



## **About Inhabit**

Inhabit is a global consultancy that is committed to creating a better built environment for future generations.

Our multi–skilled team of professionals is committed to providing our clients with a cost effective, cost efficient and value driven service. With diverse, specialised skillsets and a collaborative working model, we consider projects holistically, keeping in mind the fundamental design aspirations and concurrently assessing the potential for future construction issues.

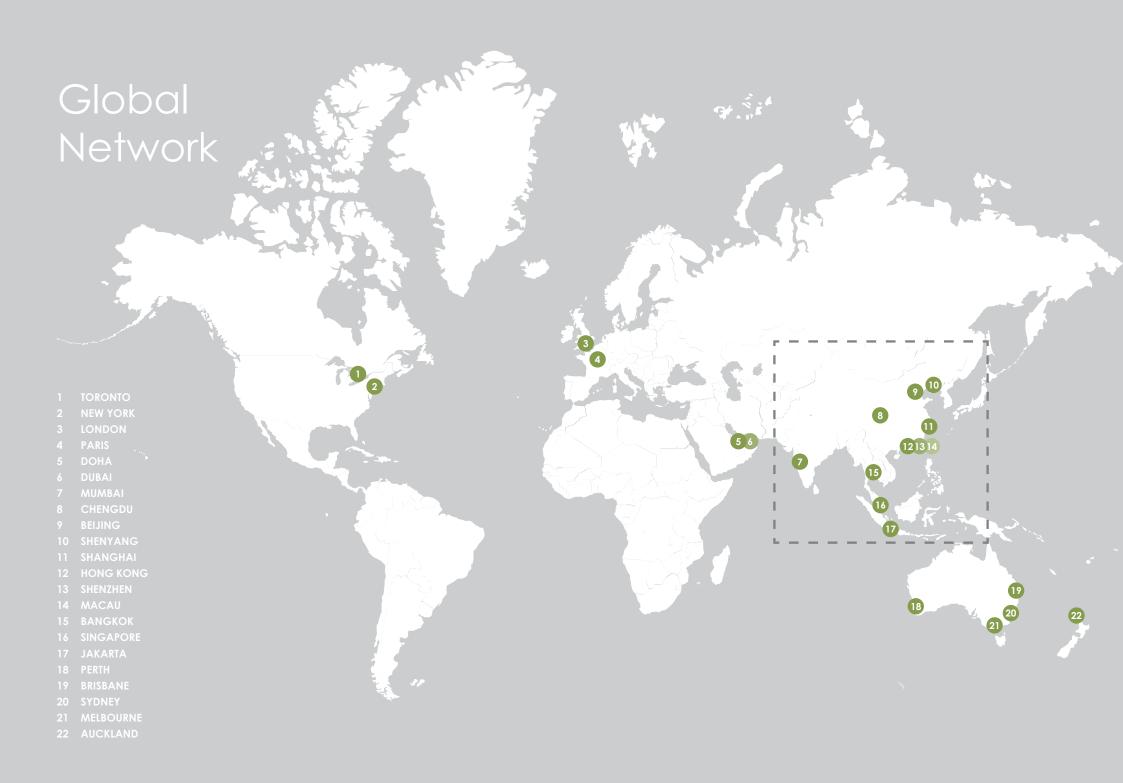
Established in 2010, with offices in Asia Pacific, the Middle East and Europe, Inhabit has developed a diverse international body of work that includes partnerships working with some of the most creative and celebrated designers around the world, resulting in a wealth of experience across project types.

