

# **VOL-TEC**





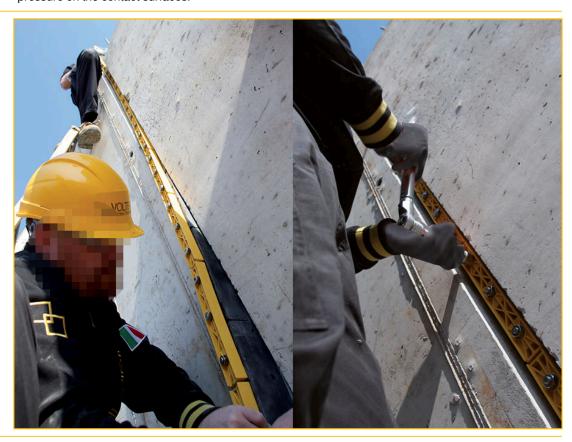
#### PRODUCT DESCRIPTION

VOL-TEC is an expansion profile used to hermetically seal wide dilatation joints, achieving water-tightness and seismic isolation.

It is composed of high damping SBR/Natural rubber with modular elements and compression plates made of PA6 resin.

The profile can be fitted with a pair of strings  $\emptyset$  10 mm made of hydro-expansive rubber for greater pressure on the contact surfaces.







### PRODUCT APPLICATION

- To hermetically seal wide dilatation joints, where perfect water-tightness is required
- Suitable for structural works made of reinforced concrete, in areas prone to earthquakes and in the presence of water tables

#### **ADVANTAGES**

- The pressure of the rubber structure can be adjusted manually, with torque adjustment possible after application
- Easy testing and inspection of the state of efficiency of the profile
- Quick and safe installation, thanks to the complete kit of required elements and preparation of the area
- The whole guarantees constant pressure between the two parts of the structure, also in case of movement
- Allows the two parts connected to the joint to move independently, and the whole guarantees constant pressure between the two parts of the structure, even with movement
- the VOL-TEC profile is easy to repair and replace

## PREPARATION AND APPLICATION System's component

Special rubber core (th.50 mm; h 150 mm; l 290 mm ± 5 mm) with high mechanical resistance, stable in contact with water.

Hydro-expansive rubber seals to be applied on one or both sides to increase the pressure on the contact surfaces.

The fibreglass pressure enclosure presses the rubber and the seal against the walls.

Use of a «template» guide during the casting phase to be replaced following the reinforced concrete casting with the VOL-TEC profile.

## How it works

VOL-TEC consists of a rubber body with high mechanical strength, included between two resin profiles that create a constraining cage; the pressure acts between the upper and lower profiles by means of



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through-bolts, causing the compression of the body.

The rubber body must be fitted on both sides with a Ø 10 mm string made of hydrophilic rubber in order to increase automatically the pressure both on the rubber component and the concrete surface, thereby achieving an enhanced performance, even in case of high hydraulic pressure.

#### **Assembly**

The profile is assembled by simply overlapping the rabbet joint of each component.

The yellow pressure components are applied to the upper and lower sides of the rubber piece, joined with the bolts that are inserted in the holes that go right through the thickness of the rubber.

The pressure components are mounted with staggered joints. For further information, see the instructions printed on the box.

PLEASE NOTE: Any special pieces can be provided on request by the Volteco Technical Office.

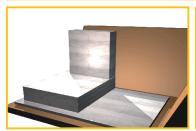
Complete the casting of the first part of the bed.

Place the relative template on the joint, being sure to tape the joints between the template elements.

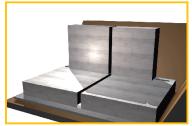
Proceed with the casting of the second part of the bed.

Remove the template after 24 hours to obtain the perfect seat for the VOL-TEC expansion joint to be inserted.

Insert the VOL-TEC expansion profile into the seat that has just been created, while adjusting the pressure of the rubber component by tightening the bolts of the upper profile with a standard screwdriver, as shown on the previous page.









#### References available at www.volteco.com

**PACKAGING AND STORAGE** 

A box containing three straight components each measuring 290 mm  $\pm$  5 mm in length.

A box with 1 corner component.

The products must be stored in a dry place protected from sun and humidity.

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In case of translation text may contain technical and linguistic inaccuracies.

**LEGAL NOTES** 

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This does not take into consideration the details of each single operational context, for which Volteco S.p.A. will not be held liable.

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It may vary and the installer is therefore required to update his/her information prior to each application by referring to www.volteco.com.

The above clarifications extend to the pre-post-sales technical/commercial information of the commercial network.

**ANNEXES** 



# **VOL-TEC**





