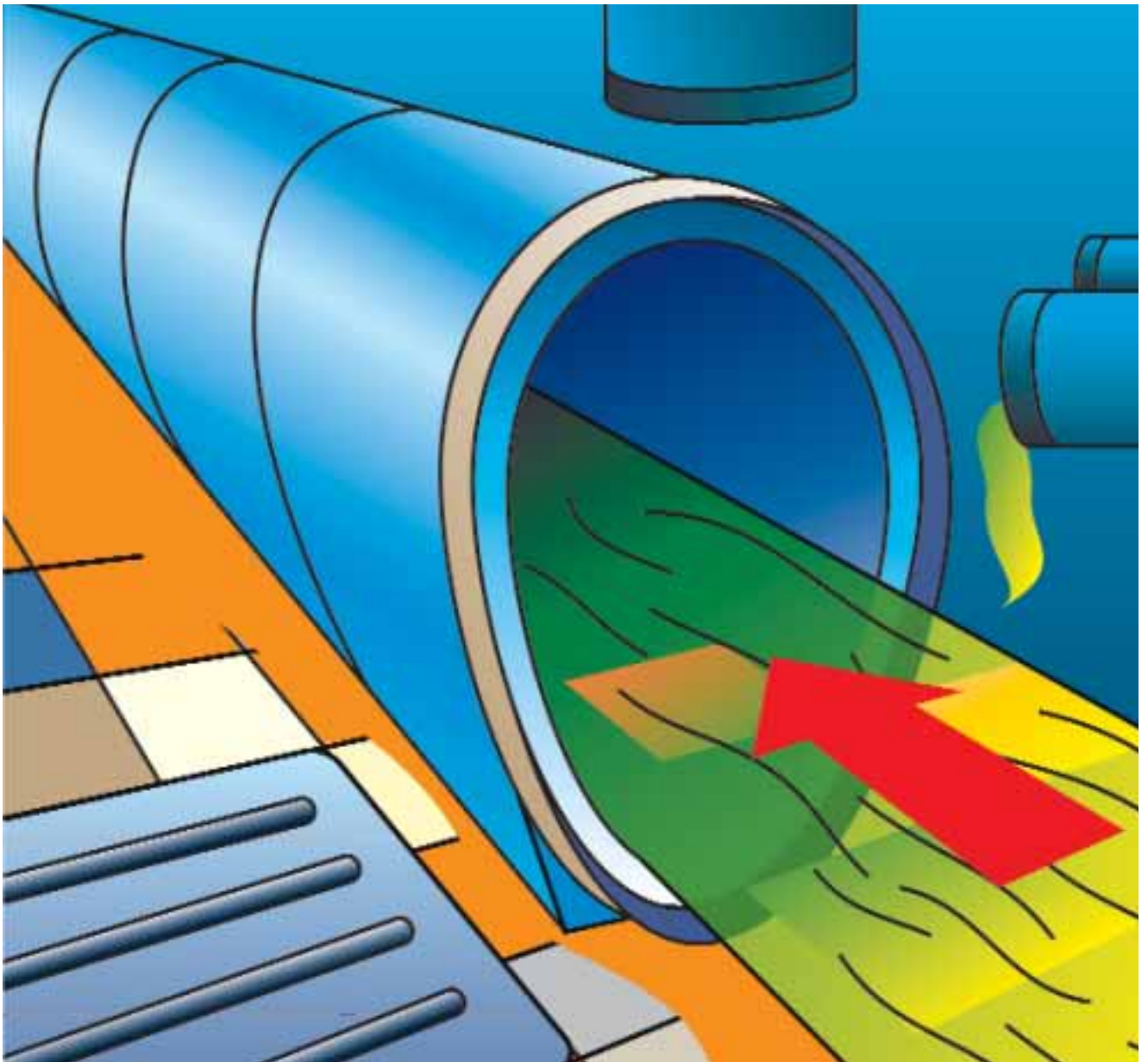


## PERFECT SHAPE AND PERFECT FUNCTION



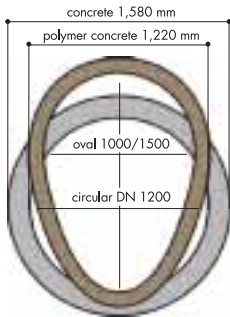
There are shapes you cannot improve. Simply because they fulfil the required function perfectly.

