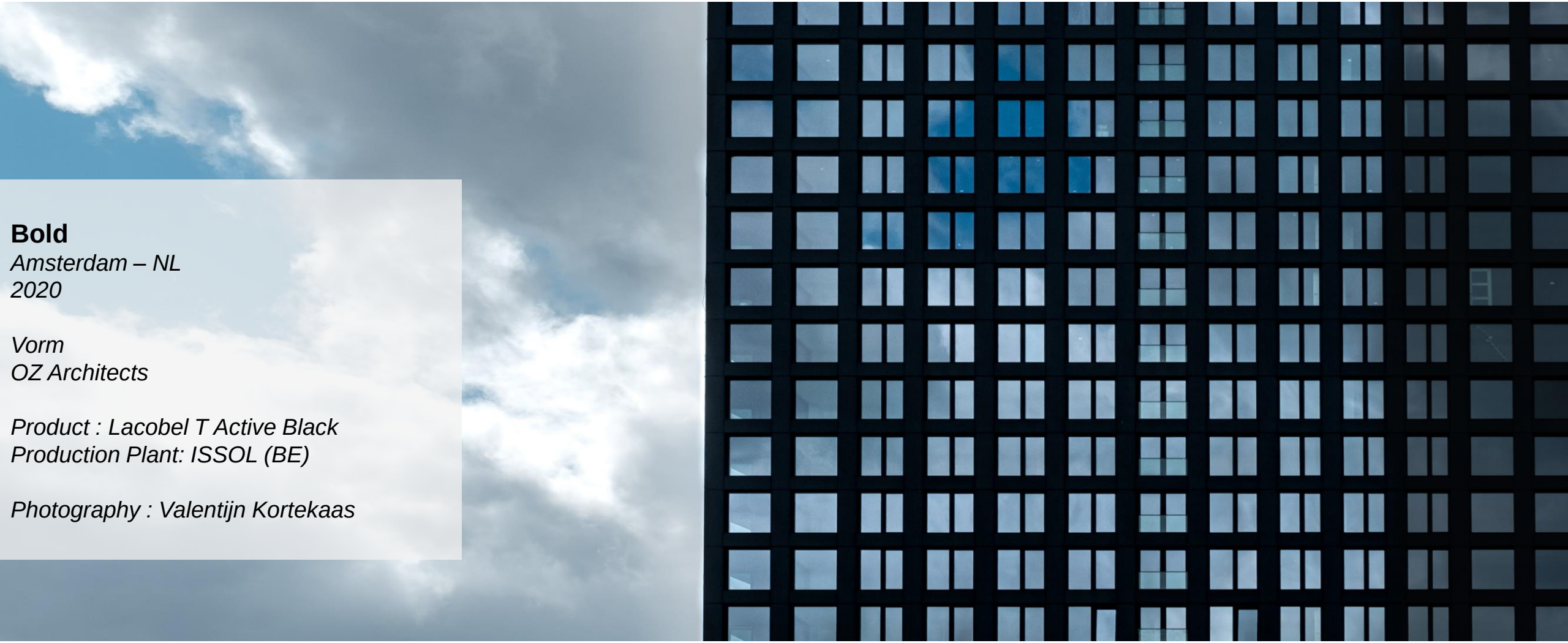
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Bold
Amsterdam – NL
2020

Vorm
OZ Architects

Product : Lacobel T Active Black
Production Plant: ISSOL (BE)

Photography : Valentijn Kortekaas

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AGC Research Center
Charleroi – Belgium

© ASSAR Architects

Product : Vision Square



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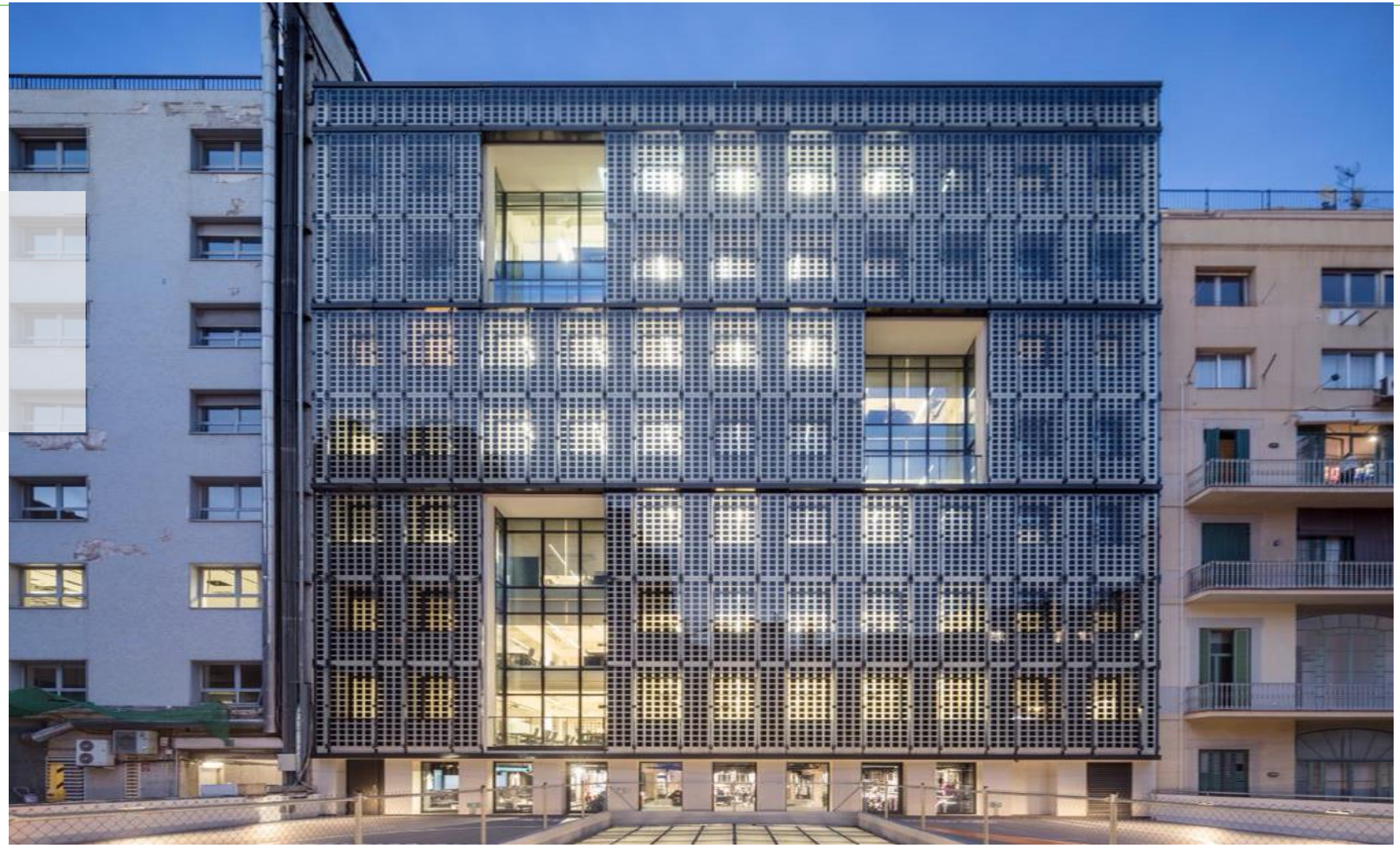
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Paseo de Gracia (Hines)
Barcelona – Spain

Tecalum Sistemes S.L.U.
Product : Vision Square



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Mercat Nou de Sant Andreu (Hines 2)
Barcelona – Spain

Tecalum Sistemes S.L.U.
Product : Vision Square

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ING Bank Office
Louvain-la-Neuve – BE
2021

Architect : Jaspers-Eyers & Partners
Product Vision Square
Production Plant: ISSOL (BE)

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TNO
Petten - Netherlands

Architect : RHDHV
Artwork: Marjan Van Aubel

Product : Artlite Active

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Bota Solar
Brussels – Belgium
2021

Architectes: Ney & Partners / Sunsoak Design
Stefano Immo

Product : SunEwat Vision Square
Production Plant : ISSOL (BE)

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Gare Maritime
Brussels - Belgium

Renewable technology and 1870 facade belong together.
Extensa Group
Architect : Neutelings Riedijk Architecten
Photo : Filip Dujardin
Product : Vision Square IGU
Production Plant: ISSOL (BE)

