

NEW METHOD OF CONSTRUCTION

New Building Construction Method

**EXOSKELETON
FAÇADEFIRST
ODFA**

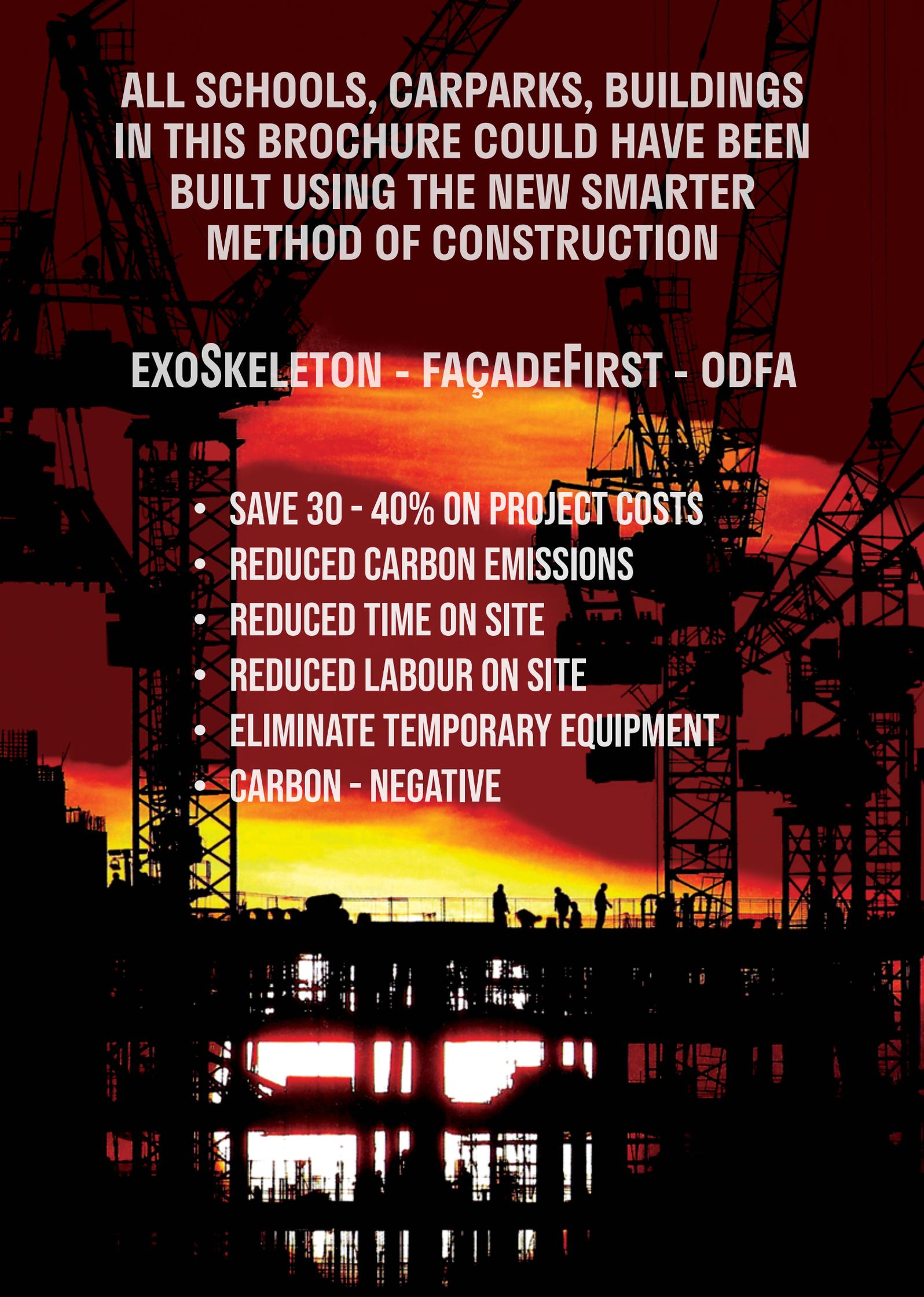
Environmentally Sustainable

**CARBON-NEGATIVE
SAVE 30-40% ON
PROJECT
COST**



**SCHOOLS - CARPARKS - HOSPITALS
COMMERCIAL BUILDINGS - APARTMENTS
HOTELS - TIMBER BUILDINGS - ANY BUILDING**

INVESTMENT - BUSINESS OPPORTUNITY WORLDWIDE



**ALL SCHOOLS, CARPARKS, BUILDINGS
IN THIS BROCHURE COULD HAVE BEEN
BUILT USING THE NEW SMARTER
METHOD OF CONSTRUCTION**

EXOSKELETON - FAÇADEFIRST - ODFA

- **SAVE 30 - 40% ON PROJECT COSTS**
- **REDUCED CARBON EMISSIONS**
- **REDUCED TIME ON SITE**
- **REDUCED LABOUR ON SITE**
- **ELIMINATE TEMPORARY EQUIPMENT**
- **CARBON - NEGATIVE**

SCHOOLS

NEW WAVE OF DESIGNS



38%

**OF GLOBAL CARBON EMISSIONS
COME FROM BUILDING AND
CONSTRUCTION OPERATIONS**

Preston's sustainability framework is underpinned by designing out waste and CO2 emission, keeping business growth as well as positive, society-wide benefits.

The construction industry needs to innovate and innovate fast.



**SAVE THE PLANET WITH
FAÇADEFIRST**



DECARBONISING CONSTRUCTION IS HAPPENING

Unless we are prepared to consider building nothing or building less, we won't achieve our carbon emissions targets.



LEADERS MUST BE BOLDER

Construction and building sectors being responsible for around 38% of carbon emissions globally, so there is clear need for this industry to meet the decarbonisation challenge.



DECARBONISING IS ABOUT MATERIALS AND METHOD OF CONSTRUCTION

While the construction industry is evolving to align more with modular construction and manufacturing processes, this is not a silver bullet or the whole solution to the build better challenge.

**all photos in this brochure are indicative only*

FAÇADEFIRST IS THE WORLD'S FIRST MAJOR SHIFT AND INNOVATION IN THE CONSTRUCTION INDUSTRY TO REDUCE CO2 EMISSION AND COST.

FAÇADEFIRST REDUCES CARBON EMISSIONS BY:

✓	Reversing Current Overburdened Wasteful Construction Method
✓	Eliminating temporary equipment - LESS CO2
✓	Reducing labour and time on site - LESS CO2
✓	Reducing waste and crane time - LESS CO2
✓	Reducing Environmental Impact - LESS CO2
✓	Improving Sustainability and productivity - LESS CO2
✓	Reducing Carbon by NOT PRODUCING CO2

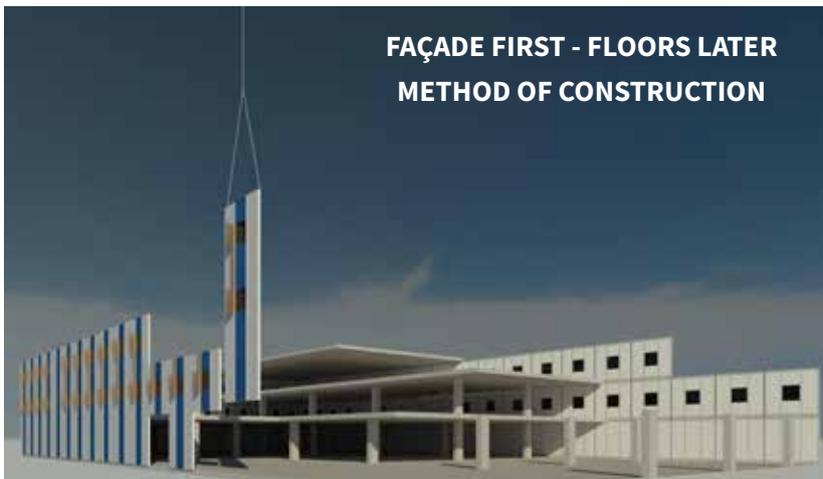


DECARBONISING IS ABOUT METHOD OF CONSTRUCTION AND MATERIAL

Construction is one of the world's most high-emission industries.

