



March Update

MEINHARDT IN FOCUS

This month we would like to take the opportunity to say that we hope everyone is safe and well, amidst the COVID-19 pandemic. We would like to thank our clients and industry colleagues for their patience and understanding as the industry adapts to the new business environment with travel restrictions, social distancing and working from home now being common place across the region and globally. Stay safe.

*John Pollard
Managing Director - Meinhardt Thailand
Group Regional CEO - South Asia*



PROJECT IN FOCUS

The first Carlton property outside of Singapore, **Carlton Hotel Bangkok Sukhumvit** has officially opened in Thailand. Located on a prime piece of land on Sukhumvit Road between Asok and Phrom Phong.

This 5 star hotel has a striking building façade featuring 338 well-appointed guestrooms and suites with GFA of 43,000 sq.m. The 34 storey Carlton Hotel Bangkok also offers a range of dining options, leisure facilities and over 1,200 sq.m. of meeting and event space.

Meinhardt Thailand was engaged in the very early stages of the project providing **Civil and Structural consultancy design services** to this challenging project. This required some localized structural strengthening to accommodate architectural and interior design requirements using advanced materials such as Fiber Reinforced Polymer (FRP).



STAFF IN FOCUS

Senior Structural Engineer **Khun Thirawat Termsinsawat** holds over 10 years of experience in the design of a wide range of developments. He obtained his M. Eng. in Structural Engineering from Asian Institute of Technology (First-Class Honors) and B. Eng. in Civil Engineering from Kasetsart University, Thailand. His experience includes residential buildings, low and high rise buildings and this month's featured project – the Carlton Hotel Bangkok Sukhumvit.

"I am proud to be part of the Meinhardt Thailand team – getting the opportunity to work on various types of projects. Each has its unique challenges. Our company has a strong culture. Whilst there are many technical challenges working as a structural engineer, nobody is ever left alone at Meinhardt and can seek assistance from their team leader and peers within the company."



*Thirawat Termsinsawat
Senior Structural Engineer*

FACT IN FOCUS

Comfort, or more specifically **thermal comfort**, is influenced by many factors. The most critical environmental factors are **air temperature, radiant temperature, air speed** and relative **humidity**. Natural ventilation is a highly desirable concept, providing fresh air for respiration and dispersion of odors and improved comfort for occupants. Temperature and humidity are hard to control naturally; but shading can provide relief from radiant heat, and air flow (or air speed) can be manipulated through the building form and orientation, for both indoor and outdoor environments.

The preferred method of analysis for airflow is Computational Fluid Dynamics (CFD). Typically this includes sophisticated software, run on powerful computers and skilled analysts. The results of this effort however are worthwhile as it provides an environmentally friendly, energy saving result to the benefit of project owners and occupants alike.

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