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S33
Oslo – Norway

LPO Architects

Product : Vision Square
Production Plant: ISSOL (BE)

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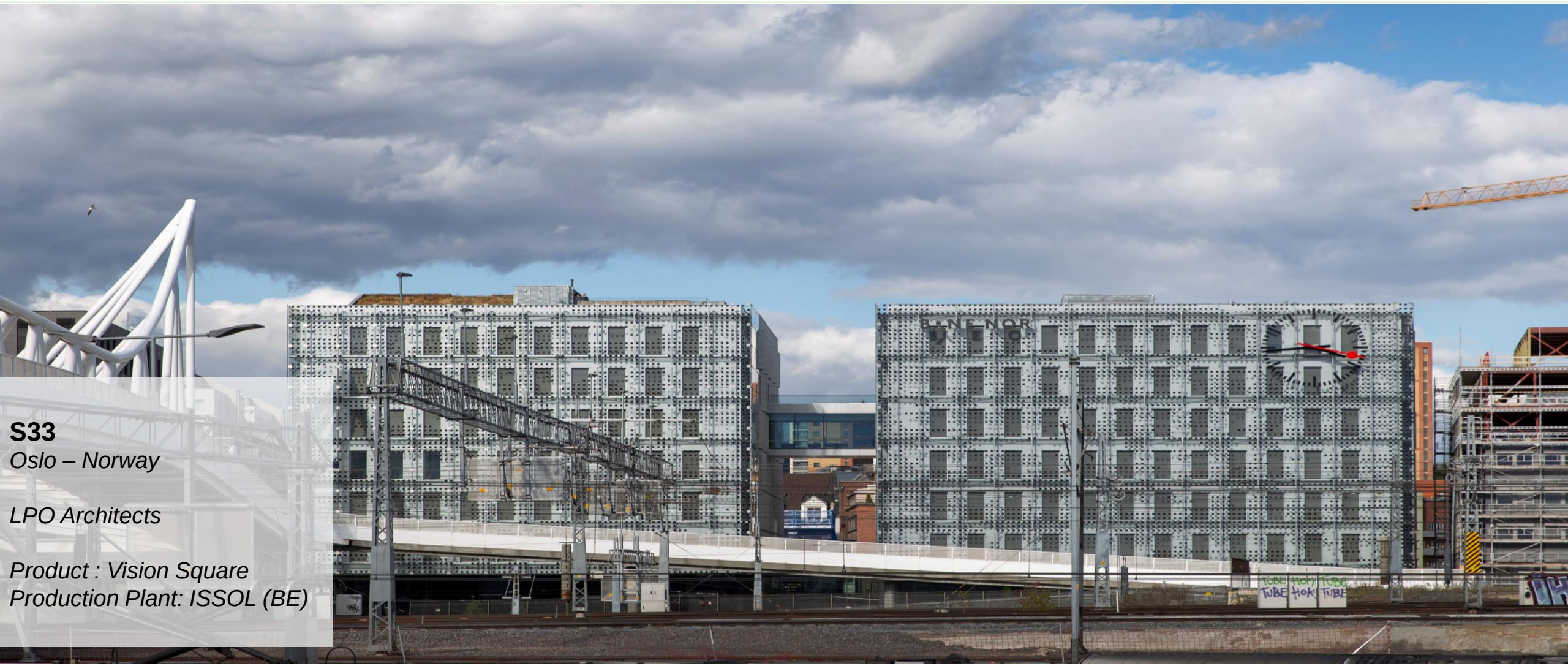
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Paix-Dieu
Amay - Belgium

Product : Vision Square
Production Plant : ISSOL (BE)

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Tour Mohammed VI
Rabat - Maroc

Besix
Architect : **Rafael de la Hoz**
Product : Lacobel T Active White
Production Plant: On going

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Shell Headquarter
Amsterdam – The Netherlands
2020

Product : Artlite Active
Production Plant : Soltech (BE)



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High-speed rail station and transit hub

Kenitra – Morocco
2019

Sivio D'Ascia Architecture

Product : Vision Square
Production Plant : Soltech (BE)



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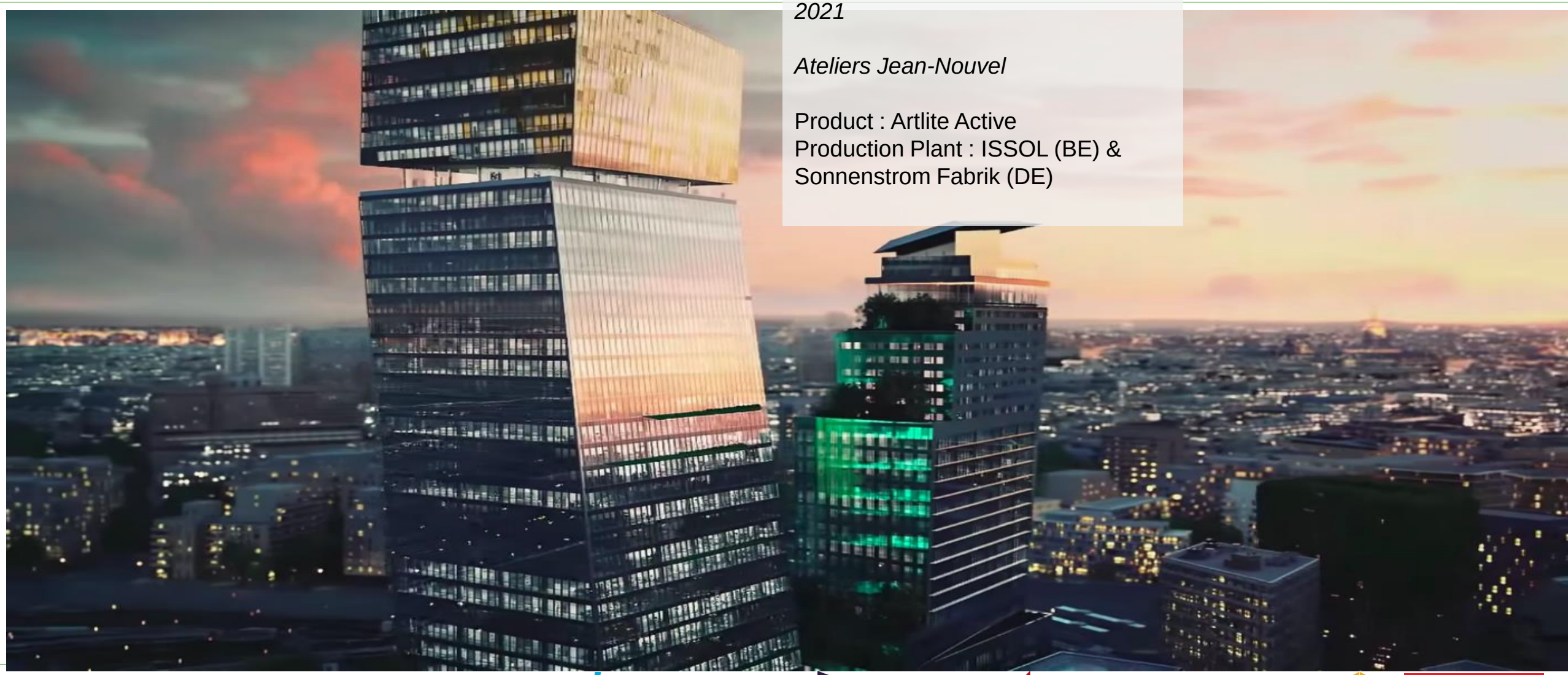
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Tour Duo
Paris – France
2021

Ateliers Jean-Nouvel

Product : Artlite Active
Production Plant : ISSOL (BE) &
Sonnenstrom Fabrik (DE)