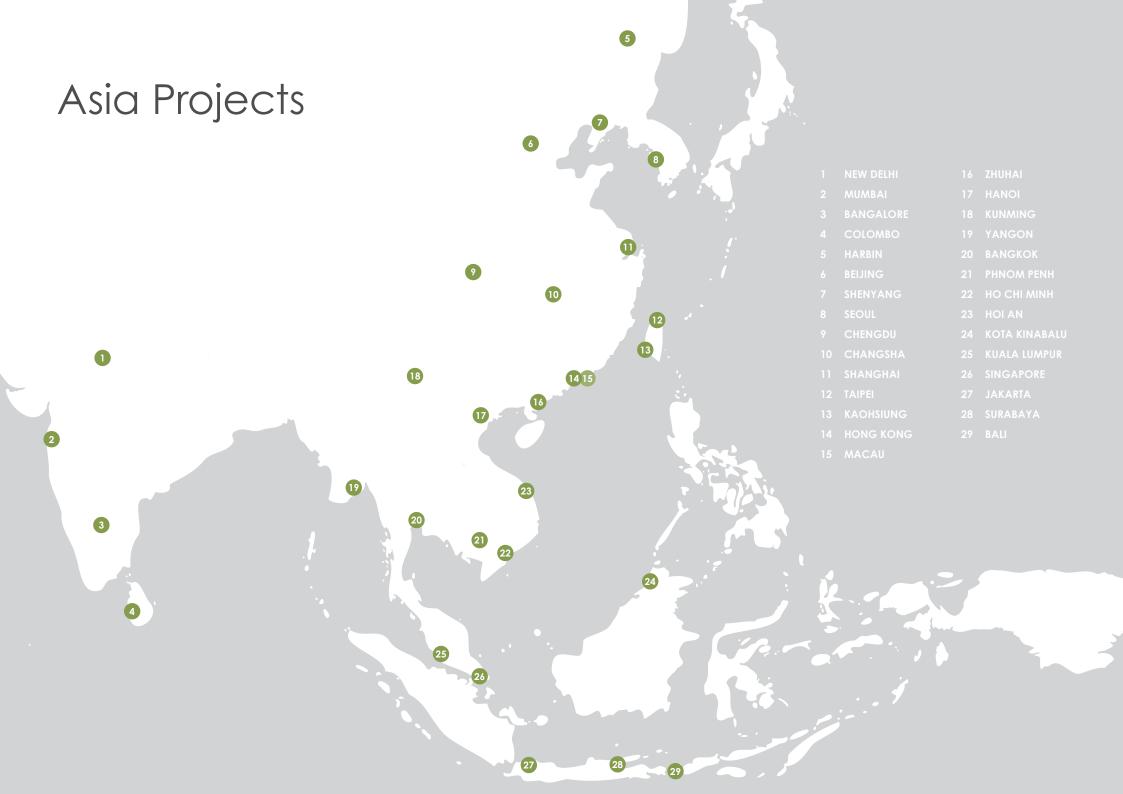
This perspective provides an opportunity to assess and reduce risk in the design at an early phase by completely exploring and testing concepts so that specified performance can be realised.

We adapt responsively to capture opportunities and achieve more by working together and leveraging collective capabilities to achieve the desired outcomes.

Inhabit welcomes continuous engagement with clients, priding ourselves on making a contribution to a high performing and future focused built environment.

Inhabit is an independent subsidiary of Egis, Europe's leading consulting and engineering firm. Together, we form a design-led consulting group with a global capability.





## Services

Our whole-of-project approach provides our skilled team with a comprehensive understanding and knowledge of façade design, fabrication and construction.

This experience paired with our specialist knowledge allows clients to explore and evaluate the opportunities and potential solutions from the team's understanding of the many methodologies available and the relationship to cost and program.

We can leverage the skills of our diverse range of specialists to evaluate the sustainable performance requirements of the project's building envelope and its impact on the lifecycle costs and the long–term viability of the development.

#### **SKIN**

Façade Consulting | Façade Engineering

#### SIGHT + SOUND

Venue Planning | Acoustics | Audio Visual

#### SENSE

Building Physics | Sustainablity

#### LIGHT

Architectural Lighting | Daylighting Stage + Theatre Lighting Bespoke Luminaires

#### **PROCURE**

Quality Assurance + Quality Control Logistics

#### HEAL

Remedial + Diagnostic | Heritage

#### CARE

Access + Maintenance Building Maintenance Units

#### **TRANSFORM**

Shop Drawings | Computational Design BIM | 3D Modelling





#### SKIN

Our approach to the envelope is to look primarily at the vision that has been created by the building designer and to understand the story being told. In realising the concept, we develop a creative narrative to begin the process of delivering a technical solution to an architectural vision.