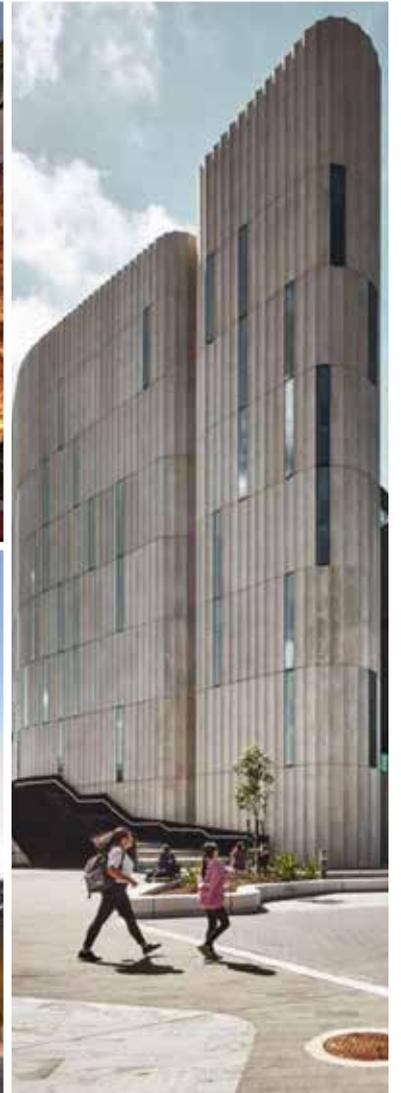
The construction and building sectors being responsible for around **38%** of carbon emissions globally. Construction uses about **32%** of the world's natural resources.

We are taking every step to ensure we contribute to decarbonising the construction industry and investing in the transition towards a zero emissions world. Innovation has led us to a New Emission CO2 Cutting **Smart Construction Method - FAÇADEFIRST**



FAÇADE FIRST - FLOORS LATER METHOD OF CONSTRUCTION

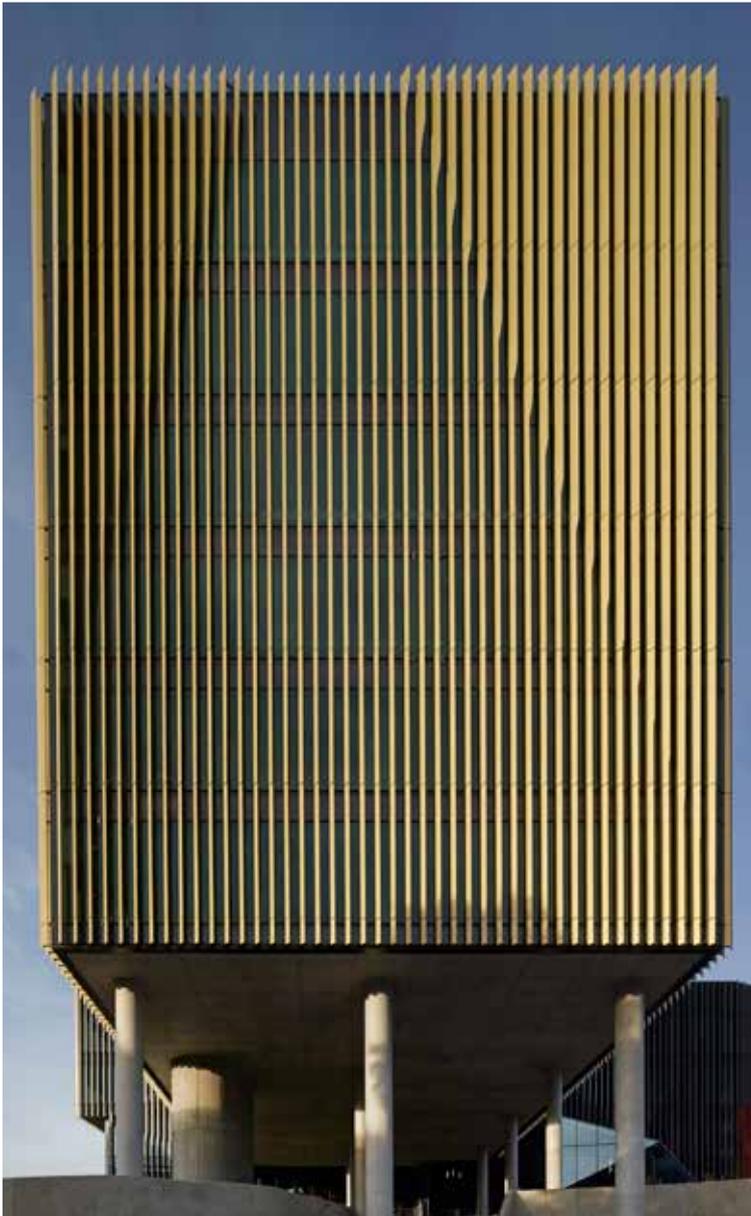


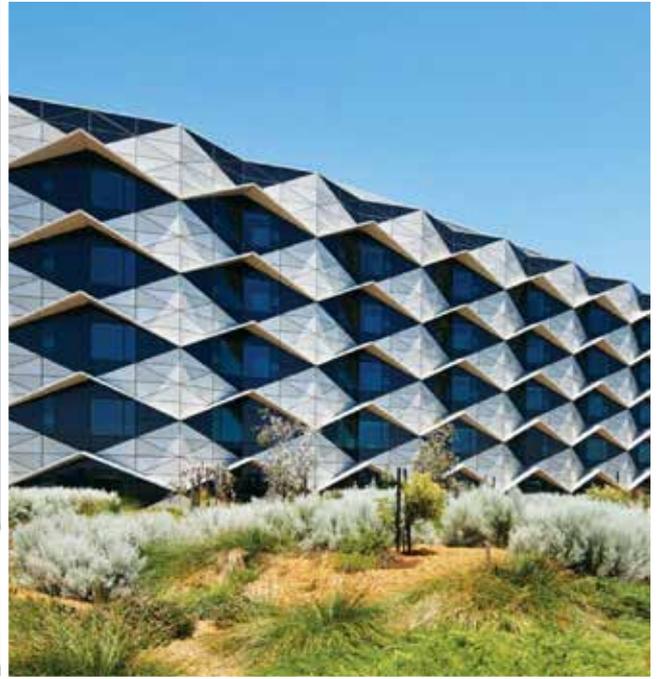














**CONTACT US FOR ENGINEERING AND TECHNICAL INFORMATION ON
EXOSKELETON - FAÇADEFIRST
NEW METHOD OF CONSTRUCTION**

EXOSKELETON - FAÇADEFIRST NEW SMART METHOD CONSTRUCTION SUSTAINABLE AND REDUCING CO2

What is Exoskeleton - FaçadeFirst

A New Smart Method of Construction, which deconstruct, eliminate, reduce and reverse the current outdated costly methodology, also reduces CO2. The façade is installed first and stays in place for the life of the building, acting as a “protective safety cocoon” while the floors and columns are being built internally; essentially building from the outside in whilst providing a safety barrier for construction workers, site activities and the public.

When was the innovation established

The innovation was conceptualised in 1984, however FaçadeFirst was considered ahead of its time in an industry reluctant to evolve and not yet motivated to embrace the change required to adopt such an innovative, yet controversial, methodology. 2018 saw the start of Australia’s construction evolution, and FaçadeFirst innovation was patented.

