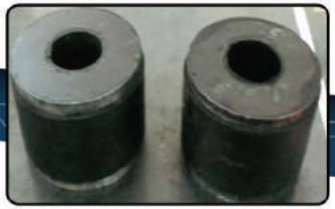
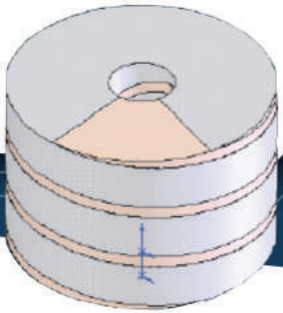
SEER ISOLATOR

(Circular Hollow Elastomeric Rubber Base Isolator)





INTRODUCTION

The Circular Hollow Elastomeric Rubber Base Isolator (SEER-ISOLATOR) is a type of base isolator consists of rubber and steel layers working together as a composite material to withstand vertical loads from the self weight of a building above it, and horizontal loads from earthquake. Due to its unique circular hollow in shape, the product produces a very high vertical stiffness but still flexible in horizontal translational direction.

SEER iPlat invention which won the gold medal and first place in Invitational Invention Category at Hari Inovasi Nuklear Malaysia 2012.

Characteristics

- The base isolator can take larger vertical loads compared to the commercially available base isolator with no hole, because the product can now be used for taller buildings up to 10 storey, which is not possible before.
- The product still maintain its required horizontal stiffness, flexibility and stability to act as an isolator to the structure from the ground movement due to earthquakes.
- The amount of rubber and steel materials used has been reduced significantly thus reduce the cost of production.

Advantages

- The isolator is simple in design.
- Inexpensive to manufacture.
- Easy to install and effective in isolating the superstructure from the earthquake ground motions compared to other types of isolators.

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