FAÇADEFIRST
NEW CONSTRUCTION METHODOLOGY
FOR ANY BUILDING AND CARPARK
INNOVATIVE | SAFETY | PRODUCTIVITY
This brochure is designed specifically to demonstrate the FAÇADEFIRST Concept. FAÇADEFIRST can be applied to any building but not limited to apartments, commercial buildings, precast concrete buildings, timber buildings, high rise buildings and car parks.

**CONTENTS**

- In this brochure there are four (4) different patented versions of the FAÇADEFIRST Concept:
  - v1. Apartments | Timber Buildings
  - v2. Commercial Buildings | Timber Buildings
  - v3. Precast Concrete Building
  - v4. CarParks (v4.1 and v4.2) page 20 to 40.

**WHAT’S NEXT**

- When the energy of an innovation starts to bubble, the game begins to change. FAÇADEFIRST Methodology is a real game changer. Preston is the first movers to see the advantages of such a radical idea and innovation. Basically turning the current methodology upside down without changing the current products but changing the way buildings are erected currently, FLOORS FIRST, THEN FAÇADE. Preston game changer is FAÇADEFIRST, THEN FLOORS-
  SIMPLE.

- This INNOVATION is a world wide patented Australian Invention

THE PROTECTIVE SAFETY FAÇADEFIRST DURING CONSTRUCTION IS THE PERMANENT BUILDING FAÇADE.

THE CONSTRUCTION METHODOLOGY IS THE SAME FOR ALL BUILDINGS. FAÇADEFIRST IS THE PROTECTIVE SAFETY COCOON, FALL PREVENTION AND REMAINS ON THE BUILDING AS THE PERMANENT FAÇADE OF THE BUILDING.

THE INVENTION. The façade of the building designed by the builder is installed first to create the Protective Safety Cocoon up to 8m above the last floor installed, eliminating perimeter screens, scaffolding, handrail and other fall prevention.

THE PROTECTIVE SAFETY COCOON. The floors and columns are installed inside the Protective Safety Cocoon therefore, construction of the floors is always below the Protective Safety Cocoon.

THIS INNOVATION will turn the current construction process up side down and will change the dangerous complicated 100 year old process of building the floor structure first, then attaching the FAÇADE to the building.

We change nothing, we just reverse the process, Façade First, then the floors.

- Drawings shown within this brochure is the FAÇADEFIRST Innovation Concept and numerous patents filed from August 2018 and patented in 192 countries.

- PHOTOS SHOWN WITHIN this brochure are photos of existing building façades. Photos displayed convey the concept of what the external FAÇADEFIRST may look like and there is no limit to the construction, design, shape or colour of the FAÇADEFIRST. Your imagination is the only limit to the design of the FAÇADEFIRST Innovation.

- The brief description in this brochure of the FAÇADEFIRST Innovation, is only to describe the Innovative Concept, the Possibilities and the Patents. The information in this brochure is not the final product and it will need R&D, further design and engineer input. This brochure is indicative only of the FAÇADEFIRST Concept.

- EXPRESSION OF INTEREST is sought to Use, JV, R&D, License, Develop or Purchase the FAÇADEFIRST Technology and Patents. Any proposal is welcomed and appreciated.
Preston was established in 1969 and since 1974 has invented many successful patented construction products which includes the very successful SuperDeck and superAccess and SuperBarrier products. See our website www.prestonaustralia.com

**EXPRESSIONS OF INTEREST** is sought for our new patented construction methodology erecting buildings without scaffolding, perimeter screens, handrails, fall harness or any other worker perimeter protection.

The Patented Invention FAÇADEFIRST is the permanent decorative external façade, which is also the scaffold, the perimeter screens, the handrails and the fall protection to protect workers.

**NO scaffolding | NO perimeter screens | NO handrails | NO fall harness or protection**

**FAÇADEFIRST Innovation** has a huge potential to change the methodology of today’s conventional way of constructing any buildings or structures.

**Ideal for many types of buildings** or structures, low or high rise apartments, commercial buildings and especially carparks including precast concrete buildings and timber buildings.

