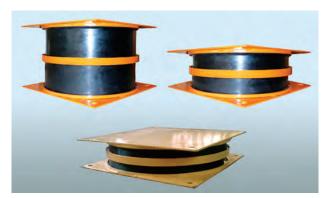
COST-EFFECTIVE PROTECTION OF CIVIL ENGINEERING AND INDUSTRIAL FACILITIES FROM VIBRATION AND SEISMIC LOADS



Configurations of rubber seismoblocks

Areas of Application

The system is designed for ensuring vibration and seismic stability of buildings and structures using special construction elements — rubber and rubber-and-metal blocks

Specification

The protection system is based on the use of rubber vibroseis blocks and has a compression strength of 300-1000 kN at a horizontal shake fundamental frequency of 0.5-1.6 Hz. The seismic protection is governed by European and national standards EN 1998 1:2004 Eurocode 8 and SBN B.1.1 12:2014 Construction Works in Seismic Regions of Ukraine

Advantages

The protection system enables to provide safety of buildings and structures during manmade shocks and earthquakes; to reduce the cost of construction works; to reduce consumption of materials for construction of buildings and structures; to raise safety and reliability of buildings and structures; and to widen choice of construction sites



27-floor house at Obolonskiy Avenue in Kyiv with shock isolation system (situated in 100 m from shallow subway line)

Stage of Development. Suggestions for Commercialization

IRL8, TRL9 Manufacture, supply and author's supervision, upon request

IPR Protection

IPR3

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