# Think Trespa

Experience

## AFFORDABLE HOUSING

Modern homes for Aspen Police Department's employees.

Imagine

## ARCHITECTURAL INTERVIEW

Three renowned architectural firms reflect on the future.

Build

## HEALTHCARE INFRASTRUCTURE

Durable hospitals and rehabilitation centres in Chile.

Trust

## THE NEXT 60

Celebrating Trespa's past, present and future.

INSIDE OUT

# REINVENTING URBAN LIFE

60 YEARS

**Façades That Tell a Story** #06. 2020

TRESPA®


TRESPA® METEON®
**LUMEN**

**L1245**
California Red

To experience the effect of the Lumen finishes, we advise to order samples.

This year, we are celebrating Trespa's 60th anniversary. This achievement is a testament of a long-track record of generations of people who have contributed to make this company what it is today. Trespa would not be a leading company in the market without the people who have worked collectively through the last six decades.

In addition, this anniversary would not be possible without the customers who have supported us through the years by buying our materials and believing in our products. These have been 60 years of growing business relationships and partnerships with our customers. We are respectfully grateful to our customers putting trust in Trespa and its products every day!

"The future of Trespa will continue to be in line with its history: innovation and technological capability as the foundation of our business."

The future of Trespa will continue to be in line with its history: innovation and technological capability as the foundation of our business. Our efforts and investments in search for new surface material solutions will continue. NEMHO, the newly founded centre of excellence for innovation that leads the research and development for Trespa, Arpa, Formica and Westag will be opened in the same year as Trespa will be celebrating its 60th anniversary. In NEMHO an array of new R&D capabilities will be created. What we will offer to the market over the next couple of years will be the direct result of our continued focus on innovation.

André Horbach
CEO, Trespa International B.V.

# CONTENTS

## Experience







## Imagine



## Build



How the benefits of 'prefab' are reaching a wider audience.



Chile is investing in sustainable and efficient hospitals and rehabilitation centres.



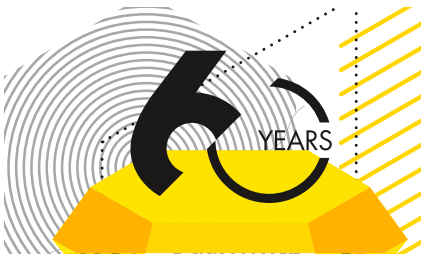
With this programme, Trespa aims to increase the circularity of its Trespa® Meteon® panels.

## Trust



Headquartered in Weert, this multidisciplinary team is leading the development of cutting-edge products for Trespa and its sister companies.






Past, present and future. Celebrating Trespa's 60th anniversary.

## More

**CORTEZZA ESQUINA EMPRESARIAL 93**

# SUSTAINABLE DESIGN

WHEN DESIGNING A MODERN AND UPSCALE OFFICE SPACE, DEVELOPER TERRANUM WANTED A BUILDING THAT WOULD BECOME A CITY ICON FOR ITS SUSTAINABILITY AND ENERGY EFFICIENCY. THE FAÇADES OF THIS 7-STOREY BUILDING COMBINE SOLAR-REFLECTIVE GLASS WITH ELEGANT EXTERIOR SUNBLINDS MADE WITH METALLICS GRAPHITE GREY. THIS ALLOWS FOR AN EFFECTIVE THERMAL AND ACOUSTIC CONTROL THAT, MIXED WITH THE USE OTHER TECHNOLOGIES, OPTIMISE THE COMFORT OF THOSE THAT WORK INSIDE.

*Bogotá, Colombia*

*About the Project*

**ARCHITECT**
TERRANUM
**INSTALLER**
ÁPICE CUBIERTAS Y FACHADAS MODULARES
**FIXING SYSTEM**
INVISIBLE (CONCEALED) FIXING WITH ADHESIVE
**MARKET SEGMENT**
COMMERCIAL OFFICES
**YEAR**
2018

**TRESPA® PRODUCT**
TRESPA® METEON® METALLICS

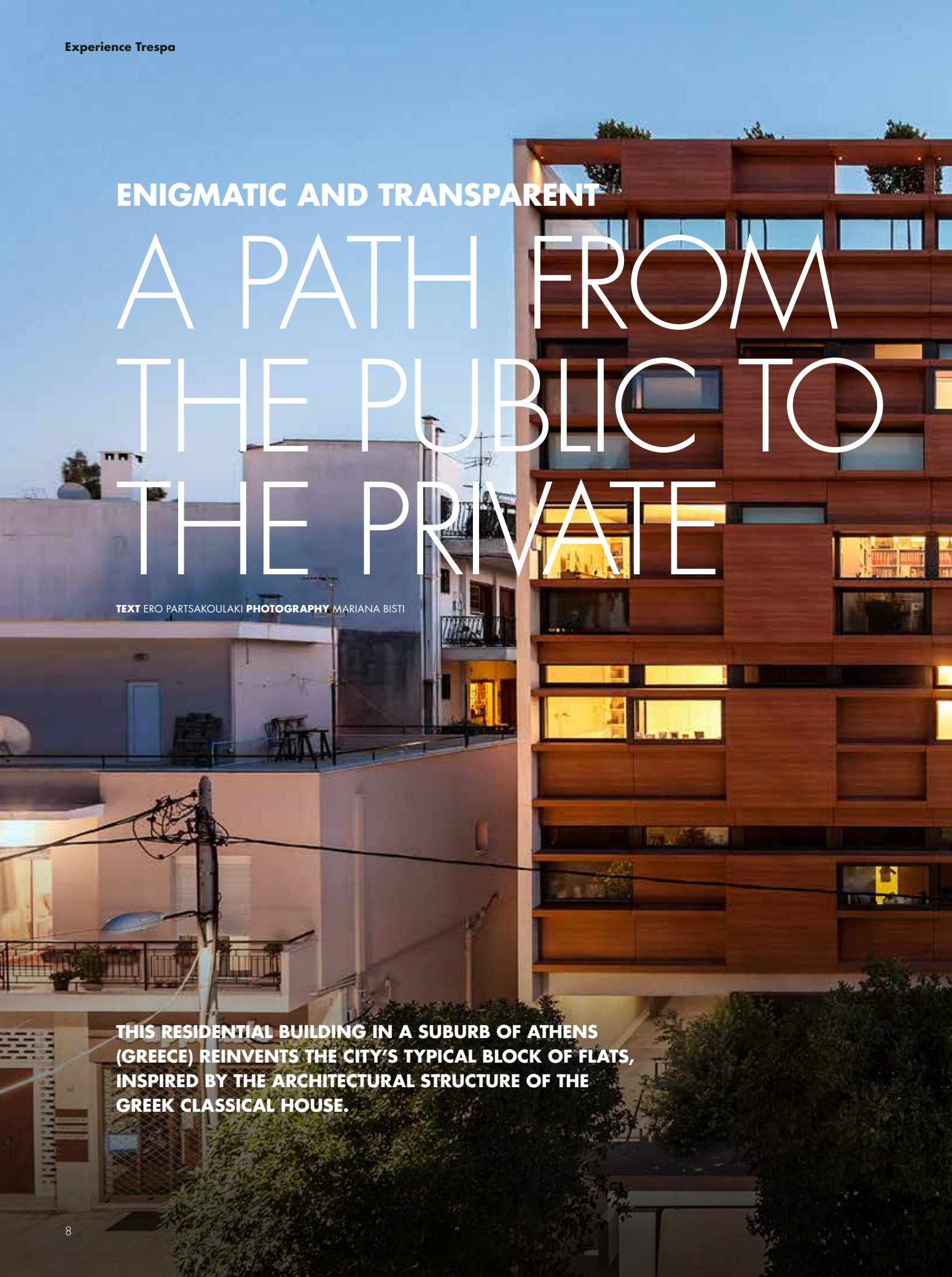
M21.8.1

**FINISH**
SATIN

## ENIGMATIC AND TRANSPARENT

# A PATH FROM THE PUBLIC TO THE PRIVATE

**TEXT** ERO PARTSAKOULAKI **PHOTOGRAPHY** MARIANA BISTI



**THIS RESIDENTIAL BUILDING IN A SUBURB OF ATHENS (GREECE) REINVENTS THE CITY'S TYPICAL BLOCK OF FLATS, INSPIRED BY THE ARCHITECTURAL STRUCTURE OF THE GREEK CLASSICAL HOUSE.**

*Athens, Greece*

*About the Project*

**ARCHITECT**
NIKOS KTENÀS ARCHITECTURE
**INSTALLER**
MIPECO ADVANCED BUILDINGS SOLUTIONS LTD
**FIXING SYSTEM**
INVISIBLE (CONCEALED) FIXING WITH ADHESIVE ON AN ALUMINIUM SUBFRAME
**MARKET SEGMENT**
MULTI-HOUSING, APARTMENTS
**YEAR**
2017

**TRESPA® PRODUCT**
TRESPA® METEON® WOOD DECORS




**FINISH**
SATIN

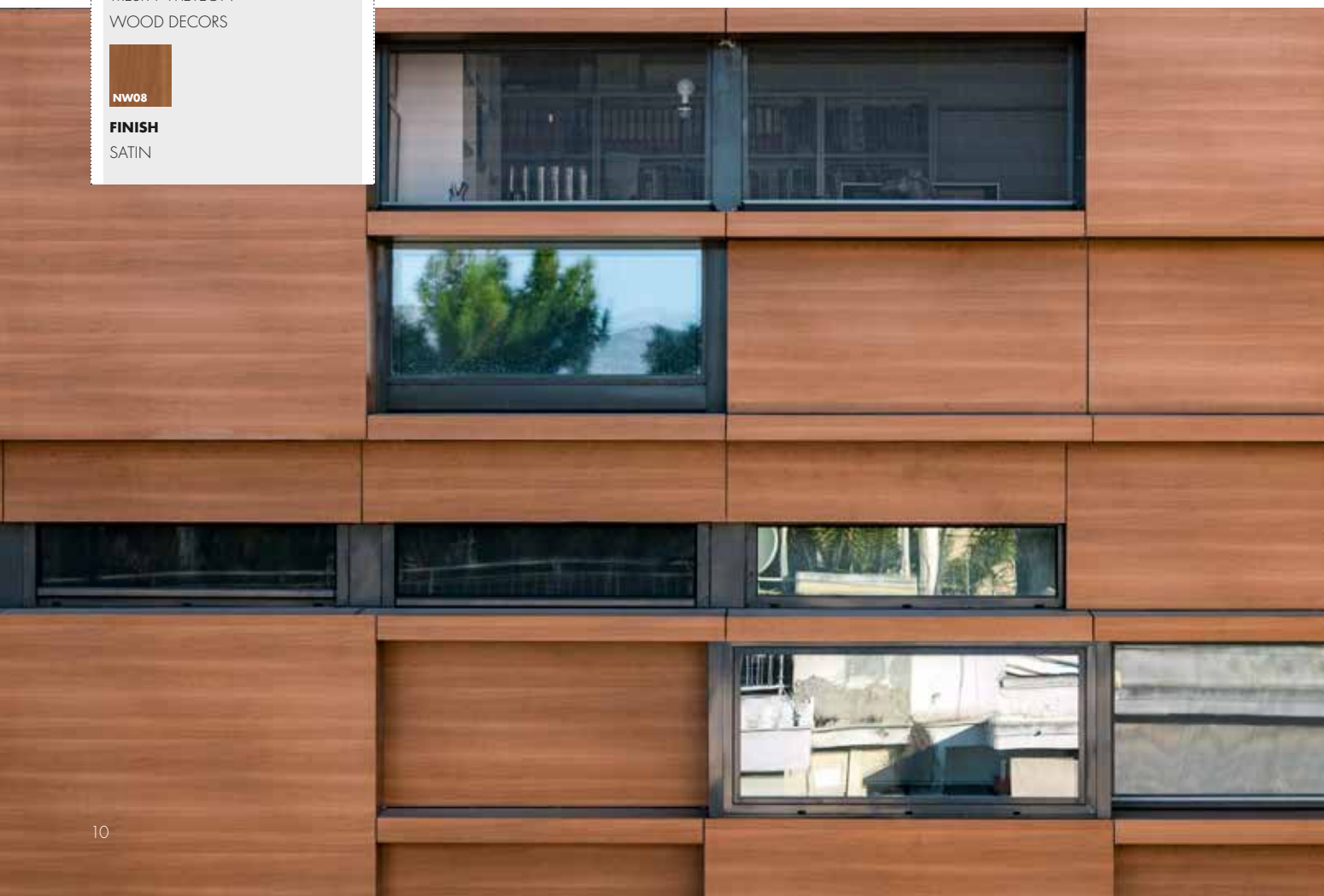
In the urban landscape of Athens, 'polykatoia' -the typical, space-efficient Athenian block of flats- has predominated the urban landscape of the city since the 50s and it's mostly characterized by an intense horizontal component of balconies.

In an attempt to defy common building codes, Inside Out's architect Nikos Ktenàs focused on the reinvention of 'polykatoia' by proposing the transformation of the unoccupied, residual space of the lot into an open-air central entry-hall and a transitional space between the city and the living quarters. Winner of the first prize of the 2017 Greek Institute of Architecture, the building is seen by the architect as a path from the public to the private, from the city to the residence.

By suggesting a physical opening of major parts of the façade, Inside Out succeeds to maximize the living spaces by enabling the transformation of parts of the residential interiors into covered outdoor spaces. "I proposed living on the whole plot by designing and giving a destination even to the areas which, according to the code, must remain building free," said Ktenàs.

**REINVENTING URBAN LIFE**

Inspired by 20th century's Modernism and the ancient Greek dwelling, Inside Out goes beyond the references of the past. Apart from adding horizontal properties, as in the typical collective building layout, Ktenàs had a strong desire to come up with a new way of urban living. "Inside Out's design is the result of my own research of living in the city, but also an answer to the questions posed by an architect regarding the geographical morphology of the city, its climate and its history," he said. As the elements that are incorporated in the building already exist in history and in the city of Athens, the creative concept is rather a reinvention.



Instead of utilizing the elevated ground floor as a parking space, this level along with the surrounding garden, is used as an elevation and a penetration in the centre of the building. The unoccupied space also serves the building as a central access point for the dwellings; a central patio, while the roof functions as a hanging garden.

#### THE IMPORTANCE OF THE FAÇADE

Ktenàs wanted the building to present itself as a residential 'mansion' in the classical sense. In other words, a sculptured monolithic volume without the intense horizontal component of balconies.
"I wanted to set a new standard, an open dialogue with the Athenian sun using a material that has never been used in this building typology," he said.

The cover, the skin of the building as he calls it, needed to have a depth, "to be more than just a screen with openings."

> "I wanted to set a new standard, an open dialogue with the Athenian sun using a material that has never been used in this building typology."
>
> *Nikos Ktenàs, architect*

The exterior's depth and rhythm give the impression of a compact volume, while multiple openings at different heights on the inside, create an almost transparent proximity to the urban environment.

At the same time submerged glass panes can turn enclosed volumes into covered terraces, while the interior spaces remain protected from the sun offering a bioclimatic element to all living areas.

#### TRESPA, NOTHING LESS

Inside Out's structural model, derived from the spatial conception on a new way of urban existence, required a freedom of expression regarding the street façades of the building. As a corner building the need for a formally free and self-supporting façade became even more urgent.

Architect and distributor Irene Tsiakkas believed in Trespa® Meteon® and, in a depressed economy, kept fighting to maintain the material in the specification despite facing numerous competitors. Therefore, Ktenàs himself found in Trespa® Meteon® the wooden element he needed for the exterior's décor. "It was the most adequate material with respect to the building type," he said. "Considering this construction's requirements, the use of Trespa® Meteon® gave me infinite and maintenance-free cladding possibilities as a material for ventilated façades, in addition to its decorative aspect."

**DEFYING THE URBAN SURROUNDINGS**

Located at a residential suburb in the north of Athens, not far from the city-centre, Inside Out stands out among the buildings of the neighborhood. Although the initial response of the people who live in the area was negative with respect to the lower existing buildings in the vicinities due to its size, neighbors and visitors gradually showed great curiosity and appreciation.

Size-wise it happens to be the first building in the neighborhood setting new rules of development according to new building-code coefficients. "I consider it a great opportunity to promote a new and contemporary interpretation of living in this district," said Ktenàs.
Overall, Inside Out embraces an infiltration into the centre of a building and, at the same time, an exit from it, as the residents' private space is again projected towards the city.

> "I see it as the piece of land that the footprint of each building displaces on earth." *Nikos Ktenàs, architect*

**THE SKY ROOM**

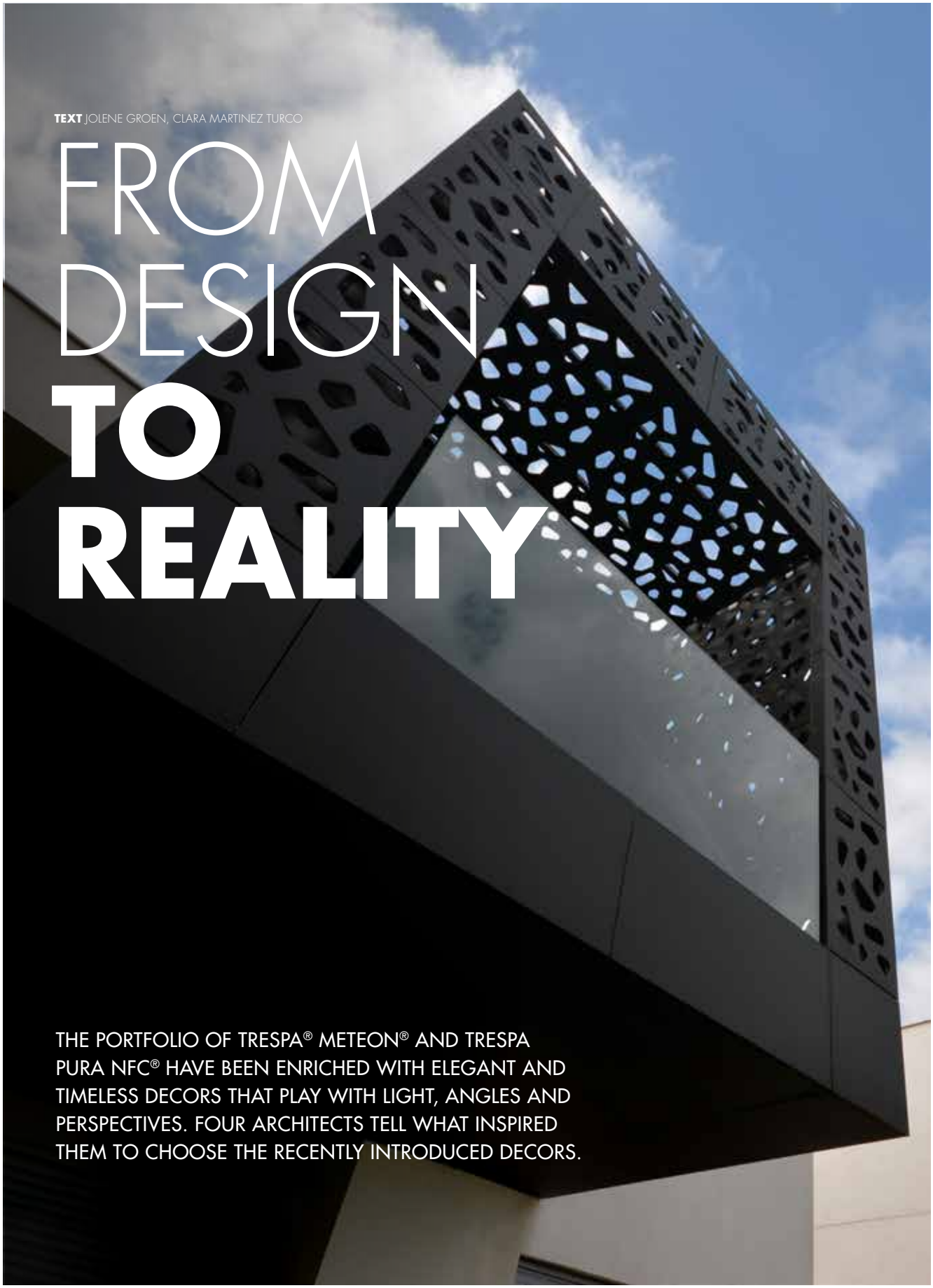
Inspired by Le Corbusier's five rules as an expression of modernity in architecture, the architect has always perceived the roof as an integral part of the living spaces. "I see it as the piece of land that the footprint of each building displaces on earth," said Ktenàs.