**Brief details of FAÇADEFIRST innovation** – the permanent finished decorative External FAÇADEFIRST is the scaffold, the handrails and the perimeter screens, the fall protection and all the safety required to construct a structure, safely without scaffolding, handrails and perimeter screens.

This FAÇADEFIRST Innovation is a game changer and will save monumental time and cost with reduced workers and equipment on site, resulting in cost saving, increasing productivity and safety.

This patented Innovation is the first major change in over 100 years and will completely change today’s complicated old fashion methodology. It’s simple, we install the FAÇADEFIRST creating a Protective Safety Cocoon then we install the floors and columns. A totally reversed way of today’s time consuming, costly, unsafe and dangerous 100 year old practices.

We are looking for Interested Parties to develop and commercialise this new Innovation, or to purchase the FAÇADEFIRST Concept and patents outright. Any proposal, JV, R&D will be considered.

Currently patent applications can be filed in 192 countries.

- INCREASED PROFITS
- INCREASED PRODUCTIVITY
- INCREASED SAFETY
- INCREASED INNOVATION
- REDUCED COST
- REDUCED TIMETABLE
- REDUCED TIME ON-SITE
- REDUCED LABOUR & EQUIPMENT

**MEETING THE STANDARD IS GOOD. SETTING THE STANDARD IS BETTER**
CURRENT METHODOLOGY OF CONSTRUCTING A CAR PARK OR BUILDING

1. Installation of expensive labour-intensive external scaffolding or perimeter screens and handrails.
2. This requires many truckloads of equipment, trucks on site, crane use, labour on site, accommodation and site storage of large volume of temporary equipment on site creating delays and disruption.
3. Elevated work platforms, mini cranes, trucks, work vehicles, contractors, tools and equipment on site.

1, 2 and 3 above are interferences to many site activities, greatly reducing productivity and greatly increasing logistics, control, management, delays to other trades, cost, etc.

**FAÇADEFIRST will eliminate 1, 2 and 3 above.**

4. Formwork edge board is formed to stop concrete spillage and form the edge of the floors.

**FAÇADEFIRST will eliminate 4 above.**

5. Concrete or Steel columns on the perimeter are constructed to support the slab edge.

**FAÇADEFIRST will eliminate 5 above as the FAÇADEFIRST can be a structural support.**

6. After the building is finished, a team of erectors with access equipment will start to install and bolt on a decorative façade or curtain wall to finish the building. This requires working at dangerous heights causing months of further delays and is a major cost increase on the project.

**FAÇADEFIRST will eliminate 6 above.** The FAÇADEFIRST concept is the final permanent decorative façade finish of the car park or building and is also the Protective Safety Cocoon for the workers, eliminating perimeter screens, scaffolding, handrails, fall harness and other fall prevention as per 1 above.

7. **THIS REFERS TO CAR PARK ONLY.** A crew of many workers will take weeks to install the Wheel Stop and the Safety Crash Barrier, this involves a lot of drilling into the concrete floors, many workers, trucks and labour will be used to install, creating further delays to the completion of the building. Drilling of the concrete floor is not recommended as this will cause many difficulties and structural problems including concrete cancer. See CARPARK BROCHURE at the back of this brochure, page 20.

**FAÇADEFIRST will eliminate 7 above.**

8. Maintenance and repairs over the life of the car parks or buildings will be expensive.

**FAÇADEFIRST will eliminate 8 above.**

**FAÇADEFIRST** is the new methodology on how to build a car park or building quickly and cost efficient. For more information, contact us and request more information on the FAÇADEFIRST.
THE FAÇADEFIRST PATENTS

PATENTED WORLDWIDE IN 192 COUNTRIES

CAR PARKS | APARTMENTS | COMMERCIAL BUILDINGS
PRECAST CONCRETE BUILDINGS | TIMBER BUILDING
LOW & HIGH RISE BUILDINGS

Suitable for:

Car Parks | Apartments | Commercial Buildings | Precast Concrete Buildings | Low & High Rise Buildings | any Buildings

The Patented Innovation:

1. The Methodology of the FAÇADEFIRST Technology is an external façade designed by the builder erected before the next floor is installed. Therefore, creating numerous advantages as the façade is always ahead of the highest top floor whilst providing continuous fall prevention to workers on site at all times.