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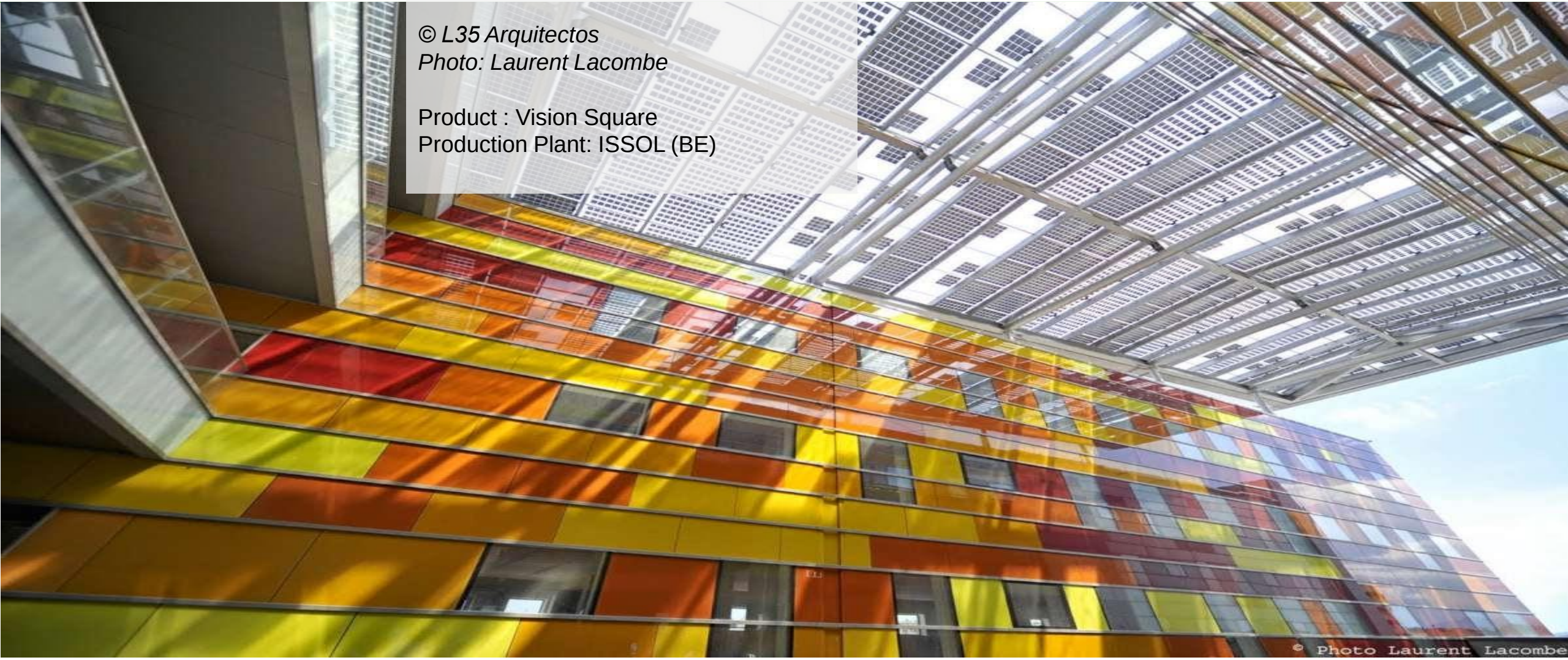
KLASTER nZEB.hr

Perpignan SNCF Train Station

Perpignan – France
2010

© L35 Arquitectos
Photo: Laurent Lacombe

Product : Vision Square
Production Plant: ISSOL (BE)



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Nivelles Swimming Pool

Nivelles – Belgium

Architect: ARCADUS

Product : Vision Square IGU
Production Plant: ISSOL (BE)



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Cité Musicale de L'Île Seguin

Paris – France
2016

TCE Solar and Bouygues Constructions
Architect : Shigeru Ban

Product : Vision Square
Production Plant: ISSOL (BE)



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Ministery of Defense

Paris – France

ANMA – Nicolas Michelin et Associés

Product : Lacobel Black
Production Plant: ISSOL (BE)



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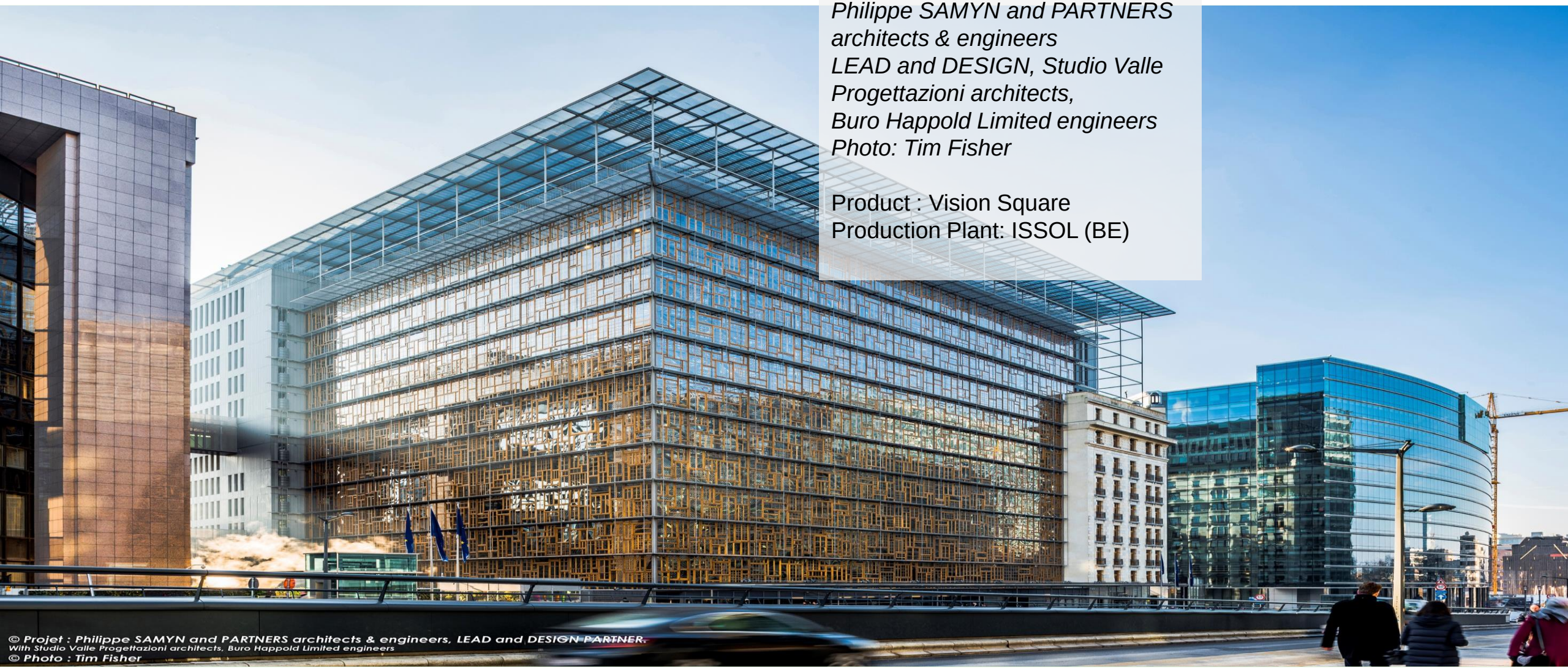
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European Council
Bruxelles – Belgium

Philippe SAMYN and PARTNERS architects & engineers
LEAD and DESIGN, Studio Valle Progettazioni architects,
Buro Happold Limited engineers
Photo: Tim Fisher

Product : Vision Square
Production Plant: ISSOL (BE)



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Eurospace Center
Libin – Belgium

Architect: Philippe SAMYN and PARTNERS architects & engineers

Product : Vision Square IGU
Production Plant: ISSOL (BE)



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Breeze Hotel
Amsterdam – NL
2019

Architect: OZ

Product : Lacobel Black
Production Plant: ISSOL (BE)



