

MICROTUNNELING



VERTICAL SHAFTS



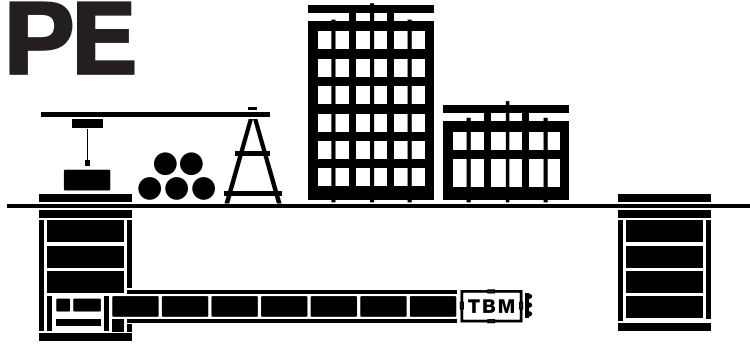
TUNNEL LINERS



ENGINEERED
SOLUTIONS

DECAST

MICROTUNNELING PIPE



Microtunneling is a non-manned, laser guided, remote controlled, continuous pipe jacking operation. Pipes are jacked (pushed) in order from the entry shaft to the exit shaft.

DIRECT PIPE

Stormwater and Sanitary Sewers, Sewer Outfalls, Combined Sewer Overflows (CSOs), Stormwater Management Systems, Sewage Systems

PRIMARY CASINGS

Installed within the microtunnel pipes (primary liner casing): Pressurized Water Transmission Lines, Oil/Fuel Lines, Electrical and Communication Utilities

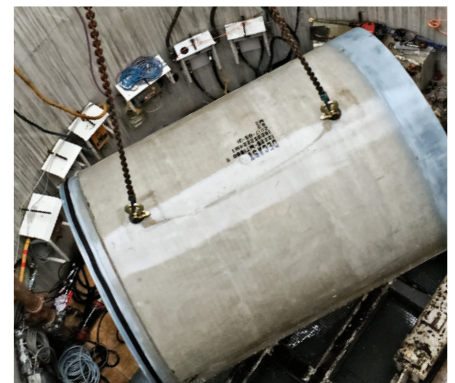
WATERMAINS

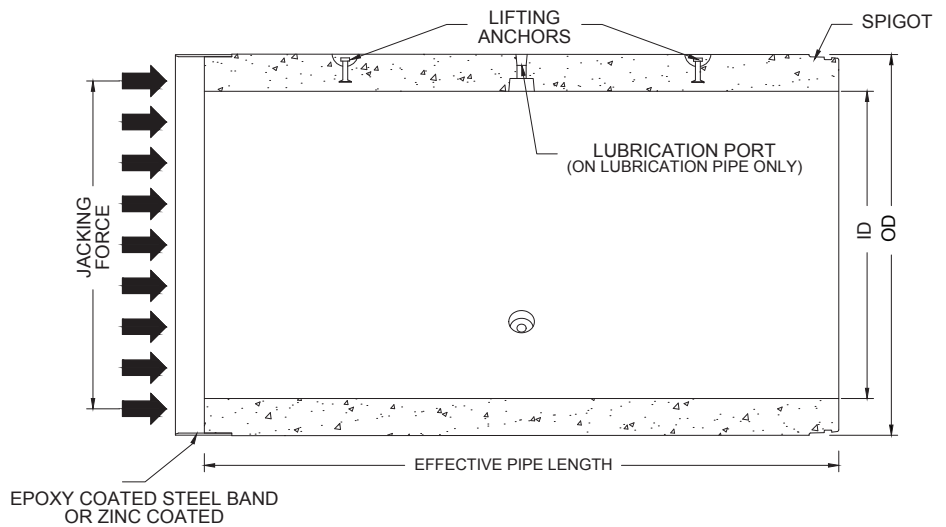
DECAST has enhanced the AWWA C300 pipe design which allows our customers to install single-pass watermains or other high pressure applications

INSTALLATION

- Dense urban locations with crowded underground services
- Areas of contaminated soils
- Most soil types
- High groundwater areas

