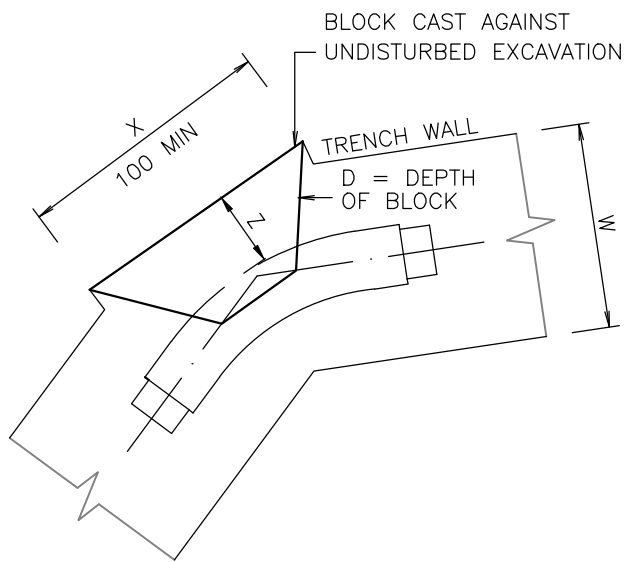
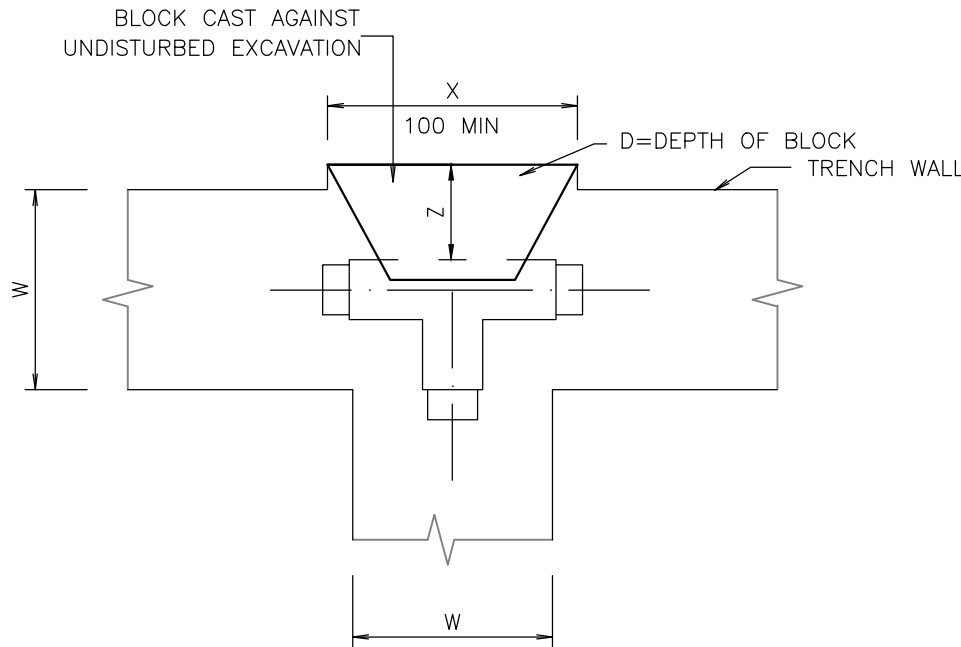




THRUST BLOCK FOR 45° BEND

PIPE NOMINAL DIAMETER (mm)	DEPTH OF BLOCK D (mm)	MAXIMUM TESTING PRESSURE					
		900 kPa		1350 kPa		1800 kPa	
		X (mm)	A (m²)	X (mm)	A (m²)	X (mm)	A (m²)
300	1200	450	0,49	650	0,74	850	0,98
250	1000	350	0,34	550	0,51	700	0,68
200	800	300	0,22	450	0,33	550	0,44
150	600	250	0,13	350	0,91	450	0,25
90&100	400	150	0,06	250	0,09	300	0,11
75	300	100	0,03	150	0,05	200	0,06
50	200	100	0,02	100	0,02	150	0,03