2. FAÇADEFIRST will provide a Protective Safety Cocoon up to 8 metres high, which will eliminate scaffolding, perimeter screens, handrails, prevent workers and objects falling and other fall protection including but not limited to street hoardings.

3. The fall Protective Safety Cocoon may be up to 8m high depending on the design and the floor to floor measurements.

4. When the next FAÇADEFIRST is erected on top of the existing installed FAÇADEFIRST above the highest top floor, the newly erected FAÇADEFIRST and fall prevention can be up to 8m high or higher.

5. When the highest top floor is poured or installed, there is a Protective Safety Cocoon up to 8m high above this newly poured highest top floor. Therefore, fall protection is continuous up to 8m high.

6. The brief description of the FAÇADEFIRST methodology is the construction work area is wrapped in a FAÇADEFIRST Protection Safety Cocoon creating a safe environment and remains in place to be the final complete external permanent façade finish of the building design.

7. Basically the FAÇADEFIRST is installed before the floors and columns to create fall protection, a reversal of today's 100 year old, costly and dangerous practices.

8. FAÇADEFIRST changes nothing, it only reverses the 100 year old, unsafe and dangerous practice of floor first, then façade. The FAÇADEFIRST methodology is, FAÇADEFIRST, then floor. Simple and will greatly increase productivity and reduce cost.

9. Depending on the building types, car parks, apartments, commercial buildings, precast concrete buildings, low/high rise buildings, there is more than ten (10) EXPENSIVE construction steps ELIMINATED, resulting in high productivity, reduced cost and time saved, allowing the next trade to work.

THERE IS NO REASON WHY THIS INNOVATION WILL NOT WORK OR BECOME THE NEXT GENERATION OF SMART MODERN CONSTRUCTION METHODOLOGY.

INNOVATIVE | SAFETY | PRODUCTIVITY

NOTE:
“CROWD FUNDING” IS SUCCESSFUL, WHY NOT “CROWD ENGINEERING”. WE WELCOME ALL CREATIVE ENGINEERING MINDS TO SEND US YOUR CREATIVE THOUGHTS OR WORK WITH US AND GET INVOLVED.
OLD CURRENT METHODOLOGY
NEW FAÇADEFIRST™ METHODOLOGY
More than ten (10) expensive steps have been eliminated on the best construction practice.

Huge cost saving | Increased productivity | Less time on site.

Faster | Simple | Safer construction.

<table>
<thead>
<tr>
<th>FAÇADEFIRST INCLUDES</th>
<th>COST SAVINGS AND BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scaffolding or safety perimeter screens for the protection of the workers and falling objects.</td>
<td>NO external scaffolding or protection screens required for perimeter of the car parks or buildings.</td>
</tr>
<tr>
<td>Handrails for perimeter of the buildings</td>
<td>NO handrails required on perimeter.</td>
</tr>
<tr>
<td>Safety Crash Barriers (car park)</td>
<td>NO internal Crash Barriers required as façade is a structural Crash Barrier as part of the façade.</td>
</tr>
<tr>
<td>Wheel Stop (car park)</td>
<td>NO floor Wheel Stop required as the wheel stop is welded to the floor and is part of the façade.</td>
</tr>
<tr>
<td>Structural support for concrete slab on perimeter of car parks or buildings, if required.</td>
<td>NO concrete columns required to support the concrete slab on the perimeter.</td>
</tr>
<tr>
<td>Façade for external permanent finish of car parks or buildings appearance.</td>
<td>NO external bolting of façade. No supply and installation of a separate costly façade.</td>
</tr>
<tr>
<td>Edge of concrete formwork is incorporated as part of Façade.</td>
<td>NO supply or fixing of edge of formwork as the façade includes the slab edge formwork.</td>
</tr>
<tr>
<td>Hoarding on street to protect public.</td>
<td>NO hoarding on footpath.</td>
</tr>
<tr>
<td>All the above and more is incorporated in a FAÇADEFIRST, reducing delays.</td>
<td>NO EWP or other access equipment on perimeter of car parks or buildings.</td>
</tr>
</tbody>
</table>