The top floor of Inside Out is proposed as a 'sky room', with trees and a pool surrounded on the inside by a continuous wall of reinforced concrete. The roof is bounded externally from the city by the upper-end of the skin of the Trespa® Meteon® street-façade that covers Inside Out. This dialectic relationship of the concrete and the wood allows to the visitors of this open room to comprehend the position of the building in relation to its the urban setting.

The impact for which Nikos Ktenàs wishes for is that this innovative interpretation of the 'polykatoikia' typology will not be limited to this district of Athens but will expand in the entirety of the urban landscape. ▪


TRESPA® METEON®
**FOCUS**

Available in Diffuse finish. To experience the effect of the Focus finishes, we advise to order samples.



**TEXT** JOLENE GROEN, CLARA MARTINEZ TURCO

# FROM DESIGN **TO REALITY**

THE PORTFOLIO OF TRESPA® METEON® AND TRESPA PURA NFC® HAVE BEEN ENRICHED WITH ELEGANT AND TIMELESS DECORS THAT PLAY WITH LIGHT, ANGLES AND PERSPECTIVES. FOUR ARCHITECTS TELL WHAT INSPIRED THEM TO CHOOSE THE RECENTLY INTRODUCED DECORS.

## “Tropical IPE had the perfect tone to match the old façade.”

*Architects José Luis González Meneses and Carlos Rodríguez Suárez, founders of Arquigenia.*

Located in El Puerto de Santa María, Spain, overlooking the Puerto Sherry bay, the 51-apartment building withstands harsh temperature changes and intense sun exposure. The wooden details of its façade were in need of renovation.

“The owner wanted to invest in a durable product that could stand the climate and that required minimum maintenance. The refurbishment needed to be done causing the minimum inconvenience to the tenants. These are the reasons we chose Trespa® Meteon® panels. Also, the Wood Decors NW30 Tropical IPE had the perfect tone to match the old façade.”

## “We chose Italian Slate based on the desired appearance.”

*Pieter Oosterhout, Buro voor Architektuur*

An extensive renovation gave the Postillion Hotel (Putten, the Netherlands) a modern refresh. Within the short timespan in which construction activities had to take place, the guestrooms were enlarged and modernised, and the exterior was given an important makeover with an interesting combination of Trespa® Meteon® Naturals NA19 Italian Slate and NM01 Rusted Brown.

## "The Charcoal Grey is a deep, warmer shade of grey."

*Jean-Jacques Légaré, Architecture BL*

The High School Mont-Bruno is located in the town of Saint-Bruno-de-Montarville, Canada, a stone's throw away from the homonymous alpine ski facility and national park. The school accommodates 1500 students in the age from 12 to 17 years. When the entrances had to be renovated, the architects opted for Trespa® Meteon®.

"We chose Trespa® Meteon® panels for their quality, stability and architectural appearance. The new Uni Colours A19.7.1 Charcoal Grey is a deep, warmer shade of grey that allowed us to better match the new and existing components of the building."

NYX HOTEL MADRID, SPAIN
Trespa® Meteon® Lumen L25.8.1 New York Grey in Oblique and Specular finishes.

"Trespa® Meteon® is relatively light, yet strong and low-maintenance. As a dry construction method, the material fitted well into the picture of the short timeframe. Naturally we considered also alternative façade materials, but based on the desired appearance, quality and costs, in the end we chose Trespa® Meteon®."

# "The Trespa® panels gave the design a sharp and modern edge." *Damian Kotwicki, FO Architekci*

With its clean lines and harmonious combination of materials, this beautiful apartment building in Warsaw, Poland, blends seamlessly into its environment.

"We have decided to focus on high-quality façade materials," says architect Damian Kotwicki. "Bricks gave the building its traditional, local character while the Trespa® panels gave the design a sharp and modern edge. The Trespa® Meteon® NA19 Italian Slate used on the façades of the balconies and ground floor brings modern elegance and the NW08 Italian Walnut in the balconies' interiors warms up the residents' perception of the building. Combination of these three materials allowed us to match old and new and to create a sharp and cosy effect at the same time."

ASPORT IN INGELDORF, LUXEMBOURG
Trespa® Meteon® Metallics
M51.0.2 Urban Grey

DISCOVER THE COMPLETE
TRESPA® DECORS COLLECTION
ON **TRESPA.COM**

**CM06.25** ⊙
Bilbao Sombra

**CM06.21** ⊙
Bilbao Tierra

⊙ **C06.24**
Bilbao Selva

TRESPA® METEON®
**FOCUS**

Available in Diffuse finish. To experience the effect of the Focus finishes, we advise to order samples.

> "A 30% reduction in project costs and a 40% shortening of completion times."
>
> *Source: European Construction Sector Observatory*

**TEXT** JOHN EDWARDS

# A MODULAR APPROACH TO CONSTRUCTION

## HOW THE BENEFITS OF 'PREFAB' ARE REACHING A WIDER AUDIENCE

**HUUB WANDERS**
MANAGING DIRECTOR
WANDERS MOBIELE
CHALETS

**THOMAS ZIEGLER**
MANAGING DIRECTOR
HEINKEL KG MODULBAU
UND FAHRZEUGBAU

**YVAN OSTYN**
OWNER VERANCLASSIC

THE 'MODULAR' METHOD OF CONSTRUCTION INVOLVES PREFABRICATION OF SECTIONS, WHICH ARE DELIVERED TO BUILDINGS SITE FOR FURTHER PROCESSING. ACCORDING TO EUROPEAN COMMISSION RESEARCH, TECHNOLOGY-DRIVEN STANDARDIZATION AND INDUSTRIALIZATION OF BUILDING PROCESSES AND OFFSITE CONSTRUCTION RESULT IN "A 30% REDUCTION IN PROJECT COSTS AND A 40% SHORTENING OF COMPLETION TIMES." THE STANDARD OF BUILDING AND FINISHING IS NO DIFFERENT THAN THAT OF 'REGULAR' BUILDING WORKS. THREE TRESPA CLIENTS SHARE THEIR EXPERIENCES AND EXPECTATIONS OF MODULAR CONSTRUCTION, AND EXPLAIN WHERE THEY SEE THE ADVANTAGES.

## "We use a modular construction approach for all of our products."

*Huub Wanders, Managing Director Wanders Mobiele Chalets*

**WANDERS MOBIELE CHALETS**

"Wanders Mobile Chalets is one of the Netherlands' largest custom builder of high-quality and luxury recreational homes, informal care homes and caravans. Every year, some 400 homes find their way to Dutch, German, Belgian and Swiss holiday parks and individual clients. Buildings can be tailor-made based on customer preferences or created in series. Everything in the building is supplied complete by Wanders, including kitchens, bathrooms, toilets, fitted wardrobes, and more."

"We use a modular construction approach for all of our products. Parts are connected on site to create single and multi-storey houses. Because everything is prefabricated in a controlled environment, no lengthy construction processes are required. Disruption for residents, noise pollution and $CO_2$ emissions on site are also minimized and deliveries are fast and short. Bad weather or frost doesn't affect working times or product quality. The speed and other benefits of this approach have even allowed us to expand into regular housing market target areas, such as smaller homes for starters."

"Trespa's products is used for façades. This type of cladding is extremely suitable for houses with a contemporary design, with clear lines. Buildings retain their colors and contours without visible wear and tear, whilst requiring minimal maintenance. For us, Trespa® products are practical as they help realize sleek designs and don't require painting."

*Wanders Mobiele Chalets, Droompark Bad Hoophuizen in the Netherlands*

## "Overall, our key reasons for using Trespa® products are the variety of options for architecture."

*Thomas Ziegler, Managing Director Heinkel KG Modulbau und Fahrzeugbau*

**HEINKEL KG MODULBAU UND FAHRZEUGBAU**

"We manufacture room modules, and work for all areas of the healthcare sector, as well as industrial and municipal facilities. Modular construction is used to create interior fittings of laboratories and operating theatres, which require high levels of stress tolerance and hygiene, as well as for high quality, maintenance-free façades, which need to withstand mechanical stress. For us, the time factor and high level of quality played a decisive role in the decision to introduce modular building. This way of working also allows us to minimize emissions at the construction site during assembly of prefabricated room modules. This fact is particularly appreciated in the construction of clinics and in the general care sector. We're seeing that modular construction is no longer used exclusively for small 'cookie cutter' buildings in identical series, but also for more luxurious projects on a grander scale.

"Cladding is used in the exact same way as it would be in 'traditional' building. We frequently apply Trespa® Meteon® to façades and Trespa® TopLab® for interior fittings of military-grade constructions, in which hygiene is essential, as well as for the protection of walls in highly stressed areas, such as clinic hallways, schools, and daycare centres. Overall, our key reasons for using Trespa® products are the variety of options for architecture, in addition to the low maintenance."

*Heinkel KG Modulbau und Fahrzeugbau, Network control centre of Netze ED GmbH*

*VeranClassic, Pool house in Belgium*

"We can complete a 70-100 m$^2$ building in two to five days." *Yvan Ostyn, Owner Veranclassic*

**VERANCLASSIC**

"We started out building conservatories and now specialize in habitable spaces adjacent to homes, such as pool houses and other outbuildings. Over the years, these have evolved from utility spaces into rooms in which people can entertain, receive guests, spend quality time on their own or even take in elderly relatives. Our buildings are also often used as office spaces or treatment rooms. The demands placed on such spaces, for example when it comes to insulation, are comparable to the demands placed on of houses.

"Structural elements required to create each of our unique buildings are partly created in our workshops, using a modular approach. Prefabricated components are transported to the site where the work is finished. For us, the key benefit is the speed of construction. We can complete a 70-100 m$^2$ building in two to five days. In the past, customers would have large amounts of materials and builders in their garden for two or three months, as structures were built in layers and many different disciplines were called for. By preparing as much as possible off-site we save a significant amount of time.

"Our clients like Trespa's products because it gives buildings a neatly finished, sleek and timeless appearance and requires no maintenance. Basically, we can offer more quality for the same budget."

**TRESPA® DISTRIBUTOR**

"Veran asked us for a material that was long lasting and robust."

*Frank Balcaen, Cras. Trespa® distributor for the Belgian market*

"Veran asked us for a material that was long lasting and robust, came with a warranty, wouldn't lose its surface coating, was highly UV resistant and easy to clean. Importantly, they wanted something they could install and not have to worry about anymore. We proposed Trespa® products because it ticked all these boxes, is extremely workable and can be used in many different ways.

We don't just sell products from Trespa as a separate material, but as part of a complete concept. We make sure the people working with it know all the possibilities, techniques and tools required for placement. Reactions are positive: Trespa® panels makes work fast, has a great reputation and there is very little waste thanks to clever dimensioning."

**TEXT** CLARA MARTÍNEZ TURCO **PHOTOGRAPHY** TYCHO MERIJN

# THE NEXT MATERIAL HOUSE

HEADQUARTERED IN THE SAME PREMISES AS TRESPA INTERNATIONAL, THIS MULTIDISCIPLINARY AND MULTINATIONAL TEAM IS LEADING THE DEVELOPMENT OF CUTTING-EDGE PRODUCTS.

"...we are focusing on innovation that can benefit all companies."

*Erik Verhoeven, lead engineer*

***From left to right:*** *Atte Virtanen, Bardo Bruijnaers, Frits Wijsmuller, Sanne Vahle, Andrew Jobber, Kim Helwegen, Kostas Sinapis, Charlotte Valliere, Anastasia Kalashnykova, Jack Eggels, Remco Ebisch, Mat van Leuken.*

With combined sales of €1.2 billion, Broadview Holding has a leading position in the global market for surface materials. Continuous investment to develop innovative and more sustainable products is a key part of the business and growth strategy for each of its companies: Arpa Industriale SpA, Formica Group, Homapal GmbH, Trespa International B.V. and Westag & Getalit AG.

In 2019, NEMHO (the Next Material House) was created as a centre of excellence for innovation and technology for all Broadview Holding material companies' Research and Development departments. Its headquarters are located in Weert, the Netherlands, on the grounds of Trespa International, with subsidiaries situated in Germany and United States.

> "We have purposely hired people with very different backgrounds, it brings creativity and experience." *Atte Virtanen, senior technology manager*

**EMBODYING SYNERGY**

Set to open its doors in the spring of 2020, the new HQs building has a state-of-the-art laboratory and more than 40 workstations. The space was created to maximise interaction, inspire innovation and lead advanced research. Its architectural design embodies each one of the company's high quality and signature materials: the façade is clad with Trespa® Meteon®, the lab is done with Trespa® TopLab®, the modern office furniture is made with Arpa Industriale's FENIX®, doors were produced by Westag, IntentekTM wireless charging tables by Formica are available while magnetic whiteboards from Homapal were installed.

The novelty of NEMHO is not only to be the home of all the R&D departments but also its multidisciplinary and all-around composition where research and development are intertwined with

***From left to right:*** *Seetha Chandranouili, Yuri Kalashnykov, Richard van Hout, Maria Pyrgeli, Julian Hunemeier, Tommaso Frison, Pieter Peters, Guido Theunissen, Nadia Bourouina, Hubb Hendricks, Erik Kömhoff, Isabel Macedo, Daniel Totev.*

> "It is fascinating to be among such a young and highly educated and unique team."
>
> *Yurii Kalashnykov, senior engineer*

sustainability. In fact, the NEMHO team works in four key areas: Cellulose-Resin Composite Technologies; Advanced Surface Technologies; Sustainability; and Materials, Instrumentation and Characterization (MIC), which is the laboratory team that supports the R&D departments and participates in key projects. The NEMHO lab has a wide array of high level testing equipment for both physical and mechanical testing as well as for chemical analysis. Currently, the employees based in Weert come from over 16 countries.

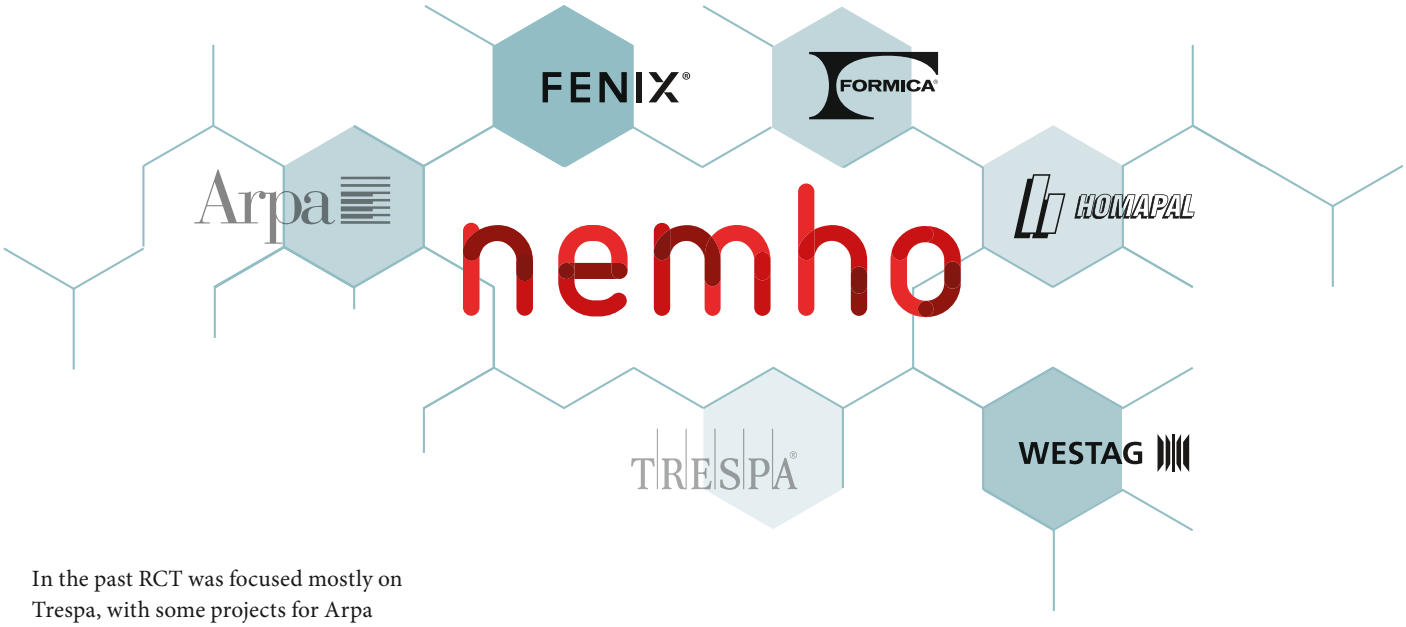
Atte Virtanen, senior technology manager, leads the Cellulose-Resin Composite Technologies (RCT) team. Born in Finland, he started working at Trespa in 2010 as a development engineer specialized in kraft and decor paper and shortly after became the head of the Centre for Excellence in the area of paper, resin and impregnation. Once a two-person group now has ten employees. "We have purposely hired people with very different backgrounds and cultures. This not always makes it easy to lead but it certainly brings creativity and experience," says Virtanen.