There are a number of factors our team takes in to consideration including aesthetics, structural and mechanical engineering, material science, procurement, fabrication and constructability. Through a detailed understanding of these specialised areas, we are able to develop elegant and commercially viable solutions to architectural challenges that are constantly being refined. Such solutions can be established with the employment of advanced design and engineering tools such as specifically enhanced

software and 3D modelling, technology advancements in materials, and often simply by applying common sense design principles that have been rigorously tested over time.

Our philosophy is centred around finding solutions that cost less, last longer and make buildings more efficient. We are committed to collaboration with other like –minded designers, with the experience and knowledge to understand that successful collaboration will lead to a successful outcome.





#### **SENSE**

By creating sustainable, high–performing building designs we seek to improve the comfort of occupants and develop solutions that are long term and sustainable. Our focus is the living, breathing 'skin' of the building and Inhabit's Building Physics and ESD services prioritise the complexities of the building performance, against the backdrop of meeting the sustainable design goals of the project.

Our capabilities range across the project life cycle, from business case and project concept through to detail design and analysis, construction, and post-occupancy assessment. We see our Building Physics capability as a mechanism to realise outcomes at a detail design and assurance level. Through this detail-oriented approach, we are better able to holistically co-ordinate project teams towards macro scale ESD goals that are achievable in practice. This diversity of experience, coupled with our drive to deliver the best outcomes, gives our team a leading edge in pragmatic and outcome-focused project involvement.

We promote the use of the Passivhaus Standard as best practice through Grün Consulting, an Inhabit company. Together, Grün Consulting and Inhabit offer Pasivhaus consultancy across the building lifecycle from concept and schematic design to tendering and construction and certification.

#### CARE

Access and Maintenance, or more commonly termed 'BMU Consultancy', covers a broad array of service offerings that ensure an integrated solution is provided at the outset of a project and is fully coordinated with all disciplines.

Inhabit has extensive knowledge and experience solving issues related to the access of surfaces or services and the subsequent design, specification and execution of the maintenance solution.

The services provided can cover a multitude of scopes, such as external façades, interior façades, architectural features, signage and LED screens, multiheight voids and soffits, bridges and lift shafts.

#### LIGHT

Our lighting design team is driven by highly experienced and creative designers who are passionate about developing unique and innovative designs that enhance the visual environment and the impact of light on the quality of our surroundings.

We work collaboratively with clients and other designers to generate exciting and interesting visual experiences that help define the core characteristics of the overall design. We believe that our work adds value to projects through our ability to use light.

Our designs are technically robust and demonstrate a responsible attitude towards our environment, maintenance, budget and programme. We have created lighting solutions that span the spectrum from private residences to public arenas, art galleries and landscapes to multi–storey towers.

Quality of light plays a vital role in the success of projects and we seek to deliver our creativity in ways that augment the architecture and enhance the visual experience of every project with which we are involved.

#### **PROCURE**

Offshore supply chains provide tremendous opportunities to utilise lowcost manufacturing in order to reduce building costs. In the past 10 years, the façade industry has gone through a monumental change and now a high percentage of the world's high rise building facades are manufactured in China and SE Asia. This has meant that Chinese manufacturers have needed to adapt to international standards very quickly and improve the quality of their products to a level that is acceptable across global markets. As a result of this, QA/QC systems need to be in place to protect builders, developers and end users.

Inhabit provides a range of services throughout China and SE Asia to support international projects requiring the offshore procurement of materials.





#### **SIGHT & SOUND**

Our acoustic, theatre and audio–visual disciplines pursue creative design solutions that consider the strategic, aspirational and financial objectives of our clients. Through informed stakeholder engagement we identify the holistic aspirations and priorities that contribute to flexible, efficient and inspiring projects.

Each space has a unique acoustic personality. As people enter and engage with a space, its materiality and geometric composition express and draw an individual response. We do this unconsciously throughout the day, every time we enter a new room or space.

Planning for acoustics begins with an understanding of the goals and aspirations of occupants' advantage. We use an interactive, creative design model, to pursue collaborative design responses that are integrated with the geometry, finishes, structure and systems of each unique building. Our services include brief development and stakeholder

engagement, building acoustics design, room acoustics modelling and optimisation and environmental noise mitigation.

Specialist Venue Planning is the holistic alignment of brief, concept, aspiration and value at the feasibility and concept phases of a project. We develop a design that responds to the site and the project's functional requirements. We identify the sonic and theatrical aspects of project that affect the critical spatial requirements and planning relationships that inform the physical and cost planning.