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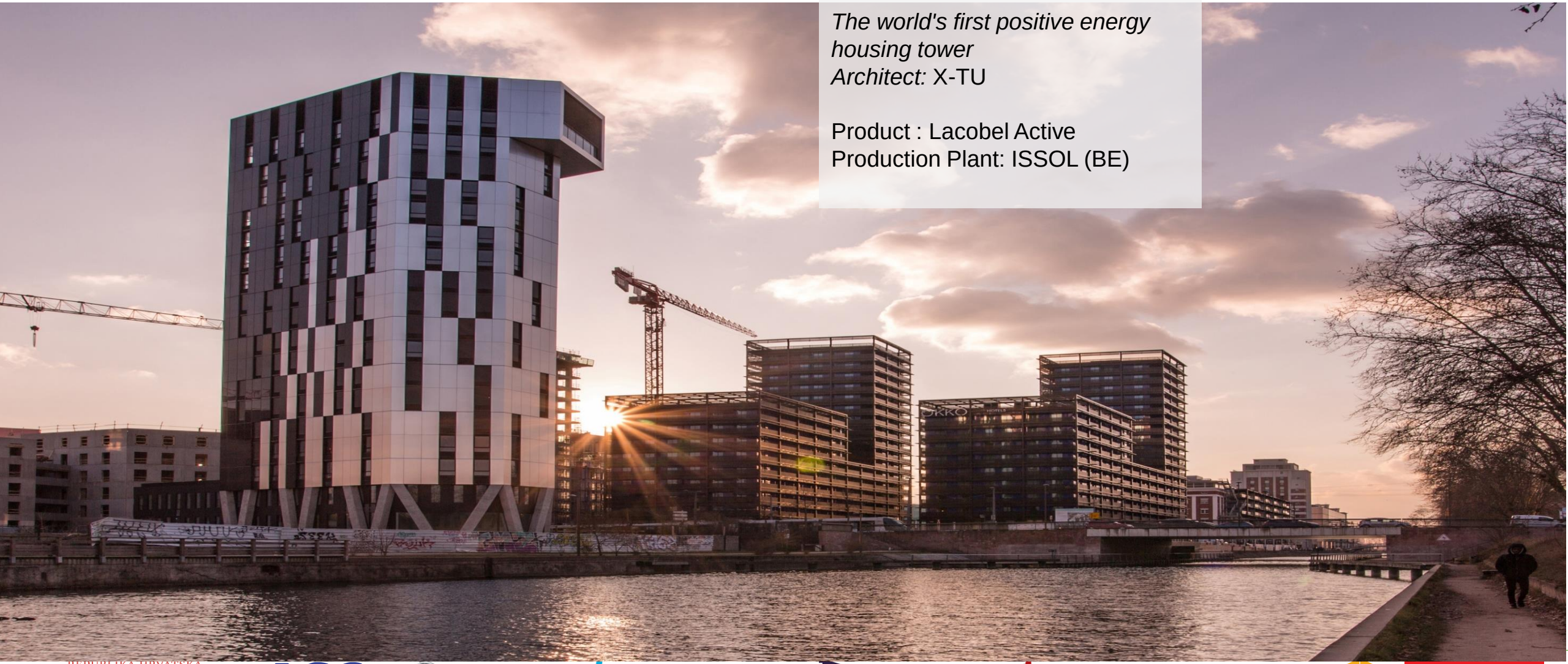
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Elithis Tower
Strasbourg – France
2018

The world's first positive energy housing tower
Architect: X-TU

Product : Lacobel Active
Production Plant: ISSOL (BE)



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Utrecht Museum

Utrecht – NL

Mijn Energie Fabriek

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Production Plant: ISSOL (BE)



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Brussels Environment Building

Brussels – Belgium

Cepezed / Philippe SAMYN and PARTNERS Architects & Engineers
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Product : Lacobel Active
Production Plant: ISSOL (BE)



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Union Eiendomsutvikling
Drammen – Norway

© Arch. Ingebjørg Lien, LOF Arkitekter as

Product : Lacobel Active
Production Plant: ISSOL (BE)



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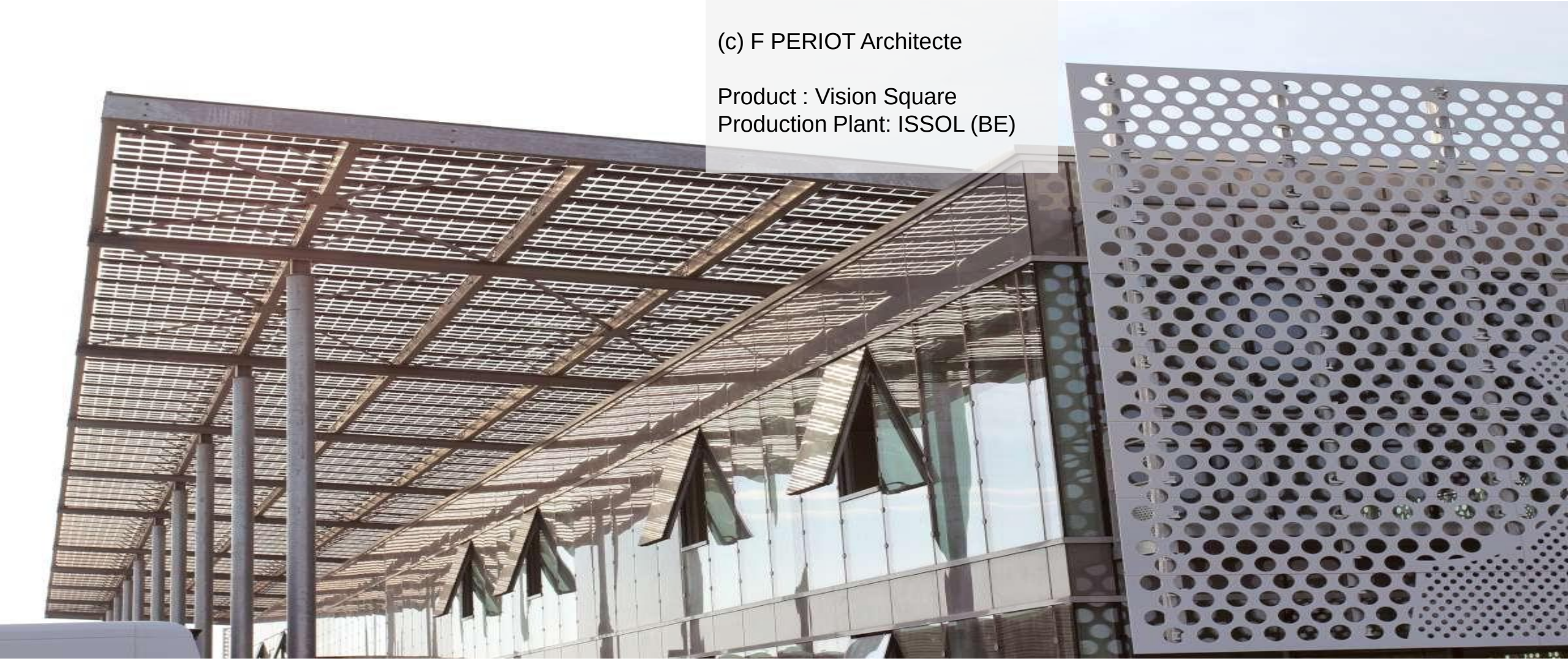
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Beneteau
Givrand – France

(c) F PERIOT Architecte

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Production Plant: ISSOL (BE)



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SPW Namur
Namur – Belgium
2017

Atelier d'Architecture Thierry Lanotte

Product : Vision Square
Production Plant: ISSOL (BE)



