All builders work and manhole covers by others Note. Appropriately load rated cover & frame in accordance with BS-EN 124. Clear access opening above ladder to be maintained Overall Depth as required) (size and orientation Inlet - Ridgistorm -XI Typically 400 Depth to $\neg m \times | \circ \circ \circ$ lnlet-• 64 orientation as required) Inlet (size and available to suite either SFA7 or Benching options (By Others) Scale (1:30) **PLAN VIEW** Chamber Diameter Mn . øg00 —Typically min. 50mm thick concrete binding layer Cast in-situ concrete base slab courses) or precast concrete cover frame Class B engineering brick (min 2 - max 4 as required) (size and orientation Outlet - Ridgistorm -XL Prefabricated Benching RIDGISTORMAccess Precast concrete cover slab (by Chamber Wall Diameter concrete surround only with others). To be bedded onto mortar, proprietary bitumen seating rings (by others). or resin mastic sealant. RIDGISTORMAccess concrete surround. Min. 150mm ST4 Chamber Wall (by others)

Table 1) Abridged Reproduction of BS EN 752: 2008 Table NA.22 (refer to note 10).

Recommended dimensions for the construction of new manholes and manhole shafts (with personnel entry)

					NOTES
Winch only - no steps or ladders (permanent or removable)	600	900	Winch		
opposite face should be 900mm.		1200	Ladders _{e)}		
Min. clear space between the ladder/steps and the	600	1050	Steps d)	> 3.0	Manhole shaft c)
		The larger of 1800 or (DN + 900)	>900		
below		1500 1800	500 - 700 750 - 900		
Where steps or a ladder are provided the minimum size should be increased - see	600	1200 1200 1350	≤ 225 300 375 - 450	≥ 1.5	
standing / crouching.		or (DN + 900)	\ 900		
required for manholes at		The larger of 1800	> 000		
Larger opening size is		1800	750 - 700		
Commission.		1350	375 - 450 500 700		
spaces - Health and Safety		1200	300		
with Safe work in confirmed		1200	225		
Generally in accordance	N/A	1000	≤ 150	< 1.5	Manhole b)
	diameter (Ømm)	circular diameter (Ømm)	of descent into shaft	(m)	
	size circular	dimensions a)	manhole / means	from cover level	
Remarks	Min. clear opening	Min. internal	DN largest pipe in	Depth to pipe soffit	Type of access

NOTES

- a) These sizes apply to straight-through pipe; for turning chambers or chambers with several side branches or where specific maintenance requirements are necessary, e.g. disconnecting traps, the minimum sizes should be increased.
- b) Chamber with a removable cover constructed on drain or sewer to permit entry by personnel.
- c) Minimum height of a chamber in shafted manhole 2m from benching to underside of reducing slab.
- d) Step rungs to be used in chambers ≤ 3.0m.e) Ladders to be used in chambers 3.0m to 6.0m.

Table 2) Typical Chamber Specification

proval	cal Appr	nt on Techni	- Dependar	- 3000mm	rom 100mm	available fu	Connections available from 100mm - 3000mm - Dependant on Technical Approval	× (Step Rungs / Ladder
00	2/10	0042	7100	1000	1000	1200	000	900	Chamber diameter (Millin)

- Typically step rungs are only used to a depth of 3m, once this depth is exceeded ladders are typically required Ladders cannot be used in chamber diameters smaller than Ø1200mm
- Lifting points are available in standard, extended and heavy duty forms, the correct lifting points will be chosen dependant on weight and diameter

NOTES - Step Rungs and GRP Ladders

- pre-installed step rungs or ladder. Please refer to Polypipe Ridgistorm-XL Technical Guide and standard Polypipe Civils can supply man access chambers with detail RST_SD_CM_002.
- <u>2</u> Installer to ensure access to manholes to comply with Regulations 1997 Approved Code of Practice (ACOP) HSE Safe work in confined spaces; Confined Spaces 101 (Third Edition, published 2014).

NOTES - Lifting Points

Polypipe Civils can supply access chambers with pre-installed lifting lugs; subject to technical assesment.
Please refer to Polypipe Ridgistorm-XL Technical Guide and standard detail RST_SD_CM_001.

NOTES - Stub Connections and Rocker Pipes

Polypipe Civils supply stub connections and rocker detail RST_SD_FT_003. Polypipe Ridgistorm-XL Technical Guide and standard pipes if required. For guidance please refer to

NOTES

- \sim \rightarrow All dimensions are nominal and may vary within All dimensions in millimetres, unless otherwise stated
- ω 4 Ridgistorm-XL units to be installed in accordance with manufacturing or construction tolerances All site temporary and enabling works by others.
- Dimensions are based on a minimum stiffness class ownership of the installation. adopting organisation(s) who will be taking ultimate

technical guidance for further information); giving due

Polypipe Civils recommendations (refer to Polypipe

consideration to the requirements of the approving and

- <u></u> 5 profiles current at the time of this drawing's issue. SN2 pipe; corresponding to the standardised pipe
- engineers before final design or construction activities document should be sought from the consulting Confirmation of the information contained within this This drawing is intended for guidance only.
- 7 other controls as deemed necessary to ensure a safe lift supervisor must assess and plan the lift, in the circumstances of the lift, and provide slings and/or to site without direct means of lifting incorporated. The Unless otherwise stated, all Ridgistorm-XL is supplied
- œ Minimum and maximum chamber depths applicable, dependant on project specification and fabrication

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requirements of our products for a proposed application and expected site conditions; expert advice should be sought in this respect. Final determination of the contract or intended contract with the user. The information within this document should not be solely relied upon to determine the suitability or installation The information in this document is of an illustrative nature and is supplied by Polypipe Civils without charge. This document does not form the whole or any part of a

Scale (1.30)

SECTION A-A

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iability in connection therewith. Further information with regard to liabilities may be found at www.polypipe.com/disclaimer.

PREFABRICATED RIDGIS ORM-XL MANHOLE

	FOR INFO	FOR INFORMATION
	DATE	DRAWN BY
	16/03/16	⊨
	ORIGINAL SIZE	SCALE
11	A3	AS SHOWN
11	DRAWING No.	REV.
	RST SD AC 002	002