

ELASTOMERIC SEISMIC RESTRAINTS

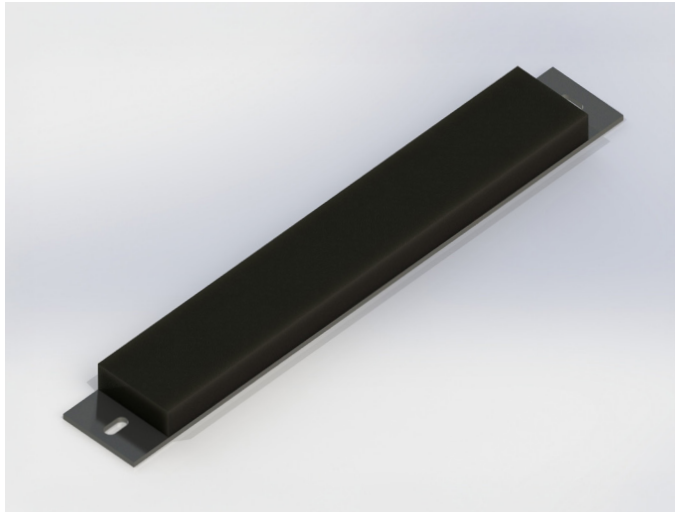
RONAMSISM

The RONAMSISM elastomeric seismic isolators are manufactured in accordance with EU regulations.

Used in conjunction with concrete shear keys and positioned at the top of piers or abutments, they are designed to counteract superstructure displacements in the event of bearing disconnection during an earthquake. The reinforced rubber pad dissipates part of the seismic energy and mitigates the impulsive effect due to its deformability.

The device consists of a support plate in **S235JR steel**, slots for anchoring with anchor bolts or expansion plugs, and an elastomeric pad made of **rubber (UNI EN 1337-3)**, vulcanized to the plate and internally reinforced with steel shims. It features a hinge-type configuration with a double pendulum system that allows freedom of movement, adapting to bending or settlements.

Fixed mechanical seismic devices are used to connect movable elements to fixed structures, ideal for bridges and viaducts. These systems relieve the bearings from the task of absorbing horizontal loads caused by seismic events.



MODEL	LENGTH L (MM)	WIDTH H (MM)	THICKNESS S (MM)	CUSHION LENGTH LG (MM)	LOAD CAPACITY (KN)
RS30	400	120	25	300	300
RS50	450	120	25	350	500
RS75	500	150	25	400	750
RS100	600	150	25	500	1000
RS150	700	200	25	600	1500
RS200	800	200	25	700	2000

MATERIAL PROPERTIES

HOT-ROLLED STEEL S235JR UNI EN 10025 (FE360)	REQUIREMENTS
Mass Density	7850 Kg/m ³
Unit Breaking Load	360 N/mm ²
% Elongation at Break	19,8%

NATURAL RUBBER (UNI EN 1337-3)	REQUIREMENTS
Nominal Hardness	60 +/- 5 Shore A3
Resistance at Break	≥16,00 MPa
Mass Density	1200 Kg/m ³
G Modulus	0,9 MPa
% Elongation at Break	≥425%