

INTEGRATED BUILDING SYSTEMS

| THE WAY TO BUILD



THANK YOU

FOR CONSIDERING US!

Durabond Products Limited, established in 1967 and headquartered in Toronto, Ontario, Canada is a leader in the manufacturing and development of specialized architectural wall coatings, Exterior Insulation & Finish Systems , Lightweight Building Systems and concrete repair products.

Over the years, the outstanding quality of Durex Architectural Products and wall systems have repeatedly been proven in installations totaling millions of square meters in Canada and around the world. This enviable performance record is supported by extensive testing and technical assessments by accredited 3rd party testing laboratories and government agencies.

290

CONTENT

THE PREFABRICATED INTEGRATED BUILDING SYSTEM	1
.....	
• INTEGRATION OF BUILDING SCIENCE PRINCIPLES	
.....	
• COMPONENTS	
.....	
• ANCHORING	
.....	
THE ADVANTAGES TO YOUR CONSTRUCTION PROJECTS	3
.....	
THE DESIGN	5
.....	
SYSTEM TYPES	7
.....	
FINISHES	8
.....	
INTERFACES AND DETAILS	9
.....	
PROJECT BREAKDOWN	11
.....	
• TIMELINES	13
.....	
PANEL FABRICATION	15
.....	
DELIVERY AND INSTALLATION	16
.....	
OUR PROJECTS	17
.....	
GUARANTEED PERFORMANCE	27

1 | IBS INTEGRATED BUILDING SYSTEMS

FUSING HIGH PERFORMANCE WITH ECONOMICAL,
ENVIROMENTAL AND QUALITY BENEFITS

INTEGRATING BUILDING SCIENCE PRINCIPLES IN BUILDING SYSTEMS

Durex IBS is not just a cladding – it is a unitized curtain wall system that integrates the performance of several wall components for providing the essential, environmental separation controls of heat / air / moisture / fire, strength, durability and aesthetics, all in one lightweight, energy efficient, cost-effective wall assembly. IBS is the new trend in energy efficient exterior curtain walls. It brings significant advancements to the conventional, architecturally limited, glass, stone or other material curtain walls through a water-managed, pressure-moderated and energy efficient wall system.

THE WALL SOLUTION FOR MULTIPLE APPLICATIONS

Institutional

Mixed-use

Residential

Commercial

Industrial

Temporary structures

COMPONENTS

Durex IBS utilizes structural steel studs as a means to support the non-structural portion of the system that is comprised of a glass-mat-surfaced gypsum board which is mechanically attached to the metal framing prior to the application of the air barrier system, the mechanical or adhesive attachment of the insulation and the application of the lamina coating system. The air barrier system is applied to the field of the sheathing and across the framing at interfaces, joints, openings and penetrations to ensure the continuity, effectiveness and performance of the air barrier system throughout the building envelope. The geometrically defined drainage insulation board gets adhered or mechanically fastened to the substrate and receive a multiple layers of glass fibre reinforced mesh and polymer modified base coats. A primer and a finish coat is applied to provide the desired finish, texture and colour.

ANCHORING

Similar to glazed curtain wall systems, Durex IBS panels are attached to the superstructure using various connections. Each connection is professionally designed and engineered to safely resist the applicable loads and their effects on the structure. The connectors can be divided into two types: Fixed and or Slip. The Fixed connectors are typically welded, not allowing any vertical movement but rather simply holding the panel in place. The Slip connectors are wind load connectors that would resist any inward and/or outward movements while allowing for vertical ones.



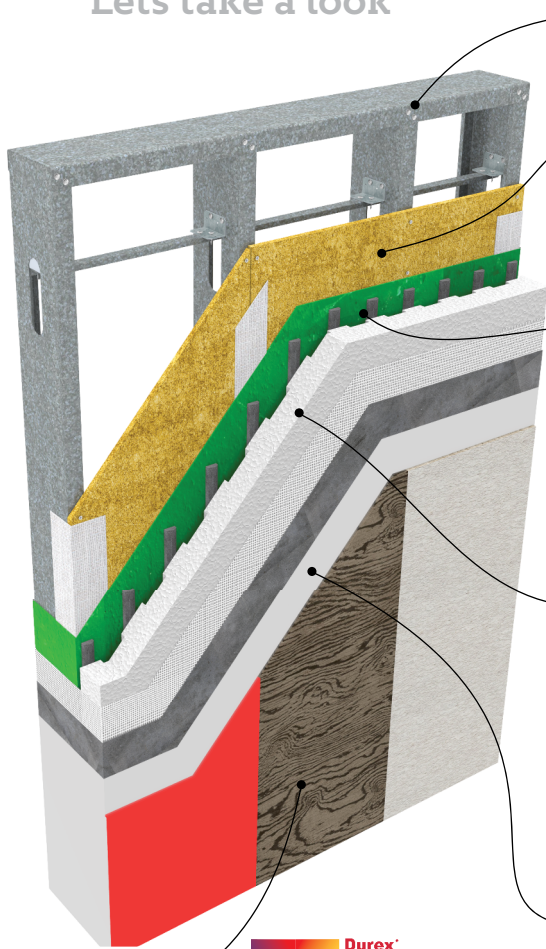
SYSTEM TYPES

Durex IBS can be designed as a load bearing panel as well as a self-load bearing panel. In a self-load bearing scenario, the panels simply transfer the dead load to the bottom foundation curb. All other connections would be achieved by the use of slip connectors in order to resist applicable wind loads. The load-bearing panels act as a structural panel that is specifically designed and engineered to carry the applicable structural loads related to the specific project's design.



NOT JUST A CLADDING -IT IS CURTAIN WALL SYSTEM

Lets take a look



STEEL COMPONENT

Load or non-load bearing galvanized cold form steel studs, tracks and bracing.

CEMENT / GYPSUM BOARD

Cement/Glass-mat Gypsum Board,mechanically fastened to the steel studs on the exterior side with corrosion resistant, self-tapping screws.

AIR BARRIER

An air barrier coating/membrane installed within the wall assembly over the sheathing to provide in conjunction with other transition components the air leakage control and to ensure the continuity of the air barrier at all junctions, penetrations,projections and interfaces.

RIGID INSULATION

Expanded polystyrene (EPS) / Mineral wool fibre Insulation, featuring geometrically defined drainage cavity/channels at the back of the insulation and adhered to the sheathing using Durex® Flexcrete adhesive coating or mechanically fastened to the steel studs with corrosion resistant fasteners and Durex® WDP plates.

REINFORCED BASECOAT

A polymer modified base coat, Durex® Flexcrete that acts as the systems' primary moisture barrier. Durex® Flexcrete is trowelled onto the insulation board surface, embedding an alkali-resistant glass-fibre reinforcing mesh.

FINISH



Durex® IBS are finished with Durex Architectural, Classic, New Generation and FX Coating Series that consist of ready-mix, factory tinted, polymer-based, 100% acrylic, low-fast oxides durable finish coats. The finish coats are available in an extensive range of colours and textures that could provide endless design possibilities with the allures of stucco, brick, granite, limestone, marble and metal.

ENGINEERING

Our knowledge of applicable codes and standards allows us to offer reliable, code-compliant design services and to develop engineered designs based on your specific project characteristics and needs. We oversee the contractibility of each of the wall components, as well as the constructability of the whole wall façade system.

