



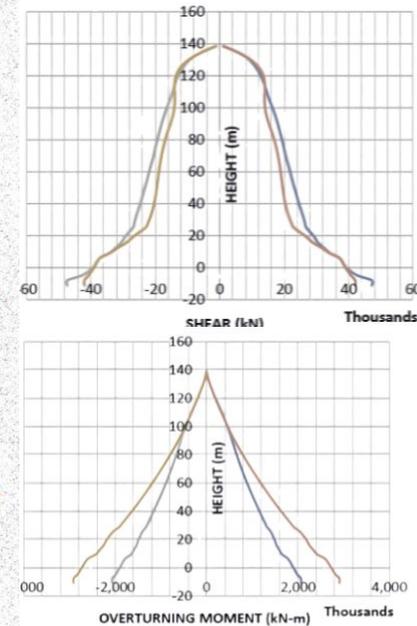
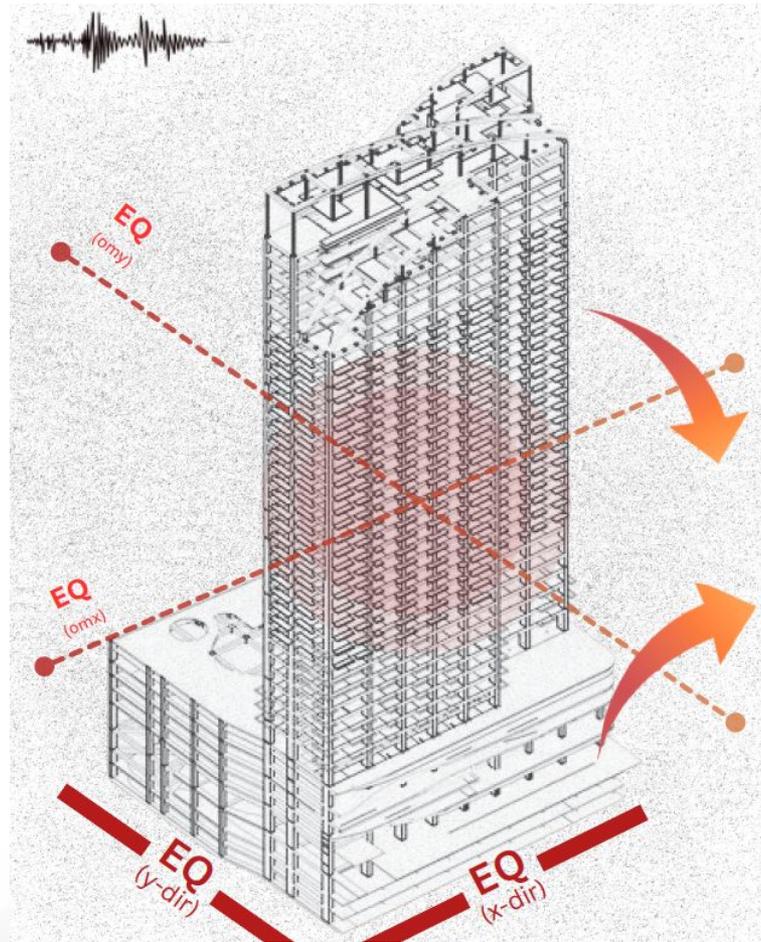
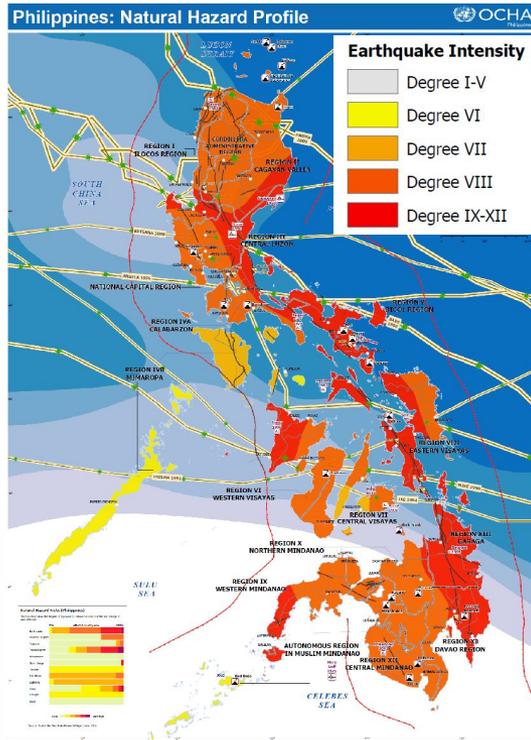
The Wave Towers

Infographics for Building Stability Design



STRUCTURAL DESIGN FLOW

The first step in the Seismic Analysis is to verify the nearest seismic source based on the Seismic Map of the Philippines and to verify the soil profile of the specific project site.