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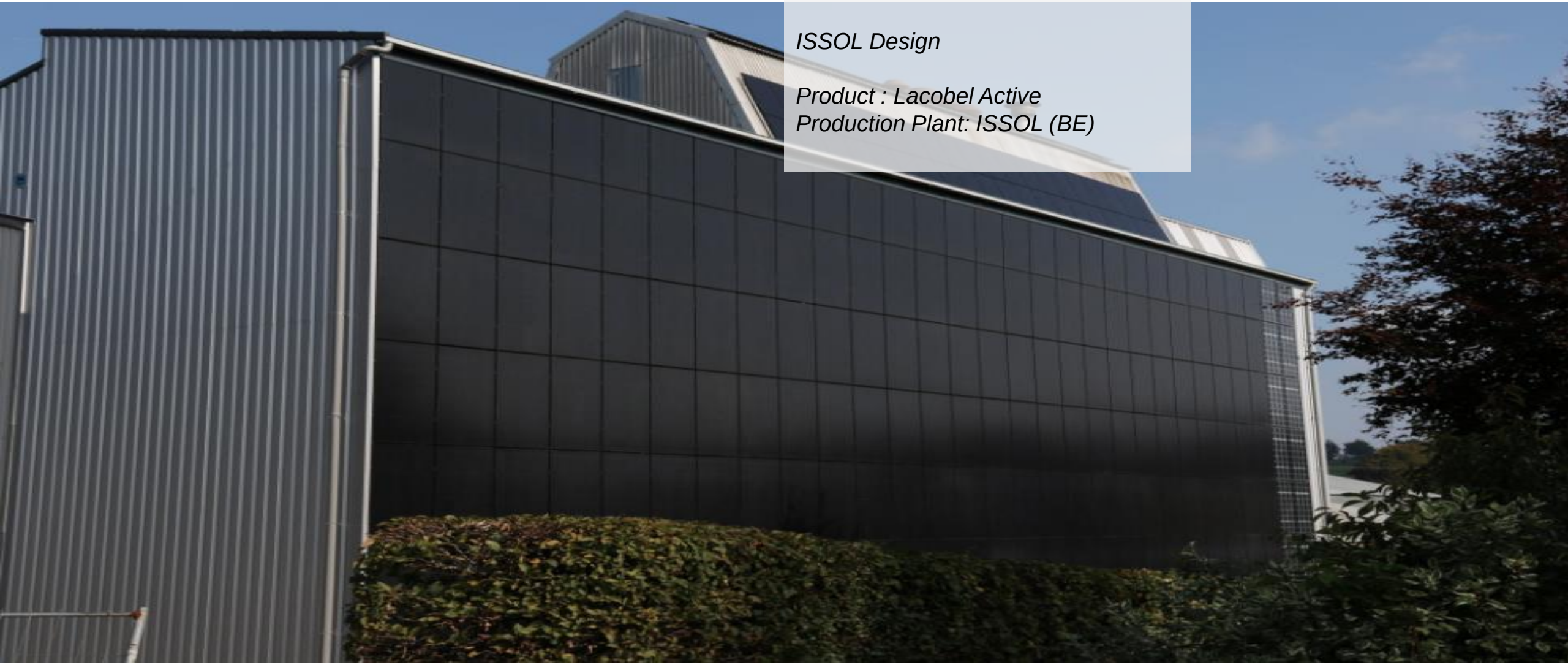
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SCAR SA
Bullange – Belgium

ISSOL Design

Product : Lacobel Active
Production Plant: ISSOL (BE)



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Wismar Canopy

Aix en Provence - France

Product : Vision Square
Production Plant:
Sonnenstrom Fabrik (DE)



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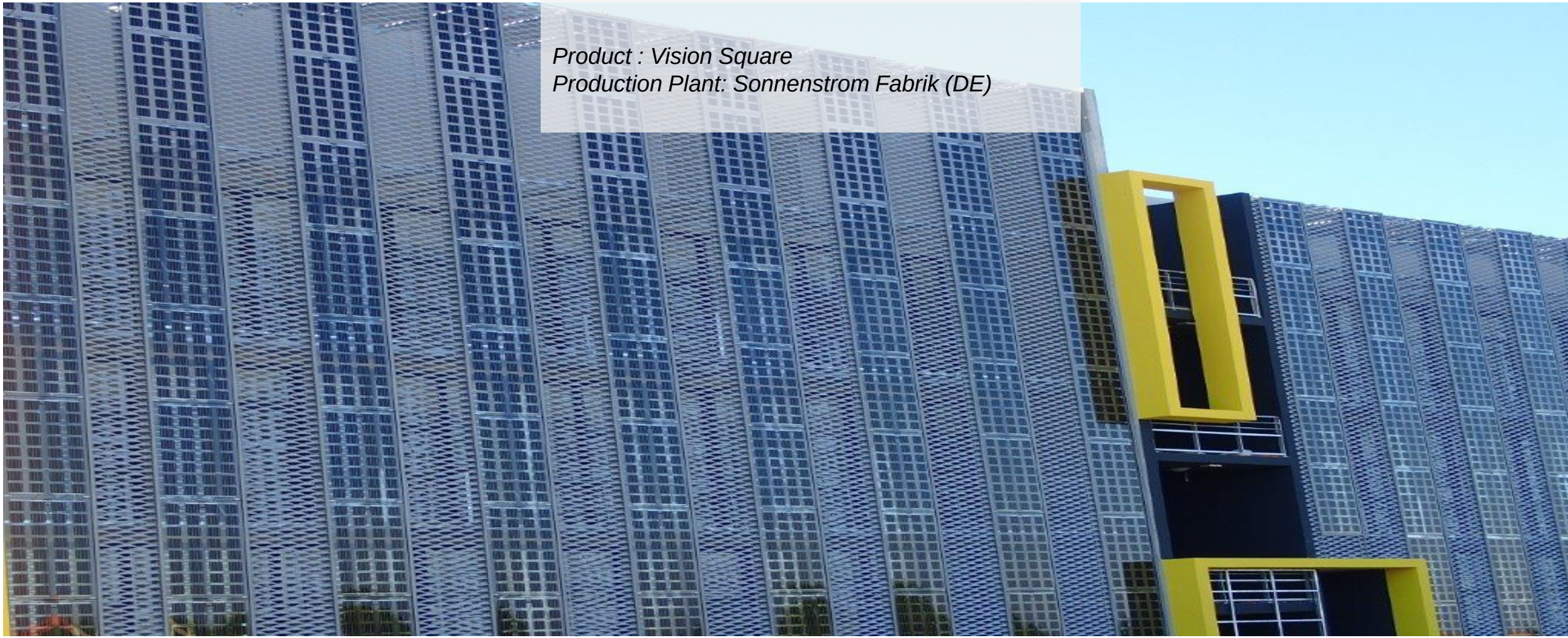
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Wismar Facade

France

Product : Vision Square
Production Plant: Sonnenstrom Fabrik (DE)



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Brynsengfaret School
Oslo – Norway

© HRTB Arkitekter

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Production Plant: ISSOL (BE)



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SunEwat IGU Windows

Tokyo - Japan

SunEwat Vision Square on top part of the windows to generate energy while keeping full transparent sight.

Product : Vision Square IGU



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New Courthouse of Justice of Paris
Paris – France

Renzo Piano L'autre image, Labtop et Lansac, RPBW

Product : Vision Square
Production Plant: ISSOL (BE



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Greenhouse VERTDECO

Kerkrade – The Netherlands

Thermoflor Construct B.V.

Product : Vision Square
Production Plant: ISSOL (BE



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Binck Kade
La Haye - NL

Klunder Architecs.

Product : SmartSkin
Partner: Physee



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Hikari Building

Lyon - France

Second skin covering a part of the facade in Vision square. First positive energy building in Europe, housing offices, shops and apartments

Product : Vision Square



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Zaryadye Park

Moscow - Russia

Zaryadye Park protects its visitors from the rain and cold but also generates energy thanks to SunEwat Vision Square cells.

Product : Vision Square



© AGC Glass Europe

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Ecole Hotellière
Monaco

Product : Vision Square



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Kashima Plant

Kashima – Japan

The Vision Stripes is used at the front side of the main office building in order to realize a transparent look while maintaining high efficiency of the power generation

