

Tegra 1000



Meeting your needs

Tegra 1000 forms part of a comprehensive range of plastic pipe systems to provide intelligent solutions for all building, construction and utilities projects.

These include:

Above Ground Projects

- Wavin Soil & Waste Systems
- Wavin Rainwater Systems
- Wavin Electrical Conduit Systems

Plumbing & Heating Projects

- Wavin Hot & Cold Water Systems
- Wavin Underfloor Heating Systems

Below Ground Projects

- Wavin Sewer Systems
- Wavin Inspection Chambers & Manholes
- Wavin Road Gullies
- Wavin Stormwater Infiltration Systems
- Wavin Cable Duct Systems
- Wavin Land Drainage

Pressure Pipe Projects

- Wavin PE Pressure Systems
- Wavin PVC Pressure Systems
- Wavin Pipe Relining Systems

All information contained in this literature is given in good faith. The user should, however, check that the product is suitable for purpose, in the application for which it shall be used. Please ensure compliance with all health and safety requirements. Whilst continuing its programme of continuous development, Wavin Overseas B.V. reserves the right to modify or extend any published information without any prior notification. No responsibility can be accepted for any error, omissions or incorrect assumptions.

Tegra 1000



THE TOTALLY PLASTIC MANHOLE

Features and Benefits

- ▲ **Completely plastic in HDPE**
Corrosion resistant, durable.
- ▲ **90% Lighter than concrete manholes**
Therefore easy to handle and install.
- ▲ **Resistant to heavy traffic load**
Up to 40 tons truckload.
- ▲ **Simple and reliable in-situ connection possible**
Additional pipe connections can be made in the shaft.
- ▲ **Lower installation costs**
Due to easy cutting of the shaft to the correct height, easy connection of extra pipes on site and adjusting to the correct level.
- ▲ **Completely tight**
Due to the rubber ring sealing.
- ▲ **Adjustable height**
The shaft can easily be cut every 12.5 cm to adapt the manhole to the required installation depth.
- ▲ **Variety of installation depths**
By joining shafts, installation depths can range from 1 to 8 meters, with a maximum groundwater level of 5 m.
- ▲ **Smooth internal surface**
Less slime build-up, minimising the risk of blockages.
Easy to clean, low maintenance efforts required.
- ▲ **Stable and durable**
Due to the unique rib structure and shape.
- ▲ **Excellent chemical resistance**
Tegra 1000 is made from PE, which is resistant to a great number of chemical agents.



The Tegra 1000 Manhole is a real breakthrough in sewer technology, presenting the "missing link" to a total plastic sewer system; the full size 1000 mm manhole. The advanced design of the rib structure and shape of the cone gives the required strength and stability against heavy traffic load.

Range

The Tegra 1000 Manhole consists of three parts being the cone (top), the shaft and the base. The shaft is available in different heights, ranging from 125 mm to 1000 mm. The Tegra 1000 base is available in different flow profiles and suitable for pipe connections from 160 mm up to 400 mm. Shafts can be joined for increased heights. The Tegra 1000 has a spacious 600 mm or 640 mm entrance and a diameter of 1000 mm. The Manhole is supplied with an inside ladder and optional telescopic safety rod. There are cutting indications on the shaft every 12.5 cm, so that it can easily be cut to the required depth. Extra "in-situ" pipe connections can easily be made.

Fields of application

The Tegra 1000 provides easy access for inspection, cleaning and maintenance in sewer and drainage systems in non-traffic and traffic areas. The load bearing capacity on an installed manhole is 40 tons truckload.



Meeting all requirements

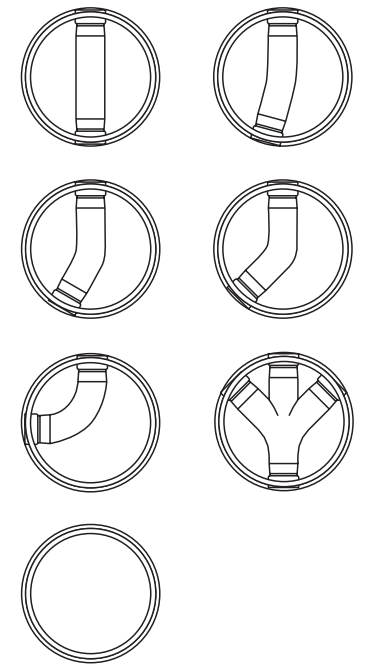
The Tegra 1000 Manhole is manufactured in accordance with the draft European standard and has passed full-scale field trials testing the real behaviour during extreme static and dynamic loads.



Flow profiles

The Tegra 1000 base is available in 7 different flow profiles.

- Straight 180° 160, 200, 250, 315, 400 mm
- Bend 15° 200, 315 mm
- Bend 30° 200, 315 mm
- Bend 45° 200, 315 mm
- Bend 90° 200 mm
- Left and Right hand junction 4 connections 160, 200, 315 mm
- Empty Base



Installation

1. Prepare a suitable bedding layer.
2. Place the Tegra 1000 manhole base into position and make all pipe connections.
3. Apply lubricant to the rubber ring and place around the base.
4. Apply lubricant to the shaft socket and bring it to the correct position by placing in line the ladder marks on the outside of the shafts.
5. Clean carefully before placing the rubber ring in position at the next shaft section.
6. Back fill and compact layer wise with granular material around the manhole.
7. Install the cone in the same way as the shafts.
8. Install the concrete slab, rubber seal and cover (in accordance with local requirements).
9. Finish off with a top layer of asphalt.

Note: Detailed installation instructions and all the necessary technical data are available.