The Nearest Seismic source is the Cebu Fault System which approximately 4.20km from the site, which is considered Safe for ground rupture and ground shaking can still be felt during earthquakes, but can be mitigated by following the National Building Code of the Philippines.

The Structural System was simulated using the design response spectra and the corresponding seismic demand forces were extracted and used in the detailed design of the structural members

BUILDING CONFIGURATION



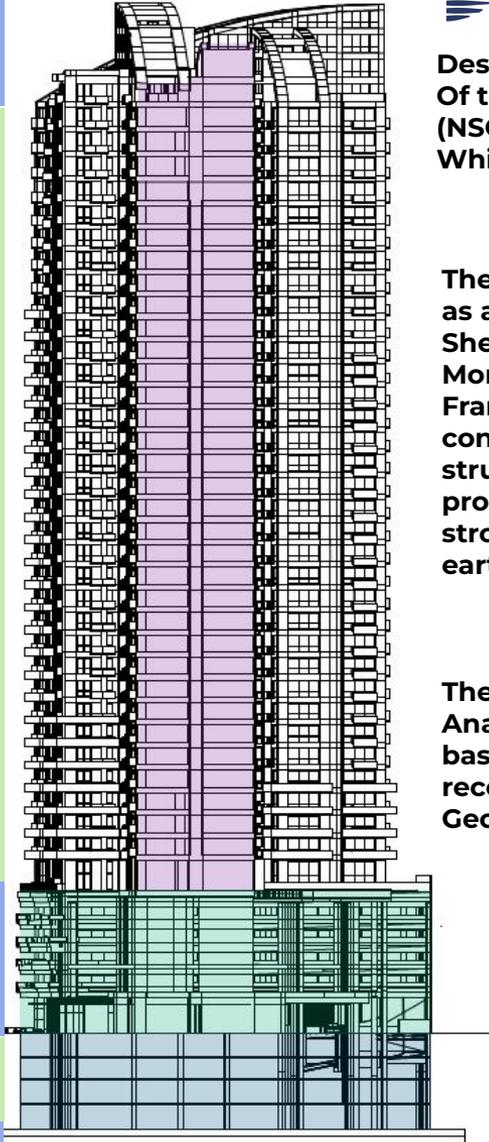
Building crown
and Penthouses

35 storey
Residential
Floors

5 Level Podium
Parking Floors and
Ground lobby &
retail

3 Level Basement
Parking

Mat foundation



Designed in conformance with the provision
Of the National Structural Code of the Philippines
(NSCP 2015) and the International Building Code (IBC),
Which is used in California and USA.

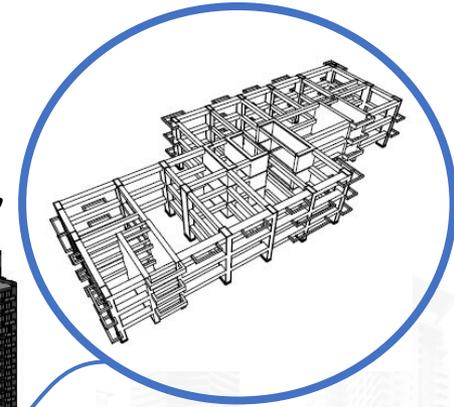
The Building is modeled
as a 3D Dual System:
Shear wall + Special
Moment Resisting
Frames (SMRF)
considering all the
structural element
properties subjected to
strong ground
earthquake motion.

The Foundation
Analysis and Design is
based on the
recommendation of the
Geotechnical Engineer.

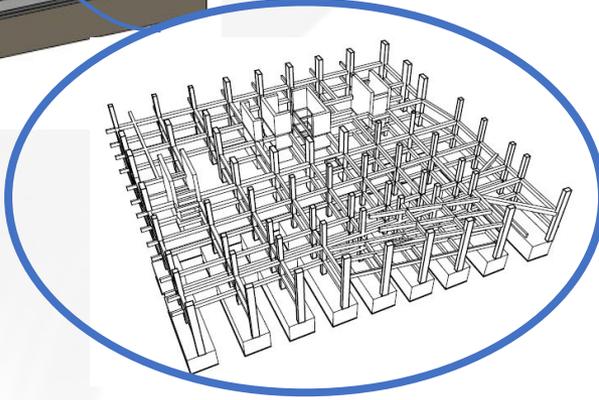
The tower is supported by the
3.50m thick Mat Foundation while
The podium levels are supported
By 1 to 1.10 meter isolated and
Combined footing with rigid
Tie beams.

Tower 2 (future expansion)

Tower (Nagome)



Tower framing system
(structural members:
beams, column and shear
wall)



Podium Framing and Foundation System