RTC's senior engineer Yurii Kalashnykov started working in Weert in 2018 after having consolidated experience in the resins fields in his native Ukraine. "It is fascinating to be among such a young and highly educated and unique team that comes from different countries and areas. It makes project discussions fruitful as you see things from different angles," says Kalashnykov, while adding that being part of NEMHO gives him a more global and integrated view.

His colleague Bardo Bruijnaers, a Dutch junior engineer who also started at Trespa in 2018 after completing his PHD in Chemical Engineering at the Eindhoven University of Technology, agrees. "There is never a dull moment. Within this R&D group, we start projects from scratch and follow them through the lab, pilot and industrial scale phases. We follow them all the way," he says.

> "We start projects from scratch and follow them through all the phases."
>
> *Bardo Bruijnaers, junior engineer*

***From left to right:*** *Tom Thomas, Leonardo Boarotto, Tommaso Grimoldi, Miet Smeets, Irmak Akal, Isaiah Tadimoeljo, Erik Verhoeven, Giulia Spezzati, Laurens Dubel, Anatoli Konstantinov, Luca Ferrari, Ursenna Velardi.*




In the past RCT was focused mostly on Trespa, with some projects for Arpa Industriale. Now, under NEMHO, all the companies within the organisation get the same attention and are evaluated with the same criteria, explains senior technology manager Atte Virtanen. His team is now much more concentrated "on developments that will be recognised in the market, making our products more sustainable and with unique and improved features."
An example of this new approach is the development of Bloom, a new core technology for Arpa Industriale's FENIX NTM® and HPL. With Bloom, lignin technology was introduced to significantly reduce the amount of phenol included in the thermosetting resin by 50%.
The innovation allows for most of the panels' key ingredients to originate from responsibly managed forest while reducing the environmental impact of these products.

"We continue to add experts whose developments can add functionalities to our materials."

*Isabel Macedo, technology manager*

"...having different backgrounds translates into greater exchange." *Ursenna Velardi, senior engineer*

**LEADING MATERIAL INNOVATION**

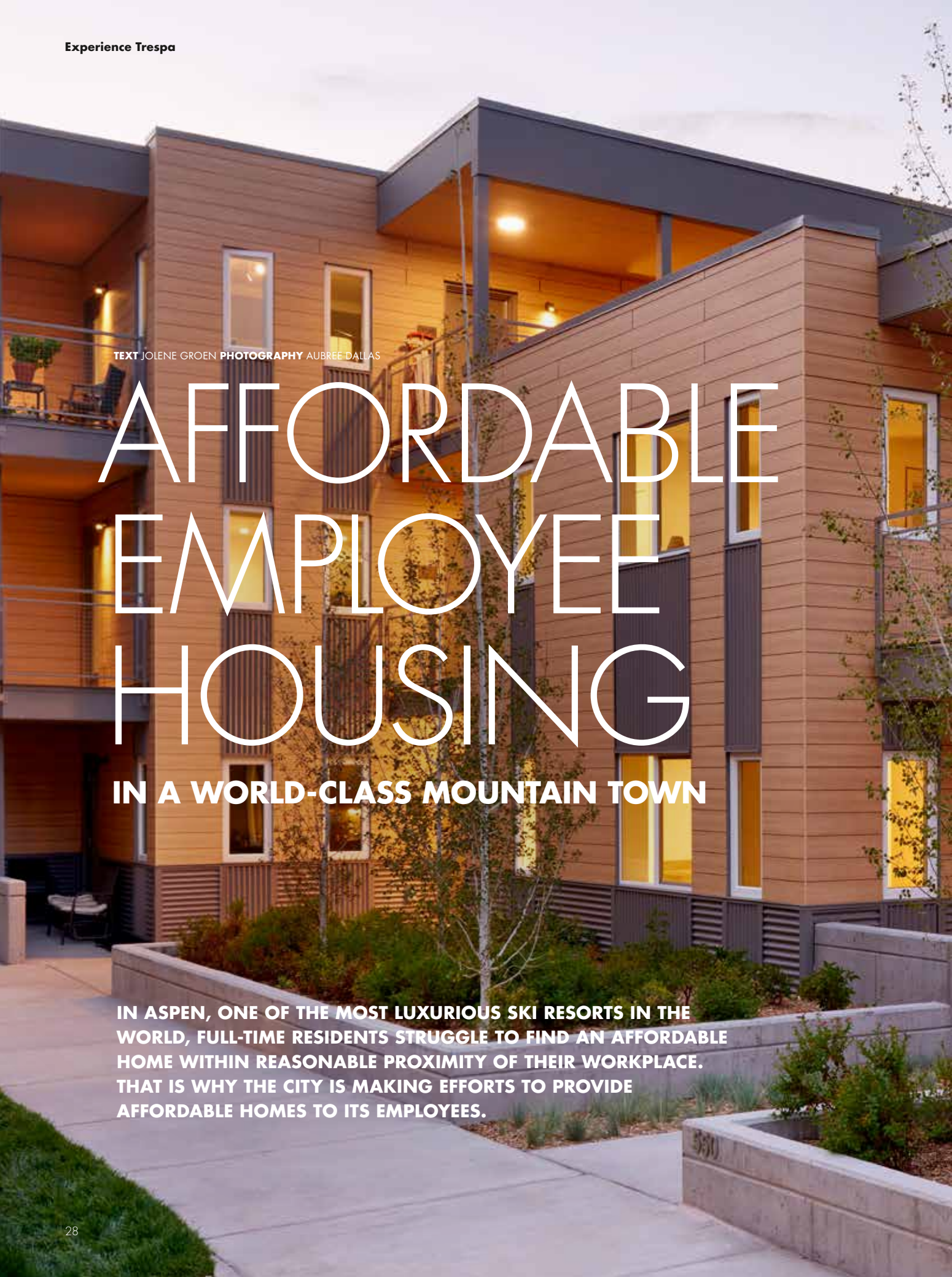
NEMHO's Advanced Surface Technology (AST) team is responsible for the innovation in aesthetics, functionality, process coating development, and coating resins and pigment. Led by technology manager Isabel Macedo, the group has sixteen specialised members who are encouraged to present their ideas either for new products or technology.

Originally from Portugal, Macedo first started working for Trespa as a senior development engineer in 2011, when the decorative surface innovation staff only had seven people. "Since then, the team has more than doubled and we continue to hire experts whose developments can add functionalities to our materials while making them aesthetically attractive." For instance, AST is currently looking into energy generating façades.

The key to leading this young and creative team, Macedo says, is the cohesiveness and interaction among the group, always ready to exchange ideas and work in synergy.

Dutch AST lead engineer Erik Verhoeven started working for Trespa's R&D in 2007. Between 2007 and 2013 his main focus was the development of Electron Beam Curing 2 Line, a proprietary technology that improves the surface properties and performance of the panels. "Back then it was a small team and main language was Dutch. Now, we speak in English and we are focusing on innovation that can benefit all companies," says Verhoeven.
One of the core values of NEMHO is to stimulate young talents and encourage their growth. Ursenna Velardi is an Italian senior engineer at AST who started her professional journey in 2014 as part of Broadview Holding's first International Trainee Programme. "I've seen both myself and the team grow over the past five years. Having different backgrounds translates into greater exchange and the possibility to explore more ideas," says Velardi.

NEMHO is expected to keep growing over the next couple of years in order to satisfy the demand for the continuous development of the material surfaces market. Excellence, creativity and multidisciplinary backgrounds will continue to be a staple of this innovation hub. ▪



**TEXT** JOLENE GROEN **PHOTOGRAPHY** AUBREE DALLAS

# AFFORDABLE EMPLOYEE HOUSING

## IN A WORLD-CLASS MOUNTAIN TOWN

**IN ASPEN, ONE OF THE MOST LUXURIOUS SKI RESORTS IN THE WORLD, FULL-TIME RESIDENTS STRUGGLE TO FIND AN AFFORDABLE HOME WITHIN REASONABLE PROXIMITY OF THEIR WORKPLACE. THAT IS WHY THE CITY IS MAKING EFFORTS TO PROVIDE AFFORDABLE HOMES TO ITS EMPLOYEES.**

*Aspen, CO, United States*

*About the Project*

**ARCHITECT**
CHARLES CUNNIFFE ARCHITECTS (CCA)
**INSTALLER**
SHAW CONSTRUCTION
**SYSTEM**
FLUSH SIDINGS
**MARKET SEGMENT**
MULTI HOUSING, APARTMENTS
**YEAR**
2018

**TRESPA® PRODUCT**
TRESPA PURA NFC®
WOOD DECORS

PU02

**FINISH**
MATT

Living in a world-class mountain town definitely comes with its perks, such as fresh alpine air, breathtaking sceneries and spectacular pistes just around the corner. But Aspen's high quality of life has a serious price tag: skyrocketing house and rental prices.

Aspen is one of the priciest real estate markets in the United States. This excludes most full-time residents from living in the city or owning a home. For employees and local business owners, the people who are crucial to the local economy, it is almost impossible to live where they work. Specific housing projects, run by the city or private companies, help to provide employees with affordable housing within a reasonable distance from their workplace. In this case, the units of the Aspen Police Department are specifically slated for police officers and city employees.

Charles Cunniffe, owner of CCA (Charles Cunniffe Architects) has extensive experience with affordable housing projects in Aspen and surroundings. "The main difference between affordable housing and other projects? Greater concerns about budget. Also, the scale has to be appropriate, so it can be affordable. When it comes to materials, while always nice, we also look for durability, low maintenance, long-lasting, and sustainable."

The design of the new police station started several years ago, when the City of Aspen asked CCA to design a modern city hall with multiple facilities. "We proceeded to design a civic centre that included the police facility. When the historic houses at the site of the police station had to be moved, we were able to incorporate affordable housing into the project."

The new housing units are located in an 8,220 square-foot (764 $m^2$) freestanding building in downtown Aspen, on the same property as the police station. Both, the two-storey (above grade) police station, and the three-storey housing building are part of a podium construction; they are on top of an underground parking garage for the police and emergency personnel. There are eight housing units of various sizes, from a studio to three-bedrooms. Thanks to the abundance of large-scaled windows all around the building, all units provide stunning views. The units on the north look at Red Mountain and the untouched beauty of Hunter Creek, paradise for hikers and bikers. On the south, there is Aspen Mountain—Ajax, for locals—and on the east you can see the impressive Independence Pass.

The exterior of the housing building is clad with 8,000 square-feet (743 $m^2$) of Trespa Pura NFC® PU02 Classic Oak. "Each of the surrounding buildings has its own colour palette, so we wanted to have something that would fit in softly, but not look like any of the others," Cunniffe explains. "Some of the buildings have soft green or greyish siding. The Classic Oak looks good with the Aspen Police Department's brick and with the wood siding utilized on the adjacent housing complex."

"When the historic houses at the site of the police station had to be moved, we were able to incorporate affordable housing into the project." *Charles Cunniffe, architect*

**CHARLES CUNNIFFE ARCHITECTS**

CCA IS A PROMINENT ARCHITECTURAL FIRM WITH A LONG HISTORY OF RESIDENTIAL, MUNICIPAL AND COMMERCIAL PROJECTS IN COLORADO AND THE WESTERN U.S. ORIGINALLY FROM NEW ENGLAND, CHARLES CUNNIFFE ARRIVED IN COLORADO IN 1979 TO WORK ON THE RENOVATION OF ASPEN'S LANDMARK HOTEL JEROME. IN 1981 HE FOUNDED CHARLES CUNNIFFE ARCHITECTS (CCA), WHICH NOW EMPLOYS TWENTY PROFESSIONALS AND COMPLETES 40-60 PROJECTS EVERY YEAR.

> "We chose Trespa Pura NFC® for sustainability, durability and weather resistance." *Charles Cunniffe, architect*

Although located on the same property, the police station and the housing units each have their own look. "The police station is in the process of receiving its LEED Gold designation as well as a WELL Building certification," says Cunniffe.

"It has extensive glazing, high windows, ample natural light, and features brick and stone. When choosing siding material for the employee housing units, we looked at a variety of options." An important consideration were the high altitude and demanding climate. Thanks to their advanced technology, Trespa Pura NFC® siding solutions are built to withstand harsh climatic and environmental conditions for many years. Sun, rain and snow have no significant effect on the surface. "There is usually lots of sun, periods of dry, and sometimes wildfires so we have to consider all of those things when we design. We chose Trespa Pura NFC® for sustainability, durability and weather resistance."

For CCA, sustainability is always a key part of the design process, and this housing project in Aspen is no exception. "We're looking to achieve LEED Gold as a certification. Sustainability and low maintenance are some of the key requisites. We also used solar panels and alternative energies and we've oriented the building to be as passive as possible. But its primary function is to provide good and affordable housing for city employees, and to not burden them with the extra costs of maintenance and cleaning. The siding material had to be durable and long lasting so that the building wouldn't become expensive to maintain." ▪

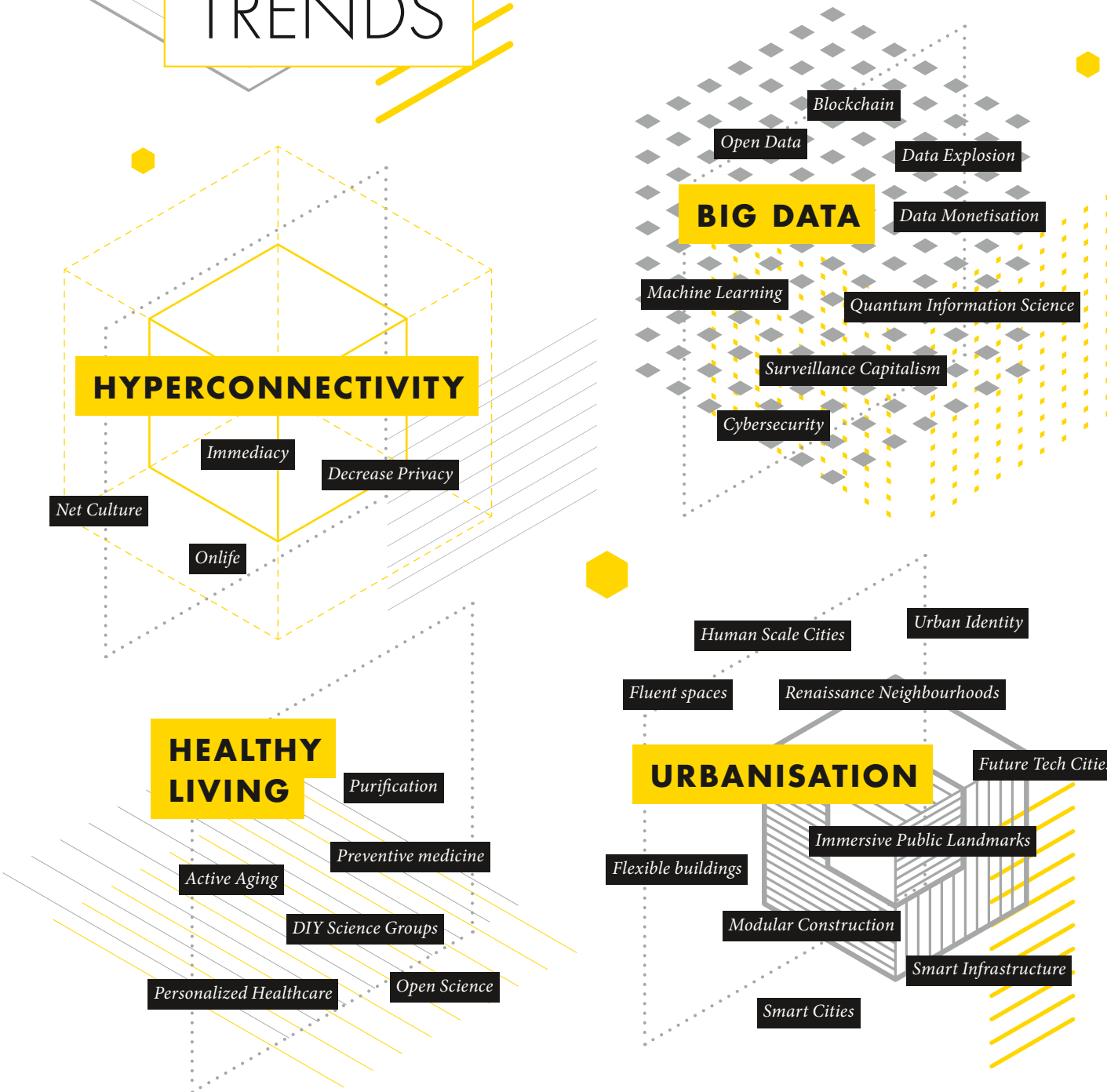

TRESPA® METEON® + TRESPA PURA NFC®

## WOOD DECORS

Available in Matt finish. To experience the effect of the finishes, we advise to order samples.

# MEGA TRENDS

NINE MEGATRENDS THAT ARE EXPECTED TO IMPACT AND CHANGE THE WORLD OF ARCHITECTURE, CONSTRUCTION AND DESIGN.




***Sources:*** *Futures Centre, The Megatrends of Tomorrow by Deloitte, Megatrends by pwc, TrendUniversum 2021 by TrendOne, The Upside of Disruption: Megatrends shaping 2018 and beyond by EY, The Future 100 by JWT Intelligence, EC Megatrends Hub by EU Policy Lab of European Commission, World's Top Global Mega Trends To 2025 and Implications to Business, Society and Cultures by Frost & Sullivan.*

# THE PAST, THE PRESENT AND THE NEXT


**TRESPA INTERNATIONAL IS TURNING 60! THIS DIAMOND ANNIVERSARY CELEBRATES THE COMPANY'S LONG GLOBAL JOURNEY THROUGH THE PAST AND THE PRESENT, WHILE GIVING A VIEW OF THE FUTURE.**

## 60 YEARS OF INNOVATION

AS A LEADING INNOVATOR IN THE FIELD OF ARCHITECTURAL MATERIALS, TRESPA HAS ALWAYS ANALYSED TRENDS AND FORESEEN ITS CUSTOMERS' CHANGING NEEDS. THE ROAD IS CLEAR: CONTINUOUS INVESTMENT IN QUALITY AND INNOVATION, AND KEEP WORKING HARD TO OFFER A SUSTAINABLE PRODUCT.

