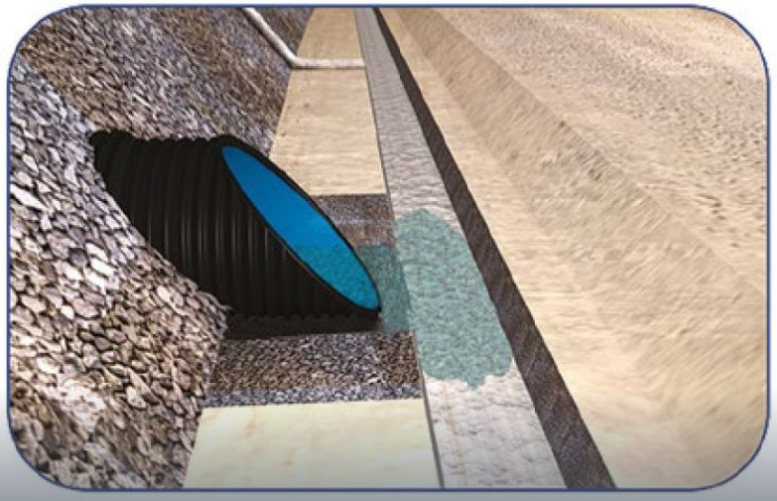
PALADERI
INNOVAZIONE COSTANTE





TECHNICAL DATA SHEET · PALACONCEPT

PALAROAD culverts and crossings

Self-supporting steel and polyethylene pipes for tunnels and ducts beneath motorways, railways and embankments, and for carrying water mains, sewers and other underground utilities.

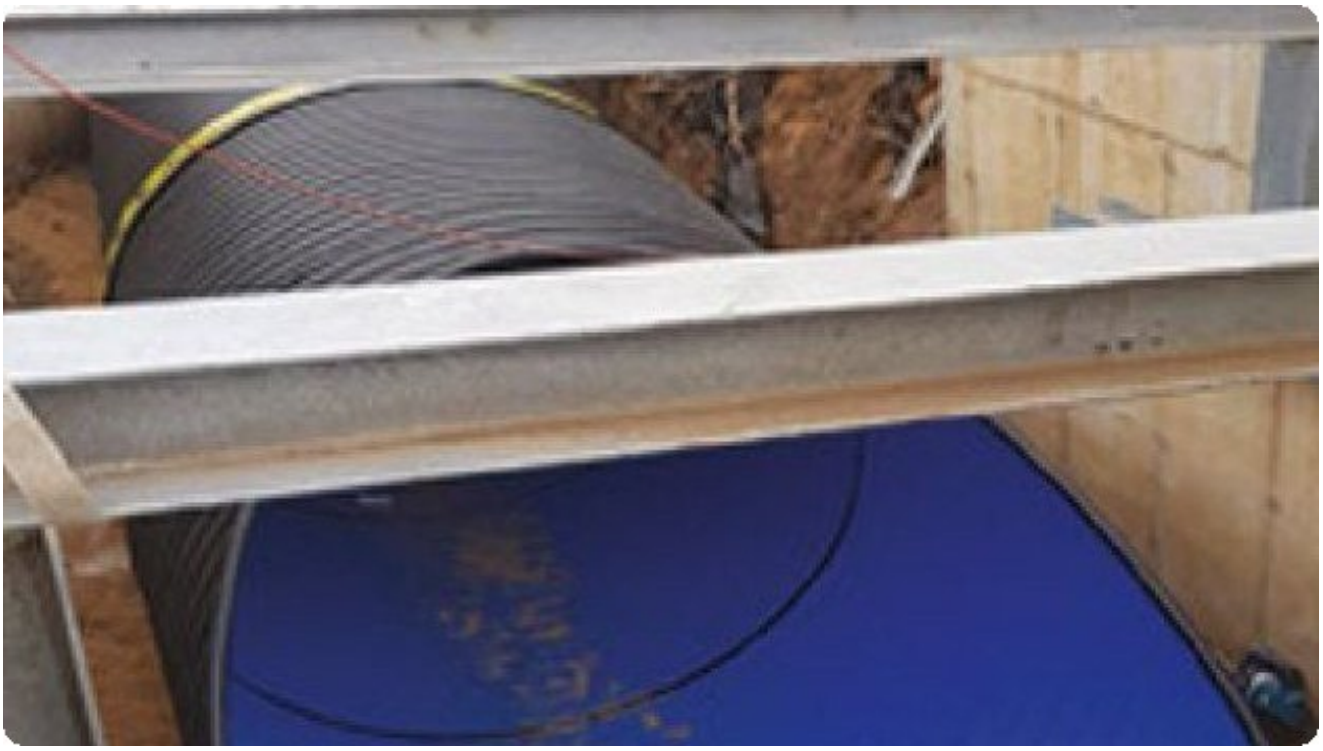
INTERNAL DIAMETER
up to 3000 mm

APPLICATION
Underpasses beneath motorways, railways and embankments

Technical data

Material	**Spiral-wound galvanised steel and polyethylene pipes to UNI 11434**
Internal diameter	**up to 3000 mm**
Application	**Underpasses beneath motorways, railways and embankments**
Inspection access	**Maintenance without disturbing the road surface**

Specifications



Self-supporting pipes, quick and easy to install, meeting the logistical and structural requirements of road and railway projects. The range of **diameters up to 3000 mm** makes the most of the height of the embankments in which they are laid.

The wall, smooth inside and ribbed outside, is reinforced by a continuous omega-profiled strip of DX51D+Z galvanised steel, chemically bonded to the polyethylene. The dimensions allow inspection as well as routine and extraordinary maintenance without works on the road.

Frequently asked questions

Up to what diameter are PALAROAD culverts available?

PALAROAD culverts and crossings reach 3000 mm internal diameter, using spiral-wound pipes in DX51D+Z galvanised steel and polyethylene compliant with UNI 11434. Their dimensions allow inspection and routine and extraordinary maintenance without disturbing the road surface.

Does a PALAROAD crossing need concrete side fill?

No. The Paladeri catalogue states that the PALAROAD pipe is laid beneath road embankments even without concrete side fill: it acts as a flexible pipe and the reaction of the compacted soil counteracts its ovalisation. The technical manual specifies side fill placed in layers of about 30 cm, compacted to 90% of Proctor density.

What is the minimum cover depth for a PALAROAD culvert under heavy loads?

For a PALAROAD culvert made with PALADEX pipe in class SN 8, the table in the PALASTORM data sheet gives a minimum cover depth of 0.6 m in areas with high dynamic loads, EN 124 class E600, and 1.5 m in areas with very high loads, class F900. Permissible cover depths go up to 8 m.

Are there any completed PALAROAD crossings?

Yes. On the SP 80 Montanina at Velo d'Astico (VI), the collapsed embankment was restored with about 30 m of PALADEX DN 1200 pipes in class SN 8. Beneath the Superstrada Pedemontana Veneta, two DN 2000 pipelines in class SN 16, each about 100 m long, cross the route to divert the Seriola and Brugnola irrigation channels (rogge).

Indicative data, subject to change without notice. The Paladeri technical department is available for sizing and selecting the right solution.

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PALAROAD culverts and crossings on paladeri.eu

paladeri.eu/en/products/palaroad-culverts-crossings

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