

SECTION

SEE NOTES 12, 13 & 14.

FINISHED GROUND LEVEL

CONCRETE ROOF SLAB C30 / 37 REINFORCED SLAB

HEAVY DUTY COVER AND FRAME, STAMPED "Me" CLASS D400 TO IS EN 124 (OPE VARIES, SEE TABLE)

COVER TO BE SET IN C50/60 MORTAR

1 No. MIN. OR 3 No. COURSES MAX. OF CLASS B ENGINEERING BRICKWORK SET IN C50/60 MORTAR

MANHOLE STEPS TO COMPLY WITH IS EN 13101, TYPE D, CLASS 1, GALVANISED MILD STEEL & PLASTIC ENCAPSULATED.

WATER TIGHT SEAL

MINIMUM x 5 DIAMETER

OFF-LINE HYDRANT (REFER TO STD-W-17)

DISMANTLING JOINT

DI FLANGED TAPER

FLANGED / PLAIN ENDED PIPE CUT TO SUIT

LONG BODY FLEXIBLE COUPLING

SUISE VALVE (REFER TO STD-W-14)

FLANGED PLAIN ENDED DI PIPE

ROCKER PIPE

D.I. FLANGED PLAIN ENDED PIPE WITH THRUST FLANGE (CUT TO SUIT)

THICKENED FLOOR SLAB UNDER SUMP

CONCRETE CAST IN-SITU CRADLE

75mm CONCRETE BLINDING C12 / 15

NON MECH. FLOW METER

LONG BODY FLEXIBLE JOINT

VARIES.

300 MIN.

900 MIN. (REFER TO STD-W-13)

225

400

250

250

300 MIN.

400

250

675 (MAX.)

FLOW

FLOW

LEVEL INVERT TEE

FLANGED PLAIN ENDED DI PIPE

SUISE VALVE (REFER TO STD-W-14)

ROCKER PIPE

D.I. PLAIN ENDED PIPE WITH THRUST FLANGE (CUT TO SUIT)

DISMANTLING JOINT

LONG BODY FLEXIBLE COUPLING

FLANGED / PLAIN ENDED PIPE CUT TO SUIT

PE STUB FLANGE WITH BACKING RING

DI FLANGED TAPER

PE TO DI DETAIL

Roof Plan

VARIES

VARIES

CAST-IN RECESSED LIFTING EYES

HEAVY DUTY COVER AND FRAME, STAMPED * Me * CLASS D400 TO IS EN 124 (PPE SIZE VARIES)

Me

1 No. MIN. OR 3 No. COURSES MAX. OF CLASS B ENGINEERING BRICKWORK SET IN C50/60 MORTAR

CONCRETE ROOF SLAB C30 / 37 REINFORCED CONCRETE SLAB

FLOOR PLAN

SUMP 400mm x 400mm x 200mm DEEP

VARIES

250

250

250

400

300 MIN

400

250

300 MIN

WATER TIGHT SEAL

THRUST FLANGE

25mm O.D. TAPPING TO BE PROVIDED

PRESSURE TAPPING DUCT TO KIOSK TO BE INSTALLED WITH DRAW CORD (REFER TO STD-W-36) DUCT END TO BE SEALED

CABLE DUCT TO KIOSK TO BE INSTALLED WITH DRAW CORD (REFER TO STD-W-36) DUCT END TO BE SEALED

SLUICE VALVE

FLOW

OFF-LINE HYDRANT FOR METER CALIBRATION (REFER TO STD-W-17)

LEVEL INVERT TEE

SLUICE VALVE

FLOW

SECTION

SEE NOTES 13, 14 & 15.

HINGED DOUBLE LEAF HEAVY DUTY COVER AND FRAME, STAMPED "Me" CLASS D400

CONCRETE ROOF SLAB C30 / 37 REINFORCED STEEL

DI FLANGED TAPER (IF REQUIRED)

FLANGED / PLAIN ENDED PIPE CUT TO SUIT

LONG BODY FLEXIBLE COUPLING

SLUCE VALVE JOINT (REFER TO STD-WNMP-14)

DISMANTLING

D.I. FLANGED PLAIN ENDED PIPE WITH THRUST FLANGE (CUT TO SUIT)

THICKENED FLOOR SLAB UNDER SUMP

900 MINIMUM

225

VARIES

300 MAX.

LONG BODY FLEXIBLE JOINT

ROCKER PIECE (0.6m TYPICAL)

250

STRAINER

300 MIN

WATER TIGHT SEAL

600 MAX.

MANHOLE STEPS TO COMPLY WITH IS EN 13101, TYPE D, CLASS 1, GALVANISED MILD STEEL & PLASTIC ENCAPSULATED.