Product : Vision Stripes



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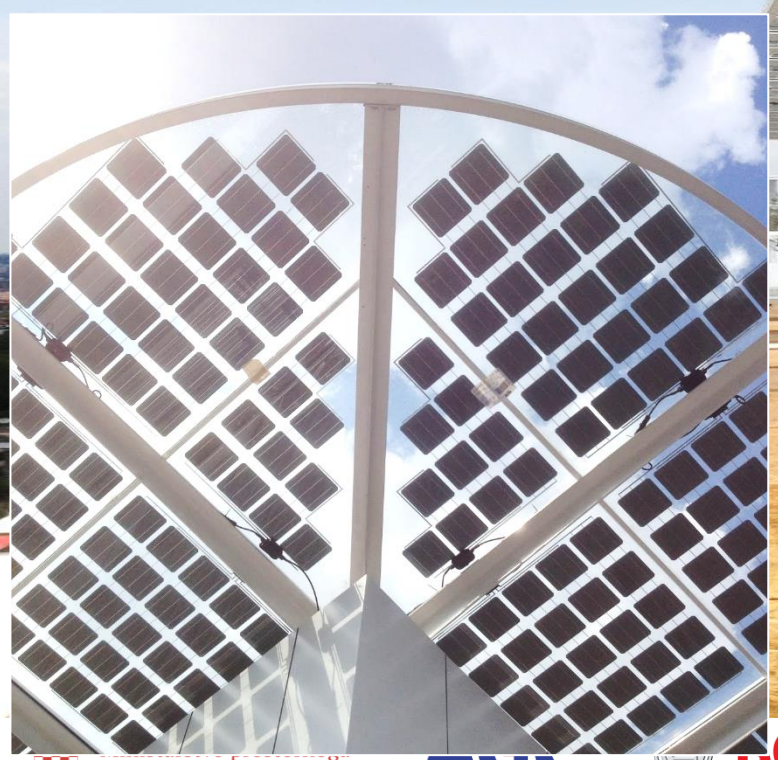
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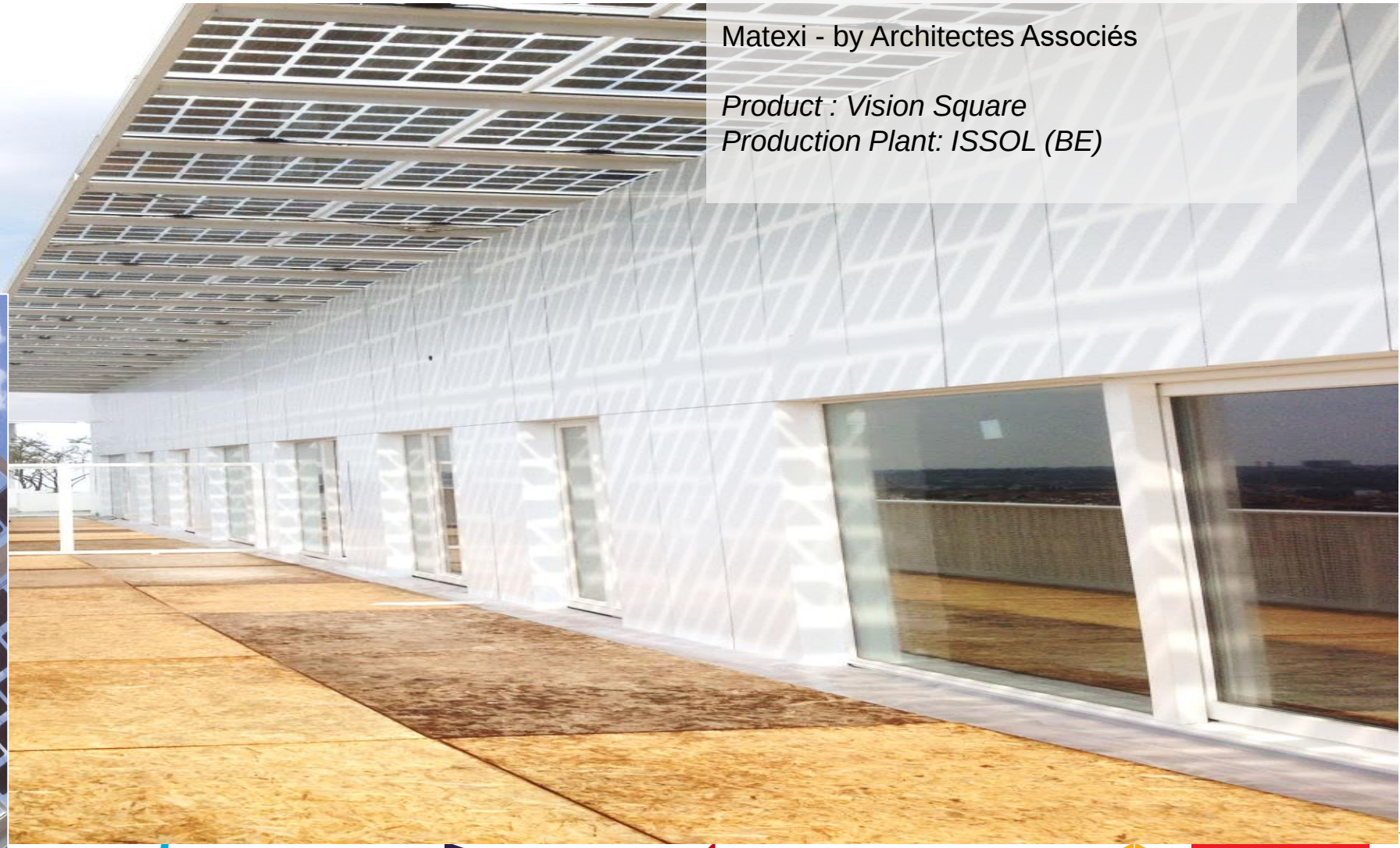
Leopold Views

Brussels - Belgium

Matexi - by Architectes Associés

Product : Vision Square
Production Plant: ISSOL (BE)





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Greenbizz
Brussels – Belgium
2017



Architectes Associés

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Super Plastic SA *Liège – Belgium*
2015

© Vincent Boveroux Architect

Product : Lacobel Black
Production Plant: ISSOL (BE)



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Carpark Canopy

Milan – Italy

Car park is partly shaded while producing its own energy.

Product : Vision Square





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Solal Building

Dijon – France

GDF Suez
(c) Phileas Atelier d'Architecture

Product : Vision Square
Production Plant : ISSOL (BE)



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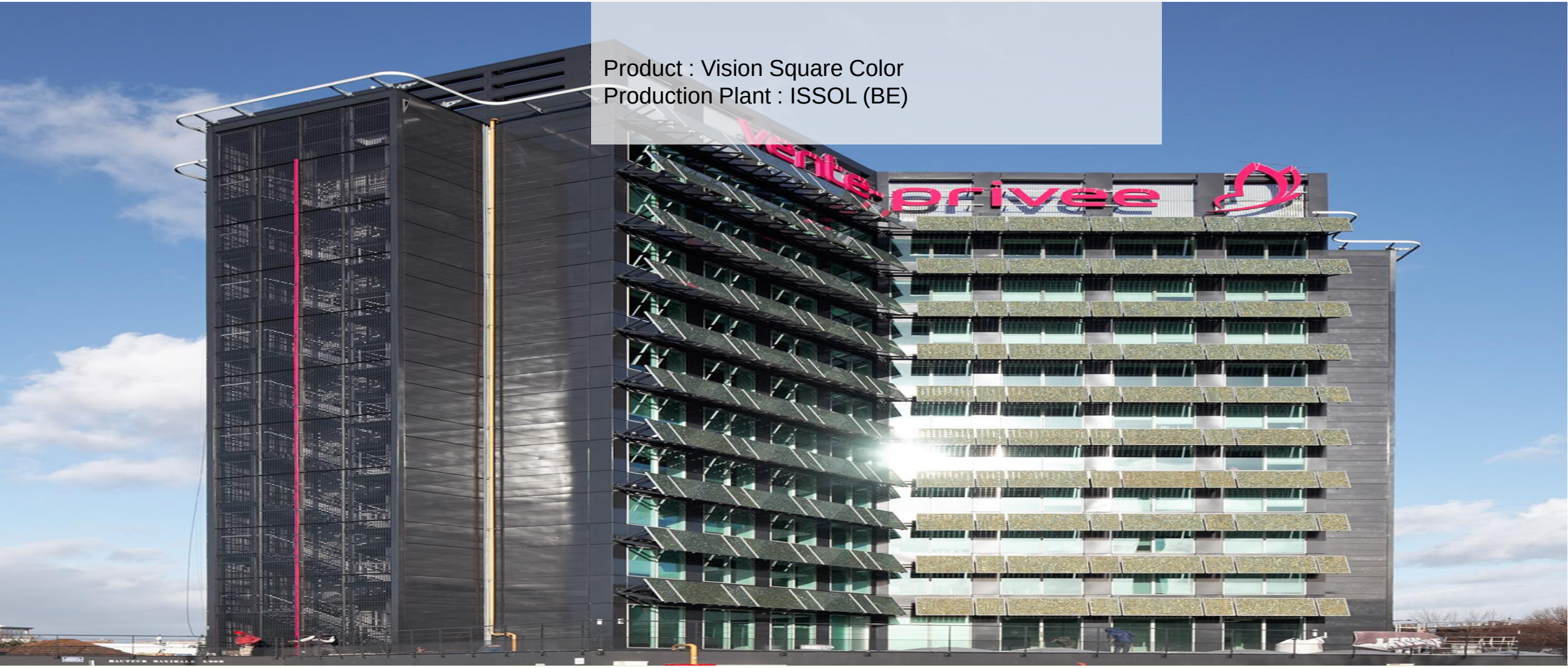
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Tour Vente Privée

Paris – France

Product : Vision Square Color
Production Plant : ISSOL (BE)



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Axa – Assar Architects

Product : Lacobel Active
Production Plant : ISSOL (BE)



