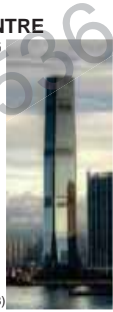


INTERNATIONAL COMMERCE CENTRE
GENERAL INFORMATIONS OF THE BUILDING

- Official Name.....: International Commerce Centre
- Location.....: Hong Kong, China
- Use.....: Hotel, Office
- Structural Height...: 484 meters
- Number of stories : 108
- Construction End...: 2010
- Architecture.....: Kohn Pedersen Fox Associates
- Structure.....: Arup
- Contractor.....: Sanfield Building Contractors
- Client.....: Sun Hung Kai Properties
- Structural system...: Core-outrigger system (Taranath,1998)



(CTBUH, 2010)

GENERAL INFORMATIONS OF THE BUILDING

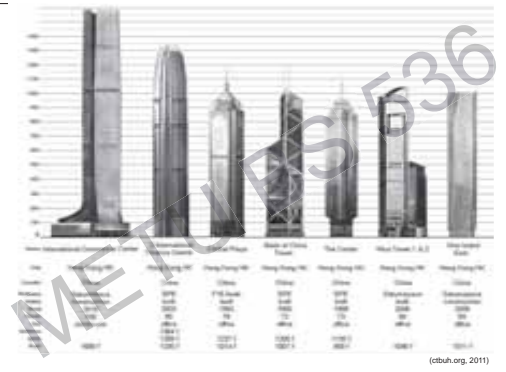
Trading Places

ICC is challenging the pricey Central district as Hong Kong's office hot spot

| District | Total grade & office area* | Average net effective total level† | Vacancy‡ |
|---------------|----------------------------|------------------------------------|----------|
| Central | 14.6 | \$34.25 | 1.00% |
| Sheung Wan | 3.8 | 6.57 | 3.70 |
| Admiralty | 4.5 | 8.52 | 1.90 |
| Wan Chai | 11.0 | 8.18 | 3.50 |
| Tsim Sha Tsui | 10.9 | 8.00 | 5.00 |
| ICC (project) | 2.5 | 6.62 | above |



(CTBUH, 2010)



(ctbuh.org, 2011)

FIGURES

- Height(Architectural) :484.0 meter / 1588 feet
- Height(Occupied) :468.8 meter / 1538 feet
- Height(To Tip) :484.0 meter / 1588 feet
- Height(Observatory) :387.8 meter / 1272 feet
- Floors Above Ground :108
- Floors Below Ground :4
- Number of Elevators :83
- Top Elevator Speed :9 m/s
- Tower Ground Floor Area :274,064 m² / 2,950,000 ft²
- Number of Hotel Rooms :312
- Number of Parking Spaces :1700

(CTBUH, 2011)

COMPANIES INVOLVED

- Owner :Sun Hung Kai Properties
- Developer :Sun Hung Kai Properties
- Design Architect :Kohn Pedersen Fox Associates
- Associate Architect :Wong & Ouyang
- Structural Engineer :Arup
- MEP Engineer :J. Roger Preston Group
- Project Manager :Harbour Vantage
- Main Contractor :Sanfield Building Contractors Limited
- Other Consultant :RWDI
- Material Supplier :Schindler
- Material Supplier :Permateelisa Group

(CTBUH, 2010)

ABSTRACT



(Drawn by Faith Gencür)

More than an iconic statement, the Hong Kong ICC fundamentally alters the way tall buildings are seen today (ctbuh, 2011).

Rather than just being objects in isolation, transit integrated tall buildings represent a sustainable model for future high-rise development (ctbuh, 2011).

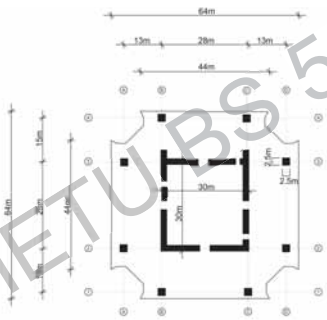
STRUCTURAL SYSTEMS ACCORDING TO:

- Taranath :Core-outrigger system,
- Smith :Outrigger-braced system,
- Günel&Igin :Outriggered Frame system,
- Buyukozturk :Core and outrigger system.