Inhabit integrates complex technical systems with architectural design and engineering disciplines. Our audiovisual design approach begins with the experience of the users and develops systems that are simple to operate and provide flexible technologies that support rather than impede. Our team seeks integrated audio-visual design solutions that are future focused and scaleable within an interactive user experience.

#### **TRANSFORM**

Modern technology in manufacturing and production process, along with software innovation has seen the construction industry now working in 3D with Building Information Modelling (BIM) influencing design outcomes. Inhabit's network of production professionals helps to inform the buildability and practicality of designed systems between the design intent and finished product.

With our skillset in computational design, we are positioned for the successful delivery of projects with a high level of complex geometry.

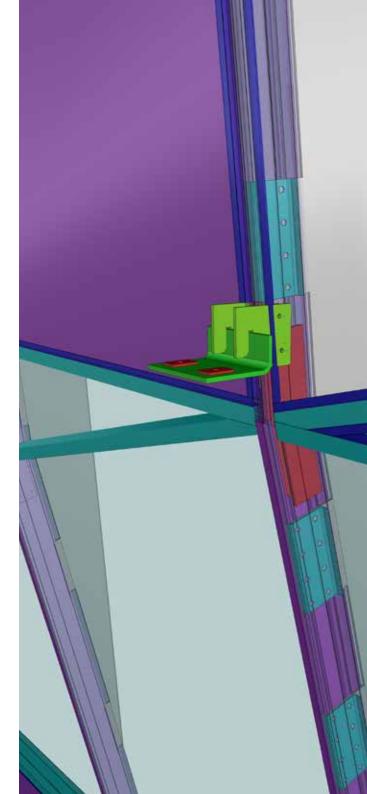
Our team is focused on the creation of highly detailed drawings that are used by all sectors of the building industry. From architects in early stage design, across to fabricators and installers onsite, we influence a broad range of clients across different stages of the production lifecycle, leading to the creation a building envelope that performs as intended.

#### HEAL

A holistic remedial service enables our clients to proactively manage risk, improve asset value and elevate public and occupant wellbeing.

Inhabit's diagnostic and remedial specialists provide a technically focused pathway with the desired outcomes balanced between enhanced performance and increasing the life of existing building façades.

This includes undertaking condition assessments and materials testing aimed at diagnosing the contributing factors leading to the condition of the building envelope. Our teams use a variety of industrial rope access, building maintenance units and elevated work platforms, inspecting all façade types across many sectors.





# Our Commitment

Our values shape the way we work and behave and inform our commitment providing our clients with cost effective, value–driven and sustainable solutions.

Inhabit seeks to conduct business in an ethical, honest and transparent manner with a commitment to act professionally, fairly and with integrity in all our business dealings and relationships in all regions where Inhabit operates.

We endeavour to identify and manage all conflicts of interest so that they do not affect our services and we take a zero–tolerance approach to bribery and corruption.

Inhabit is committed to strengthening our work practices to create solutions in a way that has a positive impact on the world

around us. We closely analyse the impact Inhabit's design solutions have on energy consumption, greenhouse gas emissions or natural resources.

Our company fosters a culture in which our people welcome and support each other, go the extra mile in their role and focus on creating and producing work in a better way. We aim to provide and improve gender equality in the workplace and provide an environment which recognises, respects and values the diversity of its workplace participants.

We are committed to providing a safe and healthy environment for employees, contractors, clients and the public. We are dedicated to continually improving health and safety performance and will promote a high standard of health and safety.



# Projects











## TENCENT SEAFRONT TOWER

Designed to achieve LEED NC Gold certification, Tencent's headquarters is a vertical campus contained in two towers positioned and rotated to help minimise direct exposure to the sun, as well as capture prevailing winds and aiding ventilation. The unitised curtain wall façade includes glare and solar heat gain control systems and incorporates a modular shading system that adjusts according to the degree of sun exposure.

INHABIT Façade Consulting
DEVELOPER Tencent Holdings Ltd.

