

# STRUCTURAL JOINT

## DESCRIPTION

The Isoplam Structural Joint is a 3 m long and 5 cm high seismic expansion joint for concrete, ceramic, natural stone, tile floors...

It is an element designed to effectively absorb relative movements between portions of the building, ensuring functional and performance continuity even in the presence of seismic events or thermal expansion. The joint ensures a perfect elastic seal and an excellent ability to compensate for movements in the three axes: longitudinal, transverse and vertical.

It is made of high-strength aluminum metal profiles and is equipped with an easily replaceable black EPDM elastomer central elastic gasket, which allows the absorption of cyclic movements generated by thermal variations, dynamic loads or seismic stresses, without compromising the walkable surface.

The side wings of the profile are pre-drilled and ensure perfect mechanical anchoring to the structure.

The Structural Joint resists to:

- extreme temperatures, between 120 and -35°C;
- abrasion;
- atmospheric agents;
- pollutants such as acids, oils and bitumens.

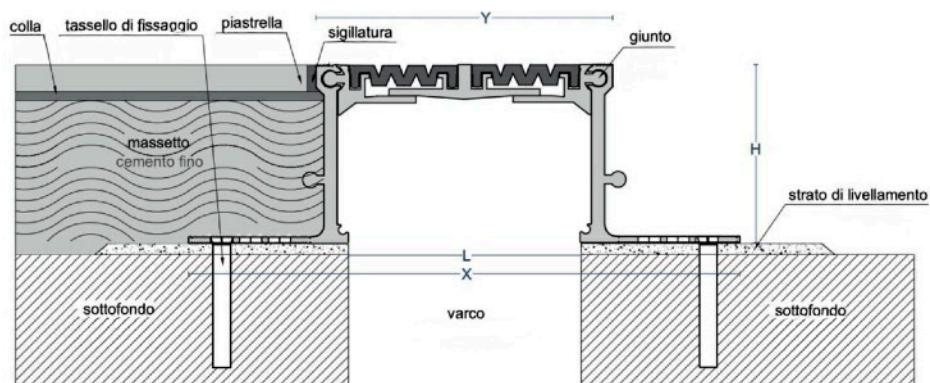
## LOAD CAPACITY (PAYLOAD) AND USES

The system is walkable and drivable by pedestrians, light trolleys, passenger cars with wheel loads up to 6.9 kN, vans with a total weight of up to 30 kN with a maximum load on the pneumatic wheel of 9.8 kN.

The Isoplam Structure Joint is an ideal load-bearing profile for applications in:

- shopping centers, department stores, outlets;
- hospitals and schools;
- airports, train stations, stadiums;
- industrial and public buildings;
- garages, parking lots, areas subject to vehicular traffic in general.

## INSTALLATION



| L      | H     | Y      | X      | Movement  |
|--------|-------|--------|--------|-----------|
| 105 mm | 50 mm | 130 mm | 236 mm | +/- 10 mm |

The Structural Joint must be installed flush with the floor.

Fixing is performed using dowels: 7 dowels per linear meter (i.e. 1 dowel every 30 cm) which must be applied alternately on the perforated wings of the joint profile.

### IMPORTANT

All information in this sheet is based on best practical and laboratory experience. E' responsibility of the designer in charge of structural design to design and verify the joints and flooring in proximity to them.

Isoplam Srl is not responsible for any use of the values indicated in this data sheet.