COVER TO BE SET IN C50/60 MORTAR No. MIN. OR 3 No COURSES MAX OF CLASS B ENGINEERING BRICKWORK SET IN C50/60 MORTAR

MANHOLE STEPS TO COMPLY WITH IS EN 13101, TYPE D, CLASS 1, GALVANISED MILD STEEL & PLASTIC ENCAPSULATED.

OFF-LINE HYDRANT (REFER TO STD-W-17)

DISMANTLING JOINT

LEVEL INVERT TEE

SLUCE VALVE (REFER TO STD-W-14)

MECH. METER

FLOW

ROCKER PIECE (0.6m TYPICAL)

CONCRETE CAST IN-SITU CRADLE

75mm CONCRETE BLINDING C12 / 15

Min 5 x Dia.

MINIMUM x 5 DIAMETER

Diagram illustrating the components of a PE stub flange assembly. The assembly consists of a PE STUB FLANGE WITH BACKING RING (left) and a DI FLANGED TAPER (right).

Diagram illustrating a heavy-duty cover with lifting eyes. The cover is a square with a grid pattern, labeled "Me". It is shown within a concrete roof slab, which is reinforced with C30/37 concrete and C16 reinforcement. The cover is secured by a hinged double leaf heavy duty cover and frame, stamped "Me" class D400 (OPE size varies). The cover is set in C50/60 mortar. The concrete roof slab is labeled "CAST-IN RECESSED LIFTING EYES".

Technical drawing of a water meter assembly, showing various components and dimensions. The drawing includes a side view of the meter assembly and a top view of the meter body. Key components and dimensions are labeled:

- SUMP** 400mm x 400mm x 200mm DEEP
- SLUISE VALVE**
- CABLE DUCTING**
- 25mm O.D. TAPPING TO BE PROVIDED**
- CABLE DUCT TO KIOSK TO BE INSTALLED WITH DRAW CORD (UP TO 20m) (REFER TO STD-WMIP-36) DUCT END TO BE SEALED**
- OFF-LINE HYDRANT FOR METER CALIBRATION (REFER TO STD-W-17)**
- LEVEL INVERT TEE**
- Dimensions:**
 - VARIES (multiple locations)
 - 250 (multiple locations)
 - 600 MAX. (multiple locations)
 - 300 MIN. (multiple locations)
 - 600 MAX. (multiple locations)

METER DIAMETER 'A' (mm)	INTERNAL CHAMBER DIMENSIONS	COVER DIMENSIONS
50 - 100	1200 x 1200	750 x 750
101 - 250	1500 x 1500	900 x 900

1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW OF SLAB SHALL BE DESIGNED TO CARRY ALL LIVE LOADS AND DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN SITU CONCRETE, GRADE C30/37, WITH A MINIMUM THICKNESS OF 225mm. ALTERNATIVELY, PRE-CAST CONCRETE ROADS MAY BE USED, SUBJECT TO IRISH WATER REVIEW COMPLIANCE WITH BS 5911, Part 4.
3. CONCRETE FOR FLOW METER CHAMBER TO BE C30 / 37.
4. PRECAST UNITS COMPLETED WITH RUBBER SEALING GASKET BETWEEN UNITS, COMPLYING WITH THE REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3, COMPLETE WITH 150mm CONCRETE SURROUND MAY BE USED AS AN ACCEPTABLE ALTERNATIVE. CONCRETE SURROUND TO BE GRADE C16/20 IN ACCORDANCE WITH IS EN 206.
5. METER CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.
6. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVER IN GRASS AREAS.
7. ANTI CORROSION TAP TO BE PROVIDED AROUND BURIED FLANGES.
8. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545, PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201/2011.
9. ALL REQUIREMENTS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITH THE METER. SHOULD ANTI UPLIFTATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH WATER.
10. PIPEWORK TO BE DOWNSIZED TO ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF THE METER TO BE PROVIDED. THE METER SHALL BE CAPABLE OF ACCURATE NIGHT FLOW MEASUREMENTS.
11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER AND FRAME SHALL BE TO ROAD AUTHORITIES REQUIREMENTS.
13. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
14. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE RELIANCE REQUIREMENTS.
15. CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.

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