



VYGEO-ANCHOR

Anchor for Tunnel Waterproofing & Reinforcement Fixing (M16)

DESCRIPTION

VYGEO-ANCHOR is a prefabricated embedded anchor designed for use in underground waterproofing systems such as tunnels and utility corridors.

After installation of PVC/HDPE waterproofing membranes, the anchor is installed by drilling through the membrane into shotcrete, injecting anchoring adhesive, and inserting the anchor body.

The integrated flange is thermally welded to the membrane to ensure watertight sealing, while the central M16 threaded connection allows installation of a steel rod for reinforcement fixing.

BENEFITS

- Combines waterproofing and structural anchoring functions
- Ensures reliable sealing through welded PVC/HDPE flange
- Provides secure anchorage point for reinforcement fixing (M16 system)
- Compatible with PVC and HDPE membrane systems
- Excellent resistance to underground moisture and chemical exposure
- Reduces risk of leakage at penetration points
- Durable and stable for long-term underground applications

APPLICATIONS

- Underground utility corridors (pipe galleries)
- Caverns and underground structures
- Waterproofing systems requiring post-installed anchoring points
- Reinforcement fixing points after membrane installation

INSTALLATION

- Install waterproofing membrane (PVC or HDPE) as per system requirements
- Drill through the membrane and into the shotcrete substrate
- Clean the hole and inject anchoring adhesive (chemical anchoring resin)
- Insert VYGEO-ANCHOR into the hole
- Weld the PVC/HDPE flange to the membrane using hot air welding equipment
- Screw M16 threaded rod into the anchor to form reinforcement fixing point
- Ensure all welds and anchorage points are properly inspected

STORAGE & SHELF LIFE

- Store in dry and clean conditions
- Protect from direct sunlight and excessive heat
- Avoid mechanical damage during handling
- Shelf life: 24 months



DIMENSIONS & PACKAGING

Parameter	Value
Materials	PVC / HDPE
Anchor length	200 mm
Internal hole thread	M16
Diameter of anchor base	Φ120 mm
Diameter of base membrane	Φ280 mm
Thickness of base membrane	2 mm

PRODUCT IMAGES