How has your company supported the development of this innovation

Research and development of FaçadeFirst has been ongoing since 2018, with hundreds of hours of qualitative research conducted in order to gain a thorough insight into the market credibility of our methodology. Our primary focus has been ensuring FaçadeFirst meets the world’s increasing demand for construction, **while at the same time reducing the industry’s CO2 footprint.**

We’ve engaged in extensive market research and received feedback from over two thousand individuals from varying areas of the construction industry. The consensus was, that FaçadeFirst is a smart, futuristic innovation, with the potential to change the future of the industry, and the world.

Who is leading and managing the innovation

John Preston, Managing Director of Preston Australia Pty Ltd, is the innovator charged with leading and managing the development of FaçadeFirst. However, the continuing innovation of our design is supported by a strong team of dedicated employees, each with the shared vision of FaçadeFirst changing the face of the construction industry worldwide.

We are a small business with big ideas since 1975.

Have you received any external recognition for this innovation

FaçadeFirst has received extensive industry recognition from the likes of builders, architects, structural engineers, and university engineering professors. In

fact, four universities have reached out to us to provide positive feedback in recognition of the engineering and environmental benefits of FaçadeFirst, describing it as a ‘revolutionary concept that changes the game.’

The recognition and feedback received by our peers in the industry is an integral part of Preston’s continued development in innovation. We continually strive to elevate the standard by which our industry operates and as such, we place high importance on perpetual forward motion in our approach to innovation.

Benefits – Environmental & Societal FaçadeFirst shifts industry dynamics.

The conventional methodology involved in the construction of a building today has not seen any significant changes in the last hundred years. Traditionally, scaffolding, perimeter screens and handrails etc. would be erected around the perimeter of the ‘soon-to-be’ building, prior to construction. This scaffold would act as a provisional framework, providing temporary support to the building’s structure, while at the same time, creating a platform and safety for workers to carry out the construction works.

Construction of the building, including the pouring of concrete floors and columns, and installation of the building’s exterior façade would then take place inside this scaffold or screen frame, essentially building from the inside out.

The FaçadeFirst innovation has flipped the switch on this conventional, and outdated, methodology.

The FaçadeFirst methodology results in an increased speed in construction, whilst at the same time ensuring the structural integrity of the building is preserved. The innovation also has the potential to reduce the number of workers needed on a construction site by up to 70%, helping to ensure the long-term viability of an industry that today faces a global shortage in available labour.

FaçadeFirst sees industry dynamics shift from a traditionally fragmented construction process to one that is streamlined, consolidated, and integrated.

FaçadeFirst is environmentally sustainable, delivering net zero emissions.

In addition to the safety and economic benefits of FaçadeFirst, the innovation is also environmentally sustainable.

Historically, in a bid to reduce a building’s carbon emission, the focus has been almost exclusively on operational efficiency and the reduction of a carbon footprint by the incorporation of measures such as

efficient temperature control and the use of energy efficient and natural lighting. Whilst these measures play a huge part in ensuring a building is **low carbon**, meaning the building is highly energy efficient and partially powered from renewable energy sources, these measures only come into play **after the construction of the building is complete. Reducing emissions during construction and installation** is very important due to waste, pollution and CO2 EMISSION.

Preston realised that for a building to be truly sustainable, not just low carbon but zero carbon, there was a **need to cut carbon emissions in the early stages of construction**; during the manufacturing, construction, transportation, craning, installation of the numerous other services and processes involved in the construction cycle.

It is the façade that largely determines the long-term energy performance of a building, and the longevity of the façade has a huge impact on embodied carbon. The longer the façade materials last, the less often they need to be replaced or repaired, reducing excess processing or manufacturing, and thereby increasing the amount of stored carbon and hugely reducing carbon emission.

The FaçadeFirst innovation stays in place for the life of the building as a maintenance free, permanent fixture. FaçadeFirst incorporates the use of environmentally sustainable materials, all which foster lower carbon footprints. **FaçadeFirst creates a carbon deficit before the building is operational and remains carbon zero for the duration of the building's life.**

Benefits - Business

FaçadeFirst increases productivity and reduces cost.

To its credit, the Australian construction industry has seen some small changes of late. The sector's implementation of 'modular' construction, or pre-fabricated off-site modules, has seen a slight shift towards a 'greener' form of construction. However, when comparing cost and a company's need to keep costs down, an issue plaguing the construction industry worldwide, there is little difference in the cost involved in the offsite manufacturing and transportation of modules, in comparison to on-site construction using conventional methods.

The use of Preston's FaçadeFirst innovation provides the benefit of increased productivity and a **saving of approximately 30 - 40% in building costs**. This is achieved by eliminating and reducing the use of temporary equipment and labour on site, which in turn means less waste. Less waste and equipment on site then equates to less transportation, all of which provides a construction business with the added benefit of higher profit margins, better customer service abilities and increased market competitiveness.

External partners have not been engaged in the creation of FaçadeFirst, however, in order for FaçadeFirst to

drive much-needed change in industry practices, we understand the need to collaborate with like-minded companies and individuals, to assist FaçadeFirst in gaining a real-time competitive advantage

We seek people with foresight and an environmental vision for the future; the Elon Musk's, Andrew Forrest's and Larry Fink's of the world.

FaçadeFirst is a billion-dollar innovation, capable of increasing industry safety and productivity worldwide, whilst simultaneously reducing cost, and perhaps more importantly, CO2 emission.

FaçadeFirst is ready to change the world now, today!

FaçadeFirst protects the future of the construction industry.

FaçadeFirst main goal, aside from lowering costs and increasing production, is to provide our peers in the construction industry with the benefit of reducing the sector's carbon emission and lowering its carbon footprint, thereby ensuring the future of our industry remains environmentally

sustainable and economically viable, and most importantly, ready to adapt to the world's ever-changing and evolving construction ecosystem.

Using the FaçadeFirst methodology, the façade is installed first and stays in place for the life of the building, acting as a "protective safety cocoon" while the floors and columns are being built internally; essentially **building from the outside in**. FaçadeFirst takes the place of the scaffold, perimeter screen and handrails etc, eliminating the need for unnecessary temporary equipment, onsite logistics, and providing a safe environment for construction workers inside.

Innovation - Business Model

The planet's limited resources and the uncertain future of generations to come has forced us to reconsider our approach to innovation and development, with the focus on ensuring that our actions today are not causing irreversible damage tomorrow. External factors and complex industry dynamics have impeded attempts at change in our industry and as such, the adoption of sustainability as a core element has long struggled to gain acceptance. With the growing global awareness of the need for a sustainable future, all companies involved in the construction process, regardless of where they are positioned in the construction chain, have a choice to either continue in **the industry's conservative rear-view direction**, or transform and adjust to the changing environment.

Preston, with the FaçadeFirst innovation, is actively rewriting not only its own business model, but the future of the industry's business model, and aims to attack and disrupt the industry in which we operate. This disruption requires investment and risk taking, which as a small business with limited self-investment

capacity, has proven challenging. However, Preston understands that the economic, environmental and in turn societal benefits are worth the challenges, and so, we continue in our quest for FaçadeFirst to transform the construction industry as we know it.

As such, we continue to actively engage and seek worldwide investors, developers, builders and those willing to pioneer change in our industry by incorporating the FaçadeFirst innovation into the design and construction in their newly planned building.

Innovation - Industry & Market

Historically, the construction industry, both in Australia and around the world, has proven to be very poor at innovation and slow to adapt to new ways of operating, mostly due to its risk-averse nature and highly fragmented structure. **Construction holds the dubious honour of having the lowest productivity and sustainability gains of any industry and remains responsible for some of the highest carbon emissions.**

Construction and building emits approximately **38%** of the world's carbon emissions, whilst at the same time utilises approximately **32%** of the world's natural resources. There is clearly a need for the industry to step up to meet the decarbonisation challenge.