1960

**THERMOPAL** IS FOUNDED

*Thermopal, a manufacture of high pressure laminates, is founded in Weert, the Netherlands.*

*1962*

*The panel factory starts with two presses, two impregnation lines and a resin tower.*

TRADE NAME *1963* **TRESPA**

*The first panels are sold under the trade name of Trespa.*

*1967* LAUNCH **TRESPA VOLKERN**

*Launch of Trespa Volkern, a 12mm thick, fully homogenous laminate created for furniture.*

*1969*

*Trespa Volkern is tested and used for exteriors.*

**DRY FORMING** PATENTED *1984*

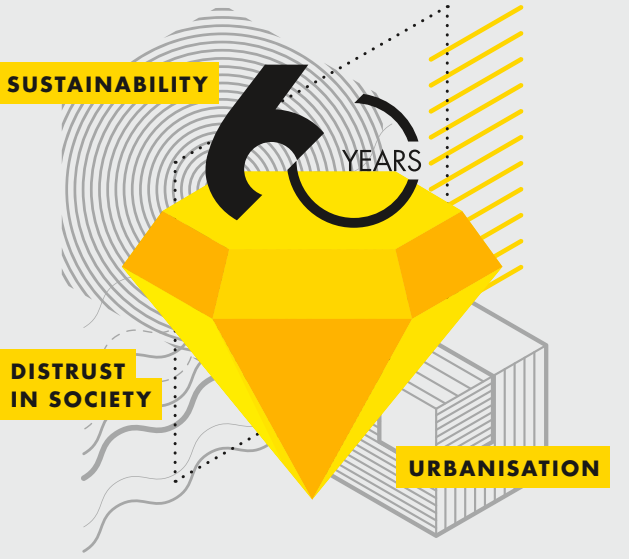
*"Dry Forming," a patented technology for the production of the HPL core with natural fibres and resins, is introduced.*

*1987* **EBC** TECHNOLOGY

*Electron Beam Curing (EBC) technology is developed and patented by Trespa, switching to a high quality coating system that gives panels a greater durability and colour stability.*

*1994*

*Trespa Volkern G2, Trespa Sanitary, Trespa Furniture and Trespa Laboratory are replaced by Trespa® Meteon®, Trespa® Athlon®, and Trespa® TopLab®.*




2011 OPENING

**TRESPA DESIGN CENTRE**

*Opening of the Trespa Design Centre in Barcelona, Spain. The Trespa Design Centre in Santiago, Chile, will follow in 2012.*

*2008*

*ZF panel size (4270 x 2130 mm) is introduced.*

**LARGEST PRESS**

*2001* IN THE WORLD

*A 30-compartment press is put into production, the largest press in the world at that time.*

*1995*

**TRESPA INTERNATIONAL B.V.**

IS BORN

*2015*

*Trespa inaugurates the Electron Beam Curing (EBC) 2 line.*

STATE-OF-THE-ART

**NEMHO HQS**

*Inauguration of the state-of-the-art NEMHO HQs in the premises of Trespa in Weert, the Netherlands.*

2020

Through the following pages, you will find megatrends of interest for Trespa and the architecture and construction sectors. It includes some of the work done in these areas, as well as some of Trespa's iconic projects.


*Offices*

2013 | MICROSOFT BUILDING, CHILE

"The highest energy efficiency and sustainable standards."

*Healthcare*

2015 | WOMEN'S UNIT
BOURNEMOUTH HOSPITAL, UK

## SUSTAINABILITY

*Trespa strongly believes that sustainability is not something you dream about, but **something you do**. It's about acting. This is why the company takes actions that provide a 'win' for the environment, the business and its clients. Sustainability became key part of Trespa's License To Operate strategy in 2010 and a lot of effort has been put since then to improve our environmental performance through the implementation of a number of projects and activities.*

- For Trespa, sustainability is about common sense, a ***fact-based approach*** and complete integration in the business planning.
- Trespa uses the ***Life Cycle Assessment*** (LCA) methodology to understand the impact it has on the environment and to set up its yearly priorities. The LCA allows to identify and quantify the energy, materials, wastes and emissions released.
- The main driver to sustainability is ***durability*** of the products (reliability and long service life).
- Do more with less, enhancing the functionality of its products while reducing the inputs required to manufacture them (***cradle-to-gate*** approach).
- Trespa Second Life programme: launched in 2019 to encourage the ***reuse of Trespa® Meteon® panels*** as material for other applications.
- Sustainability is part of NEMHO (Next Material House), the R&D department for all of Broadview Holding companies, including Trespa.


*Retail*

2014 | ALDI, BELGIUM

Extending the visual identity.

*Hotel-Leisure*

2011 | SHORE HOTEL, USA

"The Trespa® panels really add to the hotel and make it architecturally stunning."

2007 | NATIONAL UNIVERSITY OF SINGAPORE

*Higher Education*

2016 | AB+ HOME AND OFFICE,
LUXEMBOURG

*Indivual Housing*


*Culture*

2014 | CENTER FOR CIVIL
AND HUMAN RIGHTS, USA

# DISTRUST IN SOCIETY

*In a society where information spreads in real time and distrust is spreading widely,* ***transparency*** *is essential.*

The License To Operate is one of the key elements in Trespa's strategic framework. Within it, transparency in financial reporting as well as the appropriate behaviour by its employees is a core principle. So is the documented product compliance to meet regulatory requirements:

- Every product released to the market is ***extensively tested and certified*** according to international standards and regulation.
- Trespa's 10-year Conditional Product Guarantee is based on ***rigorous testing.***

*Public Building*

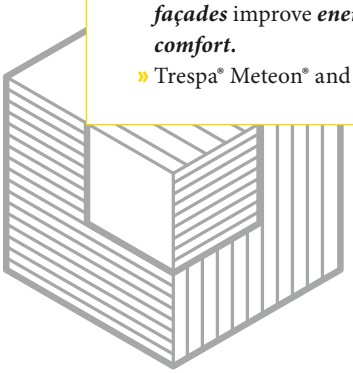
1988, REVISITED IN 2011
DISTRICT POLICE STATION,
THE NETHERLANDS

The brand new Trespa® panels made 20 years later perfectly matched the originals.

# URBANISATION

*In 2018, 4.2 billion (55%) of the world's population were living in cities. By 2050, the urban population will reach 68%. By 2100, it is expected to be 85%. The largest movements towards urban centres are expected in Africa and Asia. Having such a high concentration of people means spaces and infrastructure will have to be rethought.*

- Aesthetics of residential buildings can ***improve the quality of life*** of the tenants and the surrounding communities. Trespa® has been used in countless renovation projects where the main scope was to provide comfortable and ***energy efficient*** homes.
- Independent studies show that ***ventilated façades*** improve ***energy consumption and comfort.***
- Trespa® Meteon® and Trespa Pura NFC® offer excellent outdoor colour stability and a high product performance with ***low maintenance***.
- Trespa® exterior products, applied in combination with ventilated façade technology, deliver an ***improved building life cycle***.
- The three Hikari buildings in Lyon, France, are Europe's first ***energy positive mixed-used community***. Two of them are clad with Trespa® Meteon®.



Improving the quality of life.

2015 | MANUEL GIRONA HOUSING, SPAIN

*Residential Renovation*

2013 | RUNDESKOGEN TOWERS, NORWAY

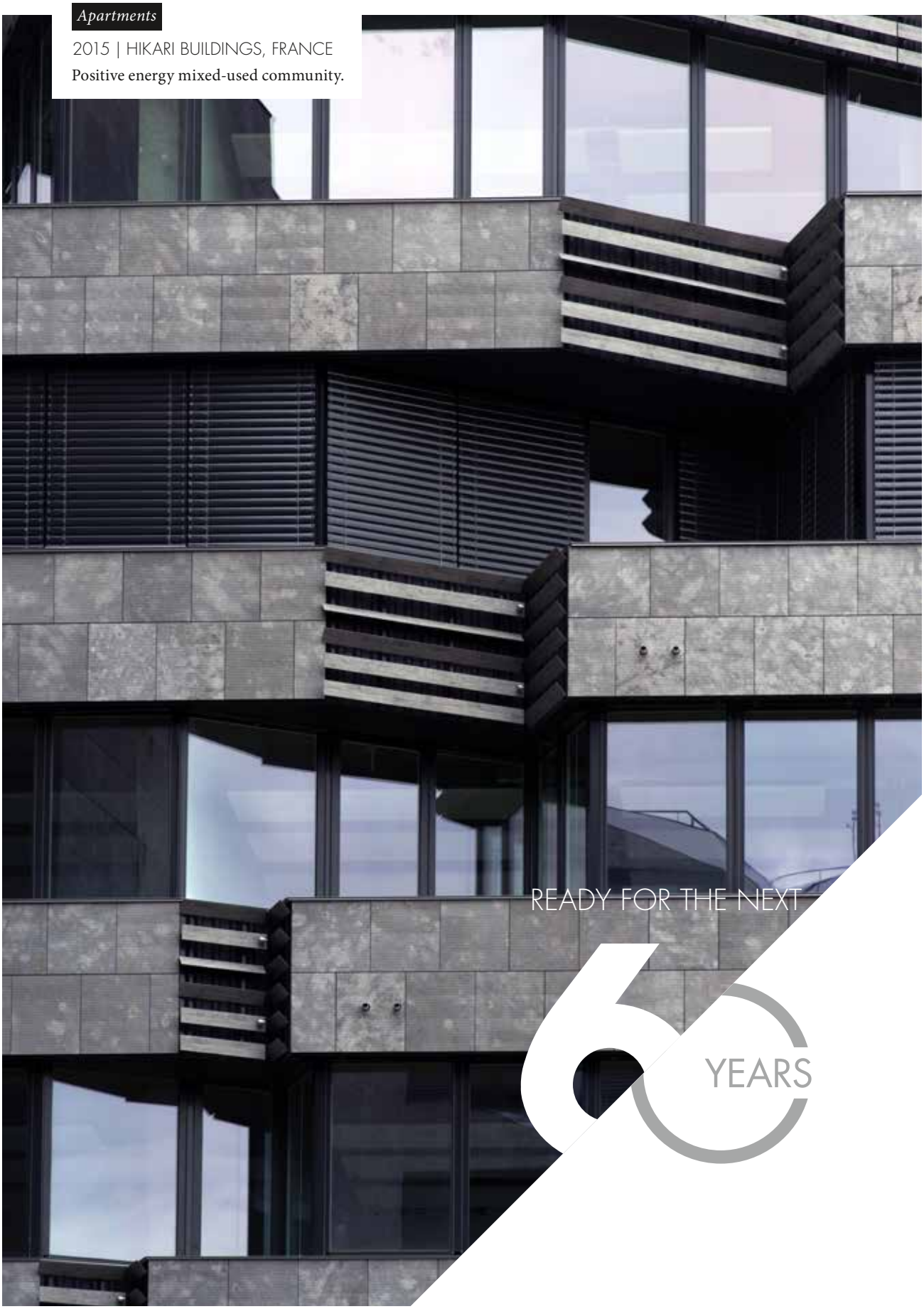
*Multi Housing*

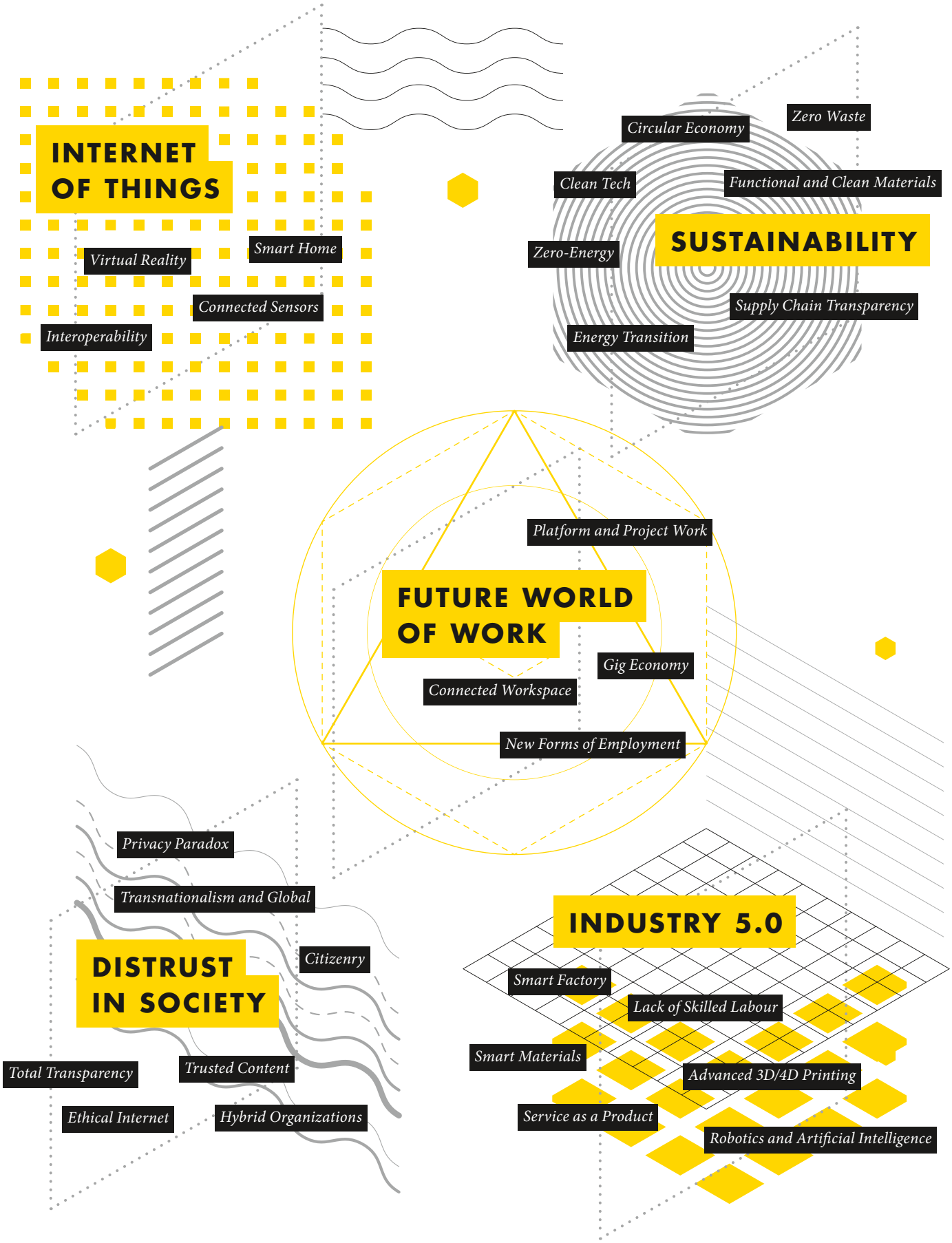
CHECK OUT MORE PROJECTS AT **TRESPA.COM**

*Apartments*

2015 | HIKARI BUILDINGS, FRANCE

**Positive energy mixed-used community.**




INTERNET OF THINGS
Virtual Reality
Smart Home
Connected Sensors
Interoperability
Circular Economy
Zero Waste
Clean Tech
Functional and Clean Materials
SUSTAINABILITY
Zero-Energy
Supply Chain Transparency
Energy Transition
Platform and Project Work
FUTURE WORLD OF WORK
Gig Economy
Connected Workspace
New Forms of Employment
Privacy Paradox
Transnationalism and Global
DISTRUST IN SOCIETY
Citizenry
Total Transparency
Trusted Content
Ethical Internet
Hybrid Organizations
INDUSTRY 5.0
Smart Factory
Lack of Skilled Labour
Smart Materials
Advanced 3D/4D Printing
Service as a Product
Robotics and Artificial Intelligence

**EFD SYSTEM OFFICE**

# PLAYING WITH GEOMETRIC SHAPES

WHEN INVESTOR AND INSTALLER COMPANY EFD SYSTEM DECIDED TO DEVELOP RENTAL OFFICE SPACE, THEY WORKED WITH THE LOCAL ARCHITECT APA ZALEWKSI BUBAK TO CREATE A ONE-IN-A-KIND AND PLAYFUL BUILDING. THE DESIGN PLAYS TRIANGLES IN 12 DIFFERENT DECORS THAT GO FROM BLACK TO WHITE, PASSING THROUGH HUES OF GREY. THE ACHIEVED EFFECT IS MESMERIZING AND EYE-CATCHING.


*Krakow, Poland*

## *About the Project*

**ARCHITECT**
APA BAZA ARCHITEKCI ZALEWSKI BUBAK

**INSTALLER**
EFD SYSTEM

**FIXING SYSTEM**
INVISIBLE (CONCEALED) FIXING WITH ADHESIVE

**MARKET SEGMENT**
COMMERCIAL OFFICES

**YEAR**
2018

**TRESPA® PRODUCT**
TRESPA® METEON®
UNI COLOURS, LUMEN

| | | |
|---|---|---|
| A03.1.0 | A03.4.0 | A05.0.0 |
| A05.5.0 | A21.5.1 | A21.7.0 |
| A25.8.1 | A90.0.0 | L05.0.0 |
| L21.5.1 | L25.8.1 | L90.0.0 |

**FINISH**
SATIN, OBLIQUE, DIFFUSE

## HOSPITALS AND REHABILITATION CENTRES IN CHILE

# CREATING A DURABLE HEALTHCARE INFRASTRUCTURE

**TEXT** LESLY MARQUINA **PHOTOGRAPHY** JUAN FRANCISCO VARGAS M.

WHILE TAKING CARE OF HEALTH, IDEALLY, HOSPITALS AND CLINICS SHOULD ALSO BE SUSTAINABLE. THESE SPACES MUST BE EFFICIENT FROM THEIR CONCEPTION AND THROUGHOUT THE OFFERING OF SERVICES TO SOCIETY.

TALCA REGIONAL HOSPITAL

Architecture in Latin America is increasingly modern and tries to reinvent and reuse pre-existing places to give continuity to a busy life. It also seeks to be technologically innovative and provide efficient places that fulfil the population's needs such as health. Hence, its key role in designing and creating functional and durable structures to house public and private health services.

In Chile, actions to strengthen the public health infrastructure with high-quality standards were started in 2005 within the framework of a Country Energy Efficiency Programme created by the Ministry of Economy. This meant the introduction of efficient materials.

Hernán Marambio, an administrator and architect of the Ministry of Health, refers to ventilated façades with Trespa® materials as a key element in the global energy concept that plays a big role from the durability to the low long-term maintenance of health buildings.

Since Trespa opened its offices in Chile in 2010, Trespa® materials have been used in numerous healthcare projects, such as the Talca Regional Hospital and seven of the fourteen Rehabilitation Centres of the Teletón Foundation.