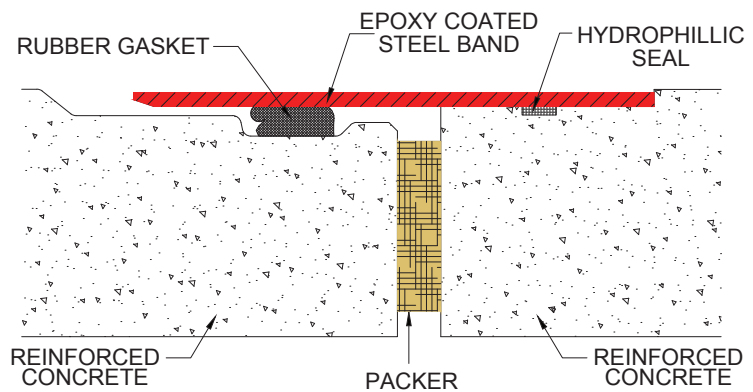
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DECAST PIPE SPECIFICATION	NOMINAL DIAMETER (mm)	INTERNAL DIAMETER (mm)	WALL THICKNESS (mm)	OUTSIDE DIAMETER (mm)	EFFECTIVE PIPE LENGTH (mm)	APPROX. PIPE WEIGHT (kg)
MT-600	600	600	84	768	2000	980
MT-900	900	914	121	1156	2425	2408
MT-1200	1200	1200	145	1490	3000	4675
MT-1350	1350	1350	170	1690	3000	6150
MT-1500	1500	1500	183	1866	3000	7300
MT-1650	1650	1650	200	2050	3000	9000
MT-1800	1800	1829	197.5	2224	3000	9500
MT-1980	1980	1980	210	2400	3000	11000
MT-2250	2250	2286	235	2756	3000	14100
MT-2500	2500	2500	240	2980	3000	16500
MT-2700	2700	2700	280	3260	3000	20000

- Pipes are subjected to both jacking forces and external earth loads, this is considered in the design of the pipes
- Special design to conform to AWWA C300 is available for different pipe sizes
- Designed to CSA A257.2 or ASTM C76
- Designed for specific project conditions



TYPICAL JOINT DIAGRAM

SEGMENTAL TUNNEL LINERS



Segmental tunnel liners are precast concrete structural elements that are combined to form a complete ring for tunnel passageways. They are a cost-effective solution for large-diameter bored tunnels. DECAST manufactures highly precise liners for our customer specific tunnel projects.

APPLICATIONS

- Utility Tunnels
- Stormwater & Sanitary Sewers
- Transit (subways, light rail)

DIMENSIONS

- Typical Ring Sizes:
4400mm to 5750mm
- Contact DECAST for other
available diameters

- Cost-effective installation
- Length and radius designed for
precise tunnel requirements
- Smooth bore, single pass tunnel lining
requires minimal finishing
- Factory controlled quality concrete
molds ensure a consistent accuracy of
segment dimensions
- Segments are provided with a fast
coarse thread plastic socket at the
centroid for lifting and grouting
- Cruciform joints are eliminated

FEATURES & BENEFITS

DECAST



*Consistent quality, proven strength,
durability and dimensional accuracy
of precast concrete*

SEGMENTAL SHAFTS



Segmental shaft linings provide a safe and efficient method for construction of permanent and temporary shafts for sewer, ventilation and tunneling launch and retrieval shafts.

APPLICATIONS

- Launch and exit shafts for pipe jacking
- Overflow storage and pump stations
- Ventilation shafts

DIMENSIONS

- Contact DECAST for available shaft diameters
- Standard designs for are suited to shaft depths of up to 30m

- Superior installation efficiencies (simple locks, immediate water seal)
- Cost-effective installation
- Safer work environment
- Shafts have a minimal impact on the environment
- Ground and noise vibrations are essentially eliminated as no hammering is required
- Optimized site storage requirements

FEATURES & BENEFITS

DECAST



Our in-house engineering team collaborates with consulting engineers to design context specific tunneling products, which are then manufactured indoors in our fully automated state-of-the-art facility



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