APPLICATION

IBS provides the best wall solution for all types of construction, be it institutional, residential, commercial, industrial and/or temporary. IBS features a lightweight, wall assembly panel with a high strength to weight ration, eliminating the need for super structural elements such as beams and columns. IBS's lightweight and flexibility make it an ideal solution for applications in high seismic/wind zones. Steel's inherent strength enables architectural design flexibility and creativity – allowing spans and curves to be easily incorporated into functional designs. IBS is designed to be thermally efficient, providing high resistance to extreme environmental conditions while offering long-term durability, and an array of aesthetic possibilities.

3 | THE ADVANTAGES

ADDING VALUE TO YOUR CONSTRUCTION

The Solution to reduce cost, simplify construction and drive productivity

IT'S ECO FRIENDLY



The integrated building System (IBS) provides, through its design and efficiency, a lean construction whose sustainability is improved from cradle to grave. IBS's integration of different environmental separation controls for heat, air and moisture leads to high performance, energy efficient wall assemblies that has a lower footprint and a reduced impact on the environment through energy conservation, waste and site disturbance reductions. Conventional cast in-situ construction methods require extra materials that generates increased wastes in comparison with prefabrication that is able to recycle and reduce waste. IBS, through its prefabrication and efficient means of installation reduces the impact on the site environment by decreasing the amount of trades, machinery, storage and other logistical requirements needed otherwise at conventional construction sites.



FINANCIAL SAVINGS



Lightweight - Among the great advantages of the prefabricated IBS is financial savings. As IBS provides a weight reduction of up to 70% in comparison to precast wall assemblies, huge savings are made on extra materials and components that would be required in the heavy structures of conventional construction.

Speed of Construction - Prefabrication of IBS takes significantly less time to build and to install than on-site construction. A 2 - 6 men crew on average erects 8 - 12 panels per 8 hours work-shift. Based on an average panel size of 15 - 18 m², a 200 m² of façade installation could be achieved in a day.

Modular construction targets - IBS provides a better up front planning, enabling effective material management, eliminating on-site weather factors, and sidestepping subcontractor's scheduling delays, conflicting on-site trades and work sequencing, lack of skilled labours and unproductive staff leading to significant reduction in construction time, faster occupancy that can significantly save on construction financing costs and faster returns on investment.



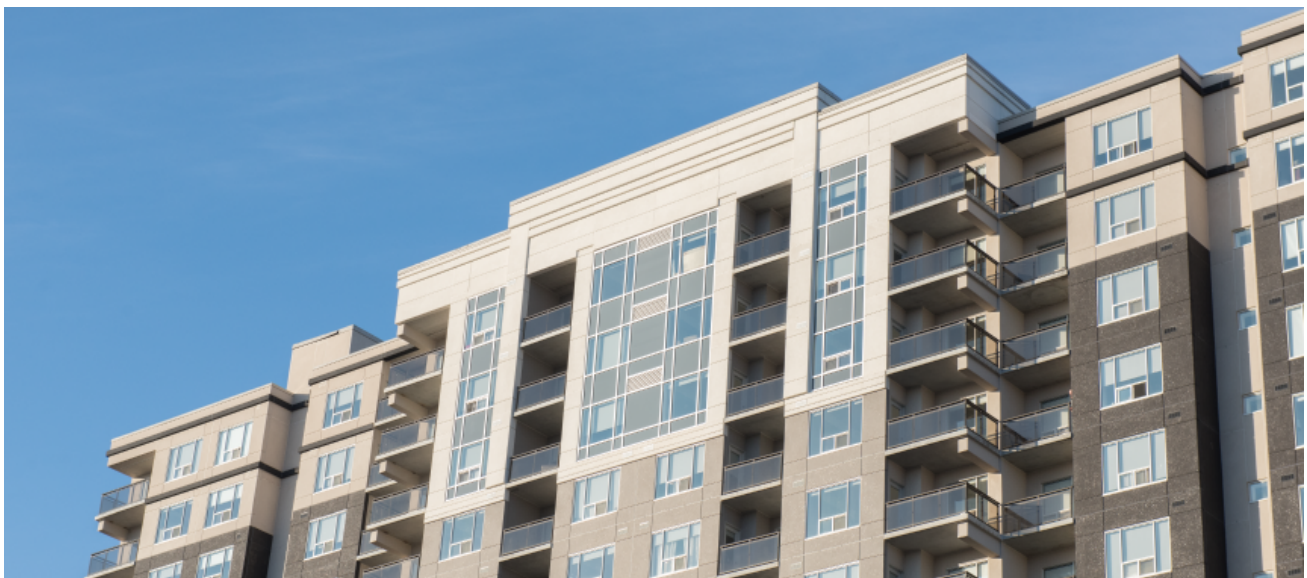
SAFETY

Safety is perhaps the most important benefit of off-site manufacturing. IBS provides a higher OHSM on site through less risks of accidents, reducing potential job site hazards associated to amount of debris, construction traffic and eliminating installation practices requiring scaffolding.

**CONSISTENT QUALITY**

Today's highly complex wall assemblies, which incorporate several environmental separation controls make a heightened control over the manufacturing quality and important element in achieving high performance walls.

The level of screening and quality control of the components and their assembly is often not present in traditional construction processes where the contractor ends relying on the vigilance, skill levels and schedules of the independent workers to deliver the envisioned quality. These all contribute to the craftsmanship and overall quality of a given structure. Ensuring high-quality prefabricated wall assemblies is easier in climate-controlled facilities with precise equipment, methods and workmanship skills, with multiple quality checks throughout the entire process. Every step in the design, manufacturing and delivery of the finished wall assembly is closely monitored through continuous supervision that ensures the protection of the raw materials and their application from the elements of weather, the execution of the exact plans and specifications on materials and the construction procedures through trained and specialized crews all leading to the provision of subassemblies of the structure that are built to a uniform higher quality.



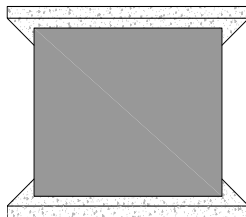
GIVING YOU

5 | THE DESIGN

THAT WILL OUTPERFORM

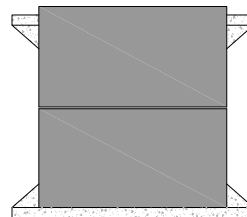
Durex IBS system commonly are curtainwall system, however can be adopted as infill type panel construction or as a self-load bearing system.

Depending on architectural and structural design, the panels can be also splitted into two sub categories: a single storey panel with a punched opening and a multi storey panel with infill panels.



INFILL PANEL

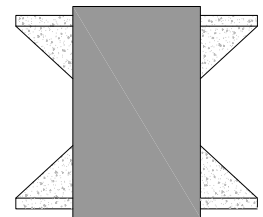
Infill panels are typically non-load bearing panels that span in between two slabs or two panels



SELF-LOAD BEARING

Panels installed beyond the limit of structural slab and have ability to absorb more structural deviations.

Deadloads are transferred to the bottom of the foundation. Windloads are transferred to each individual slab.



CURTAIN WALL PANEL

Panels installed beyond the limit of structural slab and have ability to absorb more structural deviations.

All load are transferred to each slab at every level.