### AT THE SERVICE OF SOCIETY

The Talca Regional Hospital, located in the Maule Region in centre of Chile and founded in 1803, is one of the oldest public entities in the country. The 2010 earthquake caused great damage to its fragile structure, and as a consequence, the government pushed for the construction of a new hospital in 2011.

The architect of this project, Álvaro Prieto Lindholm (www.arquitalaria.cl) found Trespa when looking for materials which could provide efficiency and durability. "The building was very close to the road and therefore exposed to graffiti and damage. We needed a façade that was highly resistant and sustainable and this high-pressure laminate gave us that."

TELETÓN INSTITUTE AYSÉN AND VALDIVIA

THE FAÇADE OF THE TELETÓN HEADQUARTERS IN SANTIAGO IS CLAD WITH THE FOUNDATION'S COLOURS

The design of the building had particular shapes and Trespa's offering allowed to have solutions for both exterior and interior. Whereas Trespa® Meteon® clads the exterior, Trespa® TopLab®*VERTICAL* was used inside the building for doors, dressing rooms, and corridor walls. Trespa® was used not only for its durability but also for the uniformity of its design.

"We used a variety of colours of the same hue, giving a warm feeling that is not common in public hospitals, where ceramics were traditionally used creating a cold environment. Sick people need to feel better and for that, Trespa's colour range is very helpful," says Prieto Lindholm.

The long-term vision of this type of public project in Chile is associated with the reduction of operating costs once the hospital opens its doors. "If we can reduce that impact with these materials it is beneficial for the country and its population," Prieto Lindholm says.

**A UNIFIED IMAGE**

The Teletón Foundation is a private entity that has been raising funds for the past 30 years to provide rehabilitation services for children and adolescents with neuromuscular and skeletal deficiencies. It is funded through government funds and private donations.

"We wanted to change and improve the operability of the centres, [and] thanks to a material like Trespa® Meteon®, we achieved that. It also allowed us to establish a global image that is now recognized throughout Chile," says Tomás Hernandez, responsible for inspecting Teletón's sites.

The first Teletón Institute remodelled with Trespa® was the main headquarters located in Santiago de Chile. ABWB Architects, Yves Besançon and René Pizarro, won the bid to lead the project. "We wanted a building with something different, with a playful and colourful image that moved away from the classic style of a white hospital because it was for children [and] they should feel welcomed," both architects explain.

They discovered Trespa® Meteon® when looking for a material that not only provided the colour they had in mind but also was highly resistant and durable over time, allowing them to optimise the budget in the long term.

"We found Trespa when searching for an energy efficient solution for hospital development and design. They understood our goal and helped us to materialise it."

*Hernán Marambio, administrator and architect at the Ministry of Health*

THE TELETÓN INSTITUTE AYSÉN IN COYHAIQUE IS LOCATED IN CHILE'S WET SOUTH

"Using Trespa® Meteon® allowed us to establish a global image that is now recognized throughout Chile."

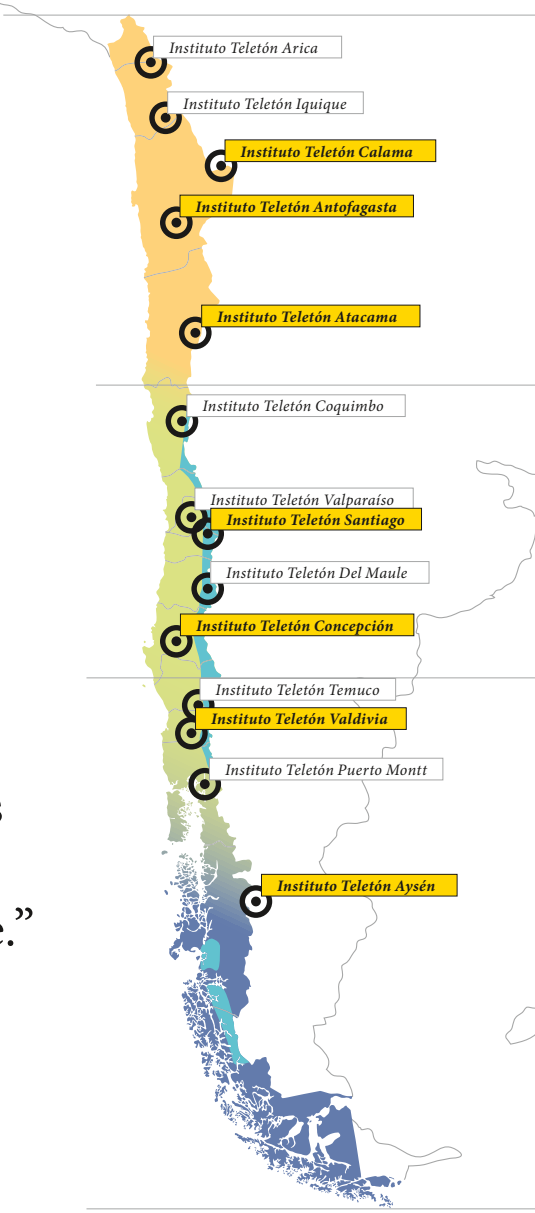
*Tomás Hernandez, Teletón Foundation*

"One of Trespa®'s advantages is the speed and the efficiency of the installation. We always prefer installers who have previously worked with Trespa® because they understand how the material works in order to produce the best results; otherwise, the desired effect is not generated. In addition, they maximise the use of the product, resulting in waste savings that really makes a difference in terms of environmental impact," says Pizarro.

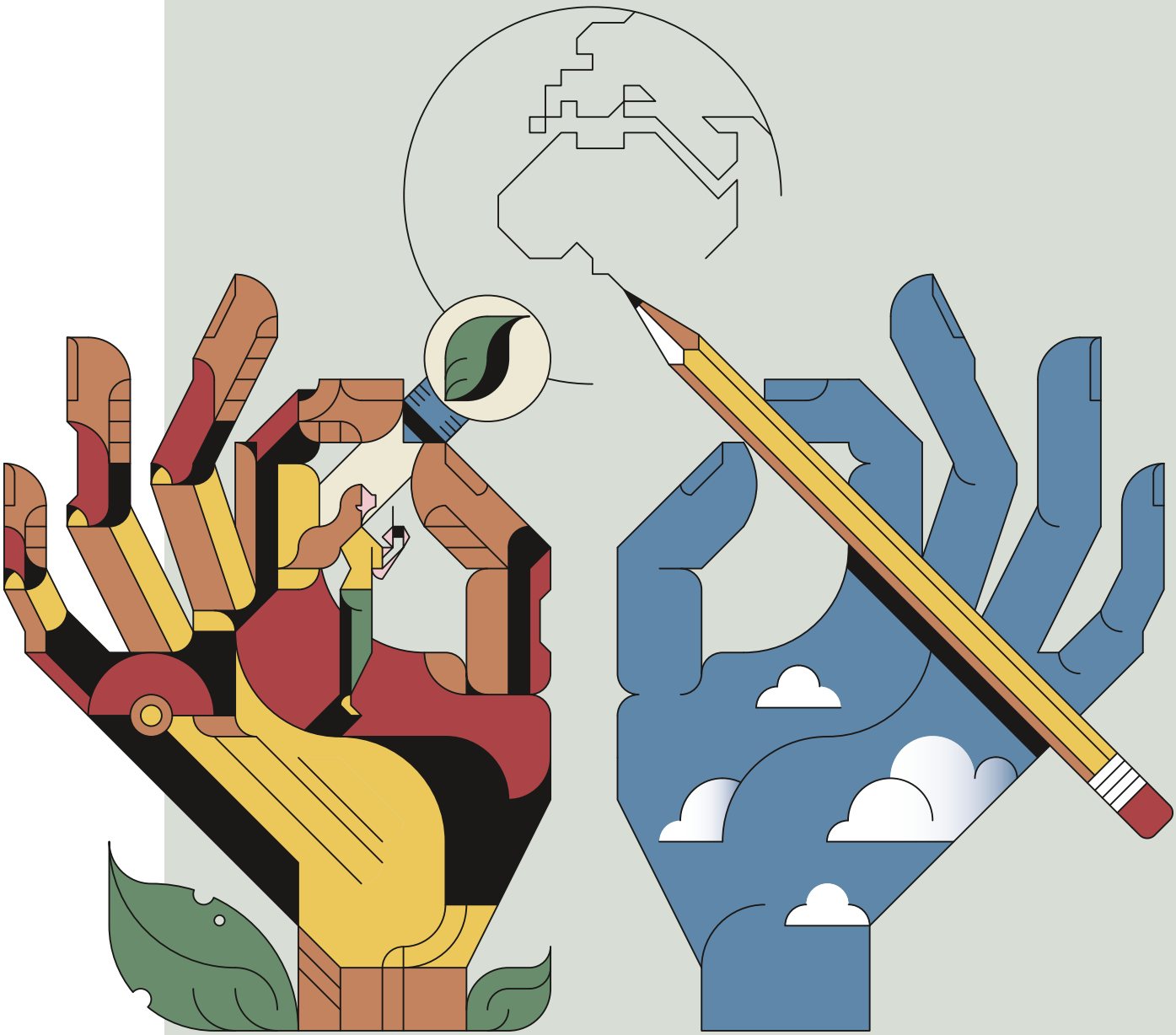
Francisco Moraga, owner of Macsa—a company that distributes Trespa® Meteon® and has installed several Teletón Institutes façades—says that "for construction companies working with Trespa® has higher costs but, thanks to the quality and durability of these products, they used it because in the end the building façades require minimum maintenance and the projects remain looking the same after many years."

Teletón Institutes are spread around the country, which means the buildings are impacted by different kinds of climates: from the dryness of the north to the cold and humidity of the south. "Given the possibility to obtain LEED Certifications, the opportunities of using a product such as Trespa® Meteon®, which is versatile and trustable, have also increased because it works in all climates," says Gabriel Campos, Engineering Studies Manager of Tecsa, the company in charge of the construction of the Teletón Institute in Antofagasta, a city in the north of Chile.

Overall healthcare buildings should be adaptable and respond to the population needs. As architect Yves Besançon says, "Architecture must cease to be rigid. It must adapt and change according to people, families, businesses, and technological changes to achieve a meeting space that we can modify anytime we want and make it really recyclable as we change, and in that Trespa is an ally." ▪



# THE NEW ARCHITECT



**TEXT** JOLENE GROEN **ILLUSTRATION** MAUS BULLHORST

AS ARCHITECTURAL PROJECTS BECOME INCREASINGLY COMPLEX, A NEW SET OF SKILLS ARE NEEDED TO ANSWER 21ST CENTURY'S CHALLENGES. THREE ARCHITECTURE PROFESSORS AND SCHOLARS DISCUSS HOW SUSTAINABILITY, AESTHETICS AND SHARED RESPONSIBILITIES WILL BE REFLECTED IN THE BUILT ENVIRONMENT OVER THE NEXT 60 YEARS.

## THIJS ASSELBERGS

Thijs Asselbergs (1956) has been professor of Architectural Engineering at Delft University of Technology (the Netherlands) since 2008 and works as an independent architect for his Architectuurcentrale office. He develops various activities in the field of architecture policy, the stimulation of young design talent, industrial design and technological innovations in architecture. Asselbergs was chairman of the Archiprix foundation.

## RICARDO AVELLA

Ricardo Avella (1984) graduated cum laude in 2010 as an architect at both the Politecnico in Turin (Italy) and at the Universidad Central de Venezuela, where he also worked as a lecturer for four years. In 2015 Avella founded his own studio in Caracas, ATA taller de arquitectura, where he works as an architect and planner. In 2017 he completed the European Post-Master in Urbanism at Delft University of Technology and nowadays lives partly in Venice and in the Netherlands.

## ALESSANDRO BIAMONTI

Alessandro Biamonti (1970) works as an associate professor at the Department of Design for the Politecnico of Milan (Italy). He is also a visiting associate professor at Tokyo Metropolitan University (Japan) and a member of the Research Unit Design, Theory, Research and Culture at the Universidad Estad Minas Gerais in Belo Horizonte (Brazil).

The search for sustainability is expressed, for instance, in a focus on adaptivity and the design of alternative pathways to deal with complexity and uncertainty. “We live in a world where nothing is certain anymore,” says Ricardo Avella. “In the twentieth century, we believed everything was possible: in many parts of the world there was a trend of continuous economic growth. Planners thought they could predict the future and made blueprints of how the world should look like in 20, 30 years. These days we have to deal with extremely difficult problems, such as climate change. As a result, we have to embrace complexity and approach projects in a different way. We have to take into account different future scenarios and therefore move towards an open and flexible design that can adapt if circumstances require this. That is a way of thinking that I discovered in the Netherlands and Italy.”

**SUSTAINABLE NATIVES**

Throughout the interviews, the idea that shines through is that the architecture of the future, around the world, will be strongly influenced by challenges and solutions in the field of sustainability and circularity.

“Sustainability is a broad concept,” says Thijs Asselbergs. “It's not just about energy neutrality, for example, but also about buildings that last a long time, that people love, that aren't demolished. The search for sustainability is a vision that is shared internationally in all architecture courses around the world. Sustainability, energy management and circular thinking: these are fundamental elements that we confront students and researchers with and also inspire them with. Ten years ago, sustainability was just on the agenda. Now it is an integral part of education.”

Today's student has mastered a sustainable way of thinking, says Alessandro Biamonti. “The new generation of architects was born into a society that is taking responsibility for sustainability issues. Today's students are not just digital natives but also natives in the field of sustainability. For them it makes perfect sense that sustainability plays a role in the design process. For previous generations of designers, the focus was on other things. The necessity was not there yet.”

**COLLABORATION AND ROLE OF THE ARCHITECT**

Architectural projects are becoming increasingly complex. It is therefore inevitable that more and more people work in project teams.

Asselbergs: “Projects have become very complicated. An architect must therefore be able to work in a multidisciplinary way. We also anticipate that in Delft.

> “The new generation of architects was born into a society that is taking responsibility for sustainability issues.”
>
> *Alessandro Biamonti*

The new generation of architects no longer have much interest in authorship. They aren’t independent advisors, they are entrepreneurs, they are part of the project team. The responsibility for a project is carried by multiple parties, it is no longer just the architect who has sole responsibility.

Architecture has become a production. This can be also a threat: in the end, who is responsible for the architectural quality?"

Biamonti: "The iconic figure of the master builder doesn't exist anymore. Society has changed, the dynamics have changed. Nowadays, projects are always the result of collaboration, of large teams, because we need many different skills. It is unthinkable that only one person is responsible for a project, except perhaps for media reasons. It is also about numbers: architecture is one of the most popular course choices. Every year, thousands of young professionals arrive on the market. There are simply more architects available, each with different skills."

Asselbergs: "We should absolutely stimulate all those people to take the lead in architecture questions related to society, sustainability and smart building."

> "The most successful projects are the multifunctional ones, those that deal with many issues with one design."
>
> *Ricardo Avella*

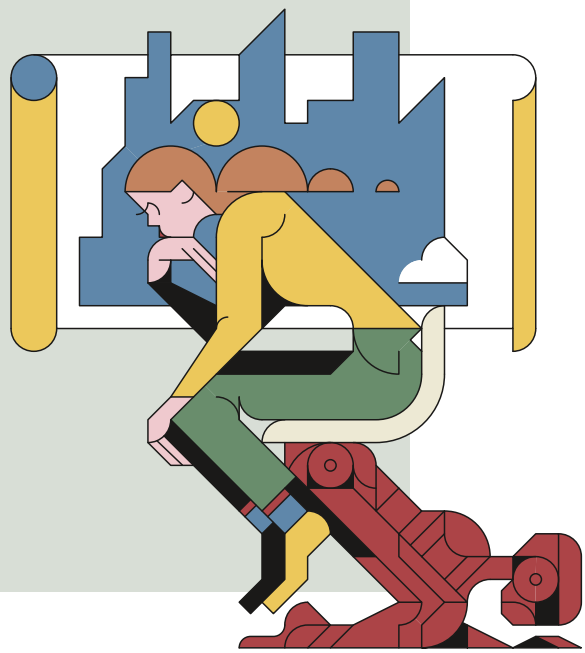
Avella agrees: "The most successful projects are the multifunctional ones, those that deal with many issues with one design. These type of projects require a high degree of cooperation between different disciplines, among them architects, engineers, ecologists, planners, sociologists, policy makers... Otherwise we may think we have solved a problem, but in doing so we cause new problems. To avoid this, you have to integrate multiple visions into the design process. And of course, that also includes the vision of the end user: those who live in the city, in the neighbourhood, in a street."

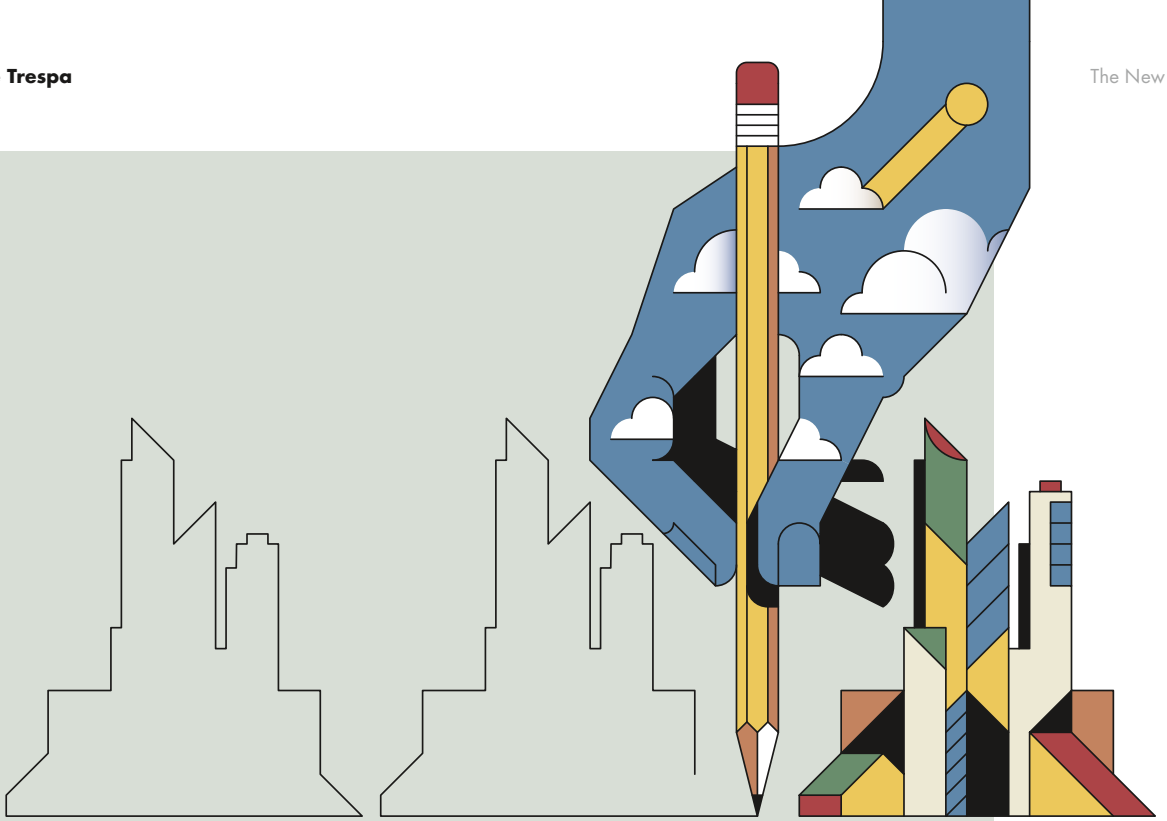
Asselbergs: "The influence of the end user is very important. In the 20th century we started with massive housing productions, because many people had to be housed. Now you see that, increasingly, we're looking at how you can adapt that mass production in alignment with the people themselves and how you can provide an answer for what is actually needed: mass-customised building systems. Thanks to new technologies such as the 3D printer, robotics and CNC milling methods, there are great opportunities there. You get much more freedom of form. These are very interesting developments."