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NCC Headquarter
Solna – Sweden

White Architects

Product : Lacobel Active
Production Plant : ISSOL (BE)

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Belgian Pavillon
Namur – Belgium
2015

Patrick Genard Architect
Besix-Vanhout THV

Product : Vision Lines
Production Plant : Soltech (BE)



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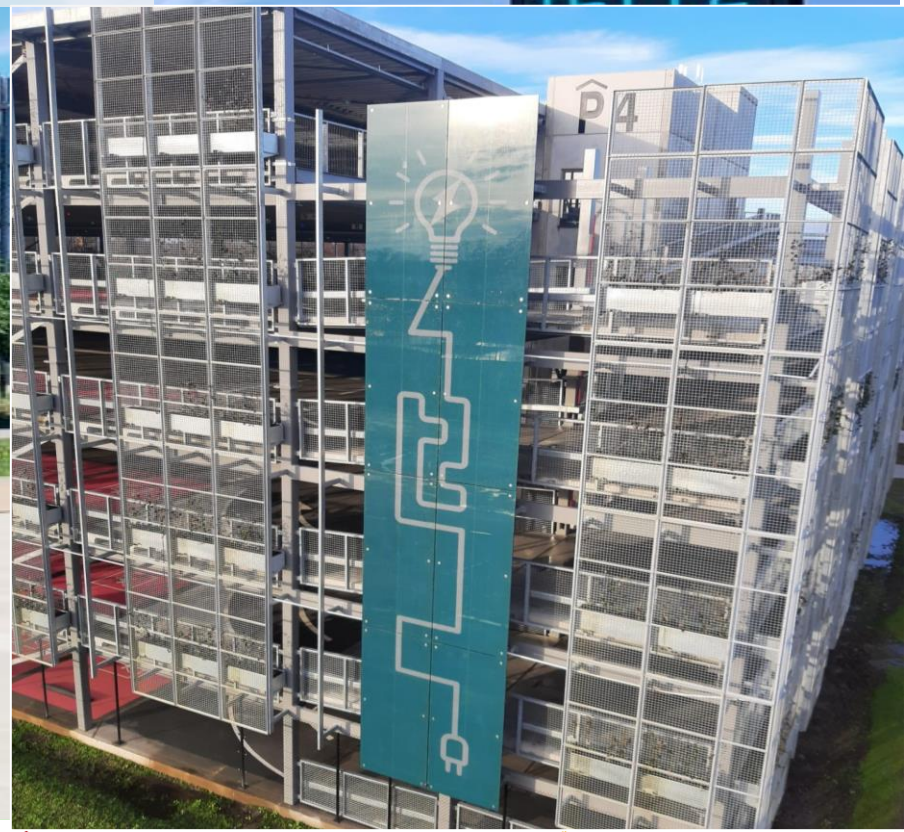
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Thor Park
Genk – Belgium

Architect : AIM arcitects in motion
Builder : STRABAG
Installation: OMD-Glaswerken

Product : Artlite Active
Production Plant : Soltech (BE)





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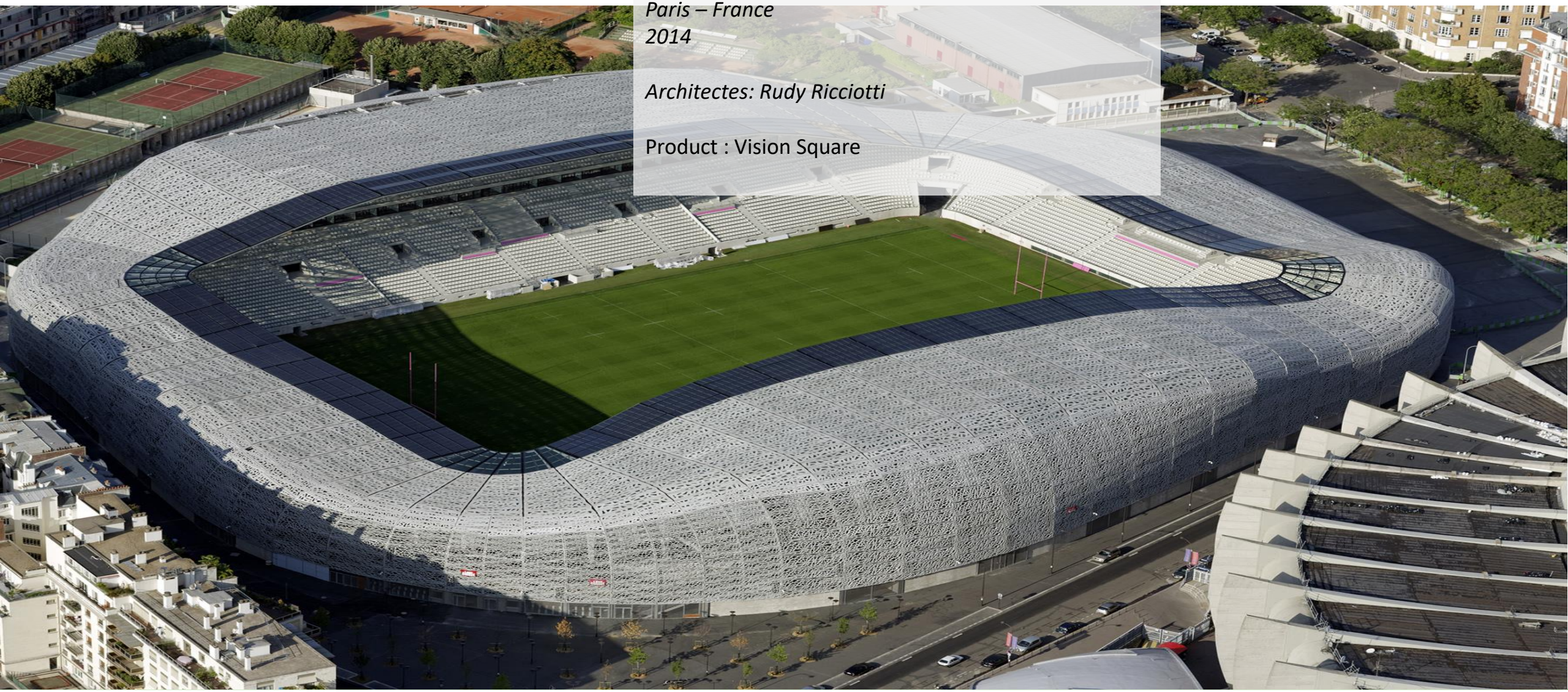
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Stade Jean-Bouin

Paris – France
2014

Architectes: Rudy Ricciotti

Product : Vision Square



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Environmental Protection Office
Gdańsk – Poland
2015

