PLANNING EARTHQUAKE RESISTANT BUILDINGS

F = m x a

stronger force

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Earthquake Force

During normal time:

- Gravity force only •
- Force applies downward • only

During earthquake:

- Not Gravity force only •
- Forces apply in random direction
- Most Buildings can resist vertical forces •
- Most Buildings can not resist horizontal forces

Do not build long buildings



Force = Mass x Earthquake Acceleration

Heavier building generates



Height matters:

- Ground shakes at the base of the building
- Higher building generates stronger force





Do not build narrow building





Do not build with soft stories