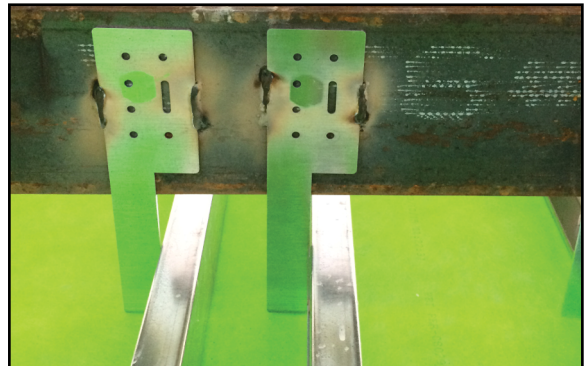


Durex IBS panels are attached to the superstructure using various connections. Each connection is professionally designed and engineered to be discrete as well as functional. The connectors can be divided into two types: Fixed and a Slip. The Fixed connectors are typically welded connections that don't allow any vertical movement and simply hold the panel in place. The Slip connections are the wind load resistance connections which wouldn't allow for inward and outward movement while allowing for a vertical movement of up to 30mm (1-1/4") at each connection point.

TOP OF SLAB FIXED CONNECTION



BOTTOM OF SLAB SLIP CONNECTION



PANEL TO PANEL SLIP



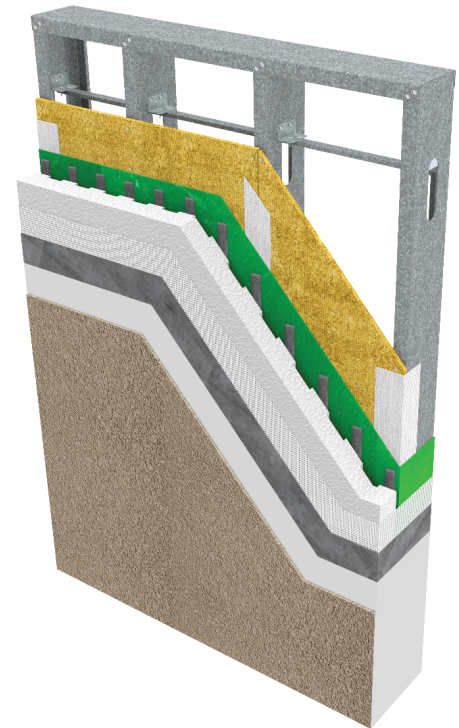
7 | SYSTEM TYPES

IT DOESN'T NEED TO BE THE SAME

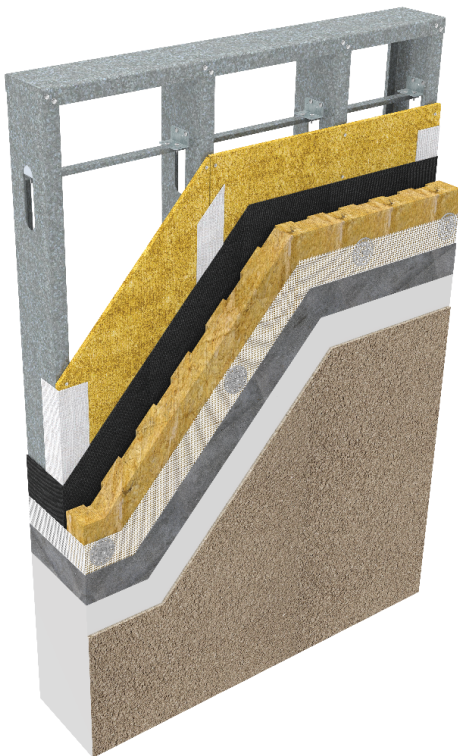
DUREX QUANTUM SELECT (IBS)

Quantum Select (IBS) Advantages:

- Pre-engineered Lightweight Panel Design
- Speed of Construction
- Manufacturing QA/QC
- Pressure Moderated Rain Screen Design
- Air/Water tight Building Envelope Design
- Geometrically Defined Drainage Cavity (GDCC)
- Superior Thermal Performance
- Reduced Thermal Bridging (CI)
- Colour Fast, UV Stable, Durable Coating System
- 1-Hour Fire Rated System ULC W-489*
- 2-Hour Fire Rated System ULC W-485*
- Meets the requirements of OBC 3.2.3.7 (1)
- Non-combustible base coats



2HR
FIRE RATED



NON
COMBUSTIBLE
SYSTEM

DUREX EQUALITE SELECT (IBS)

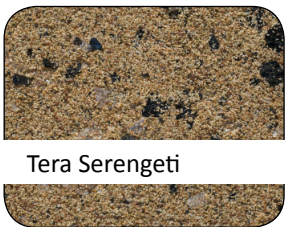
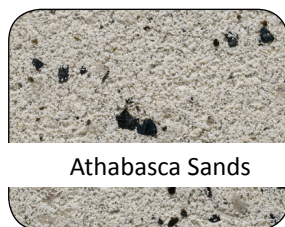
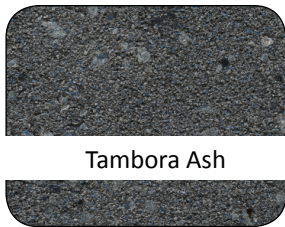
Quantum Select (IBS) Advantages:

- Pre-engineered Lightweight Panel Design
- Speed of Construction
- Manufacturing QA/QC
- Pressure Moderated Rain Screen Design
- Air/Water tight Building Envelope Design
- Geometrically Defined Drainage Cavity (GDCC)
- Superior Thermal Performance
- Reduced Thermal Bridging (CI)
- Colour Fast, UV Stable, Durable Coating System
- Non-combustible System

GIVING YOU 8 FINISHES THAT DRAW ATTENTION

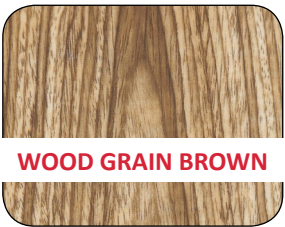
Durex® GEMSTONE - PREMIUM FINISHES

Durex® Gemstone - a polymer-based finish consisting of high-build, multi-coloured aggregates and oversized mica flakes embedded in a clear, 100% acrylic resin. Its distinctive features allow the creation of attractive and unique surfaces and designs..



Durex® TIMBER-FX FINISHES

Acrylic glazed polymer based finish engineered to create a wood grain finish.



Durex® CENTURY STONE FINISHES

Durex® Century Stone - an innovative, polymer-based, multi-dimensional architectural finish inspired by natural marble and granite slabs for providing a texture of unparalleled elegance. Durex® Century Stone is a 100% acrylic, multi-coloured, protective and decorative coating consisting of proprietary coloured aggregates and flakes. This finish gives an innovatory appearance to interior and exterior surfaces.



Durex® CLASSIC FINISHES

Durex® Classic Finishes - an effective long wearing, polymer-based protective architectural coatings intended to be applied over all types of solid substrates. All Classic finishes are factory-tinted to the selected colours.