FaçadeFirst is the solution! FaçadeFirst is an Australian owned innovation, patented worldwide, that will fundamentally transform the industry's fixed mindset and outdated methods. The FaçadeFirst innovation is forcing a substantial change and a major shift to the dynamics of the construction industry globally. FaçadeFirst has the capacity to reduce carbon emission by millions of tons through the adoption of more productive construction methods and the use of sustainable carbon-zero materials.

Preston is taking every step to ensure that the use of the FaçadeFirst innovation contributes to decarbonising the construction industry and invests in the sector's zero-emission evolution.

FaçadeFirst is the world's first major shift and innovation in the construction industry to reduce CO2 emissions and costs.

FaçadeFirst has many followers and admirers with low profit margins including many large companies in financial difficulties as per current AFR critics. **Lack of innovation in the construction industry and complacency is a big factor for low productivity and blown budgets. The construction industry must innovate to change the outdated costly construction method. FaçadeFirst is the solution!**

AFR Jenny Wiggins article on 9th March 2022 says:

"About \$15 billion a year could be saved if there were more incentives to innovate. The construction industry has a 'woeful' record on productivity, Australian Constructors Association (ACA) chief executive Jon Davies told

The Australia Financial Review. "Productivity hasn't improved in 30 years." Analysis by Oxford Economics has shown poor productivity over the past three decades has had an opportunity cost (in terms of forgone construction and economic output) of about \$35 billion on the local construction industry. **Blown budgets are a common theme on big infrastructure projects and buildings.** ACA wants a rating scheme to encourage innovative ideas from contractors rather than specifying exact materials and designs, as well as to promote collaborative working arrangements.

Governments are slow to engage however we will persist.

FaçadeFirst is "shovel ready" for its first project. Sustainability and reducing CO2 will give FaçadeFirst the credibility it deserves to kick start our innovation to start a project in the construction industry and bring a change to the way construction moves forward. FaçadeFirst will also generate new designs, new innovations while reducing carbon emissions as a prime objective.

For more information on FaçadeFirst innovation, please contact us and visit our website. prestonaustralia.com



TIMBER BUILDING

CARPARK



FAÇADEFIRST-ODFA IS PATENTED WORLDWIDE



BUILD BETTER, REDUCE WASTAGE AND CARBON

FaçadeFirst will reduce the numbers of on-site employees on a construction site by up to 70% and cut building costs by 30-40%.

WWW.PRESTONAUSTRALIA.COM



SAVE THE PLANET WITH FAÇADEFIRST METHOD OF CONSTRUCTION

FaçadeFirst eliminates: climbing perimeter screens, external scaffolding, temporary handrails, hoarding to protect public, fall arrest protection, EWP or other access equipment, formwork and other costs.



FAÇADEFIRST AND ODFA IS DESIGNING OUT WASTE AND CO2 EMISSION

FaçadeFirst and ODFA reduces: crane use, multiple handling of façade, temporary equipment, labour on site, site shed/office, storage space, other sundry items, architect cost, project schedule, engineer cost, contingent costs, interests on money and more.



EXOSKELETON – FAÇADEFIRST ONE-DESIGN-FITS-ALL (ODFA)

The current construction method is inefficient and wasteful. The greener smarter method of construction is EXOSKELETON – FAÇADEFIRST ONE-DESIGN-FITS-ALL (ODFA)

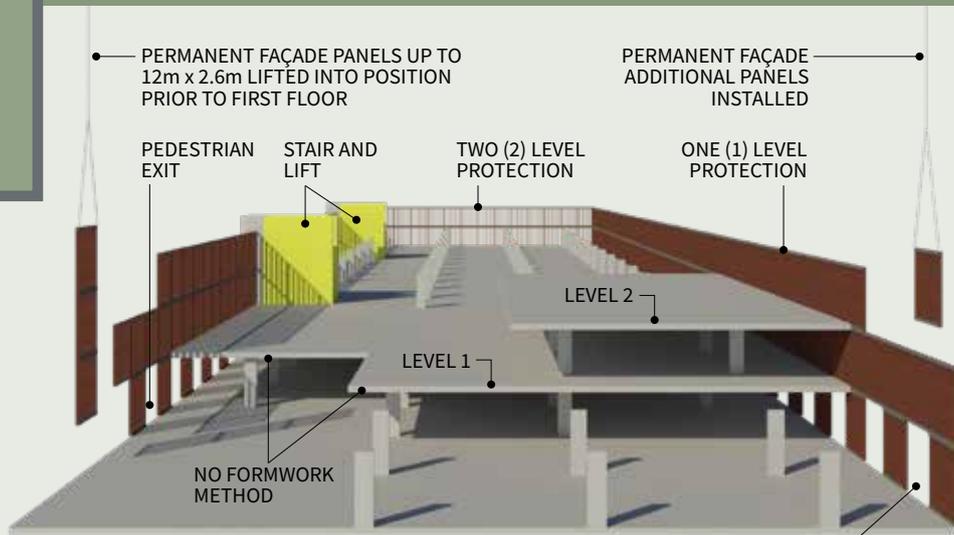


FAÇADE FIRST - FLOORS LATER
METHOD OF CONSTRUCTION

EXOSKELETAL PERMANENT FAÇADE



* CUT AWAY SECTION FOR CLARITY ONLY



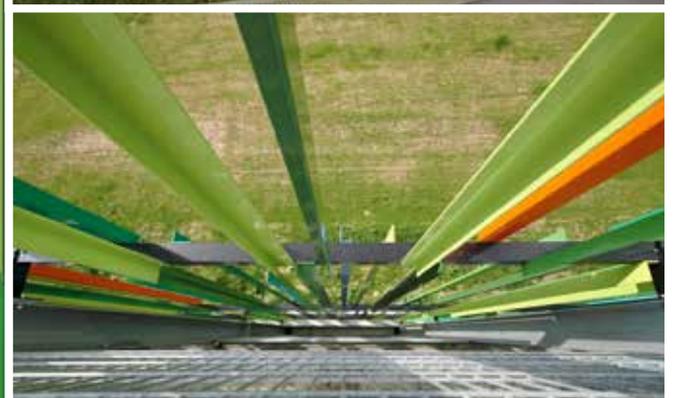
NEXT GENERATION OF CONSTRUCTION





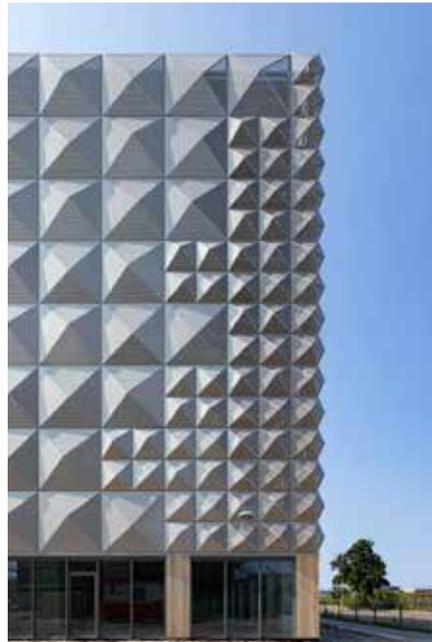


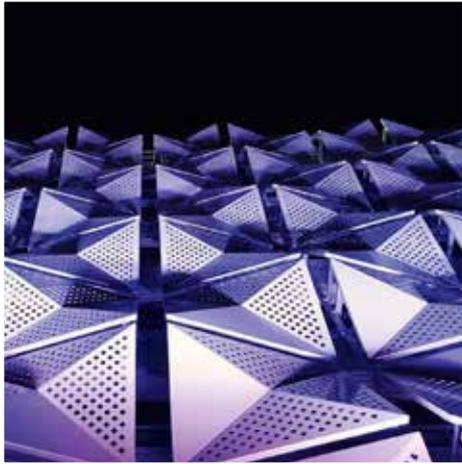
















FAÇADEFIRST

METHOD OF CONSTRUCTION:
FAÇADE FIRST - FLOOR LATER

FAÇADEFIRST Patented Method of Construction combines a permanent façade and an **exoskeletal** structural support as one unit which is **erected prior to the floors, two storeys above the uppermost floor**. The erected façade remains on site as the permanent finished façade, whilst providing a safety barrier for construction workers, site activities and the public below.