ARCHITECT NBBJ

PHOTOS Terrence Zhang

SHENZHEN, PEOPLE'S REPUBLIC OF CHINA







## UNILEVER HEADQUARTERS

The headquarters of the world's largest transnational consumer goods company was designed to be true to the Unilever brand and the Indonesian culture. In collaboration with the client and the architect, Inhabit developed a series of unique lighting features and solutions to create a workplace which is vibrant, distinctive, efficient and functional.

INHABIT Façade Consulting

Access + Maintenance

Lighting

**Building Physics** 

Acoustics

DEVELOPER Unilever Indonesia

ARCHITECT AEDAS

JAKARTA, INDONESIA









## THE GREAT ROOM

Designed to offer amenity space and flexible office solutions, the Great Room is a co-working space. Inhabit's Hong Kong Lighting Team worked in close collaboration with architects to develop bespoke detailing and lighting features which are carefully positioned to generate a welcoming feel with a balanced level of drama and functional light.

INHABIT Specialist Lighting Design

DEVELOPER CBRE Pte. Ltd.
ARCHITECT Hassell Studio
PHOTOS Brian Zhang

HONG KONG, PEOPLE'S REPUBLIC OF CHINA







## STUDIO CITY

This development comprises a large podium on which eight towers of varying heights between 133m and 157m are located in a semi-circle with a range of façade systems. The towers are divided into two halves joined by an elevated ferris wheel and metal cladding. Multiple façade access and maintenance solutions are used, with trackless BMUs and davit trolleys to suit the spatial requirements of the different roofs.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER Melco Resorts & Entertainement

ARCHITECT Leigh and Orange PHOTO Lino Airosa (Top Left)

MACAU, PEOPLE'S REPUBLIC OF CHINA









## CHANGSHA INTERNATIONAL FINANCE SQUARE

Two skyscrapers soar above a prominent mixed—use development in the heart of Changsha, Hunan, creating a distinctive landmark on the city skyline. It is the tallest building in Changsha with a total GFA of about 980,000 sqm. Inhabit's teams from the Hong Kong, Beijing, Chengdu and Shanghai offices collaborated as façade consultants on the project.

INHABIT Façade Consulting

DEVELOPER Wharf Holdings

ARCHITECT Wong Tung & Partners Ltd.

Benoy

PHOTOS Wharf Holdings

CHANGSHA, PEOPLE'S REPUBLIC OF CHINA



## MENARA ASTRA HEADQUARTERS

This premium grade A commercial tower standing at 261m in height has a Platinum Green Mark Rating from BCA Singapore. The façade includes high performance unitised curtain wall systems, large–span glass façades, twin cantilevered wing wall structures and a complex 3–dimensional geometric crown structure.

INHABIT Façade Consulting

Access + Maintenance

Acoustics

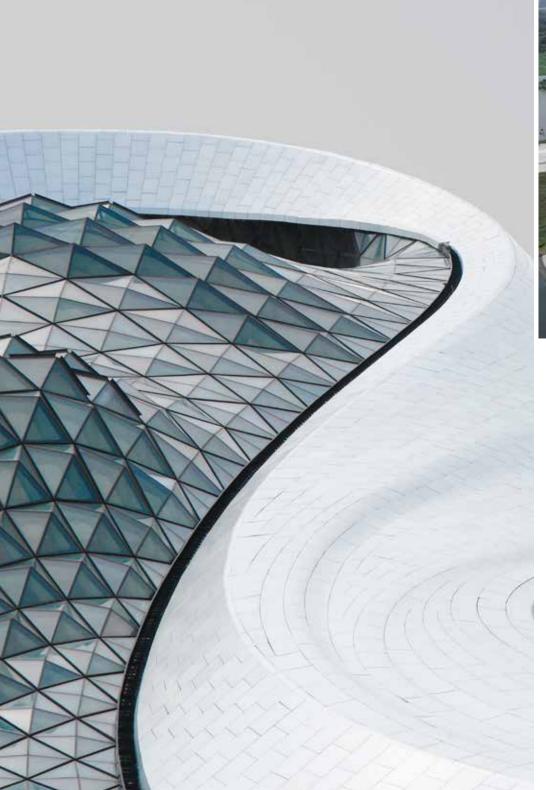
DEVELOPER Astra International

ARCHITECT Nikken Sekkei

JAKARTA, INDONESIA









## GRAND THEATRE OPERA HOUSE

This opera house building seamlessly blends in with nature and the topography of the surrounding wetlands, appearing as if sculpted by wind and water. The active skin of the building comprises four dancing ribbons and free–form curved skylights allowing a high level of natural daylight and energy saving. The dancing ribbons are clad with a double curved 5mm aluminium panel fixed to a Kalzip standing seam underlay.

