

"WEHOLITE"®
HIGH DENSITY POLYETHYLENE
MANHOLES



Ø600 DUCTILE IRON MANHOLE
COVER & FRAME (BY OTHERS) &

PRECAST RCC SLAB
(BY OTHERS)

CORBING
(BY OTHERS)

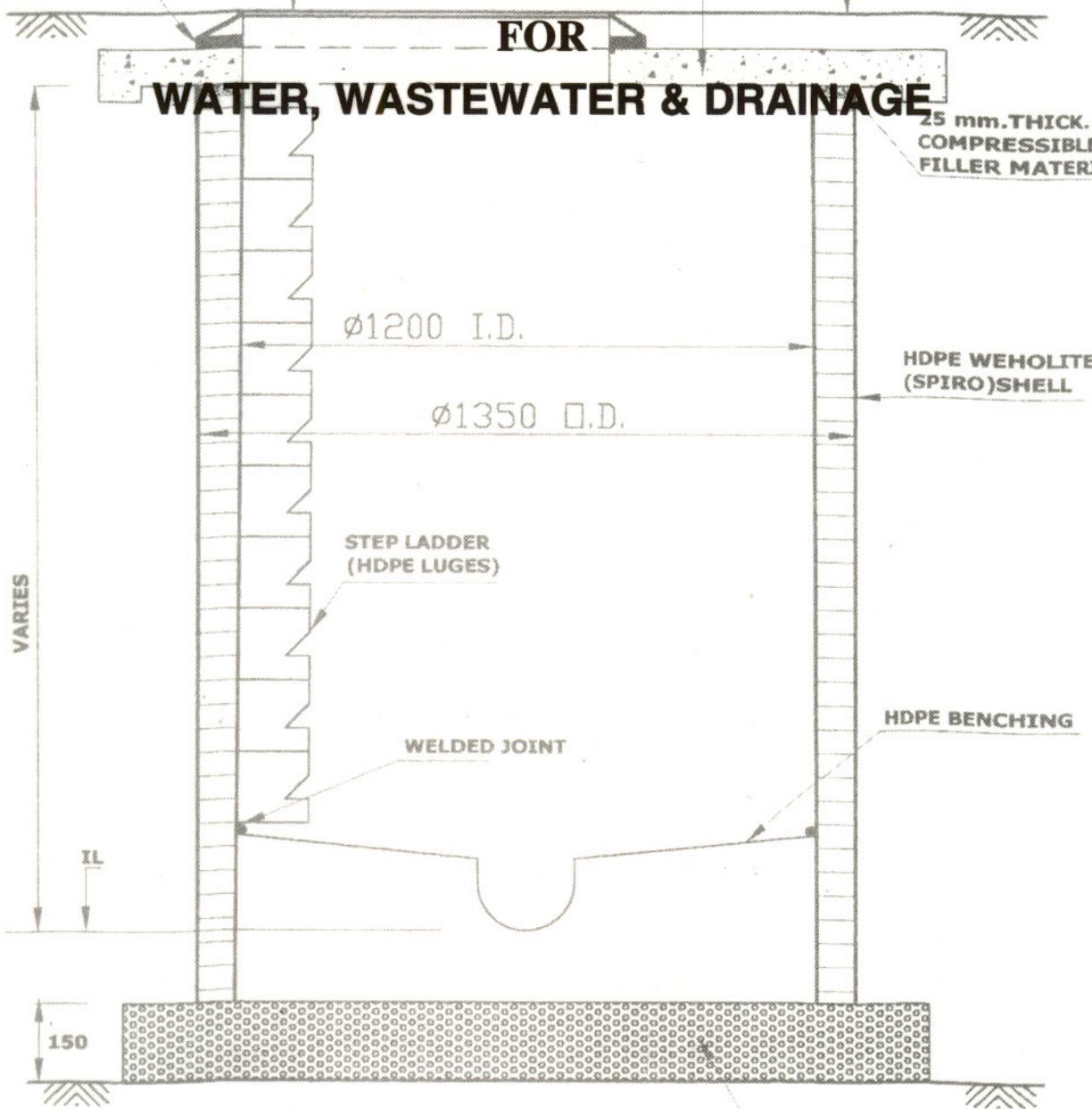
FINISHED GROUND LEVEL

SPECIALS

FOR

WATER, WASTEWATER & DRAINAGE

25 mm. THICK.
COMPRESSIBLE
FILLER MATERIAL



TYPE-1

MANUFACTURED UNDER LICENCE FROM PEA GRAVEL
KWH PIPE LTD OF FINLAND

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"WEHOLITE"® HIGH DENSITY POLYETHYLENE MANHOLES & SPECIALS

ENGINEERED FOR WIDE RANGE OF SERVICES, FROM WASTE WATER AND STORM WATER DRAINAGE TO LANDFILL GAS & LANDFILL LEACHATE.