FAÇADEFIRST Method of Construction is suitable for: All types of buildings, high/low rise building, apartments, commercial buildings, hotels, hospitals, shopping centres, timber buildings, schools, precast concrete buildings and carparks.

ODFA

ONE-DESIGN-FITS-ALL

ODFA is a structural and modular Method of Construction and is a patented standardised cost-effective solution to suit all car parks, schools, apartments or any building, with the option to apply the façade using **FAÇADEFIRST** Method of Construction. Currently each car park, school and apartment is a costly singular prototype, starting from scratch on every project requiring constant new design and changes all the time.

ODFA prevents the need to make each car park, school and apartment a costly, time-consuming one-off design each time. **ODFA** is applicable on any size car park, school, apartment and other buildings.

ODFA REDUCES the architect and engineer cost up to and more than **80%**.



Reduce waste and CO₂ emission

GO GREEN

FaçadeFirst is the only innovation today when used will not produce any further CO₂ in its life span.



Design out waste and CO₂ emission.

INNOVATION IN CONSTRUCTION

FaçadeFirst will reduce the numbers of on-site employees on a construction site by up to 70% and cut building costs by 30-40%.

ALL BUILDINGS

REDUCE LABOUR BY 70%



PROVIDING IMMEDIATE SAFETY FOR WORKERS AND THE PUBLIC

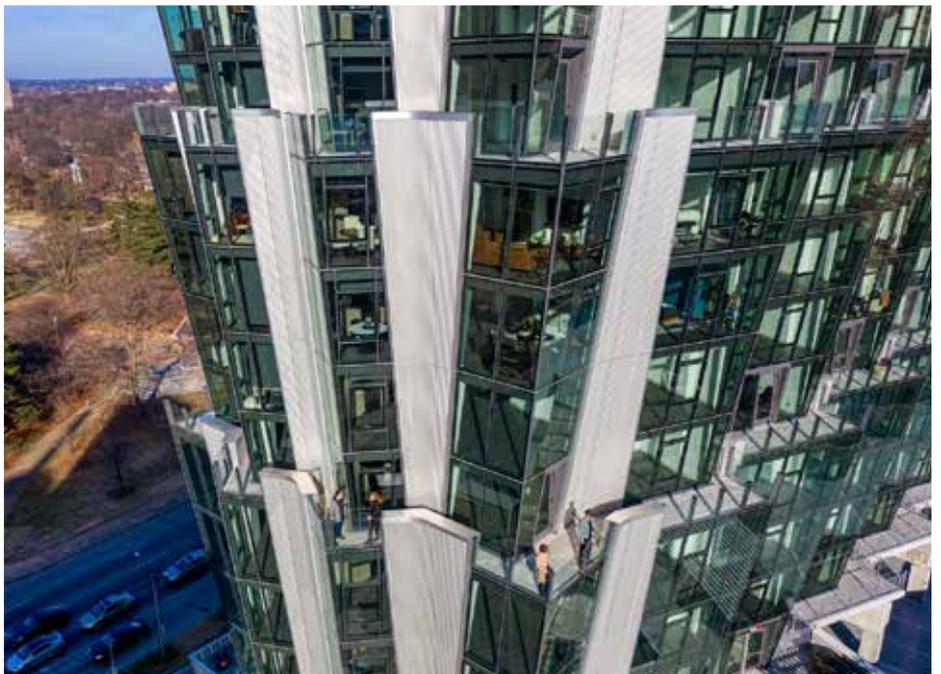
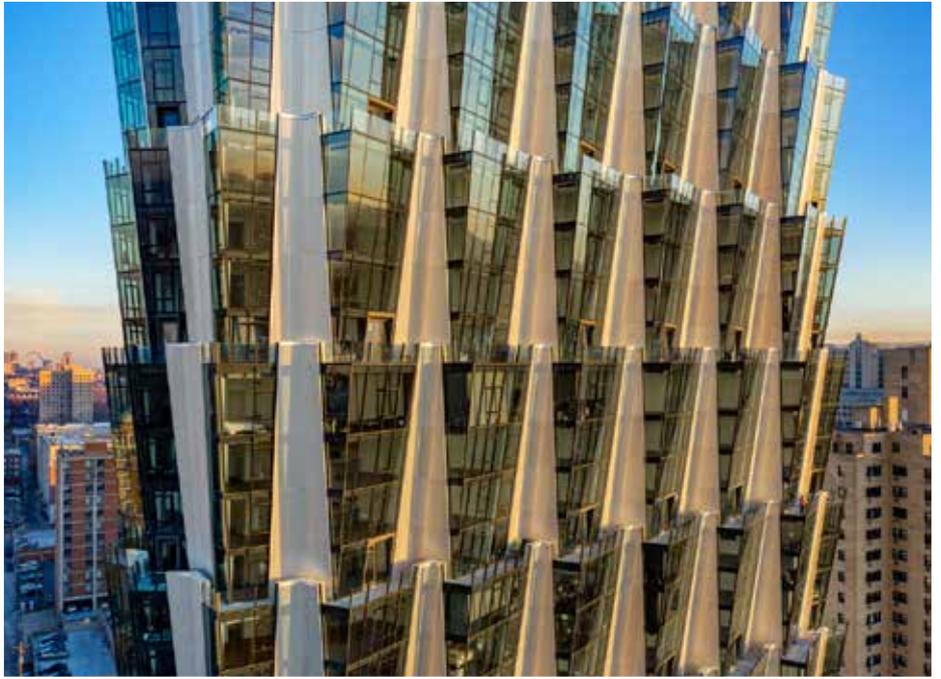
FAÇADEFIRST WILL REDUCE LABOUR ON A CONSTRUCTION SITE BY UP TO 70% AND CUT BUILDING COSTS BY 30-40%