INHABIT Façade Consulting
DEVELOPER Harbin Government
ARCHITECT MAD Architects

PHOTOS Kris Provoost Photography

HARBIN, PEOPLE'S REPUBLIC OF CHINA







## **MURRAY HOTEL**

The renovation and refurbishment of this listed 1960s building by architects Foster + Partners extends the life of this iconic Hong Kong building, at the same time introducing a new function to meet the changing demands of the city. In the original design the windows are recessed and carefully oriented to minimise the effect of the city's intense sub–tropical sunlight on the building's solar load.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER Harbour City Estates Ltd | Wharf Holdings

ARCHITECT Foster + Partners
PHOTOS Brian Zhang

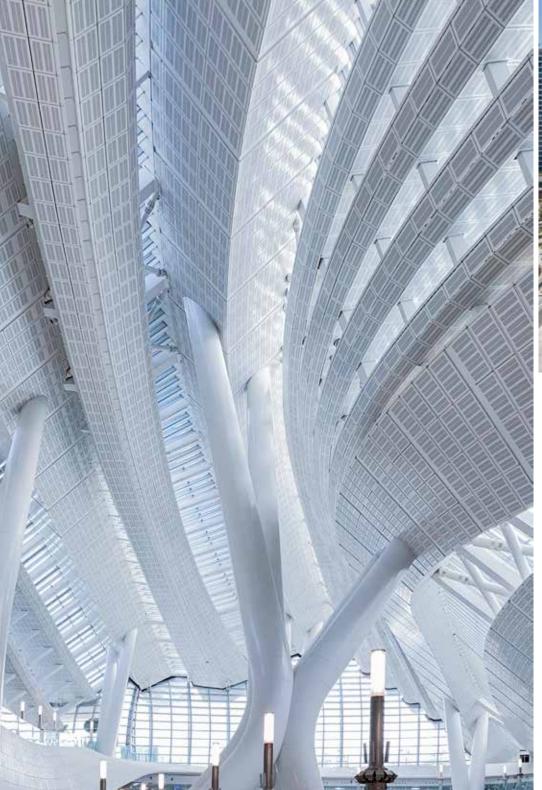
HONG KONG, PEOPLE'S REPUBLIC OF CHINA













## WEST KOWLOON STATION

An underground terminus for 80,100 passengers daily, the building has a 3–dimensional roof structure with associated glass façade systems. The cleaning and access requirements internally are most challenging due to the high ceilings and geometry. The overall structure is highly irregular in shape and is made up of long span steel trusses with huge differential movements and tolerances.

INHABIT Façade Consulting

Access + Maintenance

CLIENT Leighton Gammon Joint Venture

DEVELOPER MTR Corporation

ARCHITECT AEDAS

PHOTOS Kris Provoost Photography

HONG KONG, PEOPLE'S REPUBLIC OF CHINA



## SHANGRI-LA HOTEL, COLOMBO

This five-star 500-room hotel is part of the new One Galle Face development and is one of the tallest buildings in the Sri Lankan capital. The tower façade features architectural projections with a white finish to create a modern feel with influences from the local tropical vernacular.

INHABIT Façade Consulting

DEVELOPER Shangri-La

ARCHITECT Handel Architects

PHOTOS Shangri-La Hotel Colombo

COLOMBO, SRI LANKA







## RITZ CARLTON & J.W. MARIOTT, GALAXY RESORT

This project is comprised of an extension of the existing Galaxy Casino complex, with the 4-storey podium area increased to allow an additional 160m hotel tower to sit upon it. The project features various façade access and maintenance systems, ranging from roof-top BMUs to bespoke rope access davit arms to access the many protruding features and recess areas.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER Galaxy Entertainment Group

ARCHITECT Steelman Partners

Wong & Ouyang Ltd.

