

## MINIMUM BLOCK THRUST AREA m<sup>2</sup> - TABLES

TEST PRESSURE		DN \ AHBP		BENDS, VALVES, TEES & DEAD ENDS														
				90° & 60° HORIZ. BENDS			45° & 30° HORIZ. BENDS			22.5° HORIZONTAL BENDS			11.25° HORIZONTAL BENDS			VALVES, TEES & DEAD ENDS		
				50kPa	100kPa	200kPa	50kPa	100kPa	200kPa	50kPa	100kPa	200kPa	50kPa	100kPa	200kPa	50kPa	100kPa	200kPa
1000kPa		DN150		0.70	0.35	0.18	0.38	0.19	0.10	0.20	0.10	N	0.10	N	N	0.50	0.25	0.13
		DN200		1.20	0.60	0.30	0.65	0.33	0.17	0.33	0.17	N	0.17	N	N	0.85	0.43	0.22
		DN225		1.49	0.75	0.38	0.81	0.41	0.21	0.42	0.21	0.11	0.21	0.11	N	1.06	0.53	0.27

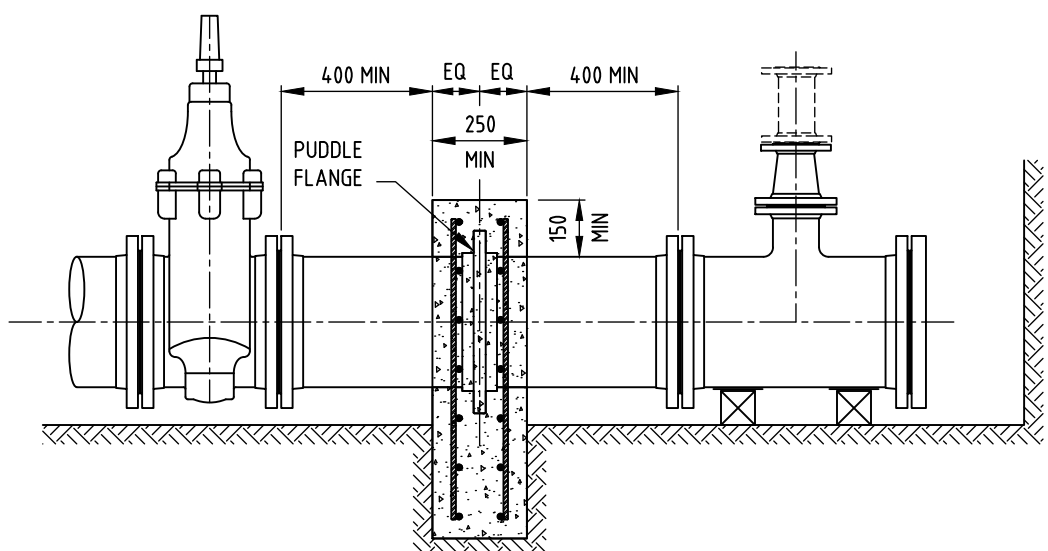
'N' DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE TO THE FULL LENGTH OF THE FITTING (EXCLUDING 50MM EITHER SIDE) AND EXTENDING FROM THE FLOOR OF THE TRENCH TO ABOVE THE FITTING (SEE ALSO NOTE 5 ON DRG W1-2-05A)

REFER TO W1-2-05A FOR NOTES AND OTHER DETAILS

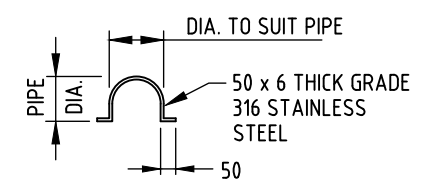
TEST PRESSURE		DN \ AHBP		TAPERS & REDUCERS			
				50kPa	100kPa	200kPa	
1000kPa		DN200		DN150	0.43	0.21	0.11
		DN225			0.68	0.34	0.17
						DN200	0.25

TEST PRESSURE		DN		VERTICAL BENDS			
				90° & 60°	45° & 30°	22.5°	11.25°
1000kPa		DN150		1.26	0.89	0.48	0.25
		DN200		2.17	1.54	0.83	0.42
		DN225		2.71	1.91	1.04	0.53

