



Bucharest City Hall

Bucharest - Romania



WORK/ ACTIVITY
Structural Components of Buildings
Seismic Devices



DESCRIPTION

Bucharest City Hall is a 6 floor masonry building having a plan area of 3800 square meters. It was built in 1912 and enlarged in 1950. For its retrofitting, Alga and Freyrom, the subsidiary of Freyssinet in Romania, supplied 262 rubber isolators dia.1000 and 1050 mm and 36 viscous dampers of 1750 kN. The design movement of all the devices is equal to +/-700 mm, with seismic velocity of 1,5 m/sec. Both the rubber isolators and the viscous dampers have been successfully tested at the maximum design velocity at the University of California Laboratory located in San Diego (USA). The devices have been designed according to the European Standard EN15129. Freyrom's scope also includes loading and load transfer using flat jacks. Base isolation is often the best solution for the seismic protection of historic buildings in highly seismic areas, such as Romania.

RANGE

DEVICE	DIAMETER (mm)	TOTAL DISPL. (mm)	QUANTITY
HDS	1000	1400	190
HDS	1050	1400	63
DEVICE	FORCE (kN)	TOTAL DISPL. (mm)	QUANTITY
FD	1750	1400	36

PROJECT

Agency : Freyrom
Customer : Rotaru Constructii
Total Amount : 3.500.000 Euro
Year : 2012 – 2013