**ADVANTAGES:**
- Huge cost saving
- Greatly increases productivity
- Less time on site, creating faster construction time and shorter schedules
- Each FAÇADEFIRST panel can be detached for quick and easy repair if damaged by vehicles crashing or other reasons
- FAÇADEFIRST can be manufactured from any material, steel, aluminium, glass, composite material, concrete, etc and can also be HOT DIPPED GALVANISED for long life
- LESS workers on site
- LESS cranage of equipment and façade
- LESS double crane handling of façade
- LESS storage on site including façade
- LESS work on site | greatly increasing productivity
- LESS interference to other trades on site
- LESS construction time on site
- LESS maintenance and repairs due to its innovative design for the life of the façade

- The design of the FAÇADEFIRST is preferably galvanised steel with coloured sections to suit client’s design or maybe aluminium, glass, concrete, windows, etc, your choice.
- Numerous interesting innovative FAÇADEFIRST designs are available to suit client requirements.
- Your imagination is the only limit to the FAÇADEFIRST style and design.
- Request more information and any update.
OLD CURRENT METHODOLOGY

YES PERIMETER SCREENS
YES SCAFFOLDING
YES HANDRAIL
YES FALL ARREST PROTECTION
YES STORAGE OF FACADE ON FLOORS
YES DOUBLE CRANE HANDLING OF FACADE
YES DELAYS
- LOW PRODUCTIVITY
- HIGH COST

NEW FACADEFIRST METHODOLOGY

NO PERIMETER SCREENS
NO SCAFFOLDING
NO HANDRAIL
NO FALL ARREST PROTECTION
NO STORAGE OF FACADE ON FLOORS
NO DOUBLE CRANE HANDLING OF FACADE
NO DELAYS
- INCREASED PRODUCTIVITY
- LOWER COST

INNOVATIVE | SAFETY | PRODUCTIVITY
THIS DRAWING AND FOLLOWING DRAWINGS ARE IDEAS, CONCEPT AND METHODOLOGY, FOR FURTHER R&D.

ALL CONTENTS IN THIS BROCHURE WILL REQUIRE FURTHER ENGINEERING AND DESIGN TO ACHIEVE THE FINAL REQUIRED RESULTS FOR EACH BUILDING APPLICATION.

CONCEPT ONLY
THIS DRAWING AND FOLLOWING DRAWINGS ARE IDEAS, CONCEPT AND METHODOLOGY. FOR FURTHER R&D.

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**STEP 1**

FAÇADEFIRST LIFTED IN POSITION

UP TO 8m HIGH OR DOUBLE FACADE

**STEP 2**

FAÇADEFIRST IN POSITION AND PROPPED

**STEP 3**

NEW FLOOR Poured OR INSTALLED

GAP LEFT OPEN TO SHOW JOINt AREA

GROUND

NEW FLOOR TO BE POURED OR INSTALLED

EXISTING FLOOR

PUSH/PULL PROP

MINIMUM 1m

RE-BAR

EXISTING FAÇADEFIRST

L1

L2

L3

L4
FAÇADE FIRST CAN BE MANUFACTURED FROM ANY MATERIAL

- CONCRETE AND GLASS
- ALUMINUM AND GLASS
- COMPOSITE PANEL AND GLASS
- GLASS FRAMEWORK
- OR ANY OTHER MATERIAL
CONCEPT ONLY

- This drawing and following drawings are ideas, concept and methodology. For further R&D.
- All contents in this brochure will require further engineering and design to achieve the final required results for each building application.
FLOOR READY FOR ADDITIONAL TOP UP FAÇADEFirst