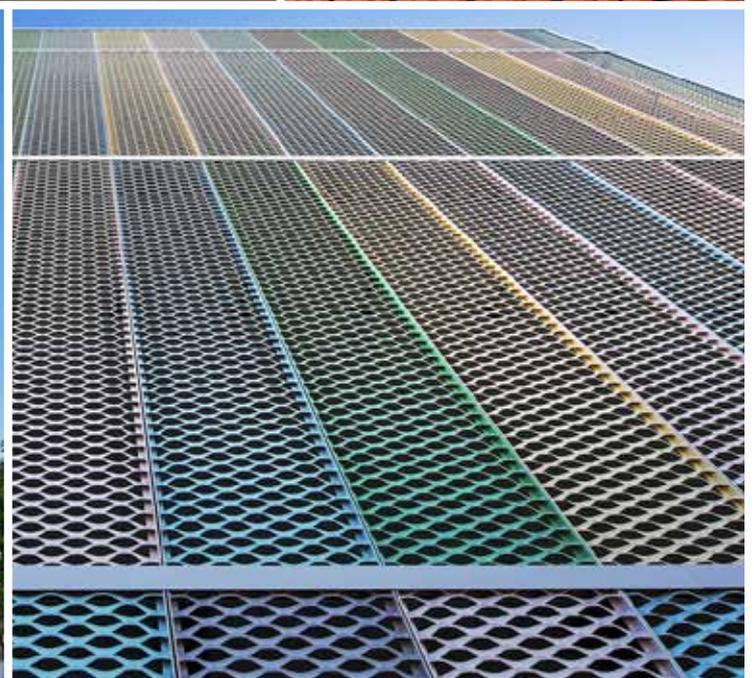
ODFA REDUCES THE ARCHITECT AND ENGINEER COST UP TO AND MORE THAN 80%

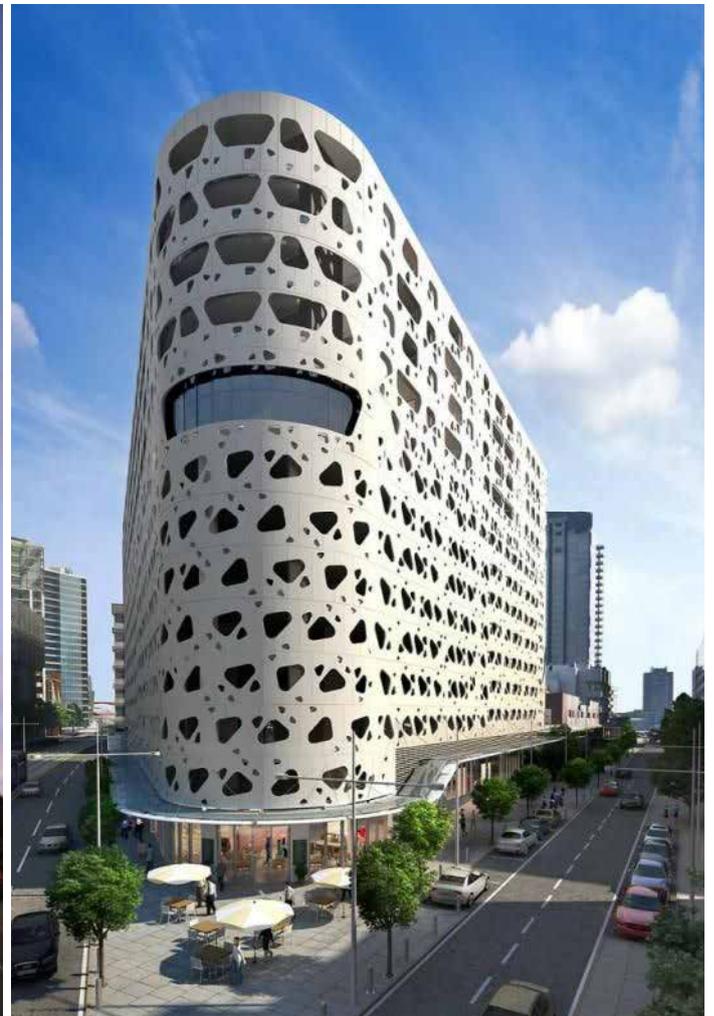
-  NO SCAFFOLDING
-  NO PERIMETER SCREENS
-  NO HANDRAILS
-  NO TEMPORARY EQUIPMENT



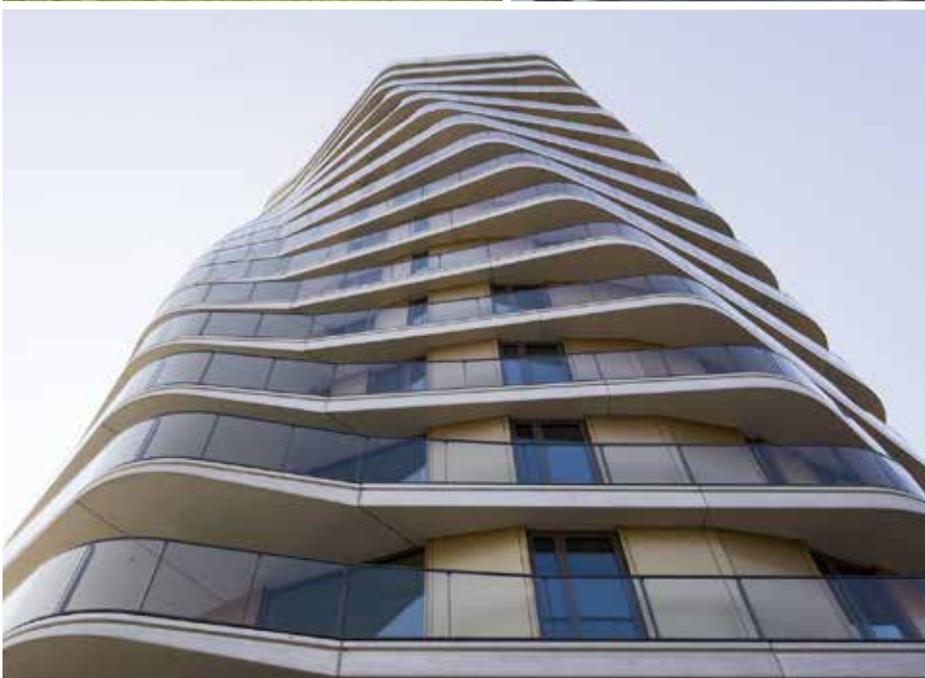
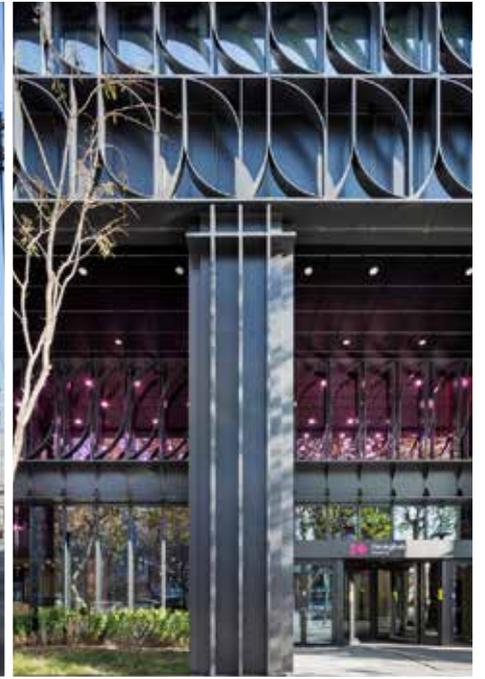








