

Chapter 8

Q1. What do you mean by base isolation?

Q2. Write short note on elastomeric and sliding base isolation systems.

Q3. What are the applications of base isolation? (Explain with the help of examples.)

Q4. Determine the horizontal and vertical stiffness of square (500mm×500mm) and circular (diameter = 500mm) bearings having height between top and bottom steel plate as 140mm. The eight 4mm thick steel plates are provided in the each bearing. Take the shear modulus of the rubber as 1.2 N/mm^2 .