

BASE ISOLATION

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Base isolation is one of the most popular means of protecting a structure against earthquake forces. It is one of the most powerful tools of earthquake engineering pertaining to the passive structural vibration control technologies. This advanced technology is known as Base Isolation. A base isolated structure is supported by a series of bearing pads, which are placed between the buildings and building foundation. The concept of base isolation is explained through an example of building resisting on frictionless rollers. When

the ground shakes, the rollers roll but the building above does not move. This helps in many ways and there are a lot of advantages due to this. The isolation system must remain operational for the world expected lifetime of the structure under all possible environmental effects. These may corrode the metallic parts of the isolation system and this may be reduced by using a protective rubber cover. We can use base isolation technique to construct the earthquake resistant building. Proper materials and design should be

selected to get the best result. The safety of the people will be considered as the main aim.