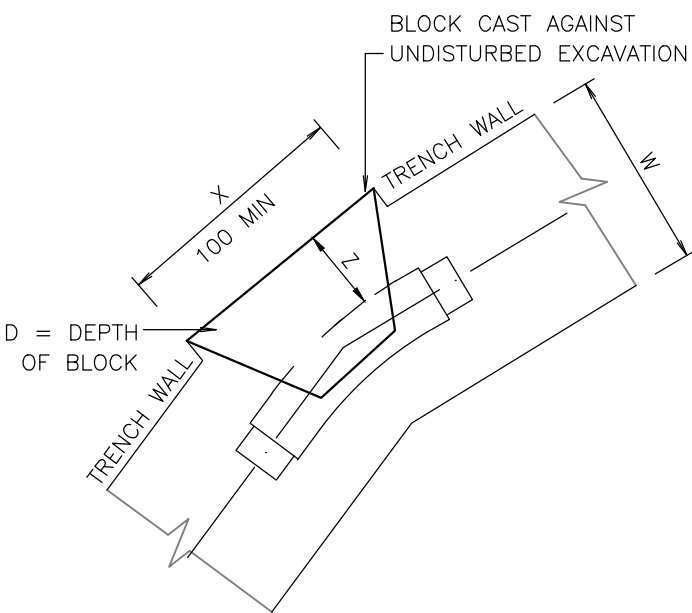
1. THIS TABLE IS VALID FOR 100 kPa EARTH BEARING PRESSURE.
2. X – DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES.
3. Z SHALL BE THE MAXIMUM OF X/2 OR W/2.
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS.
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE.



THRUST BLOCK FOR TEE

PIPE NOMINAL DIAMETER (mm)	DEPTH OF BLOCK D (mm)	MAXIMUM TESTING PRESSURE					
		900 kPa		1350 kPa		1800 kPa	
		X (mm)	A (m²)	X (mm)	A (m²)	X (mm)	A (m²)
300	1200	550	0,64	800	0,96	1100	1,27
250	1000	450	0,44	700	0,67	900	0,89
200	800	350	0,29	550	0,43	700	0,57
150	600	300	0,16	400	0,24	550	0,32
90&100	400	200	0,07	300	0,11	350	0,14
75	300	150	0,04	200	0,06	300	0,08
50	200	100	0,02	150	0,03	200	0,04

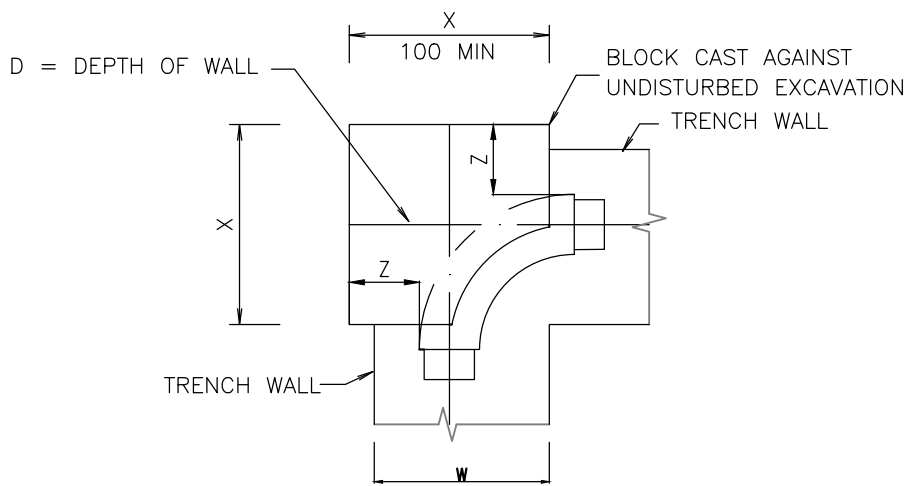
1. THIS TABLE IS VALID FOR 100 kPa EARTH BEARING PRESSURE.
2. X – DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES.
3. Z SHALL BE THE MAXIMUM OF X/2 OR W/2.
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS.
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE.



