



CIRCULAR PIPE SIZE SELECTION

NOMINAL SIZE		THICKNESS		INTERNAL HEIGHT		MAXIMUM NOMINAL PIPE DIAMETER			
LONG WALL	SHORT WALL	WALL	SLAB	INTERNAL HEIGHT		LONG WALL		SHORT WALL	
				MIN	MAX	STRAIGHT	45° ANGLED	STRAIGHT	45° ANGLED
2400	1800	NOTE [1]	203	914	1524	1800	1200	1350	750
3000	2400	203	254	914	1829	2400	1500	1800	1200
3900	2400	254	305	914	2134	3000	1950	1800	1050
3900	3000	254	305	914	2134	3000	1950	2400	1500

HORIZONTAL ELLIPTICAL PIPE (HEP) SIZE SELECTION

NOMINAL SIZE		THICKNESS		INTERNAL HEIGHT		MAXIMUM EQUIVALENT NOMINAL PIPE DIAMETER			
LONG WALL	SHORT WALL	WALL	SLAB	INTERNAL HEIGHT		LONG WALL		SHORT WALL	
				MIN	MAX	STRAIGHT	45° ANGLED	STRAIGHT	45° ANGLED
2400	1800	NOTE [1]	203	914	1524	1650	1050	1200	N/A
3000	2400	203	254	914	1829	2100	1350	1650	1050
3900	2400	254	305	914	2134	2700	1800	1650	900
3900	3000	254	305	914	2134	2700	1800	2100	1200

BOX CULVERT SIZE SELECTION

NOMINAL SIZE		THICKNESS		INTERNAL HEIGHT		MAXIMUM NOMINAL SIZE			
LONG WALL	SHORT WALL	WALL	SLAB	INTERNAL HEIGHT		LONG WALL		SHORT WALL	
				MIN	MAX	STRAIGHT	45° ANGLED	STRAIGHT	45° ANGLED
2400	1800	NOTE [1]	203	914	1524	1800X1200	NOTE [2]	NOTE[2]*	NOTE [2]
3000	2400	203	254	914	1829	2400X1800		1800X1200	
3900	2400	254	305	914	2134	3000X3000		1800X1200	
3900	3000	254	305	914	2134	3000X3000		1800X1200	

ALL DRAWING ARE NOT TO SCALE, UNLESS OTHERWISE SPECIFIED.
ALL DIMENSION ARE ACTUAL AND ARE IN mm.

NOTES:
[1] MONO BOX WALL THICKNESS : DRY CAST 203mm; WET CAST 152mm.
[2] CONTACT CON CAST ENGINEERING FOR DESIGN

CON CAST PIPE (CCP) STANDARD DRAWING

STD. CCP ENG GUIDE B.8.1.3 PART

TITLE **MONOBOX CULVERT SIZING GUIDE**

1 SOLIDWORKS STD, MAX PIPE CHG, ALL HEP PIPE AND BOX JL 26/APR/11

DRAWN BY JL CHECKED BY SW DATE 26/APR/11 FILE MONOBOX SIZEGUIDE R2 PAGE 1 OF 1

REV. DESCRIPTION ENG. DATE