DESCRIPTION

HDPE Manholes are available in internal diameters ranging from 800mm up to 3000mm. The cylindrical carcass is fabricated from a TWIN WALL STRUCTURED HDPE PROFILE pipe (WEHOLITE)® and is provided with an eccentric or concentric reducing cone. The manhole depths to invert can range from 1 Meter to 15 Meter and above. The manhole is provided with inlets and outlet pipe and also with ladder (if required) and benching.

CONSTRUCTION

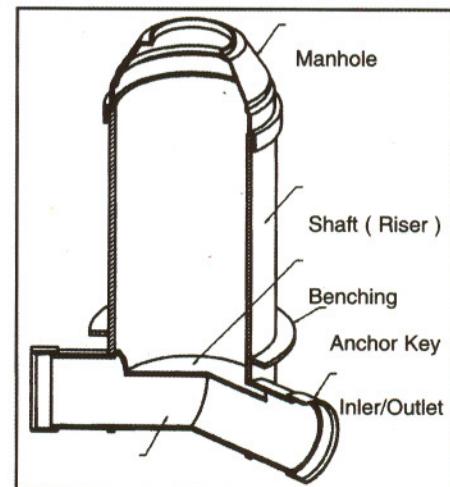
The top cone is from a homogenous moulding to match the diameter of the riser. The material is High Density Polyethylene of a grade which facilitates extrusion welding to the main shaft.

The base plate is constructed from High Density polyethylene plate stiffened to take the weight of maintenance staff.

The benching flow path is constructed from mitred pipes cut to suit the diameters of inlets and outlets. Benching is made to order and polyethylene ladders are added on customers' request.

The flow pipes are stiffened to take the weight of maintenance staff. Ladders are fabricated from 250 mm half pipe.

Access is via a top cone set concentrically or eccentrically to ensure that maintenance staff have easy and safe reach to the top of the ladder. All manholes are water tested prior to release from the factory.



INSTALLATION

The specialty in using, WEHOLITE HDPE MANHOLES as described above, is the ease of installation. It can be totally prefabricated at our works or at site, based on invert levels and orientation provided by the customer. The Manholes are leak-tested and certified before delivery to site. All it needs at site is a fairly stable foundation and effective backfilling and compaction.

HANDLING

Use lifting lugs provided on the manhole or use nylon slings with a spreader bar to hoist the manhole. Do not drop the manhole.

SITE PREPARATION

The Excavation at the MANHOLE location should be wide enough to accommodate the manhole with stub outs. Adequate working space should be provided around the Manhole.

FINISHING

The top slab is placed above the HDPE manhole, and a conventional Manhole cover is then fixed on the top slab. This completes the Manhole

"WEHOLITE" HDPE MANHOLES & specials are preferred in the Gulf region instead of conventional Manholes because of the following salient features;

" NON CORROSIVE PROPERTIES

- Safe
- Maintenance free
- Does not need internal and external Protective lining/coating