THRUST BLOCK FOR 22½° AND 11¼° BEND
(X AND A TO BE HALVED FOR 11¼° BENDS)

PIPE NOMINAL DIAMETER (mm)	DEPTH OF BLOCK D (mm)	MAXIMUM TESTING PRESSURE					
		900 kPa		1350 kPa		1800 kPa	
		X (mm)	A (m²)	X (mm)	A (m²)	X (mm)	A (m²)
300	1200	250	0,25	350	0,38	450	0,50
250	1000	200	0,18	300	0,26	350	0,35
200	800	150	0,11	250	0,17	300	0,22
150	600	100	0,06	200	1,00	250	0,13
90&100	400	100	0,04	100	0,04	150	0,06
75	300	100	0,03	100	0,03	100	0,03
50	200	100	0,02	100	0,02	100	0,02

1. THIS TABLE IS VALID FOR 100 kPa EARTH BEARING PRESSURE.
2. X – DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES.
3. Z SHALL BE THE MAXIMUM OF X/2 OR W/2.
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS.
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE.



THRUST BLOCK FOR 90° BEND

PIPE NOMINAL DIAMETER (mm)	DEPTH OF BLOCK D (mm)	MAXIMUM TESTING PRESSURE					
		900 kPa		1350 kPa		1800 kPa	
		X (mm)	A (m²)	X (mm)	A (m²)	X (mm)	A (m²)
400	1600	1000	1,60	1500	2,40	2000	3,20
350	1400	900	1,25	1350	1,90	1750	2,45
300	1200	750	0,90	1150	1,35	1550	1,81
250	1000	650	0,63	950	0,94	1250	1,26
200	800	500	0,40	750	0,60	1000	0,81
150	600	400	0,23	600	0,34	750	0,46
90&100	400	250	0,10	400	0,15	500	0,20
75	300	200	0,06	300	0,09	400	0,12
50	200	150	0,03	200	0,04	250	0,05

1. THIS TABLE IS VALID FOR 100 kPa EARTH BEARING PRESSURE.
2. X – DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES.
3. Z SHALL BE THE MAXIMUM OF X/2 OR W/2.
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS.
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE.

FOR TENDER

NOTES AND SPECIFICATIONS:

GENERAL

1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS REQUIREMENT.
2. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE SPECIFIED).
3. DONT SCALE FROM THESE DRAWINGS.
4. ALL DIMENSIONS MUST BE VERIFIED ON SITE.
5. FINAL POSITION OF SERVICES TO BE VERIFIED ON SITE.

DRAWING CHECKED:	J. STEYN	CEENEX (PTY) LTD 291 SPRITE AVENUE MENLYN WOODS FAERIE GLEN, PRETORIA(RSA) TEL: +27 (0)12 3614373 FAX: +27 (0)12 3614371	Rev. No.	AMENDMENTS	DRAWN	APPROVED	DATE	CLIENT:	PROJECT:	SCALE:	REVISION:
DRAWN BY:	A. PIETERSE		T1	ISSUED FOR TENDER	A. PIETERSE	J. STEYN	30/06/2023	THEMBISILE HANI LOCAL MUNICIPALITY	UPGRADING OF SHELDON WATER INFRASTRUCTURE – WARD 14 (MULTI-YEAR PROJECT)	NTS	T1
DESIGN CHECKED:	J. STEYN							PRIVATE BAG X4041 MPUMALANGA 0458 TEL: 013 986 9100 FAX: 013 986 0995	THLM/SCM 17/2020–2021/W3/P1	DRAWING No.: 5567–14–054–001 SHEET 1 OF 1	
DESIGNED BY:	N. MEYER								THRUST BLOCK SECTIONS AND DETAILS		