#### NEW AESTHETICS AND TECHNOLOGY

Although these sustainability requirements and innovative technology have an influence on the appearance, aesthetics and originality don't necessarily take a backseat.

Asselbergs: "I think aesthetics will never be secondary. We are not aiming at that at all in Delft either. What we strive for is to make sustainability an integral part of how you create architecture. For example, we are dealing with an energy challenge. On the one hand, we want buildings to be well isolated, on the other hand, we want them to produce energy. How can we integrate photovoltaic systems not only in buildings but in the entire built environment? It is not enough to glue some solar cells on a façade. We have to find broader design solutions. That will surely lead to new innovations and will have major impact on architecture of the 21th century."





"We must work on making our own identities and cultures visible, which we must cherish."

*Thijs Asselbergs*

Biamonti: "The aesthetics of it remain important. A building cannot be 'functional' without producing a certain aesthetic well-being. Attention to sustainability should not be an excuse to create an ugly world. Perhaps a new aesthetic will arise, probably it has already emerged. There is no specific dominant style, it has been like that for decades. There are a multitude of styles and aesthetic languages."

Asselbergs: "Thanks to the internet you get a kind of uniformity of architecture throughout the world. I have Archiprix International, a prize for young architects in architecture courses from all over the world. We also make catalogues and books from that. In it you can see that everyone is looking at each other. Whether you are in Dubai or London, in Sydney or at De Zuidas in Amsterdam, everything will look the same. Whether that's positive? It's terrible. We must work on making our own identities and cultures visible, which we must cherish.

Diversity must be linked to local and climatic conditions and the availability of materials. In the Netherlands we work a lot with brick, in Sweden they work a lot with wood, in Indonesia with bamboo."

Biamonti: "New technologies are a tool that enables us to work faster and better and to detect design errors at an early stage, but I don't think that new technologies change the way we design. I think it is very important that universities emphasise design skills so that designers are able to devise and develop innovative or at least original solutions."


TRESPA® METEON®

## FOCUS

Available in Diffuse finish. To experience the effect of the Focus finishes, we advise to order samples.

*Bree, Belgium*

*About the Project*

**ARCHITECT**
CONTOUR ARCHITECTEN
**INSTALLER**
FTP DAKWERKEN
**SYSTEM**
FLUSH SIDINGS
**MARKET SEGMENT**
MULTI HOUSING, APARTMENTS
**YEAR**
2017

**TRESPA® PRODUCT**
TRESPA PURA NFC®
WOOD DECORS

PU17

**FINISH**
MATT

**SENIOR SERVICE APARTMENTS**

# SUBTLE CONTRAST

A MAJESTIC HISTORICAL VILLA AND ITS SURROUNDING GARDEN IN THE PICTURESQUE CITY OF BREE, BELGIUM WERE THE PERFECT SETTING FOR A MODERN SENIOR HOUSING COMPLEX. THE FAÇADE MATERIALS WERE ABSOLUTELY NOT ALLOWED TO HAVE GLOOMY HUES AND COLOURS, AS CREATING A HOLIDAY FEELING FOR THE RESIDENTS WAS ONE OF THE PROJECT DEVELOPER'S REQUIREMENTS. ARCHITECT THOMAS ROEX: "THE WHITE PLASTERWORK CONTRASTS SUBTLY WITH THE TRESPA PURA NFC® PU17 AGED ASH AROUND THE BALCONIES, GIVING THE BUILDING A PLEASANT OPEN AND AIRY LOOK."

**URBAN - GREEN - PEOPLE**

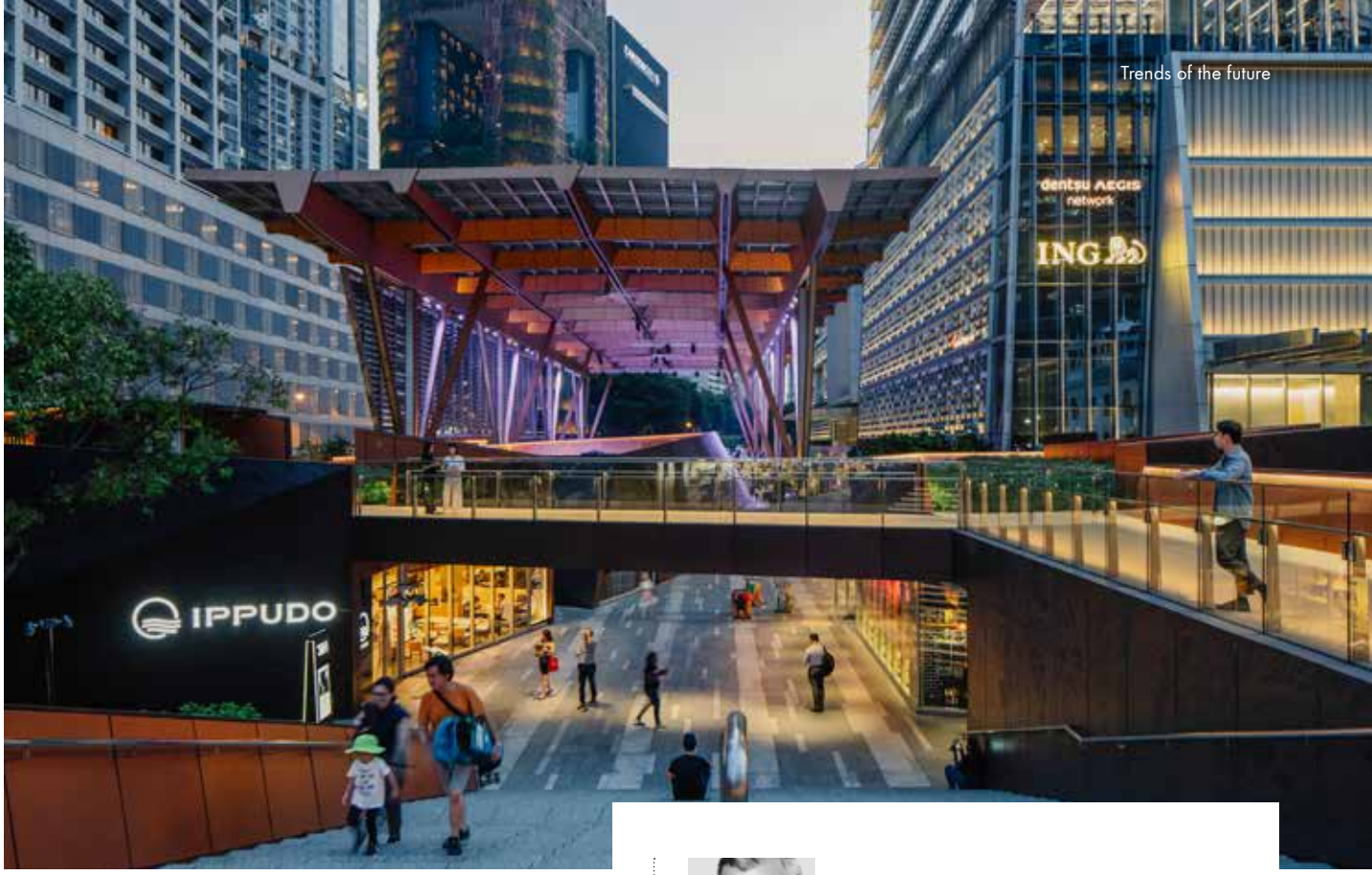
# ARCHITECTURAL TRENDS

THREE WORLD-RENOWNED ARCHITECTURAL FIRMS REFLECT ON THE FUTURE OF ARCHITECTURE. THEY ARE KNOW FOR THEIR VISIONARY WORK, WHICH FOCUSES ON SUSTAINABILITY, URBAN LANDSCAPE AND PEOPLE.

**PETER J. KINDEL**
SOM

**KRISTOFFER HOLM PEDERSEN**
SLA

**GIANCARLO MAZZANTI**
EL EQUIPO MAZZANTI




TANJONG PAGAR CENTRE | *SOM. Photo Credits: Studio Periphery*

## COMPLEMENTING THE ENVIRONMENT THROUGH URBAN DESIGN

**TEXT** CAMILO SMITH

Peter J. Kindel sees the future of design and architecture in the world's biggest cities as one with fewer people driving around in cars, and a growing trend towards creating master plans that preserve the environmental characteristics of cities.

"I think there's going to be a new emphasis on the quality of our public spaces as more people move into cities," he says. In fact, 68 percent of the world's population will be living in large cities by 2050, a recent UN study shows.

"As more people live in cities, there will be demand for higher quality public spaces," Kindel says. "Everything from how they're designed to the types of materials that are used to the types of sustainable characteristics that they have."

Kindel is the West Coast Director of Urban Design and Planning for architecture firm Skidmore, Owings & Merrill (SOM) and has spent the last 25 years putting plans in place for some of the largest urban environments in the world. Strengthening places, not marginalizing them, is part of what he plans to do. One example that bears his touch is a rapidly growing city in Texas, U.S.A.

*Peter J. Kindel, SOM*

"As more people live in cities, there will be demand for higher quality public spaces."

"Houston has a particular environment that should be preserved, and not only preserved, but incorporated into the design of the city. Chicago has a different environment, San Francisco has a different environment," Kindel explains when referring to some of the largest cities in the U.S. "Each of these cities has a unique personality from an ecological standpoint. We think it's important to design cities in a way that complements and strengthens those local ecologies, rather than diminishes them. That's one big thing that cities will be incorporating in their future planning."

Dealing with the challenges of nature, especially in coastal environments and cities with water management issues requires some creative thinking, Kindel offers. On one such project, completed in 2009 in Houston's Texas Medical Center, a 675-acres development, Kindel helped create solutions to the area's problems with rainwater and flooding.

WILD MILE | *SOM*

WATERLINE | *SOM*

SEAGULL ISLAND | *SOM*

> "Tomorrow's urban areas will emphasise rail and recreational pathways."
>
> *Peter J. Kindel, SOM*

"What we advocated at the Texas Medical Center was to redesign the Brays Bayou to be more accommodating of flooding and to design the campus in a way that the buildings would be protected from flooding through the design of the landscape, and the topography of the land," Kindel says. He offered suggestions to help create an area that was flood resistant and more resilient. It's the kind of thinking that also went into projects Kindel has worked on in China's Pearl River Delta, in Jakarta, Hong Kong, and in Chicago.

In addition to trends in sustainability of land resources in future cities, there is also a move towards pedestrian-focused districts within these cities, Kindel says. Tomorrow's urban areas will emphasise rail and recreational pathways. "The car will gradually become less of a dominant force in the design of cities," he explains.

High-speed rail will be one of the reasons for the push away from automobiles. Kindel, who lives in San Francisco, says that while the US lags on implementing rapid rail travel, other countries have embraced it, and with the innovation in travel comes specific design parameters.

"You want to increase density around high speed rail stations and provide both commercial and residential development around high-speed rail stations, so it becomes easier for people to move around. They don't have to rely on their cars," according to Kindel.

REINVENT PARIS | *SLA + Jacques Ferrier Architectures.*



"We want to take nature into cities to improve quality of life." *Kristoffer Holm Pedersen, SLA*

## TAKING NATURE INTO CITIES

**TEXT** JOHN EDWARDS

SLA is a multidisciplinary architectural lab based in Copenhagen, Aarhus and Oslo. The firm employs a wide range of disciplines, from architects and city planners to biologists, sociologists and forest engineers. Through innovative use of nature, design, sustainability and technology, SLA creates modern, adaptable cities that inspire community and diversity, whilst challenging and expanding the boundaries of urban space, city planning and landscape architecture.

Nature is the focal point for all of SLA's activities. In fact this is a fundamental principle: nature's grown environment and the constructed and built environment are considered complementary, constituting a holistic architecture together. SLA has realized numerous projects in Denmark, Europe, Asia and Africa.

"We started some 30 years ago as a more traditional architectural studio," explains Kristoffer Holm Pedersen, Head of Communications and Business Development at SLA A/S. "However, today we mainly take care of city strategies and advise governments, and also work on master planning and public space design. However, we also work together with architects to create, for example, living walls and new façade solutions. Because complex problems sometimes require solutions that go beyond building we work with multidisciplinary teams."

"We see a number of key trends affecting architecture and urban planning. Urbanisation is, of course, a global megatrend. This is placing ever-increasing pressure on cities, which is a universal challenge. Looking at this from our perspective, which is based on solving problems using natural principles and processes, we want to take nature into cities to improve quality of life as well as deal with practical issues."

HANS TAVSENS PARK AND KORSGADE | *SLA*

SUND NATURE PARK | *SLA*

AMAGER BAKKE | *SLA. Photo Credits: Ehrhorn Hummerston.*

"Cities are getting bigger, but many are breaking down and inhabitants seem less happy. There are several causes, from social strain to climate change. We believe that the way our cities have been organized for the past 100 years has been too focused on buildings, planning and efficiency, and not enough on natural aspects, which make cities more adaptable as well as better and healthier to live in–there is plenty of scientific evidence for this. Introducing natural elements also makes the environment more human. This is a very important aspect. We're not against tall buildings, for example, but these should only be introduced wherever they add quality."

"Sustainability shouldn't be the end goal for cities, but the starting point. Introducing natural elements can do much more than simply make a city $CO_2$-neutral. Green façades, for example, don't just look good, but can add functionality. We've worked on introducing green façades near the polluted Paris peripheries ringroad, for example. These capture pollution particles and turn them into plant fertilizer, whilst also serving as community gardens. We know that sitting inside and looking at nature improves your health, so can we create façades that maximise that positive effect?"

> "Sustainability shouldn't be the end goal for cities, but the starting point."
>
> *Kristoffer Holm Pedersen, SLA*

"Weather will become more extreme: hotter, colder, wetter… New cities will have to be designed to thrive under those conditions and all existing structures will have to be adapted to that. That means robust designs and more flexible buildings. What's more, rapid developments in building intelligence and IoT are fundamentally changing cities, and we need to make sure today's designs take this into account. We're trying to picture the cities, buildings and functionalities of the future, and design for these, even though we can't precisely predict that future. We do know, however, that architects and urban planners mustn't be dogmatic and must stop thinking in historical paradigms!"

## FOCUSING ON PEOPLE AND A SUSTAINABLE SOCIETY

**TEXT** SANDRO MARINI

"People" is the word chosen by Giancarlo Mazzanti to summarize the scope of architecture. His work, which spans over more than 25 years, is based on how architecture can foster new behaviours and transform its surrounding with a positive impact.

The name of his Colombian-based firm, El Equipo Mazzanti, gives insight into his multidisciplinary approach. "The idea of the name came by understanding that, since I began working, I have been teaming up not only with other architects and architecture offices but with professionals from different areas like artists, lawyers, biologists, designers, engineers," he says.

The structure of El Equipo Mazzanti is not completely vertical. "In our projects we proceed taking into account everybody's ideas and thoughts, so it is not only about multidisciplinarity which is basic for architecture, but also about understanding and involving all the actors around the project," Mazzanti explains.

21 ATLANTICO KINDERGARTENS | *El Equipo Mazzanti. Photo Credits: Alejandro Arango.*

21 ATLANTICO KINDERGARTENS | *El Equipo Mazzanti*

> "I have been teaming up with professionals from different areas."
>
> *Giancarlo Mazzanti, El Equipo Mazzanti*

He believes architecture has a key role in the construction of a competitive and sustainable society. Hence, his projects focus on promoting social change and the well-being of the community. For instance, El Equipo Mazzanti designed in 2011 a sports centre known as Forest of Hope. Located in Soacha, in the outskirts of Bogotá, Colombia, the space has become a place to practice sports as well as a social and educational meeting point for the community. The open structure is made of modules, allowing it to grow and to adapt according to the needs. It is also an icon, easily recognizable by everyone in the area.

Besides open systems, Mazzanti focuses on the creation of modular designs that can be reproduced and implemented taking into consideration topographic differences and the available plots. One such project is a system of 21 kindergartens made for Colombia's Department of Atlántico. The design, based on one module that is then combined, allows to present closed spaces as independent and self-contained. They can be used as classrooms but are also ideal for community activities. Once again, the disposition foresees the possibility to make changes in the future.

In each of his projects, communicating the architecture is as essential as learning from the community and those that will be involved with the structures. His team asks questions, investigates and experiments.

For Mazzanti, the value of public building is not the building itself but how it promotes the community life. "I do believe in 'agritecture' understanding it as self-sustainable architecture with which you can produce and participate in circular economies. I've found value in buildings capable of producing things, how can they be useful for the communities that are going to use them." Each element of the building provides a space for interaction and relations. Therefore, architecture is a mechanism to foster these exchanges.

MARINILLA EDUCATIONAL PARK | *El Equipo Mazzanti. Photo Credits: Rodrigo Davila.*

SANTA FE DE BOGOTÁ HOSPITAL | *El Equipo Mazzanti. Photo Credits: Alejandro Arango.*

When thinking about how urbanization and the building industry will evolve over the next 60 years, Mazzanti points to the responsibility of working towards better and cleaner technologies. "Nowadays, construction is one of the most contaminating stages of the whole process," he says.