Photo Lino Airosa (Top Right)

MACAU, PEOPLE'S REPUBLIC OF CHINA





## RAFFLES CITY CHANGNING

A high–end development embraces heritage buildings on the site of the first girls' school in Shanghai. Raffles City Changning is located in the Zhongshan Park commercial hub and is the second Raffles City in Shanghai. The project consists of three high–end office towers and a large commercial podium. Five heritage buildings have been preserved on the site, the former St Mary's School. The towers' façade is a high–performance unitized curtain wall system. The podium has a large–scale glass wall with stainless steel cladding and a double layer of aluminium mesh on the façade.

INHABIT Façade Consulting

DEVELOPER Capital Land
ARCHITECT P & T Group
PHOTOS Zilu Wang

SHANGHAI, PEOPLE'S REPUBLIC OF CHINA







## WANGJING SOHO

Three curved asymmetric towers designed as inter–weaving mountains by UK–based architect Zaha Hadid fuse building and landscape. Featuring curved and tapered forms, the main façade systems include a unitized curtain wall system with stepped aluminium cladding of slab. The slab cladding was custom designed to vary in height, width and depth. Coldbending technology was successfully adopted to achieve the smooth curvature of the aluminium strips while achieving savings.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER SOHO China ARCHITECT Zaha Hadid

China Construction Design International

BEIJING, PEOPLE'S REPUBLIC OF CHINA







## PACIFIC CENTURY PLACE

A 40-story Premium Grade A office tower. The façade features 210m laminated horizontal fins with incorporated lighting and 3.6m-wide curtain wall panels. The building has achieved platinum LEED certification.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER Prima Bangun Investema

ARCHITECT Takenaka Design

PDW Architects

JAKARTA, INDONESIA



## CAPITAL PLACE

An international Grade A office development with over 90,000 sq m of offices and over 5,000 sq m of retail space. The project strongly promotes sustainability in water usage, air quality control, and electricity consumption and aims to deliver a 50% reduction in water consumption. The building is the first in Hanoi to acquire LEED certification.

INHABIT Façade Consulting

Access + Maintenance

Shop Drawings

DEVELOPER Capitaland Vietnam

ARCHITECT Atkins

HANOI, VIETNAM









## ST REGIS HOTEL

A 25-storey hotel with a total GFA of 99,000sqm. The building's façade features lightweight triangular aluminium plates. The variations in the angle of the metal cladding reflect sunlight during the day and the city's night lights in the evening.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER China Resources Property Limited

ARCHITECT DLN Architects Limited

HONG KONG, PEOPLE'S REPUBLIC OF CHINA





## HERMÈS HANSHIN

This boutique is located in the Hanshin Department Store in Kaohsiung, Taiwan. The façade comprises a pressed metal sheet fabricated in Germany, fixed to a unitised aluminium panel system.

INHABIT Façade Consulting

DEVELOPER Hermès ARCHITECT RDAI

The Oval Partnership

KAOHSIUNG



## HOI AN SOUTH INTEGRATED RESORT

The US\$1 billion Phase 1 development will include a casino, restaurants, an 18-hole golf course, villas and more than 1,000 hotel rooms along 4km of coastline. The complex has multiple façade systems including curtain wall, window wall, sliding doors, windows, stone, shopfronts and canopy.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER Hoi An South Integrated Resort

ARCHITECT Wong & Ouyang Ltd.

PHOTOS Hoi An South Integrated Resort

HOI AN, VIETNAM





## CENTRAL BOULEVARD TOWERS

Two office towers, one of 48 stories and a second of 16 stories, above a 7-storey podium with retail space, buoyed by an interstitial green landscaped space. The building has Green Mark Platinum Certification for green sustainable building design with energy and water efficient features and a high-performance double-glazed heat and UV reducing façade.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER IOI Properties Singapore

ARCHITECT Callison RTKL

A61 Architects

SINGAPORE







## YOMA CENTRAL

The project consists of the redevelopment of the former Myanmar Railways Headquarters site and includes the conservation and reuse of the Myanmar Railways Building. This project has two grade A office towers, a shopping mall, hotel and a serviced apartment building.