Meyer's oval POLYCRETE® pipes are ideally suited for building and repairing mixed water sewers. They are absolutely corrosion resistant, reliably watertight and can carry high loads. They are available in any standard size specified in DIN 4263 and in special sizes such as the 1910 Hamburg sewer profiles.

**meyer**®

# HIGHER FLOWS WITH EGG-SHAPES

## EGG-PROFILE - THE OPTIMUM PROFILE FOR SEWERS AND STORM DRAINS.



Hydraulic textbooks have for many years' demonstrated improved flows with egg and oval shapes compared to round shaped pipe. These shapes were used in many of the man

made sewers and storm drains constructed in the early part of the 20th Century.

The major advantages of egg-shapes over circular profiles are higher flow rates during low flow periods, improved self-cleaning effect, reduced trench width, higher load carrying capacity, and a higher vertical profile, which makes man access easier.

Egg-profile shapes are now increasing in importance because of the need to renovate existing old egg and oval shaped pipes, which are still in use in our major cities.

Replacing these large interceptor sewers and storm drains with larger diameter pipe is very expensive and disruptive. Renovating them with identical

Meyer POLYCRETE® egg or oval shaped liner pipe is very efficient and cost effective. Because of the lower "n" value of POLYCRETE® pipes it may be possible to maintain most or all of the flow of the existing pipe.



In the case where a larger capacity pipe is required and renovating the existing pipe is not possible, Meyer egg-shaped pipe with a high flow capacity can be installed in a narrower trench than that required for a larger pipe.

Where a trenchless installation is recommended or required, Meyer makes POLYCRETE® jacking pipe with egg or oval interior shapes.

## POLYMER CONCRETE - THE IDEAL SEWER MATERIAL

Meyer's egg and oval shaped POLYCRETE® pipe is made of a composite tubular material containing aggregates embedded in or surrounded by cured thermosetting resin, which may contain granular or platelet fillers, thixotropic agents, pigments or dyes. Polymer concrete pipe is corrosion resistant in continuous service between pH=1 and pH=10. It is a rigid pipe with a D-Load exceeding Class V reinforced concrete pipe. Compressive loads exceed 13,000psi compared to concrete at 5,000psi. Glass reinforced fiberglass or 316TI (Titanium) Steel couplings are used in combination

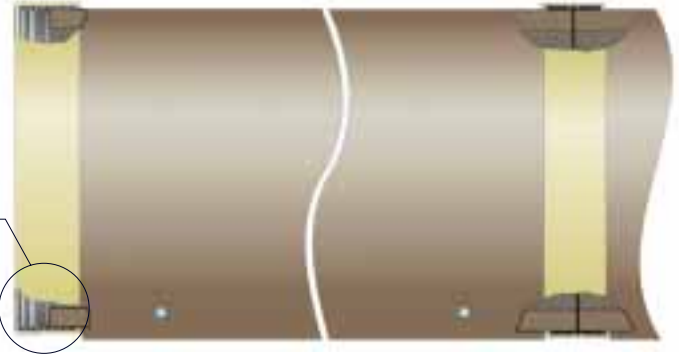
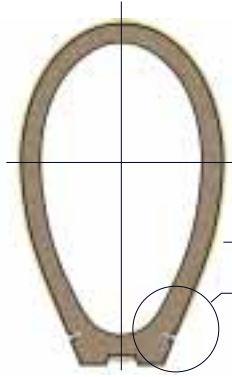
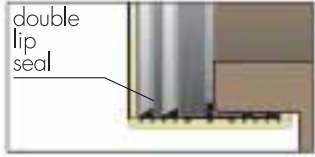
with a double gasket seal. Meyer POLYCRETE® pipe meets all the requirements of DIN 54815-1 and DIN 54815-2. In addition it is tested in conformance with ASTM standards for rigid pipe materials.