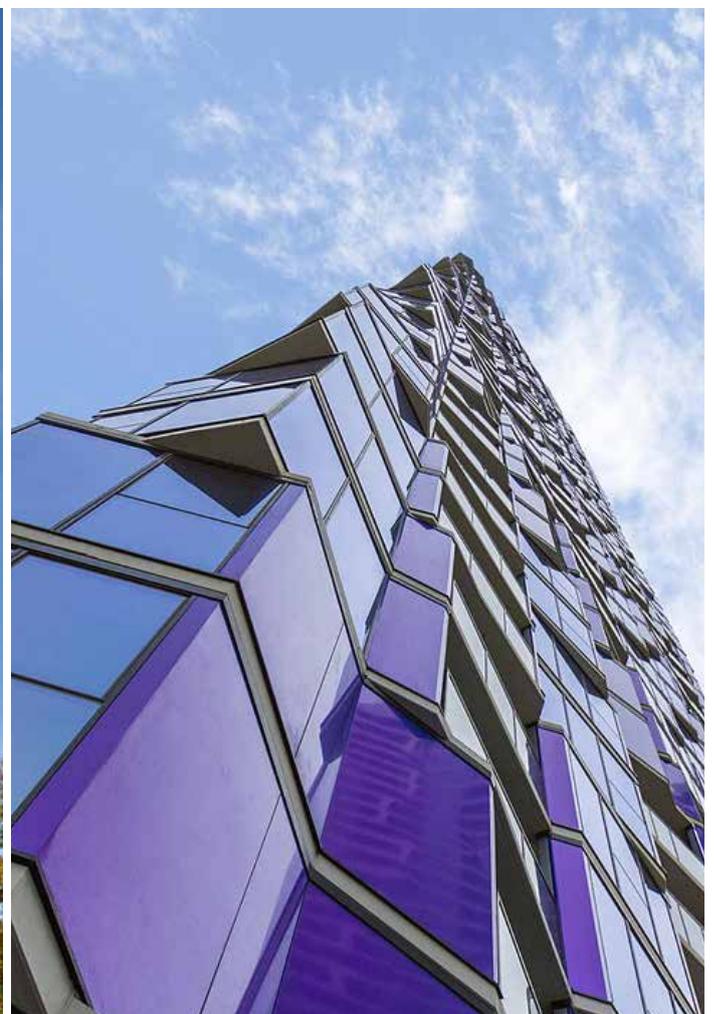




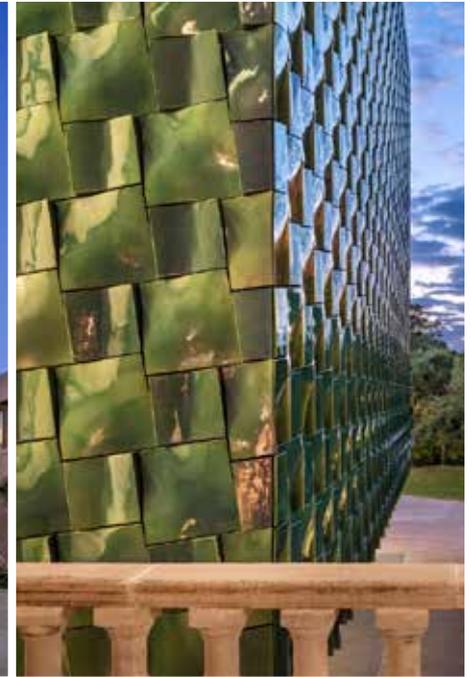








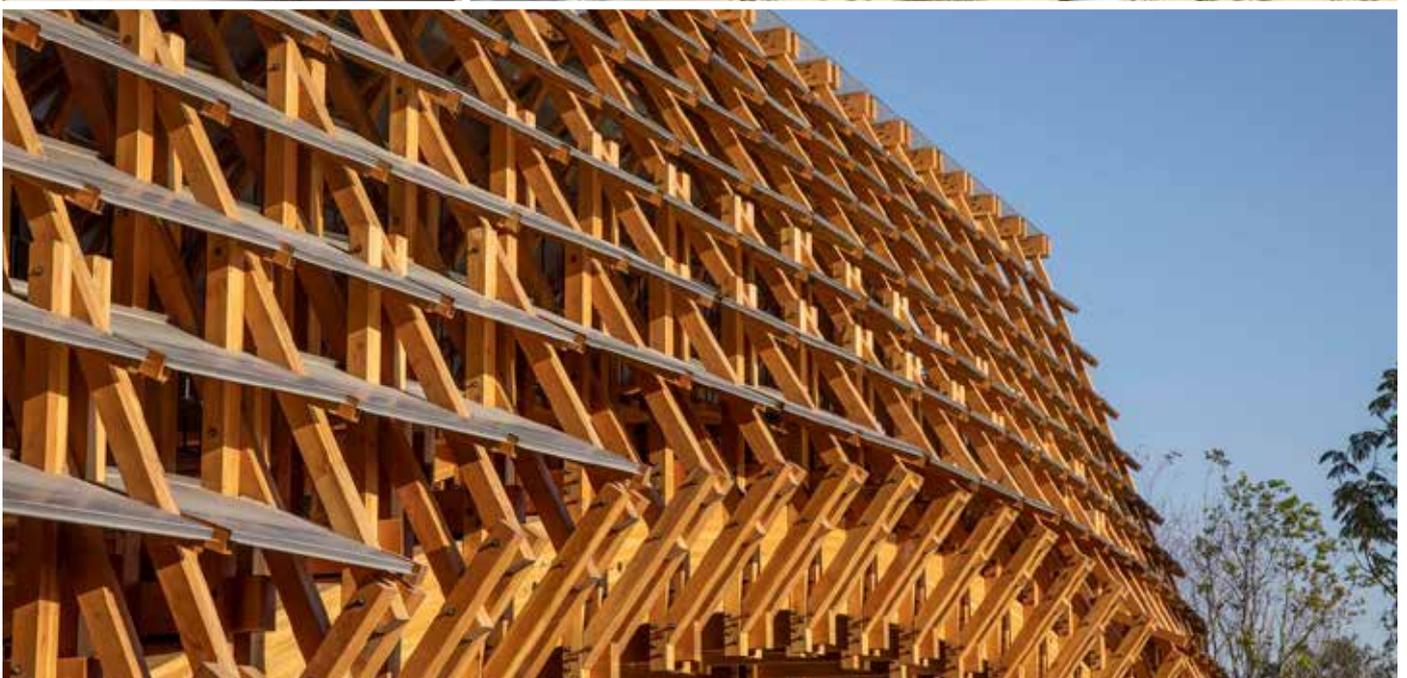




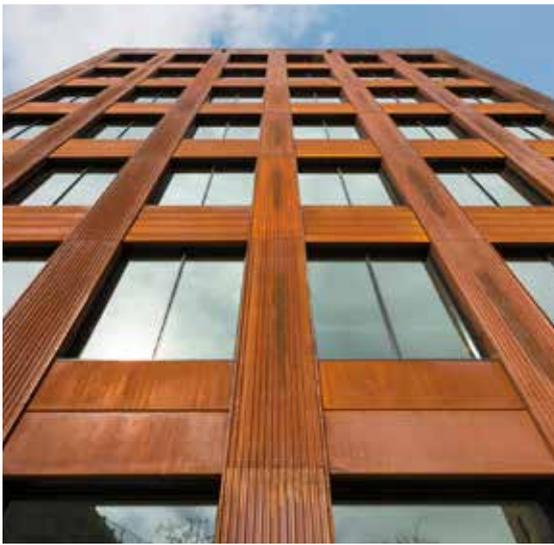
TIMBER BUILDINGS

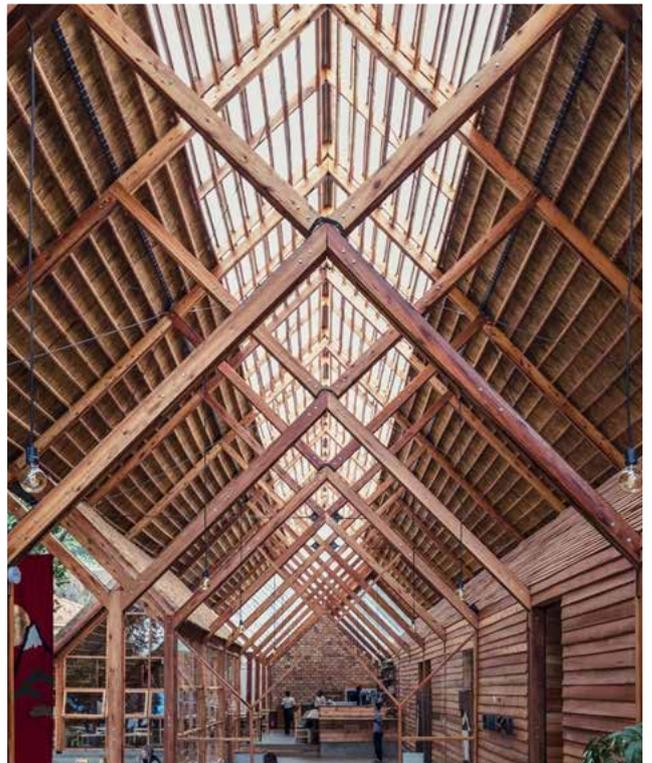




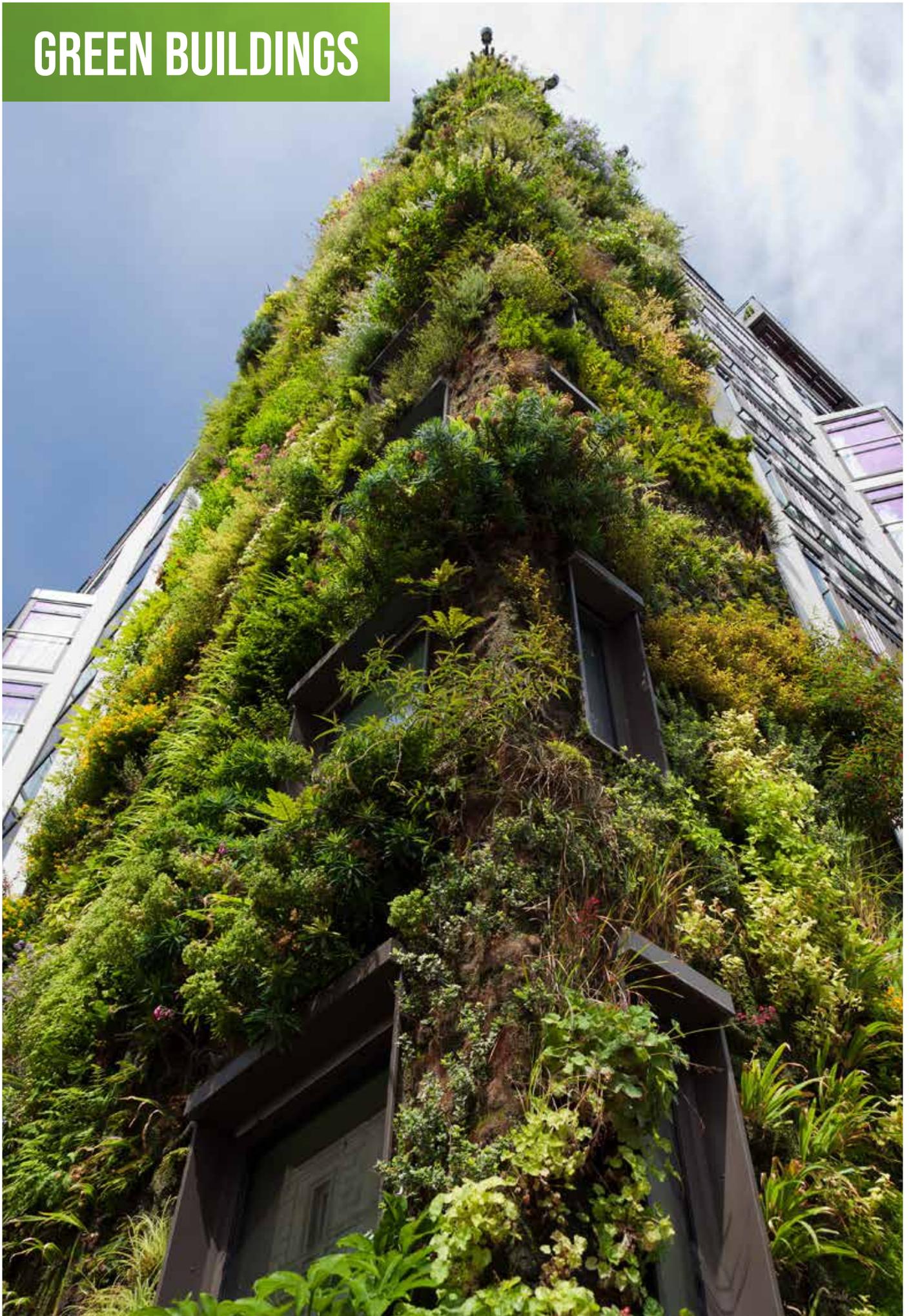


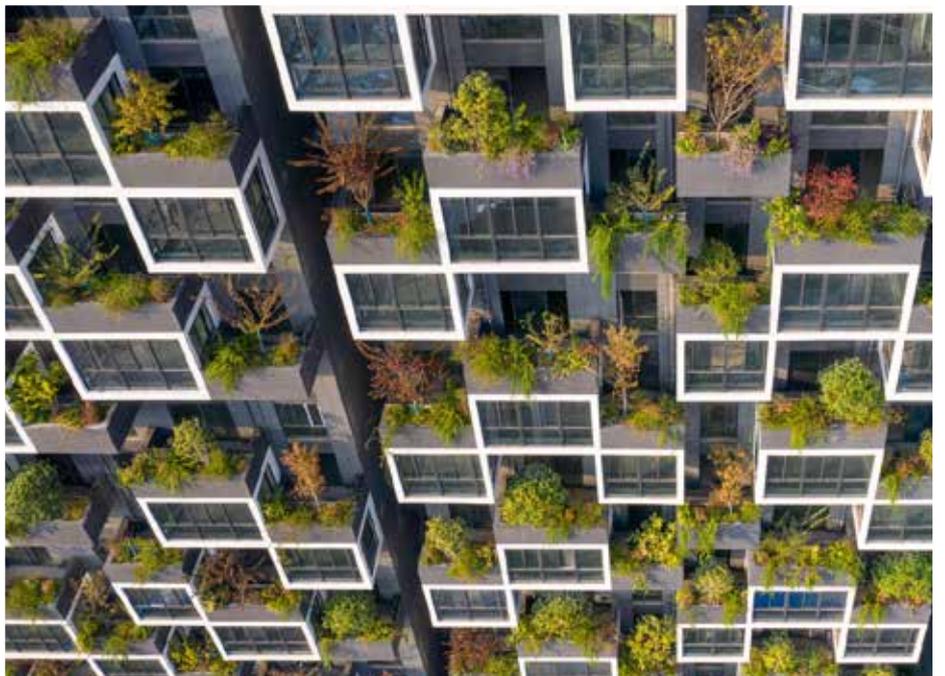






GREEN BUILDINGS





50 YEARS IN BUSINESS



SUPERACCESS TO CENTRE OF EXCAVATION



PERIMETER SCAFFOLD

SUPERACCESS



SUPERACCESS DEEP EXCAVATION STRETCHER STAIR ACCESS



SUPERACCESS SINGLE LIFT SCAFFOLD MODULE



SUPERACCESS HANGING STRETCHER STAIRS CONNECTED TO BRIDGE



SUPERDECK RETRACTABLE LOADING PLATFORM

- Est. 1969**
- 1969 to 1989**
Scaffolding, rigging, steel manufacturing, mobile crane hire, 120 employees
 - 1975 to 2003**
First patents in 1975 and later numerous patented construction equipment and products
 - 1980**
Spiderscaff scaffold system
 - 1982**