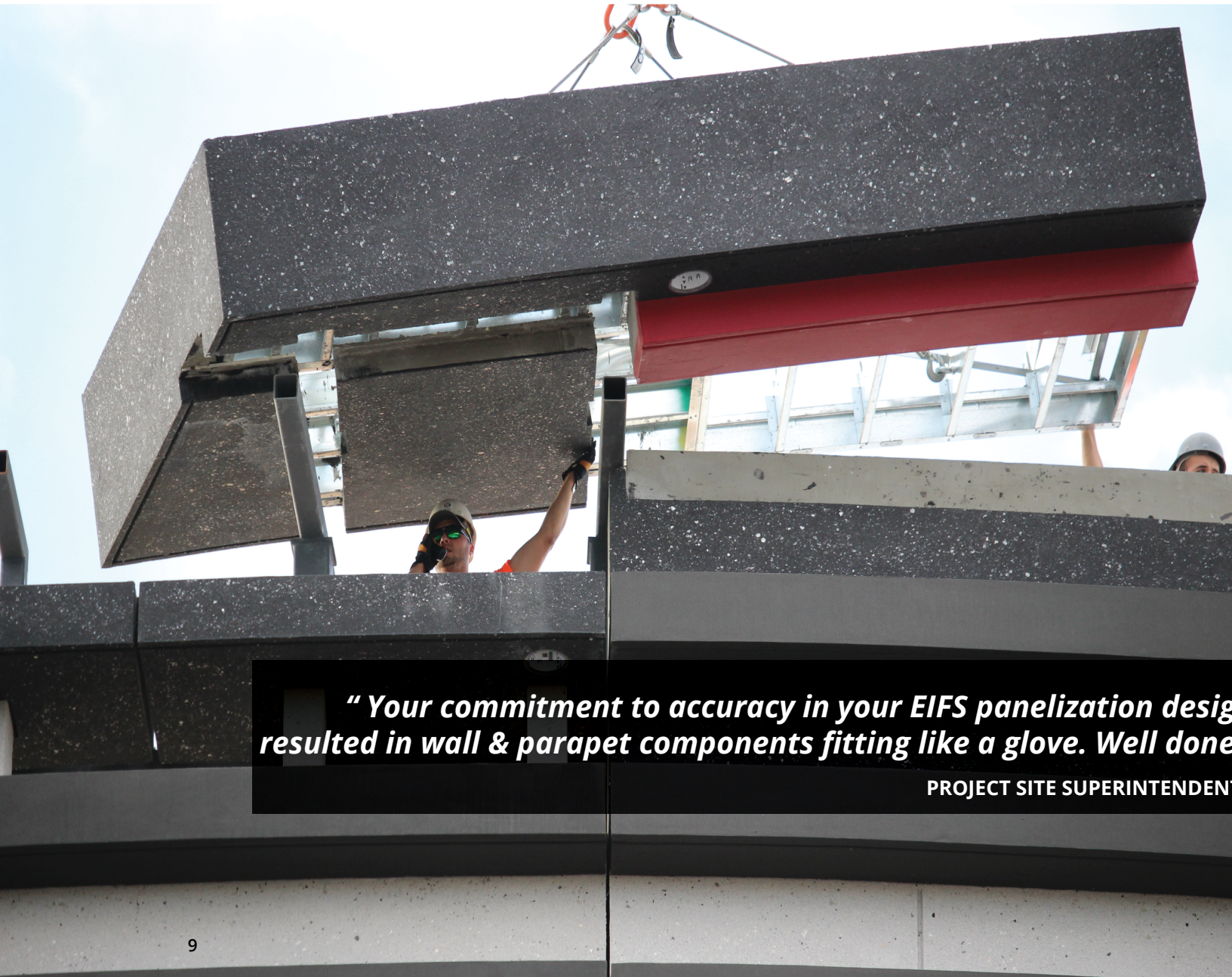


9 | THE INTERFACES

INCORPORATING THE RAIN SCREEN

The architectural design of building facades and building envelopes has become more complex due to the need for proper integration of different façade components, openings and penetrations, resulting in an increase of interface complexity. The net result is that moisture management at these interfaces have become more complex as well. A detailed implementation of the rainscreen principle and the proper design of the related interfaces are indispensable for the performance of any façade.

In addition to IBS's feature of incorporating a 10 mm drainage cavity, engineered to divert moisture ingress to the exterior, Durex® IBS panel installation incorporates state of the art, 2-stage, vented joint design at all interfaces. It provides the most reliable and effective technique in preventing water ingress into the wall assembly.

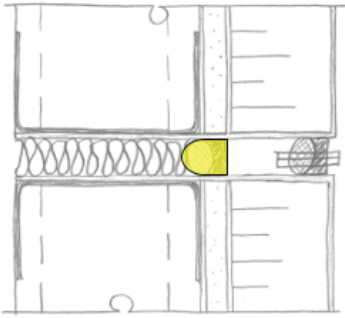


“ Your commitment to accuracy in your EIFS panelization design resulted in wall & parapet components fitting like a glove. Well done

PROJECT SITE SUPERINTENDENT

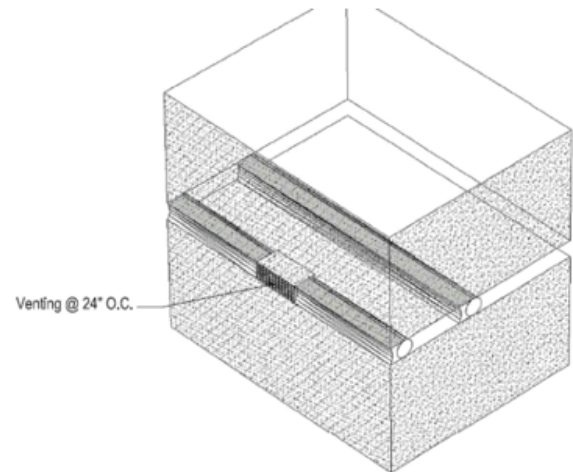
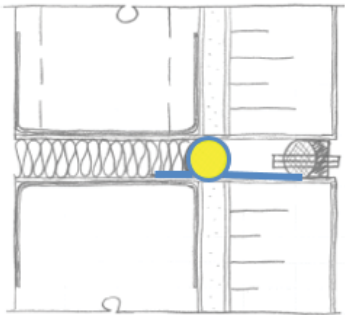
TWO STAGE JOINT APPROACH

at every interface



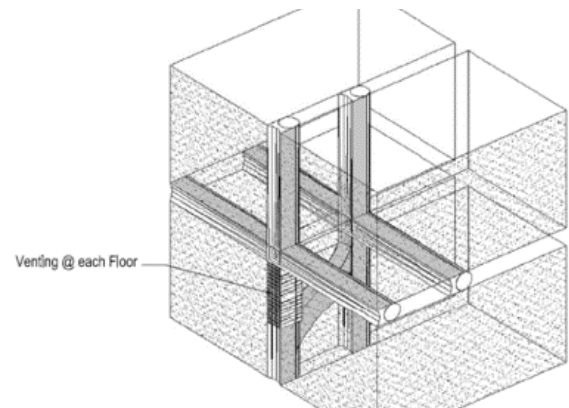
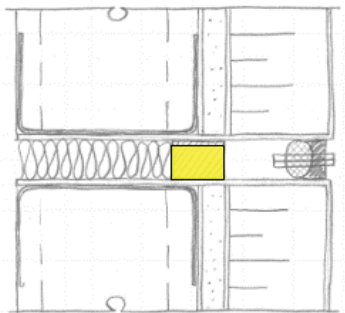
2-STAGE BACKER ROD AND SEALANT

The 2-stage backer and rod joint design represents the most reliable and effective technique in preventing water ingress into the wall assembly. The joint would consist of two beads of sealants applied over backer rods, and separated by an airspace.



MEMBRANE AND BACKER ROD

Very similar to the 2-stage joint design above, the inner stage of the joint is completed with continuous backer rod wrapped into Durex EIFS Tape membrane. The "natural water dam" as we call, is installed at the time of the panel installation.



SELF EXPANDING GASKET

Installation of a self-expanding gasket as the inner stage of the joint helps to seal it right away. Once the panel is installed, horizontal and vertical joints become air/watertight.