INHABIT Façade Consulting

Access + Maintenance

DEVELOPER Meeyahta Development Limited

(JV between Yoma Strategic Holdings Ltd., First Myanmar Investment Company Ltd., Mitsubishi Companies, International Finance Corporation, the Asian Development Bank)

ARCHITECT Balmond Studio

RENDERS Insert

YANGON, MYANMAR





## **FLATIRON**

Flatiron is a freehold grade A office and apart'hotel inspired by Flatiron in New York, one of the world's most iconic skyscrapers and a symbol of New York City. With a total GFA 82,134m2 over 41 floors with 212 office units and 343 hotel units, the building height is approximately 157m with curtain wall area at 25,000m2.

INHABIT Façade Consulting

Access + Maintenance

Lighting

DEVELOPER Meridian International Holdings

ARCHITECT KLS Partnership

PHNOM PENH, CAMBODIA





### HUAWEI FLAGSHIP STORE

Huawei's first Flagship Store is in the heart of heart of Shenzhen's MixC World shopping mall. The three-storey building adopts the design concept of a "City Square", combining traditional Chinese and western architectural philosophy. The façade has a large area of high-transmission glass with complex-curved glass at the building's corners.

INHABIT Façade Engineering

Shopdrawings review

DEVELOPER Huawei

ARCHITECT Saguez & Partners

PHOTO Zilu Wang

SHENZHEN, PEOPLE'S REPUBLIC OF CHINA

## SABAH INTERNATIONAL CONVENTION CENTRE

This project covers a total area of 6ha with facilities spanning over five levels with a total built-up area exceeding 75,000 m2. The development offers a 5,300sqm convention hall, 5,300sqm exhibition hall, meeting rooms, VIP lounges, and a performing arts hall. The glass atrium gives visitors spectacular views of Mt Kinabalu and the South China Sea.

INHABIT Façade Consulting
DEVELOPER Sabah Government

ARCHITECT M. Kiandee Architect Sdn Bhd

KOTA KINABALU, SABAH, MALAYSIA



# Additional projects

Bali

ANDAZ BALI

INHABIT Acoustics

DEVELOPER JSI ARCHITECT JSI

Chengdu

WHARF IFS

INHABIT Façade

DEVELOPER The Wharf (Holdings) Limited

ARCHITECT Benoy

Kohn Pederson Fox Associates

Ho Chi Minh

HILTON HOTEL

INHABIT Façade

Access + Maintenance

DEVELOPER SGCL Corportation

ARCHITECT Gensler

Kolkata

UTALIKA

INHABIT Façade
CLIENT S E Builders
ARCHITECT SeARCH

**Kuala Lumpur** 

8 CONLAY

INHABIT Lighting

Acoustics

DEVELOPER KSK Land

ARCHITECT RSP Architects

Kunming

CRL MIXC

INHABIT Façade

DEVELOPER China Resources Land Kunming

ARCHITECT PLP

Benoy

Mumbai

PIRAMAL MAHALAXMI

INHABIT Lighting

CLIENT Piramal Realty

ARCHITECT Callison

AHC

**New Delhi** 

MARRIOTT MARQUIS

INHABIT Façade CLIENT DB Realty

ARCHITECT AHC

PHOTO Kris Provoost Photography

# Additional projects

#### Seoul

#### HOTEL COURTYARD BY MARRIOTT

INHABIT Lighting

DEVELOPER Serveone Co., Ltd

ARCHITECT Kesson

#### Shenyang

#### BAONENG WORLD FINANCIAL TOWER

INHABIT Façade

Access + Maintenance

DEVELOPER Baoneng Group
ARCHITECT Atkins Global

## Surabaya

### 88 AVENUE

INHABIT Façade

Access + Maintenance

DEVELOPER KSO WASKITA DARMO PERMAI

(PT WASKITA KARYA & PT

DARMO PERMAI)

ARCHITECT Tange Associates

### Taipei

#### **FORWORLD**

INHABIT Façade

Lighting

DEVELOPER Forworld

ARCHITECT Handel Architects

#### Zhuhai

## ZHUHAI INTERNATIONAL EXHIBITION AND CULTURAL CENTRE

INHABIT Façade

Access + Maintenance

DEVELOPER HuaFa Group ARCHITECT 10 Design





PHOTO Brian Zhang

W | inhabitgroup.com
E | contact@inhabitgroup.com
O | f | in | @inhabitgroup