Architect: A Plan Bis Sp. z o.o.
Facade Maker: Stefania

Product : Vision Square



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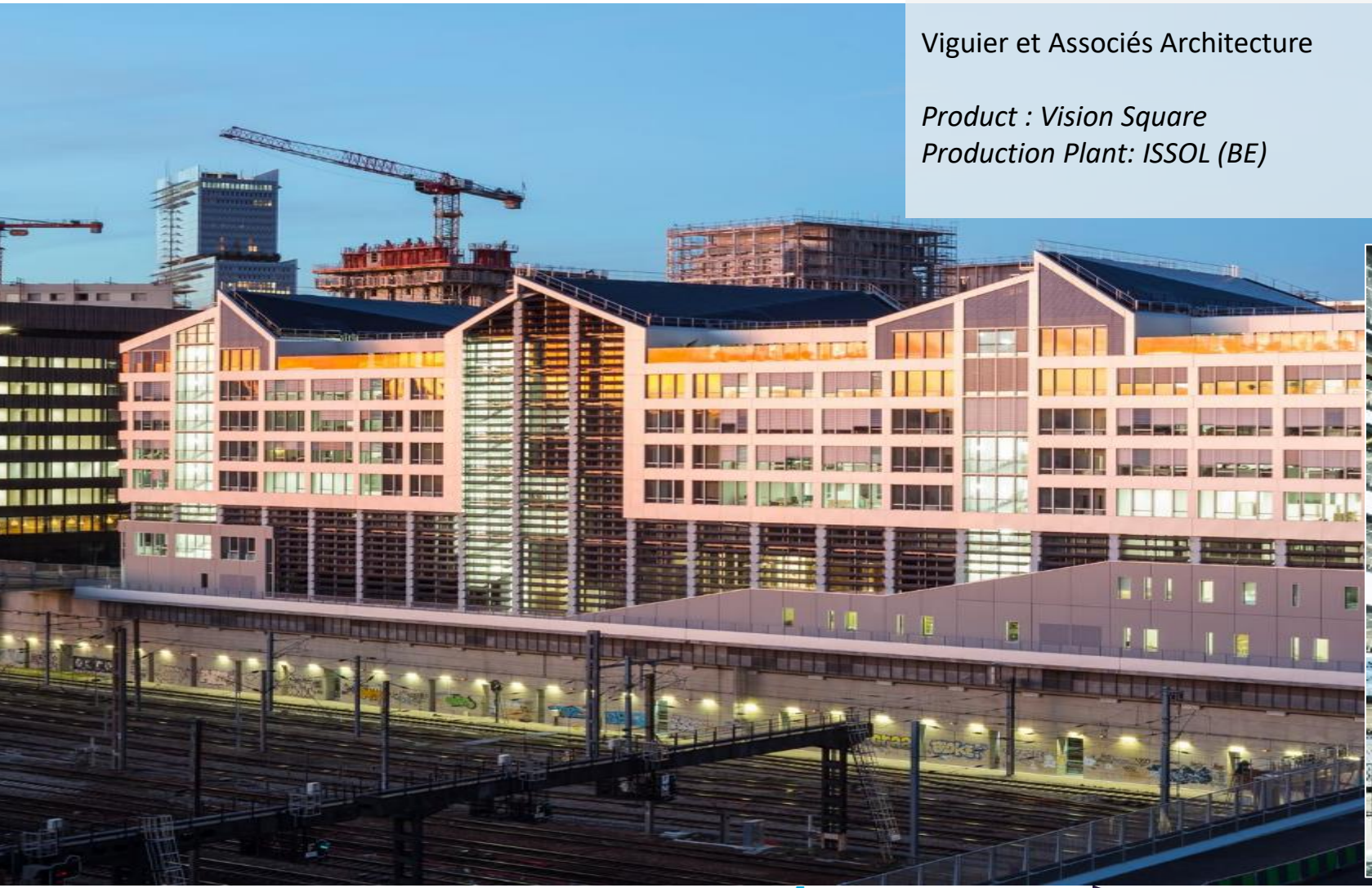
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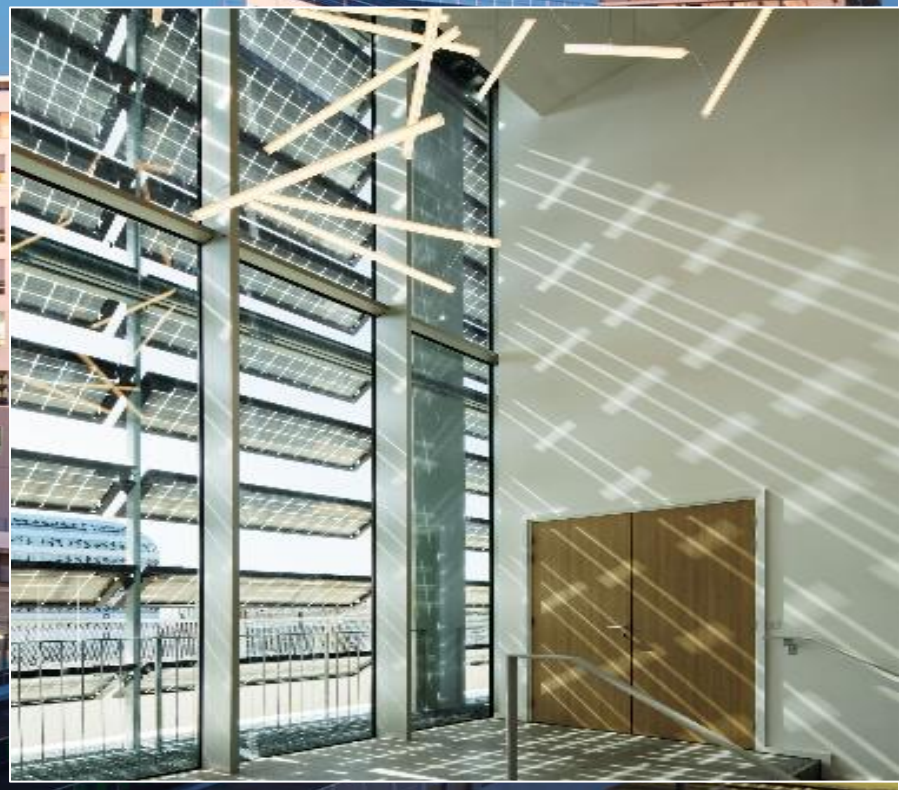
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Season
Clichy-Batignolles - France

Viguier et Associés Architecture

Product : Vision Square
Production Plant: ISSOL (BE)





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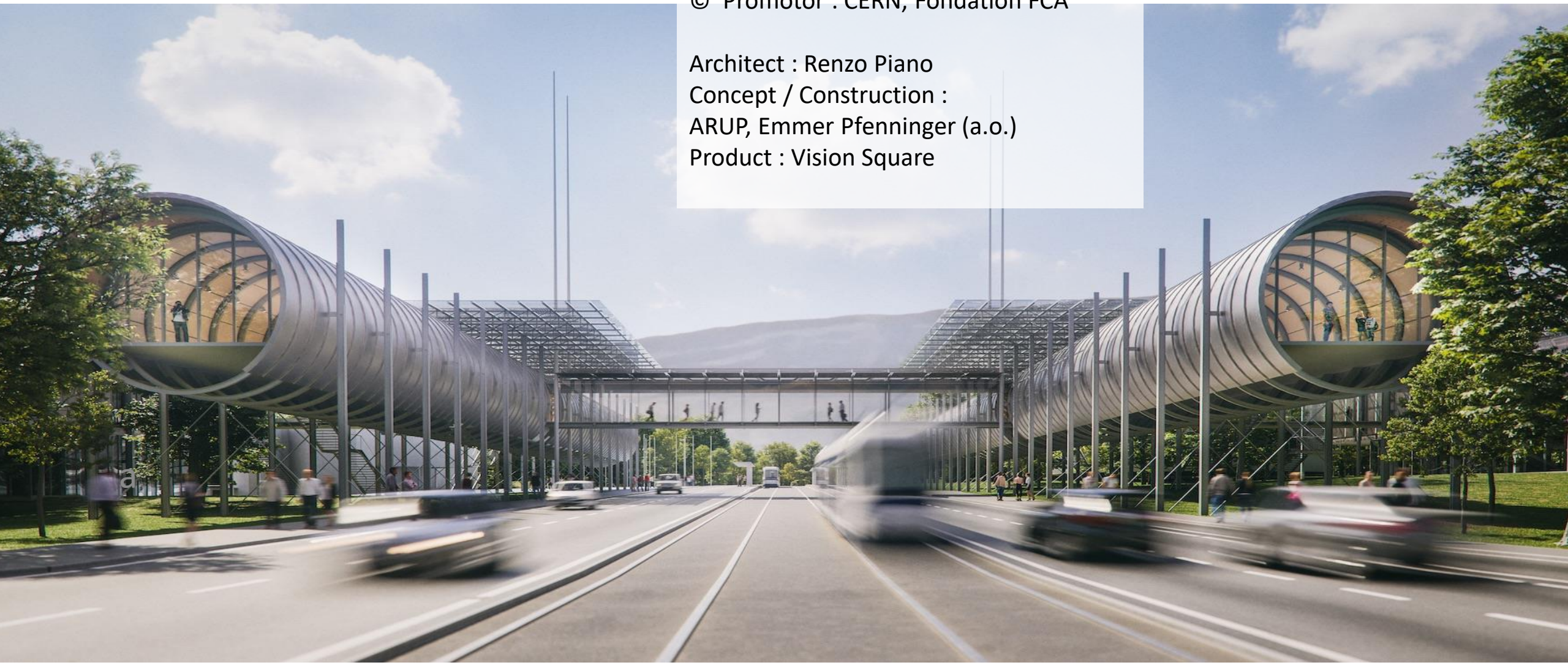
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Science Getaway
Switzerland
© Promotor : CERN, Fondation FCA

Architect : Renzo Piano
Concept / Construction :
ARUP, Emmer Pfenninger (a.o.)
Product : Vision Square



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