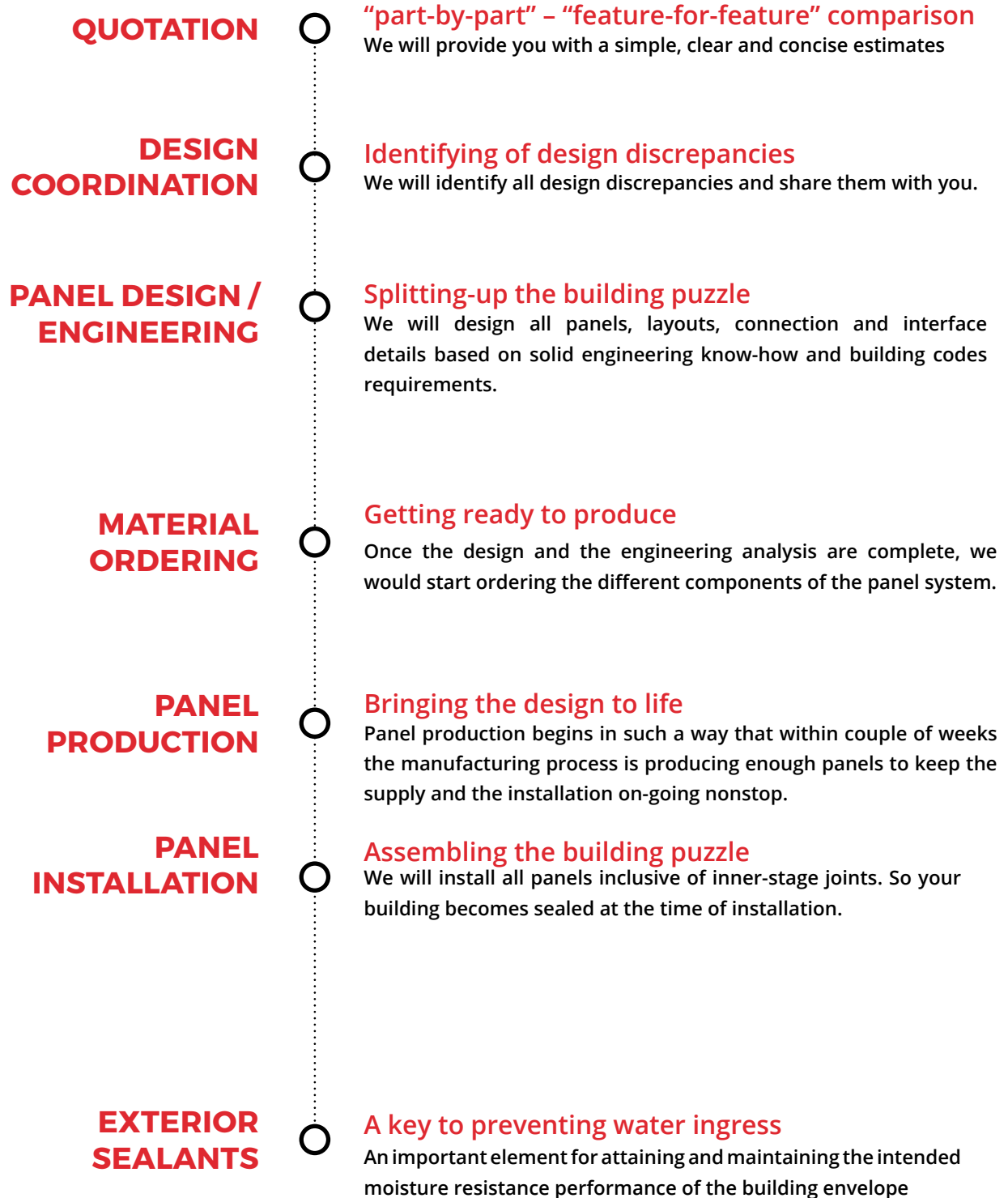
11

STEP BY STEP

FROM START TO FINISH, WE TAKE YOUR
DESIGNS AND TURN THEM INTO REALITY

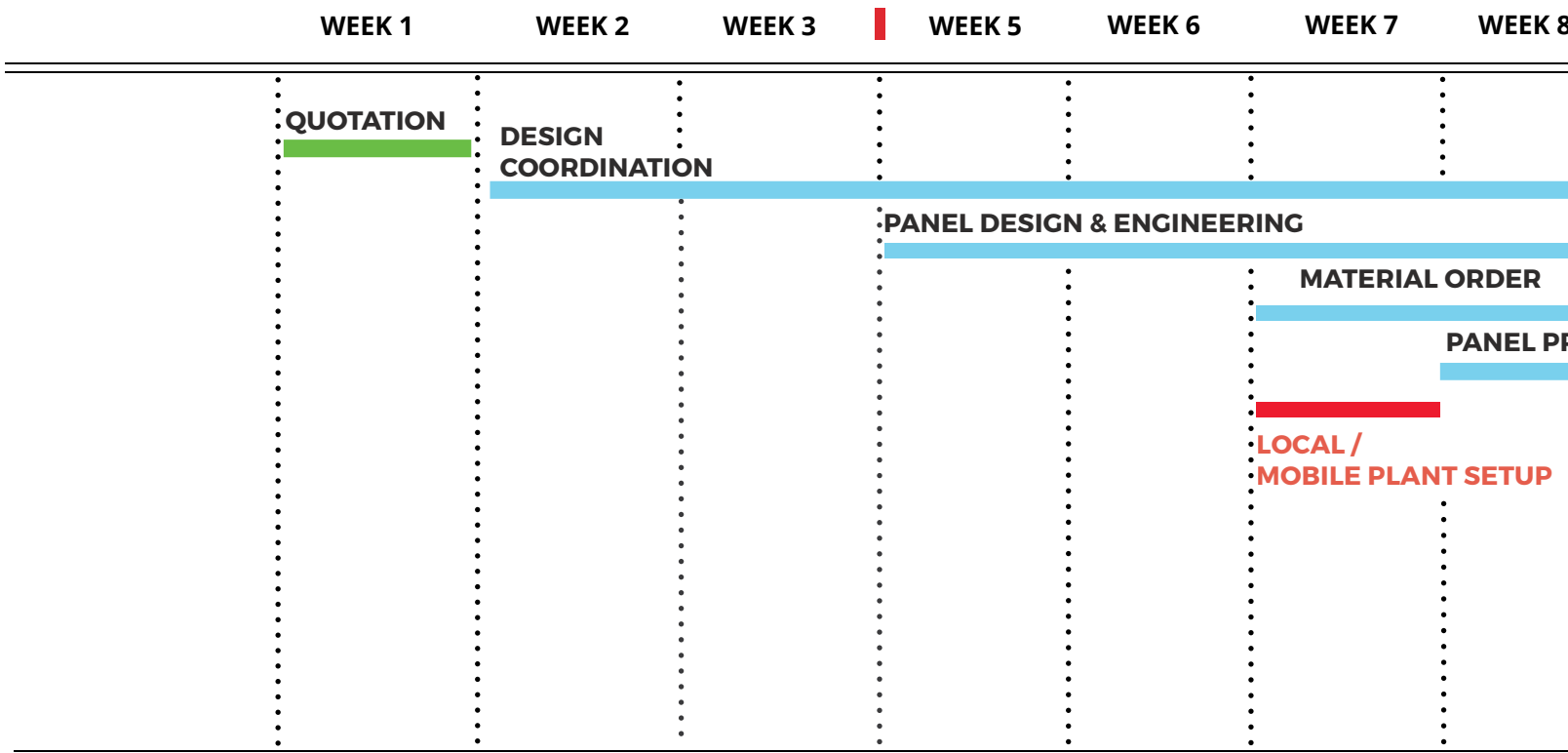
NECESSARY STEPS TO PERFECTION

This walk we will do together!