STEP 1

NEW CONCRETE FLOOR
FAÇADEFirst LIFTED IN POSITION
EXISTING FAÇADEFirst

STEP 2

STEP 3 ENLARGED

JOINT BETWEEN TWO FAÇADEFirst CAN BE A MULTIPLE OF DESIGNS TO SUIT FAÇADEFirst

JOINT BETWEEN TWO FAÇADEFirst CAN BE A MULTIPLE OF DESIGNS TO SUIT FAÇADEFirst

STEP 3

NEW CONCRETE FLOOR
FAÇADEFirst LIFTED IN POSITION
EXISTING FAÇADEFirst

STEP 3 ENLARGED

JOINT BETWEEN TWO FAÇADEFirst CAN BE A MULTIPLE OF DESIGNS TO SUIT FAÇADEFirst

JOINT BETWEEN TWO FAÇADEFirst CAN BE A MULTIPLE OF DESIGNS TO SUIT FAÇADEFirst

PRECAST CONCRETE | TIMBER BUILDINGS

INNOVATIVE | SAFETY | PRODUCTIVITY

15
CONCEPT ONLY

INWARD FACE
FAÇADE First can be precast concrete, aluminium and glass, composite panel and windows, or any other suitable materials.

OUTWARD FACE
This “T” section is an optional design. The possibilities are unlimited.
HIGH PRODUCTIVITY | LESS COST
BALCONIES ARE 2.4m or 2.5m or 3.0m WIDE FOR ROAD TRANSPORT

CONCEPT ONLY
NEW FLOOR

FINISHED FLOORS

ALL BALCONIES ARE 2.4m or 2.5m or 3.0m WIDE FOR ROAD TRANSPORTATION

BALLUSTRADES CAN BE GLASS, CONCRETE, STEEL OR ANY OTHER MATERIAL

INFLILL FOR BIGGER BALCONY TO FORM ANY SIZE

CONCEPT ONLY
FAÇADEFIRST INCLUDES:
- EXTERNAL SCAFFOLD
- FAÇADEFIRST FOR EXTERNAL FINISH
- EXTERNAL PERIMETER SCREENS
- EDGE OF CONCRETE FORMWORK
- INTERNAL SAFETY CRASH BARRIER
- SUPPORT FOR CONCRETE SLAB EDGE

NOTE:
PAGE 20 TO 40 RELATE TO CAR PARK

INCREASED PRODUCTIVITY | COST SAVING | FASTER CONSTRUCTION
CONCEPT ONLY

FAÇADEFIRST INSTALLED CAN BE UP TO 11m HORIZONTALLY or VERTICALLY

PUSH/PULL PROPS IF REQUIRED

up to 11m
CONCEPT ONLY
These photos are of existing buildings and is only shown to convey the possible finishes.
CAR PARK FAÇADEFIRST

FAÇADEFIRST METHODOLOGY CONCEPT IS AN AUSTRALIAN INVENTION

SAFETY BARRIER

REINFORCEMENT FOR NEW SLAB

NEW CONCRETE SLAB

PUSH/PULL PROPS IF REQUIRED

FAÇADEFIRST TO SUIT ANY DESIGN

CONCRETE FLOOR
FAÇADE FIRST CAN BE INSTALLED HORIZONTALLY OR VERTICALLY

11m LONG FAÇADE FIRST
- ERECTED 11M HORIZONTALLY OR 11M VERTICALLY
- MANUFACTURED TO SUIT ANY SIZE CARPARK

TYPICAL EXAMPLE - TO BE DESIGNED TO SUIT

CONCEPT ONLY
MULTIPLE DESIGN AND FINISH AVAILABLE
These photos are of existing buildings and is only shown to convey the possible finishes.
NOTE