## OVAL POLYCRETE® PIPES 400/600 - 1400/2100

Y transport anchor

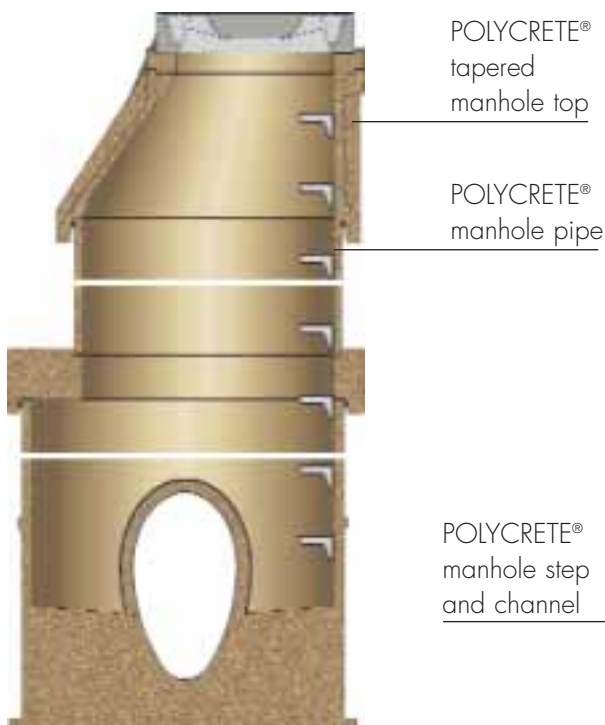


X GFRP coupling



internal diameter		external diameter		wall thickness		length		pipe weight	
mm	in.	mm	in.	mm	in.	m	ft.	kg/m	lbs/ft.
400 / 600	15.7 / 23.6	500 / 700	19.7 / 27.6	50	2.0	2.5	8.2	254	170
500 / 750	19.7 / 29.5	620 / 870	24.4 / 34.3	60	2.4	2.5	8.2	373	250
550 / 1000	21.6 / 39.3	680 / 1130	26.8 / 44.5	65	2.6	2.5	8.2	449	301
600 / 900	23.6 / 35.4	740 / 1040	29.1 / 40.9	70	2.8	2.5	8.2	517	347
700 / 1050	27.6 / 41.3	860 / 1210	33.9 / 47.6	80	3.1	2.5	8.2	682	458
700 / 1200	27.6 / 47.2	864 / 1364	34.0 / 53.7	82	3.2	2.5	8.2	693	465
800 / 1200	31.5 / 47.2	980 / 1380	38.6 / 54.3	90	3.5	2	6.6	872	585
850 / 1400	33.5 / 55.1	1040 / 1590	40.9 / 62.6	95	3.7	2	6.6	936	628
1000 / 1500	39.4 / 59.1	1220 / 1720	48.0 / 67.7	110	4.3	2	6.6	1331	893
1050 / 1550	41.3 / 61.0	1280 / 1780	50.4 / 70.1	115	4.5	2	6.6	1280	859
1200 / 1800	47.2 / 70.9	1460 / 2060	57.5 / 81.1	130	5.1	2	6.6	1849	1241
1400 / 2100	55.1 / 82.7	1700 / 2400	66.9 / 94.5	150	5.9	2	6.6	2504	1681

## POLYCRETE® SYSTEM MANHOLE FOR OVAL PIPES



## POLYCRETE® OVAL RELINING PIPES



# MEYER POLYMER CONCRETE PIPE FOR RENOVATION

## RENOVATION / RELINING – LESS EXPENSIVE THAN REPLACEMENT

Thousands of miles of very old interceptor sewers exist in our major cities. Hundreds of miles of these large sewers have been severely damaged or have just deteriorated over the last 60 to 80 years. Many of the oldest sewers were man made. The shapes varied from egg to oval to semi-elliptical to mouth shaped. They were made with bricks, unlined concrete or clay tiles. These interceptor sewers now need to be renovated/relined before they collapse. The advantage Meyer Pipe brings is that polymer concrete pipe can be made in the same shape as the existing interceptor. When polymer concrete pipe is used the renovated sewer is made structurally sound. This is a far better renovation than just installing a non-structural corrosion lining inside the interceptor sewer.

