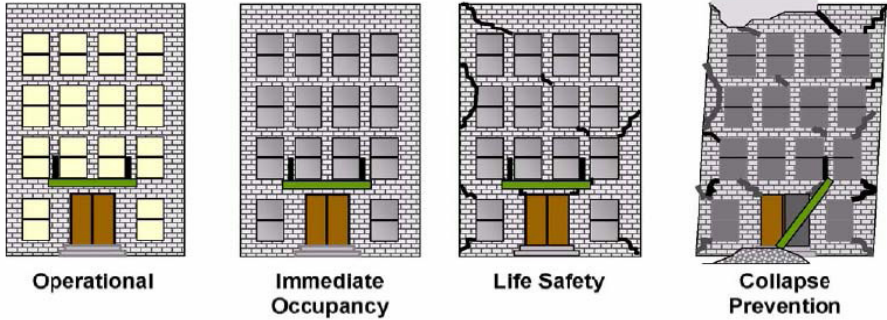


TYPES OF EARTHQUAKE RESISTANT BUILDINGS

Earthquake resistant buildings are of 4 types. For safety reasons, the occupants need to react differently in case of an earthquake, depending upon the building classification. The definitions of each category as per Government documents are as below:



Category-A: Fully Operational:

The building, its contents and utilities are shaken by an earthquake, but no damage occurs in either of the above; the function of the building is not disrupted due to the occurrence of the earthquake.

Category-B: Immediate Occupancy:

The building, its contents and utilities are shaken predominantly in their linear range of behavior and only minor damage may occur in them; the use of prevailing functions of the building and facilities is not restricted after the earthquake so that its functioning can be resumed immediately after the earthquake.

Category-C: Life Safety:

The building, its contents and utilities are shaken severely in their non linear range of behavior. Significant damage occurs in them, but the building remains within its reserve capacity and does not reach the state of imminent collapse. The use of the facility is restricted after the earthquake until detailed structural safety assessment is performed to ascertain the suitability of the building for retrofitting. If found suitable for retrofitting, the building maybe retrofitted.

Category-D: Collapse Prevention:

The building, its contents and utilities are shaken severely in their non linear range of behavior. Major damage occurs in them. The building does not have any additional reserve capacity and is in the state of imminent collapse. The building cannot be used after the earthquake.