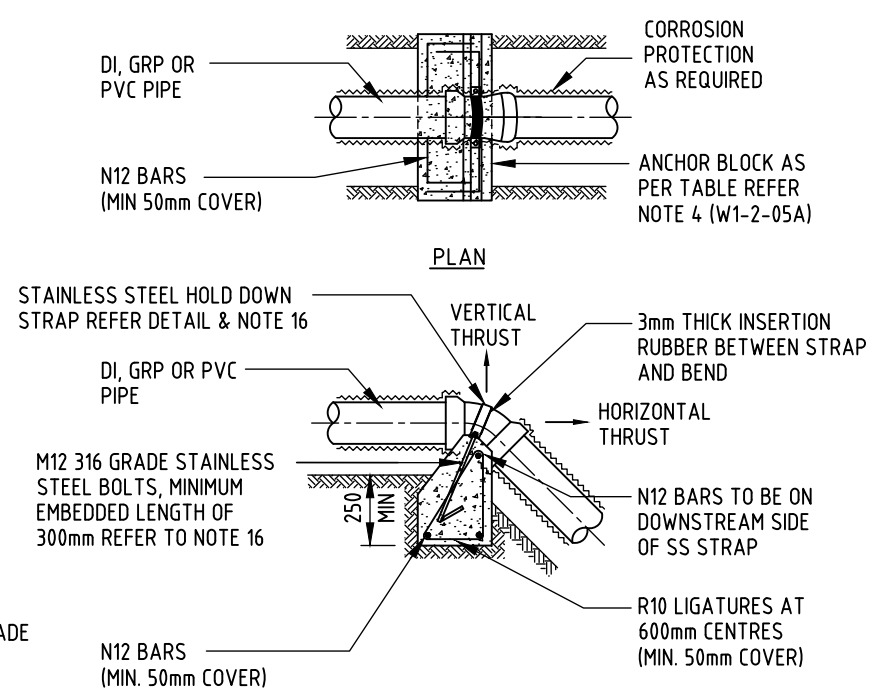
SOIL DESCRIPTION	SUGGESTED ALLOWABLE HORIZONTAL BEARING PRESSURE 'AHBP' (WHERE COVER >450)	MINIMUM INTO TRENCH BASE
VERY SOFT TO FIRM CLAY, LOOSE CLEAN SAND OR UNCOMPACTED FILL DOMESTIC REFUSE	GEOTECH ASSESSMENT REQUIRED	300
STIFF CLAY, MEDIUM DENSITY CLEAN SAND	50	300
VERY STIFF CLAY, DENSE CLEAN SAND OR GRAVEL, BROKEN OR DECOMPOSED ROCK	100	300
HARD CLAY, SOUND ROCK	200	150



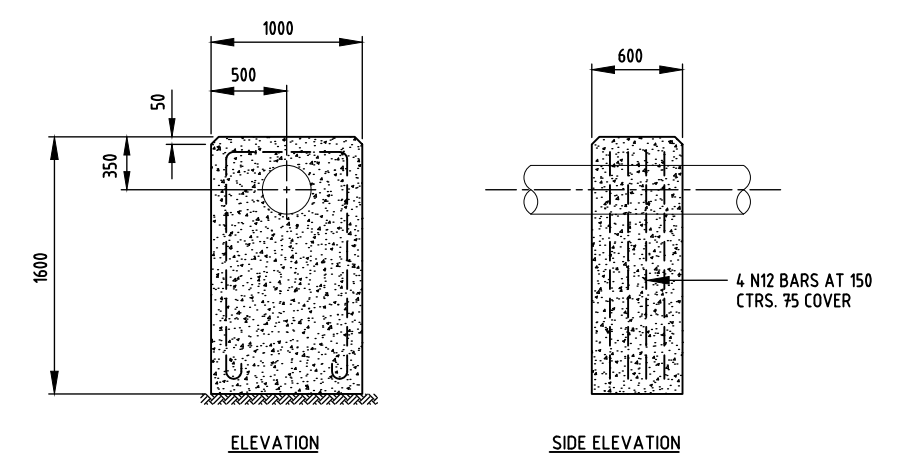
**ANCHOR BLOCK FOR DI/CL PIPELINE DEAD ENDS**  
REFER TO PWC STD. DRG. W1-2-19



**TYPICAL STAINLESS STEEL STRAP**  
(UP TO DN225)



**ANCHOR BLOCK VERTICAL BENDS**  
(FOR VERTICAL & HORIZONTAL THRUST)



**ANCHOR BLOCK FOR LOWERING WATER MAINS**  
REFER TO PWC STD. DRG. W1-2-08

4	DETAIL AND THRUST AREAS AMENDED.	J.W.	JAN'24	J.C.	D.C.
3	GENERAL AMENDMENTS 2021.	P.W.	JUNE'21	J.R.	D.C.
2	REDRAWN IN AUTOCAD.	A.W.	OCT'18	J.R.	D.C.
1	TRENCH DETAILS DELETED. ANCHOR BLOCK SPACING CHANGED.	A.W.	JUN'11	R.J.	J.P.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					



DES	J.C.	<b>WATER STANDARD DRAWING</b>		
DRN	L.M.	<b>MAINLAYING</b>		
CHK	V.G.	<b>THRUST BLOCK DETAILS</b>		
APPD	D.C.	<b>FOR DN150 TO DN225 PRESSURE MAIN</b>		
SCALE	N.T.S.	<b>A3</b>	<b>DRAWING NUMBER</b>	<b>W1-2-05B</b>
ISSUED	JUN '11			
ALL DIM. IN mm		<b>CAD PRODUCT - DO NOT AMEND MANUALLY</b>		<b>4</b>
DRAFTING STANDARD TO A.S.1100				