TIMELINE

BECAUSE TIME IS MONEY



QUOTATION

Subsequent to receipt of your architectural and structural drawings, a quotation is provided indicating the scope of supply and installation, supported by coloured plans, elevation and building sections.

DESIGN COORDINATION

During our initial review, the building design would be analyzed, identifying all critical details and interfaces. Discrepancies in drawings are identified and discussed with project team members.

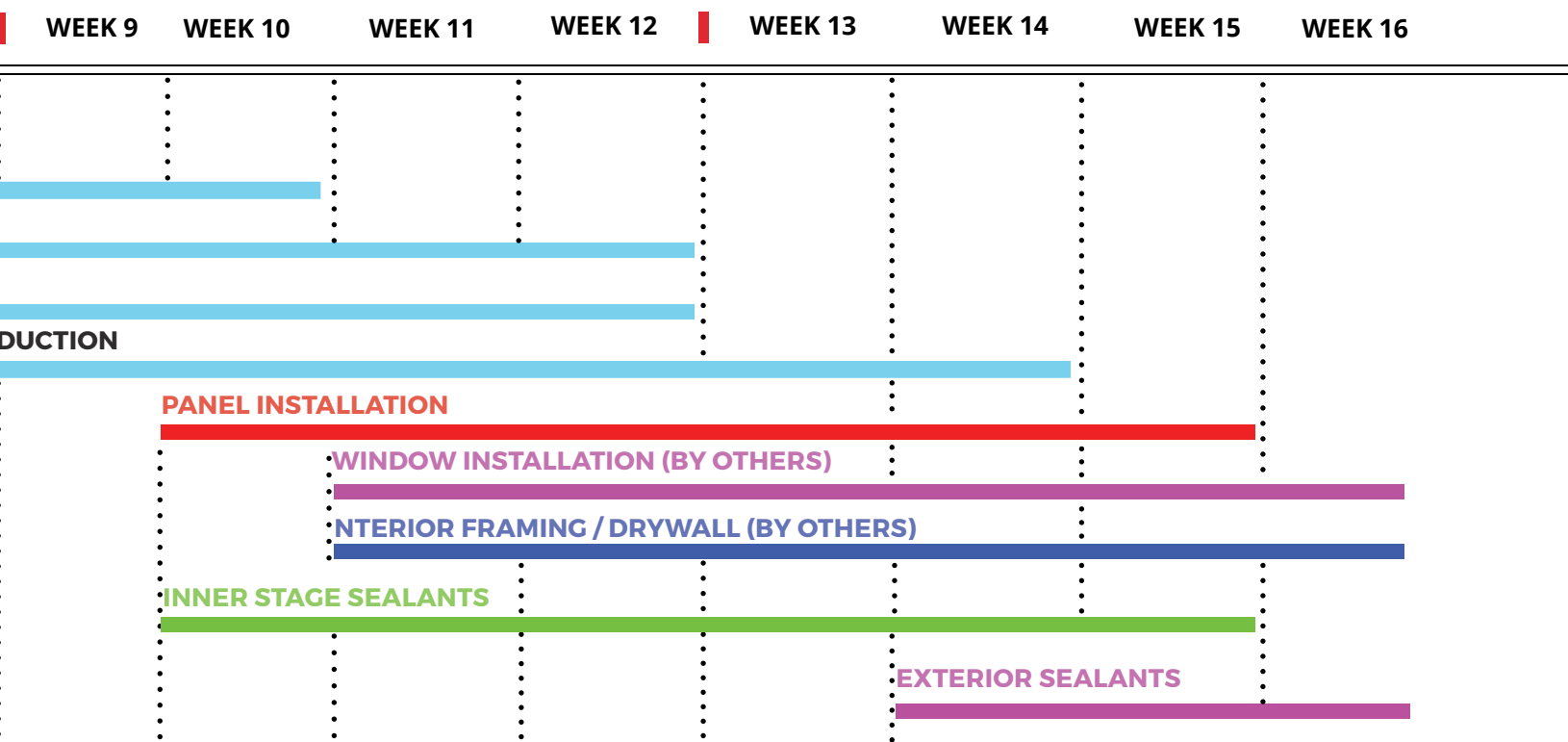
PANEL DESIGN / ENGINEERING

Panel design and engineering starts immediately after the contract is in place. All architectural and structural elements are conceived and engineered to fit the specified design. The structural capacity of the steel stud framing, as well as its connections to the building are engineered to carry the applicable loads and the effects of these loads.

TIMELINE GENERAL APPROACH

Technical details

Fast project delivery is a common goal for all participants in a construction project. Prefabrication is advantageous because it offers an approach to complete construction projects within a much shorter time duration than traditional construction methods. In addition, prefabrication allows to optimize not only the time schedule, but construction sequence.



PANEL PRODUCTION

The design of the panels will be ongoing during the ordering of materials and setting-up the production plant. Within 2 weeks of the plant's set-up, the first batch of panels would be in a position to delivered to site. On average, the production would be of 20 to 30 panels per week.

PANEL INSTALLATION

Panel Installation begins after 2 weeks of production. The installation crew will be capable of installing in excess 185 m² (2000 ft²) of completely finished façade per day. Inner-stage sealant is installed at the same time of installing the panels. On average, a finished floor-façade is expected every 12 days.

EXTERIOR SEALANTS

Panel to panel joints get sealed using 2-stage, rainscreen joint method. The inner stage is installed at the time of panel's installation, so once the panel is in place there would be no rain or snow going through the exterior walls. Exterior Sealants are completed subsequent to the installation of all panels and windows.

15

FABRICATION

BRINGING DESIGNS TO LIFE

PERMANENT PANEL PLANT VS. MOBILE PLANT

A simple review of Durabond's past projects reveals that its success in the prefabrication of the Durex IBS panels is based on its extensive engineering expertise and its all-encompassing experience in detailed panel fabrication rather than in the sophistication and complexity of the panel fabrication plant. The majority of its executed projects (Large or small) have been executed through the concept and creation of project specific mobile plant. The concept is based on a simplified plant set-up that is mounted and put into effective panel-production within 1 to 2 weeks of arriving on location. No costly, time-consuming investments in fancy plant set-up, rather just an open concept space, ideally with an overhead crane, using local manpower (no previous prefabrication experience necessary, with minimal supervisory staff is all what it takes. Once the project is complete, the plant is dismantled within 1 week and moved to the next project (at no cost to the client.)

This approach has allowed Durabond to bring its expertise, know-how and experience to the project (wherever it may be) and to save its clients time and money in executing their projects using 80% local labour while delivering top notch quality. Worth considering also in mobile plant fabrication is the additional benefits of technology transfer to the local economy. A permanent prefabrication plant set-up can be as well considered for a long term objective and approach.