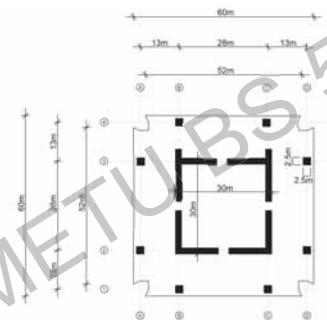


(Model by Faith Gencür)

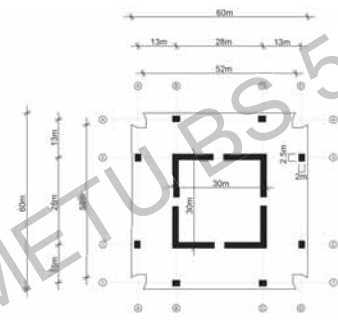
PLAN OF ZONE 1 – OFFICE FLOOR (floor12)



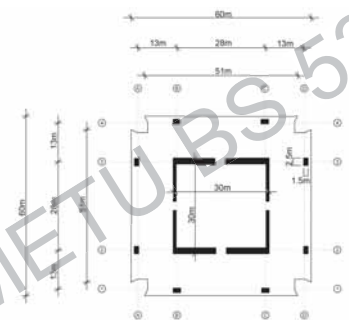
PLAN OF ZONE 2 – OFFICE FLOOR (floor30)



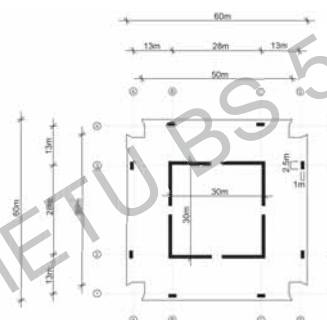
PLAN OF ZONE 3 – OFFICE FLOOR (floor50)



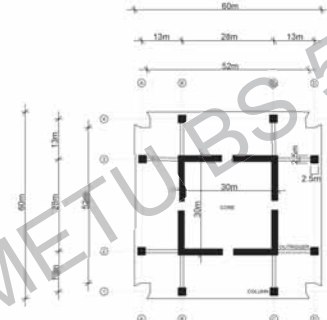
PLAN OF ZONE 4 – HOTEL FLOOR (floor70)



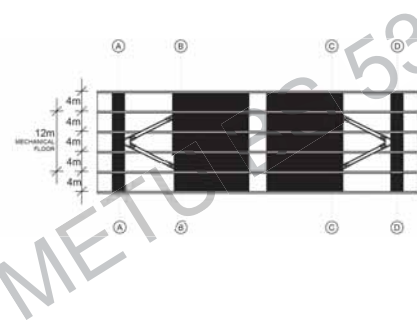
PLAN OF ZONE 5 – HOTEL FLOOR (floor86)



MECHANICAL FLOOR WITH OUTRIGGER

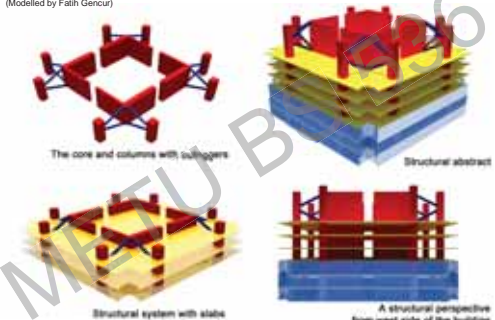


SECTION OF MECHANICAL FLOOR



STRUCTURAL ISOMETRICS

(Modelled by Faith Gencür)



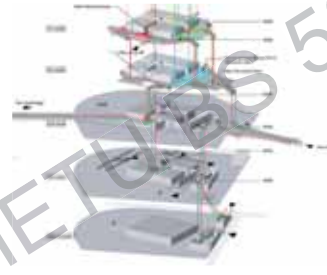
A Sustainable Paradigm Transit Integrated Tall Buildings:

- ❑ Concept of a building which is a part of a larger ecosystem
- ❑ Building as a horizontal network



(CTBUH, 2010)

THE HORIZONTAL NETWORK SYSTEM



(CTBUH, 2010)

SCHEDULE OF A SITE VISIT

During the construction of the building, it was organized several site visits to create a public awareness about the relations between the skyscrapers and the mega cities.



(edifaltes.com, 2011)

ELEVATION SYSTEM OF THE BUILDING

- ❑ Schindler Model:FM720s
- ❑ Double-Deck Elevator
- ❑ Capable of lifting 11.5 tons
- ❑ 9m/s, carry weight 4.500 kgs
- ❑ 40 double decks



(CTBUH, 2010)

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- Taranath, B. Steel, Concrete & Composite Design of Tall Buildings, New York: McGraw-Hill Book Company, 1998, p.445-466.
- Photos in slides 2, 4, 6, 19, 20, <http://ctbuh.org>, last access 15.11.2011.
- Photos in slide 22, <http://www.edifaltes.com>, last access 18.11.2011.
- Photos in slides 24, 25, 26, 27, 28, <http://skyscraperpage.com>, last access 19.11.2011.