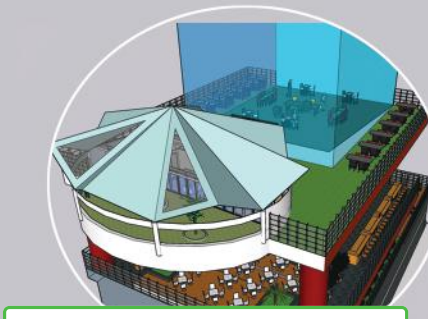
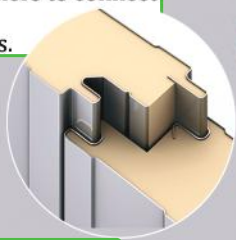


The electronic smart glass is a new technology that can reduce the heat of solar radiation and control the transparency of the glass



Observation deck section which contains a restaurant, bar and a swimming pool

Double skinned sandwich wall panel
Two flat steel sheets infilled with concrete, with median fasteners to connect both sheets.



The BUBBLEDECK is a RC slab system that incorporates air-filled voids to reduce the weight and increase the span

Smart home system helps to manage lighting, temperature, media, shades, music in premise, and most importantly giving owner ultimate comfort, security



Face recognition and temperature check system



Background:

The building consists of 30 floors, at Malacca city.

- 1st to 3rd floor are part of the mall.
- 4th to 14th floor are residential floors.
- 15th floor Swimming pool, gym, and meeting rooms, covered by a glass panel
- The last three floors consist of a hanging restaurant, bar, and swimming pool.

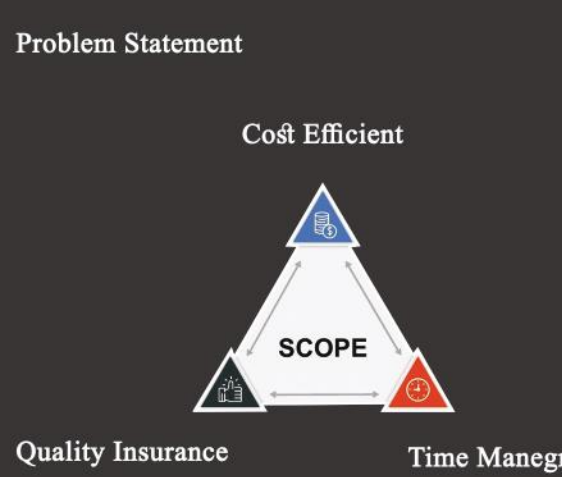
iGreen Tower will be build using IR4.0, and the design is inspired by the historical architecture of Malacca.

Objectives:

- Achieve sustainable development
- Innovative and smart features
- Minimize costs and delays

Methodology:

- Building information Modeling Technology
- Precast reinforced concrete members
- Green supply chain management



Results:

The design of the building before during and after the construction was a long with Ir. 4.0. Therefore, introducing a new technological features in terms of building and smart features inside the apartments, giving a high return to the investor.

Designed By:

1. Muhammed Ahmed Ali Almahageri
2. Abdulqader Alwosabi
3. Ahmed Abdulaziz Mohammed Bahashwan
4. Desy Mega Yudhisari
5. Kareem Abdulla Noman

Supervised by:
Assoc. Prof. Ir. Mohd Nasir Hussin