Meyer polymer concrete liner pipe uses flush-reinforced plastic sleeves, which are watertight. The sealing design includes both lip and compression elements so the joint is suitable for both non-pressure and pressure service.

The same benefits that make Meyer polymer concrete jacking pipe an ideal pipe for new installations apply to the liner pipe. These include:

- High compressive strength
- Parallel pipe ends = uniform distribution of pushing force
- High dimensional accuracy = tight joints and perfectly matching pipe
- Elasticity = reduced point loading and risk of rupture
- Smooth inner surface = high flow rate
- Corrosion resistant pH=1 to pH=10 in continuous service
- Complete system including manholes and other structures



**YOUR PROJECT CAN BENEFIT FROM THESE ADVANTAGES. JUST CONTACT US.**

# OUR COMPLETE SYSTEM

## POLYCRETE® MANHOLES - IDEAL COMPLEMENT TO YOUR SYSTEM

Meyer POLYCRETE® manholes match the egg-shaped POLYCRETE® pipes exactly. The manholes feature the same glass reinforced plastic couplings or used for the pipe couplings. The base, riser, tapered manhole top are all easily assembled and installed.

## GLASS REINFORCED PLASTIC COUPLING - INDIVIDUAL PROFILE ADAPTATIONS

Egg and oval Meyer POLYCRETE® pipes and manholes are connected using a coupling system, which has proven itself for over 30 years on round shaped pipes. The coupling is a structural filament wound sleeve over-wrapped and mechanically locked to an internal full-face EPDM elastomeric membrane. The sealing design includes both lip and compression elements so the joint is suitable for both non-pressure and pressure service. The process is adaptable to any possible profile shape. The result is reliable pressure connection for egg and oval shaped pipe.

## HOUSE CONNECTIONS - EASY TO INSTALL

House connections utilizing Meyer POLYCRETE® pipe or other pipe materials are easy to install. The location of the house connection to sewer pipe is first obtained. Then the POLYCRETE® sewer pipe is cored with a hole saw consistent with the outside diameter of the house connection pipe. A POLYCRETE® connector ring with a gasket is then inserted into the sewer pipe. The house connection pipe is then attached to the connector ring. Inserta-tees or other connections may also be used.

## THE ADVANTAGES OF ALL POLYCRETE® PIPES

- Pipes and couplings are corrosion resistant and watertight.
- The smooth inner surfaces promote flow and self-cleaning.
- Dimensional accuracy of all components guarantees quick and easy installation, reliable tightness and long-life.



**POLYCRETE® PIPE SYSTEMS.  
COST-EFFICIENCY - A QUALITY FEATURE.**

# REASONS TO SPECIFY AND USE POLYMER CONCRETE

## MEYER'S OVAL POLYCRETE® PIPES FEATURE:

- High flow rates during low flow periods = improved self-cleaning
- Corrosion resistant pipe pH =1 to pH=10 in continuous service
- Rigid pipe meeting or exceeding D-Load requirements for reinforced pipe
- Narrower trenches with increased flow compared to round pipes
- Can used to renovate existing egg or oval shaped sewer or storm drain
- Can withstand cyclic loading under highways, railroads, etc.
- Higher vertical profile allows manned access
- Integrated system with Meyer POLYCRETE® manholes



**CONTACT US TO FIND OUT WHAT THESE BENEFITS MEAN FOR YOUR CONSTRUCTION PROJECT. THE EARLIER THE BETTER.**

**meyer**®

**MEYER ROHR + SCHACHT GMBH**  
Otto-Brenner-Str. 5 • D-21337 LUENEBURG  
Tel. +49 4131/953-0 • Fax +49 4131/953-255  
eMail: [info@meyer-polycrete.com](mailto:info@meyer-polycrete.com)

[www.meyer-polycrete.com](http://www.meyer-polycrete.com)