

MINIMUM RESTRAINING LENGTH (m) (ON EACH SIDE OF FITTING)												
PIPE DIAMETER(mm)	VERTICAL DEFLECTION						HORIZONTAL DEFLECTION					
	DOWNWARD THRUST			UPWARD THRUST								
	11.25	22.5	45	11.25	22.5	45	11.25	22.5	45	90	TEE	DEAD END
100&150	1.5	2.8	4.9	4.9	7.5	10.1	1.5	2.8	4.9	8.1	10.7	15.2
200	2	3.7	6.3	6.3	9.6	13.1	2	3.7	6.3	10.5	12.8	18.5
300	2.8	5.2	9	8.8	13.4	18.3	2.8	5.2	9	14.9	14.9	26.8
400	3.6	6.7	11.6	11.2	17.2	23.7	3.6	6.7	11.6	19.3	15.7	34.7
VALVES												
150	9m RESTRAINED ON BOTH SIDES											
200	11m RESTRAINED ON BOTH SIDES											
300	16m RESTRAINED ON BOTH SIDES											
400	21m RESTRAINED ON BOTH SIDES											
REDUCERS TO HAVE MINIMUM OF 9.0m RESTRAINED ON LARGE SIDE OF FITTING (WHEN REDUCING BY ONE PIPE SIZE)												
*IF GREATER THAN ONE PIPE SIZE, A DESIGN BY A PROFESSIONAL ENGINEER IS REQUIRED.												



MINIMUM RESTRAINING LENGTH(L) FOR PVC WATERMAINS

CKL-104

SCALE: NOT TO SCALE

DATE: AUGUST 2017

ENGINEERING & CORPORATE ASSETS

CHECKED: JN

APPROVED: CS

APPROVED DATE: AUGUST 2017

REVISION No. 1