STEEL FRAME ASSEMBLY



EIFS SYSTEM INSTALLATION



15
PANEL FINISHING



PANEL TRANSPORTATION

INSTALLATION

IT IS FAST

**185 m² +
of finished
facade per day**

Panel erection is one of the critical phases during the construction of the project, for this reason, it is always completed by a qualified team of installers. Durex IBS panels are erected in accordance with connection and panel interface details provided in approved shop drawings. Panels arrive on site in vertical position ready to go. We try to do our best in organizing the panels on the trailer during loading so they can be removed from a trailer in sequence. Once the façade layout is completed, panels are hoisted into position for attachment to the structure with cranes suitable to individual project's requirements. All vertical and horizontal alignments are confirmed using the robotic total station as well as 3-point lasers. Vertical and horizontal panel to panel seal (inner-stages) are installed during the time of panel erection. When the panel is in place, the inner panel to panel joint becomes air/watertight. The crew is able to install 2000+ ft² (185m²) of walls per day regardless of environmental conditions. Strong winds can be the only subject of safety to be considered.



17

WE SHOW CASE

OUR PROJECTS

INTERNATIONAL RENOWNED PROJECTS

The Port of Spain International Waterfront Centre construction project is an extensive mixed-use development project along the waterfront of Port of Spain, Trinidad's capital city, aimed at revitalizing and transforming the waterfront of the capital-city. The project is a part of the overall Vision 2020, a government initiative to take Trinidad and Tobago to developed country status by 2020. The master plan involved the construction of two 26-storey office towers, a 22-storey 428 guest room Hyatt Regency Hotel, and the region's largest conference centre, overlooking the busy Gulf of Paria. It was completed in 2008. It has since become the tallest building in Trinidad and Tobago at 120m tall.

The project was designed and built by the internationally acclaimed Bouygues Construction, headquartered in Paris, France. The project is part of The Urban Development Corporation of Trinidad and Tobago Limited (UDeCOTT), Trinidad's leading public developer.

SOME OF OUR INSPIRED PROJECTS

Take a look at our recent work



PORT OF SPAIN INTERNATIONAL WATERFRONT PROJECT

Year Constructed	2016
Developer	UDeCOTT (Urban Development Corporation of Trinidad and Tobago
General Contractor	Bouygues Batiment TTCC, Paris, France
Architect	TVSA Architects, Atlanta, Georgia, USA
	WSP Group (formerly GENIVAR Inc.), Toronto, ON, Canada

Durabond’s participation in the Port of Spain International Waterfront Centre facilitated an innovative, panelized prefabrication of the exterior building envelope utilizing the Durex® Integrated Building System (IBS), that delivered quality, performance and speed of construction. The execution of the project involved several “first-of-its-kind” including a project-specific “mobile panel plant” which was in operation within 2 weeks utilizing 80% of local semi-skilled manpower with minimal foreign supervisory staff. The unique customized fabrication set-up ensured timely production with high quality results at substantial savings.





PALM BEACH PLAZA
L.G. SMITH BLVD 95, NOORD, ARUBA

Year Constructed	2008
Developer	Palm Beach Developments, Oranjestad, Aruba
General Contractor	Albo Construction NV, Oranjestad, Aruba
Architect	Pyramid Design International, Coral Gables, FL, USA Joe Fernandez Architects & Planners NV, Oranjestad, Aruba

Palm Beach Plaza is Aruba’s largest shopping mall, centrally located right in the heart of Palm Beach’s tourist area and high-rise hotels. This multilevel mall, consisting of four different buildings with a total of 12 halls covers an area of nearly 15,000m² making it the biggest of its kind in the whole Caribbean. Durex® IBS was selected by the general contractor to expedite the construction and to allow for an early start of commercial operation of the center. The design flexibility of Durex® IBS was easily adapted to the multitude of architectural features of the Caribbean open-mall concept.





Year Constructed	2008
Developer	Tierra del Sol Resort Developments, Noord, Aruba
General Contractor	Albo Construction NV, Oranjestad, Aruba
Architect	Stofft Cooney Architects, Naples, FL, USA

ANABUI LUXURY RESIDENCES

**TIERRA DEL SOL RESORT, L.G.
SMITH BLVD 95, NOORD, ARUBA**



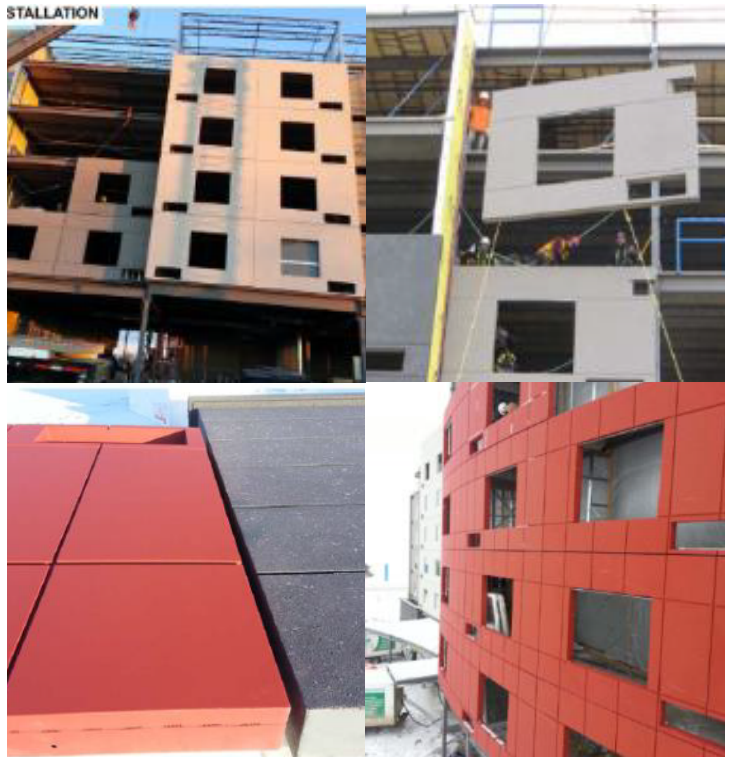
Anabui Residences is a luxurious multi-storey buildings consisting of two residences per floor of over 250m² each. The development is conveniently located in the heart of Aruba's Tierra del Sol Resort and Golf, Spa & Country Club. The project displays the ability of the Durex® IBS to be easily adaptable to traditional architecture and to deliver high performance building envelope and a top quality construction. A study of the operational costs conducted to evaluate the thermal efficiency of the Durex® IBS system revealed that the cooling costs were reduced by more than 60% compared to similar units of traditional construction.



COURTYARD MARRIOTT
333 AEROGREEN CRES, SASKATOON,
SASKATCHEWAN, CA

Year Constructed	2013
Developer	Triple One Properties Ltd., Calgary AB, Canada
General Contractor	Les Construccions CMI Inc., St. George, QC, Canada
Architect	API Consultants, Oakville, ON, Canada

Courtyard by Marriott Hotel is ideally located in proximity of the Saskatoon international airport. It features the unique design by Marriott including prominent architectural features that elevate its prominence. The effect of these architectural features were facilitated with the use of the Durex® IBS and Panelite Systems in combination with Durex® Premium Finishes such as Durex® Cromatex and Gemstone. Erection of the panels proceeded without interruption and without winter protection, considering the harsh Saskatchewan winters with temperatures as low as -40°C. This project is a testament to the effectiveness of the use of prefabricated panels for building envelope for projects located in extreme climatic zones.