Spidernet, the first climbing perimeter screen in the world and copied by everyone
 - 1985**
Preston Scaffold, years ahead of any design
 - 1994**
Transformer Loading Platform
 - 1998**
SuperDeck Loading Platform, the best loading platform in the world
 - 2004**
SuperBarrier still on hire and sale today
 - 2010**
SuperAccess, another great invention and patented product of Preston. SuperAccess is the most advanced, safest, quickest multiple use equipment in the construction industry worldwide
 - 2018**
FaçadeFirst - Exoskeleton New Method of Construction - Save 30-40% on project cost
 - 2021**
ODFA. One-Design-Fits-All



ACCESS OVER RAILWAY

SUPERACCESS

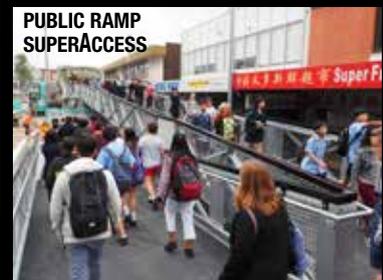


SINGLE LIFT

SUPERACCESS



SUPERACCESS



PUBLIC RAMP SUPERACCESS

SUPERACCESS | SUPERBARRIER | SUPERDECK | EXOSKELETON - FAÇADEFIRST

**BUSINESS OPPORTUNITY WORLDWIDE
PATENTS-LICENCE FOR SALE
PARTNERS REQUIRED**



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