THE NUMEROUS DESIGN AND COLOUR OF EACH FAÇADEFIRST WILL BE DESIGNED TO SUIT CLIENT REQUIREMENTS

FAÇADEFIRST INCLUDES PROTECTION FOR WORKERS AND PUBLIC DURING CONSTRUCTION OF CAR PARK

STRUCTURAL FAÇADEFIRST CAN BE OF ANY GALVANISED STEEL SECTION COLOURED AND DESIGNED TO SUIT CLIENT REQUIREMENT

INCREASED PRODUCTIVITY | COST SAVING | FASTER CONSTRUCTION
These photos are of existing buildings and is only shown to convey the possible finishes.
FAÇADEFIRST INCLUDES:

- Wheel stop
- External scaffold
- FAÇADEFIRST for external finish
- External perimeter screens
- Edge of concrete formwork
- Internal safety crash barrier
- Support for concrete slab edge

This section is fully protected and ready for formwork of new upper concrete slab.

No wheel stop
No scaffolding
No crash barrier
No storage on site
No formwork edge
No perimeter screen
No access equipment
No concrete edge column
No bolting of external façade
These photos are of existing buildings and is only shown to convey the possible finishes.
NOTE

THE NUMEROUS DESIGN AND COLOUR OF EACH FAÇADEFIRST WILL BE DESIGNED TO SUIT CLIENT REQUIREMENTS

INCREASED PRODUCTIVITY | COST SAVING | FASTER CONSTRUCTION
This photo is of an existing building and is only shown to convey the possible finishes.
TWO (2) BASIC PARTS

THE INNOVATION
THE PROTECTIVE SAFETY
FAÇADEFIRST DURING
CONSTRUCTION IS THE
PERMANENT FAÇADEFIRST AND
INCLUDES THE CRASH BARRIER
AND WHEEL STOP

V4.1 - WELDED OR BOLTED
CAST-IN ANCHOR

ITEM ② BOLTED
CONNECTION CAN BE USED
TO LINE UP AND PLUMB
THE FAÇADEFIRST ①
② CAN ALSO BE USED
TO REMOVE AND REPLACE
DAMAGED FAÇADEFIRST
DUE TO AN ACCIDENTAL
VEHICLE CRASH.

V4.2 - WELDED OR BOLTED
CAST-IN ANCHOR FRAME

CONCEPT ONLY

NOTE:
ALL DRAWINGS IN THIS PRESENTATION IS A CONCEPT IDEA ONLY AND WILL REQUIRE FURTHER DESIGN TO SUIT DIFFERENT APPLICATION

INCREASED PRODUCTIVITY | COST SAVING | FASTER CONSTRUCTION
This photo is of an existing building and is only shown to convey the possible finishes.
NO BOLT ON CRASH BARRIER REQUIRED

V4.1

FAÇADEFIRST IS THE CRASH BARRIER

CRASH BARRIER

WHEEL STOP

STRUCTURAL FAÇADEFIRST ANCHOR CAST IN CONCRETE FLOOR

V4.2

OPTIONAL CRASH BARRIER WELDED TO STEEL ANCHOR FRAME

WHEEL STOP WELDED TO CONCRETE ANCHOR FRAME AND FLOOR

STRUCTURAL FAÇADEFIRST ANCHOR FRAME CAST IN CONCRETE FLOOR

EASY ACCESS FOR PRESTRESSING OF CONCRETE FLOOR AS BOX SECTION IS HOLLOW

BOLTED CONNECTION

YOUR IMAGINATION IS THE ONLY LIMIT TO THE DESIGN AND LOOK OF THE EXTERNAL STRUCTURAL FAÇADEFIRST

INCREASED PRODUCTIVITY | COST SAVING | FASTER CONSTRUCTION
These photos are of existing buildings and is only shown to convey the possible finishes.
**DETAILS OF GALVANISED ANCHOR FRAME**

- Wheel stop welded to frame
- Cast in concrete anchor
- Hollow to allow for prestressing of cable or other works
- Steel mesh or expanded metal or steel plate or other material can be installed when required
- Side connection hole
- Optional crash barrier welded to frame
- Bolted plate to FaçadeFirst
- Side connecting plate

**NOTE:**
Cable stressing can be designed in above

**INCREASED PRODUCTIVITY | COST SAVING | FASTER CONSTRUCTION**