STRUCTURED PROFILE WALL CONSTRUCTION

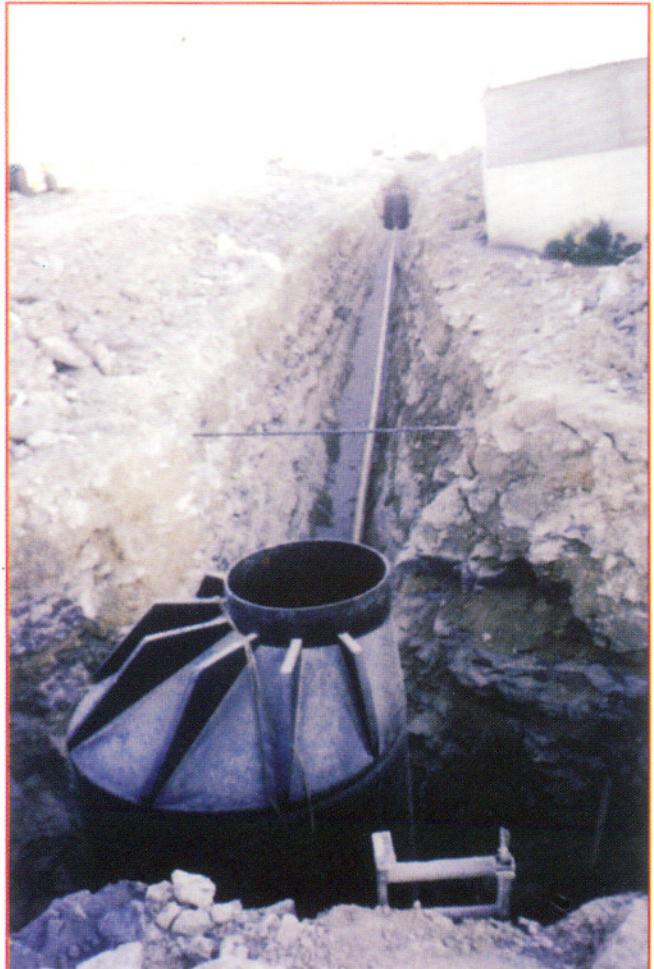
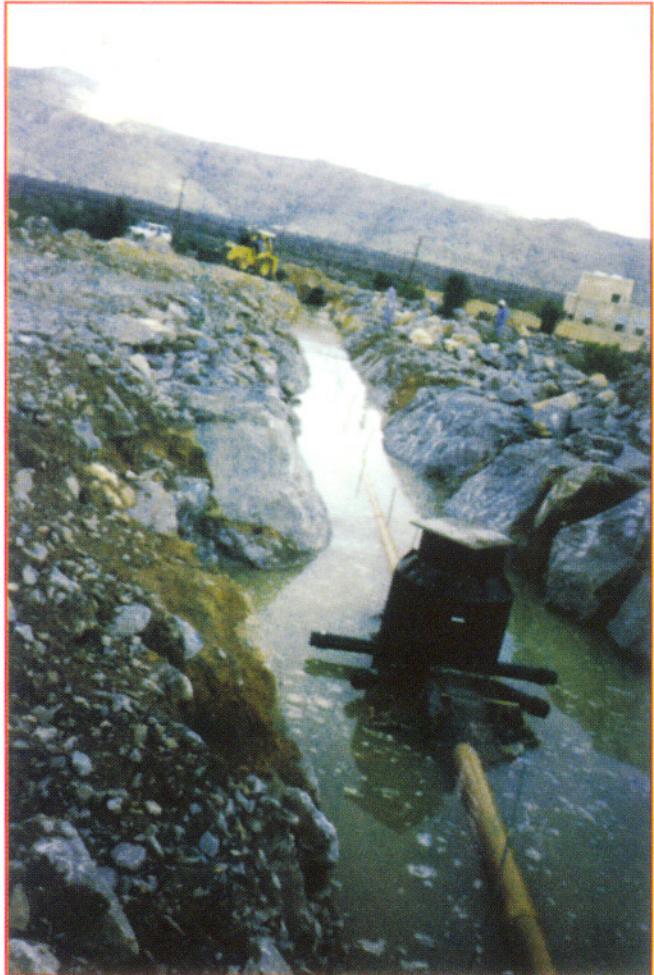
- Resists infiltration and ex-filtration
- Easier faster and safer installation

" LIGHT WEIGHT

- Easier handling
- Cost savings on installation time

" ENGINEERED CUSTOM BUILT PRODUCTS

- Rugged, dependable
- Dimensionally stable
- Precision fabrication
- Tested before installation
- 100% leak proof



STANDARD MANHOLE DIMENSIONS

RISER ID	RISER OD	THROUGH PIPE ID
mm	mm	mm
1200	1354	300 to 700
1500	1685	300 to 800
1800	2022	300 to 1200
2000	2247	300 to 1400
2400	2672	300 to 1500
3000	3298	300 to 1800

Note :

1. Through pipes of smaller diameter can be provided for all the above Riser pipes on request.
2. Risers of other intermediate IDs are also available. Please contact Amiantit Oman for further information