> "To me it is interesting to explore through form and material how to engage in new behaviours."
>
> *Giancarlo Mazzanti, El Equipo Mazzanti*

An area of interest is to understand how new materials as well as traditional materials can be used differently. "For example, when we did Santa Fe de Bogotá Hospital we experimented with the brick by putting it in tension and not in contraction, using it as curtain that allows different atmospheres in terms of light, ventilation and privacy. I find it very attractive to explore basic shapes and basic materials and challenge them with the new standards of efficiency; to me it is interesting to explore through form and material how to engage in new behaviours," Mazzanti explains.

The impressive 12-floor building seamlessly connects the existing parts of the complex, giving it an organized flow that helps patients navigate the hospital. The façade gives the people inside a relation with the surroundings as they can see the city and the nearby mountains.

El Equipo Mazzanti is known for being playful yet connected to the people and the landscape. "I think the office has been built itself by challenging ourselves and being risky. I will challenge young architects to start looking at architecture not as something fix but more as something that can evolve and be seen in different ways. My advice for them is to put in crisis everything that they are studying," Mazzanti says. ▪

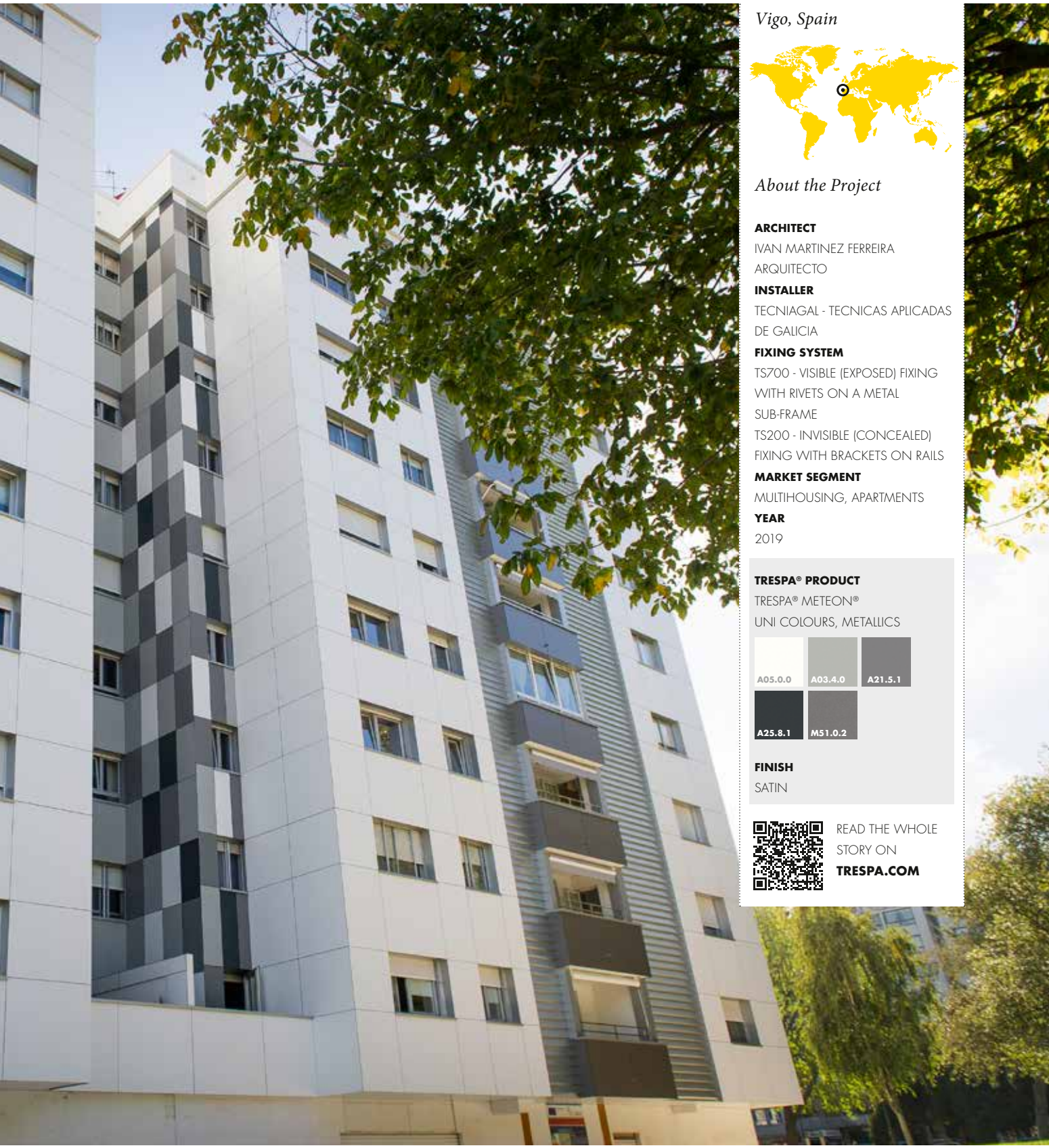
**RESIDENTIAL COMPLEX**

# BECOMING AN ICON

THE BRICK FAÇADES OF THE 1980'S THREE-BUILDING RESIDENTIAL COMPLEX WERE IN DESPERATE NEED OF A RENOVATION. THE ARCHITECTS AND OWNERS OPTED FOR A VENTILATED FAÇADE CLAD WITH TRESPA® METEON® IN SOOTHING HUES OF WHITE AND GREY. THE RESULT IS AN ELEGANT AND MODERN DESIGN THAT HAS BECOME A REFERENCE IN THE AREA. ALSO, THE RESIDENTS HAVE PERCEIVED A REDUCTION OF THEIR ENERGY CONSUMPTION.

BEFORE

AFTER



*Vigo, Spain*



## *About the Project*

**ARCHITECT**
IVAN MARTINEZ FERREIRA ARQUITECTO

**INSTALLER**
TECNIAGAL - TECNICAS APLICADAS DE GALICIA

**FIXING SYSTEM**
TS700 - VISIBLE (EXPOSED) FIXING WITH RIVETS ON A METAL SUB-FRAME
TS200 - INVISIBLE (CONCEALED) FIXING WITH BRACKETS ON RAILS

**MARKET SEGMENT**
MULTIHOUSING, APARTMENTS

**YEAR**
2019

**TRESPA® PRODUCT**
TRESPA® METEON®
UNI COLOURS, METALLICS

A05.0.0 | A03.4.0 | A21.5.1
A25.8.1 | M51.0.2

**FINISH**
SATIN

READ THE WHOLE STORY ON **TRESPA.COM**

# EXTENDING LONGEVITY WITH TRESPA SECOND LIFE

**TEXT** JOLENE GROEN

TRESPA BELIEVES THAT SUSTAINABILITY IS NOT SOMETHING YOU DREAM ABOUT, BUT SOMETHING YOU DO. WITH THE RECENTLY LAUNCHED TRESPA SECOND LIFE PROGRAMME TRESPA AIMS TO STRENGTHEN ITS POSITION AS A SUSTAINABLE COMPANY BY INCREASING THE CIRCULARITY OF ITS PRODUCT: PREPARING TRESPA® METEON® PANELS FOR A NEW LIFE AFTER THEIR DEINSTALLATION.

**TRESPA SECOND LIFE: HOW DOES IT WORK?**
Since 2019, owners of buildings with Trespa® Meteon® panels can apply for participation in the Trespa Second Life programme. Once the panels are uninstalled, they will be picked up by Trespa and prepared for new applications. This way, building owners can save on transportation and disposal costs while extending the lifetime of the product.

In order to participate to the programme, a one-off fee is requested. Also the building owner must present proof of purchase and delivery as well as proof that panels are mechanically fixed. A picture of the building needs to be provided. Once the registration has been completed, the owner will receive a certificate that entitles him/her to request for the panels to be picked up after their deinstallation, also after many years.

**WHY TRESPA SECOND LIFE?**
An important pillar of Trespa's sustainability approach is the commitment to design, create and produce a high-quality, durable product. The longer a product lasts, the longer the period of time to spread the environmental impact associated with the extraction of raw materials and the environmental costs that incurred in the product's manufacturing, such as energy consumption, waste generation and emissions. Furthermore, long-lasting products need fewer replacements. This means less use of natural resources, lower emissions and less waste than goods with short lifespans, even when their production turns out to be more resource and energy-intensive. In other words, the longer a product lasts, the more the environment benefits. Trespa is proud to say that the reference lifetime for Trespa® Meteon® panels is set at 50 years. But the company wants to do more.

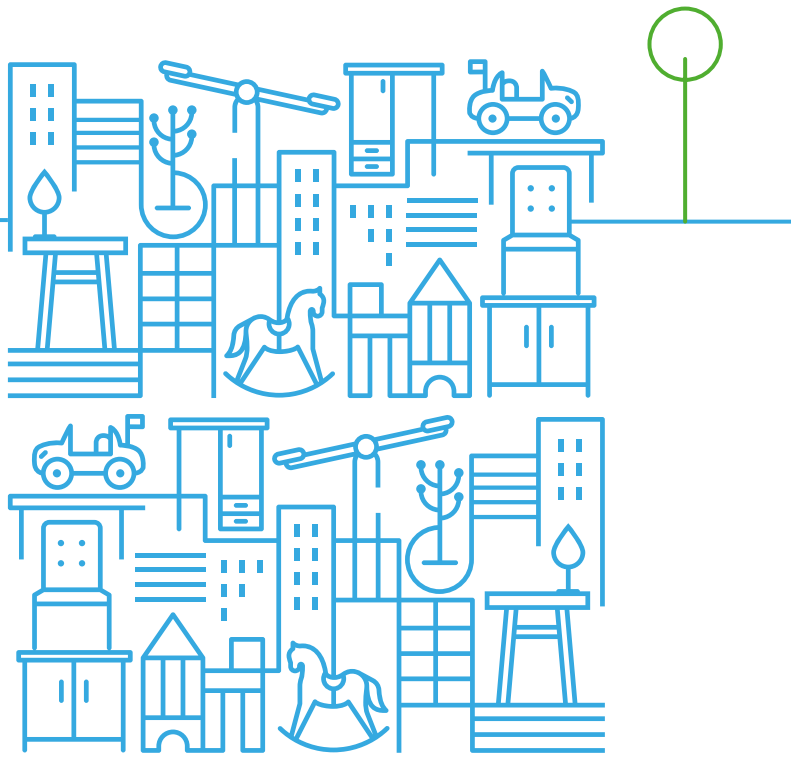
# Trespa Second Life

**1 TRESPA DELIVERS**
AFTER THE TRESPA® METEON® PANELS HAVE BEEN INSTALLED, THE OWNER OF THE BUILDING CAN APPLY TO THE PROGRAMME ONLINE THROUGH TRESPA.COM/SECONDLIFE.

**2 TRESPA PICKS UPS**
ONCE THE PANELS HAVE BEEN UNINSTALLED AND ORGANIZED IN PALLETS BY THE CLIENT, TRESPA WILL ARRANGE FOR PICK-UP..

**3 TRESPA AND/OR THIRD PARTY CLEANS AND CUTS**
IN THE CONVERSION PROCESS, THE PANELS WILL BE PROCESSED TO BE ADJUSTED FOR NEW APPLICATIONS.

**4 MATERIAL READY TO BE REUSED IN NEW APPLICATION**
ONCE THE TRESPA SECOND LIFE PANELS HAVE BEEN CLEANED AND CUT, THEY WILL BE DISTRIBUTED TO BE REUSED IN NEW APPLICATIONS, EXTENDING THE LIFE OF THE MATERIAL.



> Trespa is proud to say that the reference lifetime for Trespa® Meteon® panels is set at 50 years.

At the moment, when a building with Trespa® Meteon® panels is renovated or taken down, it happens often that the façade panels are simply discarded as waste or used for energy recovery.
Trespa thinks that this could be done better, because its high-quality materials keep their structural functionality and aesthetic value long beyond their average service time on a building. With the Trespa Second Life programme the company aims for reuse of our panels after their uninstallation. This way not only the product is kept out of landfill, its lifetime is also extended, thus making the next step towards a completely circular product.

**CIRCULAR ECONOMY**

A circular economy is a sustainable alternative to the traditional linear economy (produce, use, dispose) and aims to minimise waste and resource use, keep resources in use for as long as possible and extract the maximum value from them whilst in use. When a product reaches the end of its life, it should be reused to create further value.

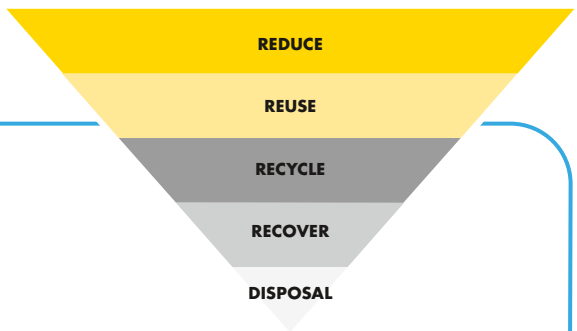
When it comes to improving waste management, the Waste Framework Directive of the European Union (2008) provides a simple figure that explains what should be the priority of actions: the Waste Pyramid. The first step is simply avoiding waste or, in other words, preventing materials from becoming waste. The waste that we do not generate does not need to be managed, does not need recycling or recovery and will not end up incinerated or landfilled. This also means: keeping products in use for as long as possible.

The second step is about finding ways to reuse products and materials, the third about recycling waste materials into new products or materials, followed by energy recovery and finally disposal. The Trespa Second Life programme focuses on the second step, reuse of panels that otherwise would be discarded. It is important to know that reuse is preferred over recycling,

> It is important to know that reuse is preferred over recycling.

because normally the recycling process is more energy-intensive and polluting. If Second Life panels can be used just as they are, and they only need to be cut and cleaned, their product life can be significantly extended while minimizing energy consumption and $CO_2$ generation. As one of the objectives of the circular economy is to maintain the value of products for as long as possible, Trespa Second Life will prioritise applications in which the product is reused at its full potential. Hence, applications where the quality of the material and its exceptional properties -durability, colour stability and mechanical resistance- is appreciated and where the product can be used in its natural form. Applications where the material is overqualified are less preferred as we believe it is important to avoid loss of product value and downcycling.

At the moment Trespa is working together with designers, customers and partners to roll out the programme and evaluate reuse possibilities. We will make sure to promote the use of our Trespa Second Life panels only for applications in compliance with all the regulations in place. The programme will be managed locally. Ideally, the Second Life panels should be used within the same country as the original project to avoid emissions related to transportation. ▪




REDUCE: LOWERING THE AMOUNT OF WASTE PRODUCED
REUSE: USING MATERIALS REPEATEDLY
RECYCLE: USING MATERIALS TO MAKE NEW PRODUCTS
RECOVER: RECOVERING ENERGY FROM WASTE
DISPOSAL: SAFE DISPOSAL OF WASTE TO LANDFILL

*Waste Management Hierarchy (European Union, 2008)*



**SHARE YOUR IDEAS**

CIRCULARITY AND SUSTAINABILITY REQUIRE EFFORTS FROM ALL STAKEHOLDERS TOGETHER. WE ARE DEVELOPING THIS PROGRAMME FROM ZERO AND WE ARE PASSIONATE ABOUT IT. WE WELCOME YOU TO GIVE US IDEAS ON APPLICATIONS FOR TRESPA SECOND LIFE MATERIALS, INTRODUCE US YOUR CIRCULARITY PROJECTS, OR JUST GIVE US YOUR OPINION ABOUT THIS PROGRAMME.

FOR MORE INFORMATION ABOUT TRESPA SECOND LIFE, PLEASE VISIT **TRESPA.COM/SECOND-LIFE**


TRESPA® METEON®
**LUMEN**

**L2151**
London Grey

To experience the effect of the Lumen finishes, we advise to order samples.

*Corsica, France*

*About the Project*

**ARCHITECT**
ADP ARCHITECTES
**INSTALLER**
SOCOFER
**FIXING SYSTEM**
TS700 VISIBLE (EXPOSED) FIXING WITH RIVETS ON A METAL SUB-FRAME
**MARKET SEGMENT**
EDUCATION
**YEAR**
2018

**TRESPA® PRODUCT**
TRESPA® METEON®
LUMEN

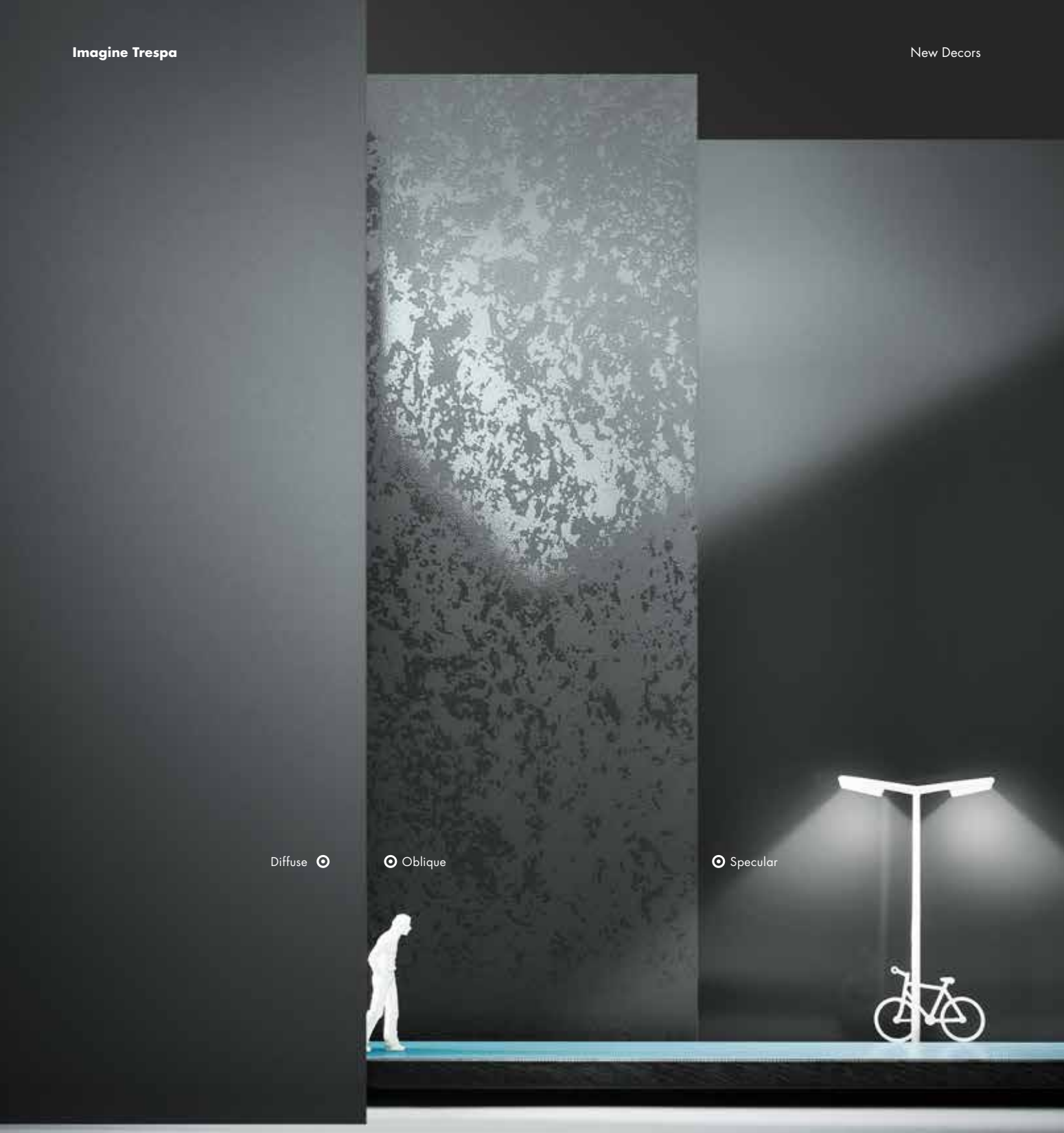
L05.0.0

**FINISH**
DIFFUSE

**SIMONE VEIL ELEMENTARY SCHOOL**

# MEDITERRANEAN INSPIRATION

LOCATED IN THE HEART OF THE SALINES DISTRICT IN AJACCIO, THIS ELEMENTARY SCHOOL HAS A KEY ROLE IN THE NEIGHBOURHOOD. REPLACING THE 1970S SCHOOL BUILDING, THIS BRIGHT AND AIRY COMPLEX GIVES THE AREA A CONTEMPORARY APPEARANCE, WHILE ITS MODERN DESIGN AND WHITE, SUN-REFLECTING FAÇADE RECALL MEDITERRANEAN ARCHITECTURE.




