

Field : **ACOUSTIC INSULATION**



No shocks with a chic ticket, but a few vibrations

In the 1980s, the RATP (the Paris transport authority), found itself experiencing a problem with acoustic vibrations caused by fan units located in its train tunnels. The existing suspension system, which used elastomeric mounts, was showing various problems with creep and ageing over time, and the components did not comply with the new fire safety standard.

THE MISSION

What was involved was offering a suspension solution which would eliminate the noise pollution experienced by people living near the Paris Métro. The redefined product had to guarantee an operational lifespan greater than 20 years and comply with the technical specifications and standards required for this worksite.

PARTNERSHIP

SOCITEC therefore visited the site and analysed the data relating to the problem with its client. Each fan unit required a specific study with suspension that would be appropriate for the size and weight of each unit (from 1,200 to 3,000 kg).

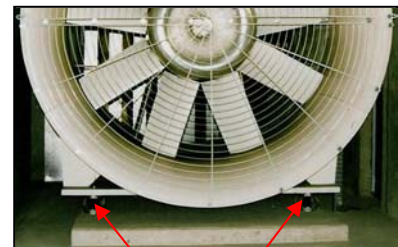
After conclusive on-site tests in 1986, eight HELICAL isolators were supplied for the Renaudes Métro station's fan unit. Two months later, a contract was signed by the two companies for the replacement of the rubber mounts throughout the network. Twenty or so different layouts were defined depending on the weights to be suspended, and each time the solution was conclusive. **Twelve years after having been fitted and placed in operation, no maintenance has been requested by the client for SOCITEC's wire rope isolators.**



RENEWED CONFIDENCE

Since then, the RATP assigned the maintenance of its fan units to external companies. Following the call for tenders made on the market, SOCITEC products were selected and form an integral part of the worksite for the new SNCF/RATP Éole line. A new range of isolators developed and patented by SOCITEC, called POLYCAL, fulfils the Paris transport network's new requirements: **a quality/price ratio that is unbeatable.**

POLYCAL isolators are regularly installed under fan units as work at the site progresses.



Suspension for a fan unit using 4 SPRING-POLYCAL isolators

Some references

HOWDEN SIROCCO France
Suspension of fan units for road and railway station tunnels

KIS France
Suspension of fan units for self-service digital kiosks

YVROUD AEC France
Suspension of fan units for technical facilities and carparks

REETECH Germany
Suspension of lighting for wind turbines

CRAZY HORSE France
Suspension of loudspeaker baffles for a concert hall

FRANCE TELECOM France
Suspension of electronic cabinets for telecommunication switches