CLAIMS

1. A device for seismic isolation of a structure, the device comprising at least one support leg (2) constrained to the same structure, wherein the support leg comprises at least a deformable support element or pad resting on a sliding surface (3), and wherein a contact area of the deformable support element or pad, defined by the area of the deformable support element or pad in contact with said sliding surface (3), has an extension that varies dependent on a load of the structure resting on the support leg, so that an increase of the load results in an increase of the extension of said contact area and a decrease of the load results in a decrease of the extension of said contact area.

2. Seismic isolation device according to claim 1, characterized in that said sliding surface (3) is rigid.

3. Seismic isolation device according to claim 1, characterized in that the deformable support element or pad is made of plastic or polymeric material.

4. Seismic isolation device according to claim 3, characterized in that the contact area of said deformable support element or pad is not flat.

5. Seismic isolation device according to claim 4, characterized in that the contact area of said deformable support element or pad (40) is convex.

6. Seismic isolation device according to claim 5, characterized in that the contact area of said deformable support element or pad (40) has a plurality of convex areas.

7. Seismic isolation device according to claim 4, characterized in that the contact area of said deformable support element or pad (41) is concave.

8. Seismic isolation device according to claim 7, characterized in that the contact area of said deformable support element or pad (41) has a plurality of concave areas.

9. Seismic isolation device according to claim 1, characterized in that said deformable support element or pad is realized by means of a first pad (5) that is supported by a first supporting element (6), which is guided so as to slide vertically inside a second cylindrical supporting element (7) that in turn is integral to the support leg (2), is provided with a second pad (8) which has generally annular shape; the first supporting element (6) being axially constrained to said second cylindrical supporting element (7) by elastic means (9), together with the relative first pad (5).

10. Seismic isolation device according to claim 4, characterized in that said deformable support element or pad is realized by means of a first elastic pad (10), which is housed inside a rigid support element (11) in coaxial relation thereto, the first elastic pad having a spring function and the rigid support element being fastened to the support leg and equipped with a relative further annular pad (12).

11. Seismic isolation device according to claim 4, characterized in that said support element or pad is made by a first elastic pad (10) which has a collar (14) providing for lateral containment of the material in a region of the sliding area.

12. Seismic isolation device according to claim 4, characterized in that the contact area of said deformable support element or pad consists of a layer (15) of plastic or polymeric material that is integrally joined to the convex part of a layer or sheet (16) by which it is supported and sustained; said layer or sheet (16) being constrained to the support leg (2) in correspondence of its convex part, and being made of a resistant and elastically deformable material.

13. Seismic isolation device according to any of claims 3 to 12, characterized in that said support element or pad made of plastic or polymeric material is made of polymeric plastic materials that have low value of the friction coefficient, high wear resistance, high load capacity even at high temperatures, such as by way of example UHMWPE, or ultra-high-molecular-weight polyethylene, or simple or filled PTFE, or PA6 or PVDF.

14. Seismic isolation device according to claim 1, wherein the sliding surface (3) is flat.

15. A warehouse comprising a structure and a device for seismic isolation of the structure according to claim 1.