TRESPA® METEON®
**LUMEN**

**L1971**
Iceland Grey

To experience the effect of the Lumen finishes, we advise to order samples.

# A PERFECT MATCH FOR EVERY ARCHITECTURAL VISION

**TRESPA® METEON®**

## HIGH-END AESTHETICS, LASTING QUALITY

Trespa® Meteon® is engineered for exterior covering such as façade cladding, balcony panelling, sunblinds, soffits and other demanding applications.

A broad selection of innovative finishes and striking effects, standard or bespoke colours, allow you to play with abstract variations, colours and natural appearances.

**Trespa Pura NFC®**

## EASY INSTALLATION, DURABLE DESIGN

Trespa Pura NFC® provides a solution consisting of sidings, fasteners and matching accessories.

Trespa Pura NFC® is a versatile solution for most siding projects. Both lap and flush sidings can be installed either vertically or horizontally.
The sidings can be easily handled and are simple to cut. Trespa Pura NFC® is the perfect answer for both innovative and traditional ventilated façade projects. Easy to use: pre-packed cladding available with a variety of matching components.

## **TRESPA® METEON®** UNI COLOURS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A05.0.0 Pure White | A21.1.0 Winter Grey | A22.2.1 Bluish Grey | A22.3.1 Ocean Grey | A28.2.1 Aquamarine | A23.0.4 Mineral Blue | A22.1.6 Royal Blue | A22.4.4 Brilliant Blue |
| A03.0.0 White | A03.1.0 Pastel Grey | A03.4.0 Silver Grey | A24.4.1 Steel Blue | A22.2.4 Powder Blue | A20.5.2 Lavender Blue | A22.6.2 Dark Denim | A21.5.4 Cobalt Blue |
| A05.1.0 Papyrus White | A32.2.1 Translucent Green | A30.3.2 Verdigris | A28.6.2 Mid Green | A26.5.4 Pacific | A20.7.2 Dark Blue | A25.8.1 Anthracite Grey | A21.7.0 Steel Grey |
| A04.0.0 Cream White | A37.2.3 Spring Green | A35.4.0 Cactus Green | A33.3.6 Brilliant Green | A32.7.2 Dark Green | A90.0.0 Black | A11.8.0 Ceramic Greige | A19.7.1 Charcoal Grey |
| A04.0.1 Pearl Yellow | A41.0.6 Mojito Green | A37.0.8 Lime Green | A36.3.5 Turf Green | A34.8.1 Forest Green | A14.7.2 Deep Red Brown | A08.8.1 Dark Brown | A70.0.0 Slate Grey |
| A04.0.2 Pale Yellow | A04.0.5 Zinc Yellow | A04.1.7 Gold Yellow | A10.1.8 Red Orange | A12.1.8 Passion Red | A12.3.7 Carmine Red | A12.6.3 Wine Red | A05.5.0 Quartz Grey |
| A05.1.2 Champagne | A05.1.4 Sun Yellow | A06.3.5 Ochre | A08.4.5 Rusty Red | A09.6.4 Mahogany Red | A12.4.5 East Red | A06.7.1 Natural Greige | A06.5.1 Toscana Greige |
| A07.1.1 Sand | A08.2.3 Salmon | A10.3.4 Terra Cotta | A11.4.4 English Red | A10.4.5 Sienna Brown | A17.3.5 Cyclam | A16.5.1 Mauve | A21.5.1 Mid Grey |
| A05.1.1 Stone Beige | A08.2.1 Mid Beige | A08.3.1 Stone Grey | A10.6.1 Taupe | | | | |

## **TRESPA® METEON®** PROJECT COLOURS

For the Meteon® Uni Colours Trespa is happy to create panels in bespoke colours for your project. Almost anything is possible, just tell us what you need. For more information please contact your local Trespa representative.

## **TRESPA® METEON®** METALLICS


TO EXPERIENCE THE METALLIC EFFECT WE ADVISE TO ORDER A SAMPLE.

## **TRESPA® METEON®** WOOD DECORS


## **TRESPA® METEON®** NATURALS


TO EXPERIENCE THE METALLIC EFFECT IN THE NM PRODUCTS, WE ADVISE TO ORDER A SAMPLE.

## **TRESPA® METEON®** FOCUS

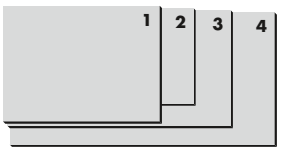

TO EXPERIENCE THE EFFECT OF THE FOCUS FINISHES, WE ADVISE TO ORDER A SAMPLE.

## **TRESPA® METEON®** LUMEN


TO EXPERIENCE THE EFFECT OF THE LUMEN FINISHES, WE ADVISE TO ORDER SAMPLES.

### **FINISHES**


### **SIZES**




**1** 2550 x 1860 mm (≈ 100 x 73 inch)
**2** 3050 x 1530 mm (≈ 120 x 60 inch)
**3** 3650 x 1860 mm (≈ 143 x 73 inch)
**4** 4270 x 2130 mm (≈ 168 x 83 inch)

### **THICKNESSES**

6 mm (≈ 1/4 inch)
8 mm (≈ 5/16 inch)
10 mm (≈ 3/8 inch)
13 mm (≈ 1/2 inch)

**NOTE** TRESPA® METEON® NATURALS, WOOD DECORS, METALLICS, FOCUS, LUMEN DIFFUSE AND LUMEN OBLIQUE FEATURE A DIRECTIONAL COLOURED SURFACE. THE GRAIN OF THE METEON® WOOD DECORS RUNS THE LENGTH DIRECTION OF THE PANEL. PLEASE KNOW THAT NOT ALL PRODUCT-FINISH COMBINATIONS ARE POSSIBLE. FOR AVAILABLE SHEET SIZES, THICKNESSES AND FINISHES IN YOUR COUNTRY, PLEASE CHECK TRESPA.INFO FOR THE DETAILED AND UP-TO-DATE DELIVERY PROGRAMME AND MATERIAL PROPERTY DATASHEET. ALTERNATIVELY YOU CAN USE THE PRODUCT SELECTOR ON TRESPA.COM (AFTER CHOOSING THE COUNTRY WHERE THE PROJECT IS LOCATED).

**ORDER SAMPLES AT TRESPA.COM**

## **Trespa Pura** NFC® WOOD DECORS

**PU02 Classic Oak**

**PU08 Romantic Walnut**

**PU30 Tropical Ipe**

**PU04 Royal Mahogany**

**PU17 Aged Ash**

**PU28 Siberian Larch**

**PU24 Mystic Cedar**

**PU22 Slate Ebony**

TRESPA PURA NFC® WOOD DECORS HAVE A BROWN CORE WITH THE EXCEPTION OF PU22 WHICH HAS A BLACK CORE.

## **Trespa Pura** NFC® UNI COLOURS

**P05.0.0 Pure White**

**P03.0.0 White**

**P04.0.2 Pale Yellow**

**P28.2.1 Aquamarine**

**P03.4.0 Silver Grey**

**P05.5.0 Quartz Grey**

**P25.8.1 Anthracite Grey**

**P12.6.3 Wine Red**

TRESPA PURA NFC® UNI COLOURS HAVE A BLACK CORE.

### FINISHES



### SIZES

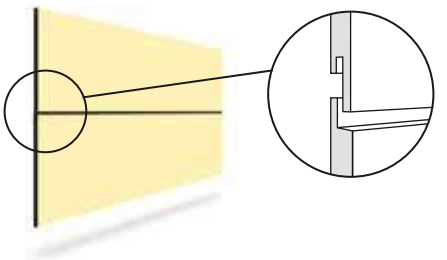
**1** 3050 x 186 mm (FLUSH)

**2** 3050 x 187 mm (LAP)

### THICKNESSES

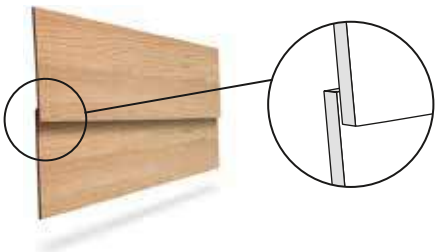
8 mm

### FLUSH SIDINGS



A FLAT, FLUSH SURFACE IS EASILY ACHIEVED BY MOUNTING TRESPA PURA NFC® CLADDING SIDE BY SIDE, HORIZONTALLY OR VERTICALLY.

### LAP SIDINGS



LAP CLADDING IS THE TRADITIONAL WAY OF APPLYING SIDINGS TO A WALL.

## **Trespa Pura** NFC® PROJECT COLOURS

In need of different Uni Colours or Wood Decors? Trespa Pura NFC® with black core is available in a wide range of standard Trespa® Uni Colours and Wood Decors. For more information, please contact your local Trespa representative.

### NOTE

TRESPA PURA NFC® IS NOT AVAILABLE IN ALL COUNTRIES. PLEASE CONTACT YOUR LOCAL TRESPA SALES REPRESENTATIVE FOR MORE INFORMATION.

**ORDER SAMPLES AT TRESPA.COM**

*Colophon*

**THINK TRESPA IS PUBLISHED BY**
TRESPA INTERNATIONAL B.V.
WETERING 20
6002 SM WEERT
TEL: +31 (0) 495 45 83 58
FAX: +31 (0) 495 45 85 70
THINKTRESPA@TRESPA.COM

**EDITORS-IN-CHIEF**
JOLENE GROEN
CLARA MARTINEZ TURCO

**CONTRIBUTED TO THIS ISSUE**
BRENDA BARTA
JOHN EDWARDS
SANDRO MARINI
LESLY MARQUINA
ERO PARTSAKOULAKI
CAMILO SMITH

**CONTRIBUTING PHOTOGRAPHERS**
MARIANA BISTI
AUBREE DALLAS
TYCHO MERIJN
JUAN FRANCISCO VARGAS M.
TRESPA PHOTOGRAPHY ARCHIVE

**GRAPHIC DESIGN & PRODUCTION**
CRECS
WWW.CRECS.NL

DESIGN CENTRE **BARCELONA**

# MEET, IMAGINE, EXPERIENCE

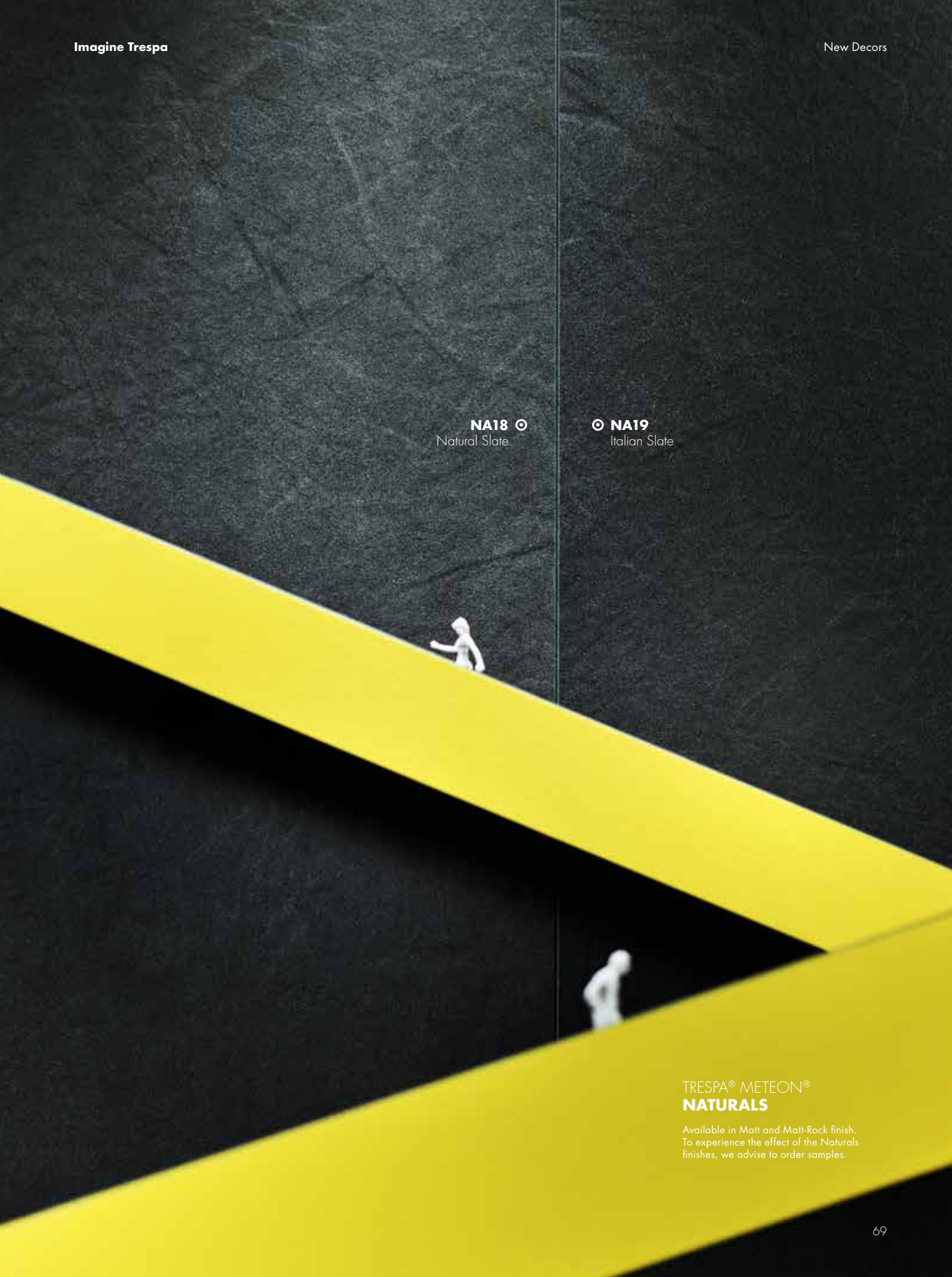
The Trespa Design Centres offer a unique environment to showcase design-related programming. Available to the design community and visitors, the spaces encourage meeting, learning and networking—they are centres to inspire new solutions and interactions in design.

Trespa invites architects, contractors, students and others interested in design innovation to experience a mixture of formal and informal opportunities—whether to have a coffee and take a look around, to discuss the ins and outs of material possibilities, or for more formal consultations about specific Trespa® products at any stage in the design process.

FOR MORE INFORMATION AND THE LATEST EVENTS:
**TRESPA.COM/TDC**



**CODE U2066**



**NA18** ⊙
Natural Slate

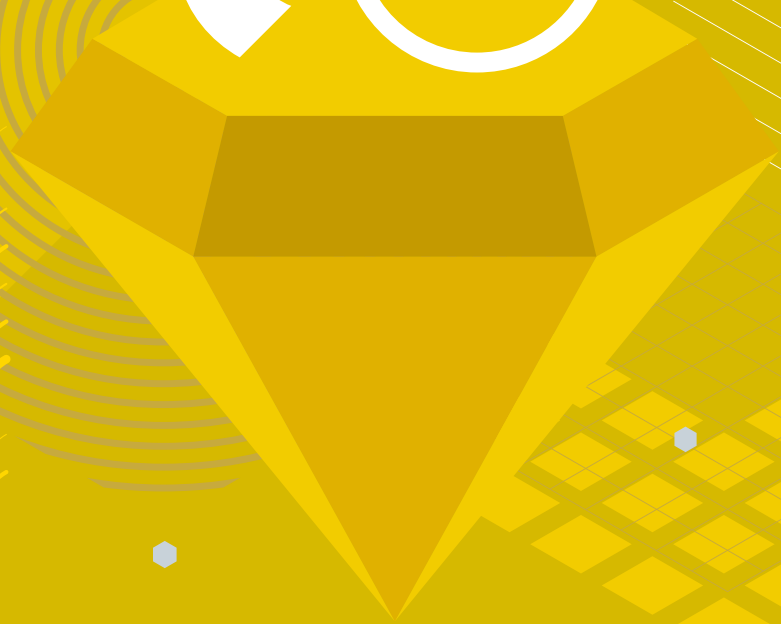
⊙ **NA19**
Italian Slate

TRESPA® METEON®
**NATURALS**

Available in Matt and Matt-Rock finish.
To experience the effect of the Naturals finishes, we advise to order samples.

# LOOKING AHEAD

READY FOR THE NEXT 60 YEARS



**60 YEARS** OF PEOPLE WORKING HARD TO OFFER YOU THE HIGH-QUALITY PRODUCTS TRESPA STANDS FOR. **60 YEARS** OF CLIENTS AND PARTNERS BELIEVING IN US. **60 YEARS** OF INNOVATION, RELIABILITY AND SUSTAINABILITY. **WE ARE READY FOR THE NEXT 60. ARE YOU?**

U2066-432146

TRESPA®