Year Constructed	2016
Developer	Ashbi Hospitality Inc., Toronto, ON, Canada
General Contractor	SynRG Group Construction Partners Inc.
Architect	API Consultants, Oakville, ON, Canada

COURTYARD MARRIOTT
290 & 298 DERRY RD. W -
MISSISSAUGA, ONTARIO, CA



The Courtyard by Marriott Mississauga is an excellent demonstration of the flexibility of Durex® IBS in accommodating a multitude of cladding materials and the successful accomplishment of the variety of interfaces. The prefabrication of the Marriott iconic features such as the complex parapet structure were realized through the leadership of the Durabond team and the cooperation of the various trades involved. The project is an attestation that award-winning quality begins at the planning stage and runs through the entire project life-cycle. The prefabricated panel approach was introduced at the conceptual stage and its implementation was nurtured through all stages to the completion and delivery to the satisfied client. The award-winning project status was the culmination and pride of all involved.



**SHEPHERD’S GARDEN
HERITAGE**
109TH STREET, EDMONTON, ALBERTA, CA

Year Constructed	2015-2016
Developer	Shepherd’s Care Foundation, Edmonton, AB, Canada
General Contractor	Manshield Construction, Edmonton, AB, Canada
Architect	PGA Architects, Witawasking, AB

The Shepherd’s Garden Heritage residences project is an excellent example of 100% prefabrication of the exterior envelope. The installation of the Durex® IBS panels for the 15 storey structure was completed in 14 weeks, thus facilitating an earlier start of the installations of the fenestration units and the interior element and avoiding costly winter heating and protection. Panel installations proceeded on the lower floors while construction of the superstructure proceeded on higher floors above. The thermal efficiency of the Durex® IBS makes it the most cost-effective solution for meeting and exceeding the ever-increasing energy code requirements code requirements for higher thermal properties of building envelopes regardless of the climatic zones.





Year Constructed	2011
Developer	Zzen Design Build Ltd., Woodbridge, ON, Canada / Westin Hotels
General Contractor	
Architect	Chamberlain Architect Services Ltd., Burlington, ON, Canada

ELEMENT BY WESTIN HOTEL & CONFERENCE CENTRE
6170 HWY 7, VAUGHAN, ONTARIO, CA

The Element by Westin Hotel & Conference Centre in Vaughan exhibits a modern architectural aesthetic. The design flexibility of the Durex® IBS was key in the facilitation of the modern linier façade design of the project. The combination of the multitude of cladding components required the implementation of multi-storey Durex® IBS panels that span more than 2 ½ storeys in height, with panel joints occurring in line with the window mullions instead of the typical placement at the floor slab. Semi-prefabricated panels approach was utilized to facilitate the incorporation of other cladding materials such as stone at the ground floor level, and features using metal cladding.





AQUALINA CONDOMINIUMS
MERCHANTS WHARF, TORONTO, ONTARIO

Year Constructed	2015
Developer	Hines Inc., ON, Canada
General Contractor	Tridel Construction, Toronto, ON, Canada
Architect	Architectonica, New York, New York, USA & Kirkor Architects & Planners Inc., Toronto, ON, Canada

The Aqualina Condominiums is a unique upscale mixed-use (residential & commercial) development uniquely nestled in the trendy Toronto waterfront. The project’s capacious design combined with its exposure to the windy shores of Lake Ontario is exemplary of the capacity of the Durex® IBS to be the ideal solution for complex designs in any environment. Most notable is the utilization of the Durex® Panelite system to encapsulate the freestanding multi-storey structural steel columns found throughout the project especially on the extremities of the various buildings. The design required the cladding to be lightweight so to minimize the dead load (due to the project soil conditions) while offering substantial structural strength to address the climatic loads resulting from the project location.





Year Constructed	2015-16
Developer	Everlast Group Ltd.
General Contractor	Everlast Group Inc.
Architect	Cianfrone Architect Inc.

BOARDWALK CONDOMINIUMS
113-127 KING ST WEST, CHATHAM, ON



The Boardwalk Condominiums is a prominent development in the downtown core of the city of Chatham, Ontario. The prefabricated panels include a combination of Durex® Dur-A-Brick finish, limestone replication as well as sizable decorative cornices, which give the project a prestigious presence that complements its surroundings. The project is an excellent demonstration of the architectural design flexibility of the Durex® IBS in combination with a thermally efficient building envelope that is compliant to building code requirements while exceeding their minimum requirements for effective thermal resistance and continuous insulation (CI).

GUARANTEED PERFORMANCE

DO IT RIGHT THE FIRST TIME



01 SETTING THE OBJECTIVES

Durabond's permanent goal on any project is to "Do-it-Right the First Time" to deliver long term guaranteed performance. The objective is most certainly attained through the dedication of project's team and its **commitment to quality through all stages of the project**, from start to finish and post completion. The Durabond team is committed to quality at all stages of design, fabrication and installation.



02 MEETING THE OBJECTIVES

For Durabond, Quality isn't a real variable, it is an absolute. **Quality begins at the planning stage** and runs through the entire project life cycle. One of the biggest obstacles to high performance comes from unclear expectations and lack of accountability. Durabond will help you understand the prerequisites for excellence, help you establishing the quality standards and quality measures and tools. Quality condition reports and corrective actions to any deviations impacting long term performance are continuously undertaken through all phases of a project.



03 PERFORMANCE BY DESIGN

Durabond's attainments of its performance objectives is achieved through its emphasis on the two major performance aspects: "**Durability**" and "**Safety**".

Durex IBS have been extensively tested to meet and exceed the stringiest of code performance requirements which has been confirmed and validated through the extensive testing by world renowned laboratories and technical assessment organization. Durabond's engineering team is committed to delivering **code-compliant designs** addressing all code performance and safety requirements with respect to structural capacity, structural sufficiency and fire safety.

The durability of the Durex® IBS and its family of systems has been extensively tested and technically evaluated for compliance to Canada’s national evaluation services CCMC’s Technical Guide for EIFS (the basis to the Canadian EIFS standards CAN/ULC S716.1, .2 and .3, which are now adopted by the ISO standard). Durabond’s CCMC Evaluation Report 13103-R is considered the most comprehensive technical assessment report (Avis Technique) available that confirms the durability of the components and performance of the systems.

It is further most important to acknowledge that, to ensure durability of any building envelope, control of the details and execution of the interfaces is indispensable from the design stage right through to construction and into maintenance post completion. Most crucial to this endeavor is the proper selection and careful application of interface components that would facilitate an interface gap with the Durex® IBS based on a two-stage sealant approach and multiple lines of defense for moisture management. **Let Durabond show you the way.**



04 **ENGAGEMENT OF ALL PARTIES**

.....
Quality does not happen, it is designed to happen. Quality is everyone’s responsibility whose achievement is a collective engagement. As such, leadership, cooperation, proper and continuous communication are essential at all stages. Durabond will team with all participants to attain your project’s quality and performance objectives.



05 **WARRANTIES & REPRESENTATIONS**

.....
Warranted performance in projects is effectively enforced through adherence to functional and resilient designs and adherence to quality commitments.

Durabond’s projects’ completion and its delivery on its quality commitments is supported with the **provision of “no-nonsense” warranties** that stand behind the expected and intended performance of its systems. Durabond’s engagement to its clients continues post completion of its projects to address any clients’ concerns should the need arise.

AND ...

IT’S DONE



| CONTACT US

Head Office

55 Underwriters Road
Toronto, ON M1R 3B4
Canada

T +1 (416) 759-4474

F +1 (416) 759-4470

Toll Free +1 (877) 387-2266

Mississauga Office

6178 Netherhart Rd
Mississauga, ON L5T 1B4
Canada

T +1 (905) 565-9283

F +1 (905) 565-9365

Western Canada Office

14345-120th Avenue
Edmonton, AB, T5L 2R8
Canada

T +1 (780) 451-6364

F +1 (780) 453-9056