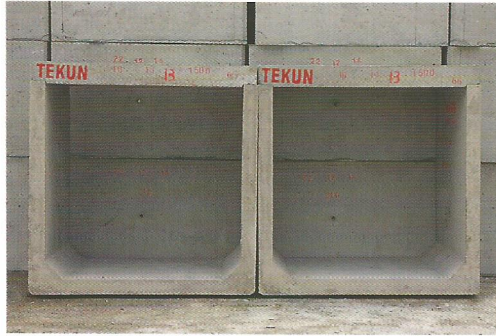


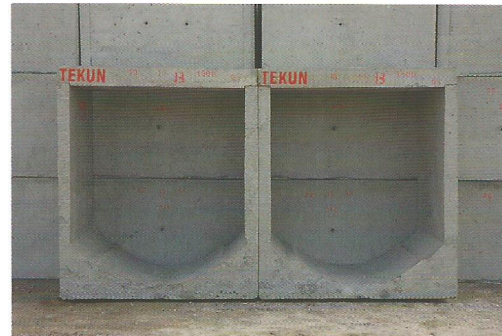
PRECAST REINFORCED CONCRETE

BOX CULVERT WITH AND WITHOUT DRY WEATHER FLOW

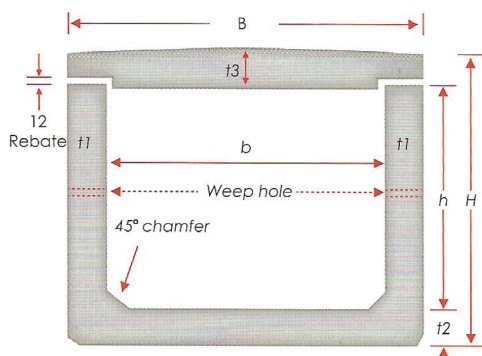




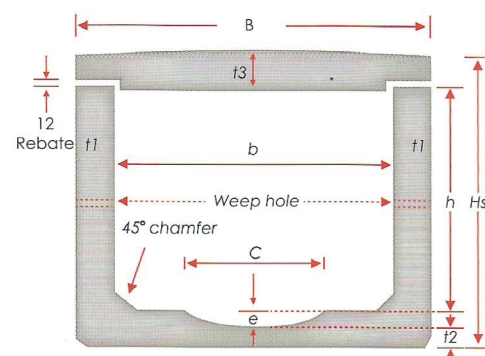
BOX CULVERT WITHOUT DRY
WEATHER FLOW



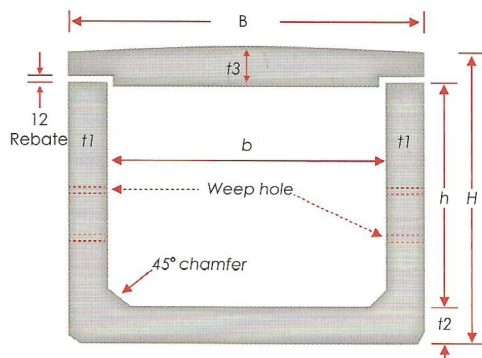
BOX CULVERT WITH DRY
WEATHER FLOW



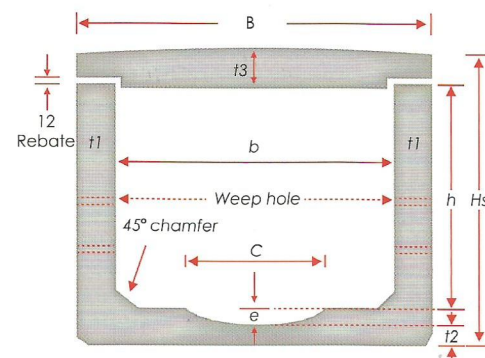
STANDARD SIZE BOX CULVERT



STANDARD SIZE BOX CULVERT
WITH DRY WEATHER FLOW



SUPER SIZE BOX CULVERT



SUPER SIZE BOX CULVERT
WITH DRY WEATHER FLOW

DESIGN AND SPECIFICATION

Standard	: Designed to the MS 1293 : Part 1 : 1992
Concrete Strength	: 30 N/mm ² - 40 N/mm ²
Concrete Cover	: Standard Size Box Culvert - 25mm Super Size Box Culvert - 30mm
Proof Load Test	: Compiled to 112.5kN over an area of 320mm x 320mm at and position on culvert lid.
Backfill Depth	: Designed to withstand a standard 2m of superimposed and special design over than 2m of superimposed.
Minimum Backfill Depth	: Minimum backfill depth of 300mm are recommended to avoid undesirable direct impact load.
Hydrostatic Pressure	: Relieved by provision of weep hole placed along the centreline of the invert wall.

STANDARD SIZE BOX CULVERT

NOMINAL SIZE (mm)		COMMON DIMENSIONS				WITHOUT DWF		WITH DWF	
b	h	B	t1	t2	t3	H	Hs	e	c
300	300	430	65	65	110	475	540	65	150
375	375	505	65	65	110	550	615	65	150
450	300	590	70	75	110	485	565	80	300
	450	590	70	75	110	635	715	80	300
600	300	750	75	80	125	505	585	80	300
	450	750	75	80	125	655	735	80	300
	600	750	75	80	125	805	885	80	300
750	300	910	80	90	135	525	605	80	300
	450	910	80	90	135	675	755	80	300
	600	910	80	90	135	825	905	80	300
	750	910	80	90	135	975	1055	80	300
900	300	1060	80	90	145	535	615	80	450
	450	1060	80	90	145	685	765	80	450
	600	1060	80	90	145	835	915	80	450
	750	1060	80	90	145	985	1065	80	450
	900	1060	80	90	145	1135	1215	80	450
1200	300	1380	90	100	150	550	775	225	1075
	450	1380	90	100	150	700	925	225	1075
	600	1380	90	100	150	850	1075	225	1075
	750	1380	90	100	150	1000	1225	225	1075
	900	1380	90	100	150	1150	1375	225	1075
	1050	1380	90	100	150	1300	1525	225	1075
	1200	1380	90	100	150	1450	1675	225	1075
1500	600	1720	110	120	160	880	1105	225	1075
	750	1720	110	120	160	1030	1255	225	1075
	900	1720	110	120	160	1180	1405	225	1075
	1050	1720	110	120	160	1330	1555	225	1075
	1200	1720	110	120	160	1480	1705	225	1075
	1350	1720	110	120	160	1630	1855	225	1075
	1500	1720	110	120	160	1780	2005	225	1075
1800	600	2030	115	120	170	890	1115	225	1075
	750	2030	115	120	170	1040	1265	225	1075
	900	2030	115	120	170	1190	1415	225	1075
	1050	2030	115	120	170	1340	1565	225	1075
	1200	2030	115	120	170	1490	1715	225	1075
	1350	2030	115	120	170	1640	1865	225	1075
	1500	2030	115	120	170	1790	2015	225	1075
	1650	2030	115	120	170	1940	2165	225	1075
	1800	2030	115	120	170	2090	2315	225	1075

* Due to continuous improvement, the above technical information is subject to change without prior notice.

SUPER SIZE BOX CULVERT

NOMINAL SIZE (mm)		COMMON DIMENSIONS				WITHOUT DWF	WITH DWF		
b	h	B	t1	t2	t3	H	Hs	e	c
2100	1200	2460	180	180	250	1630	1855	225	1075
	1500	2460	180	180	250	1930	2155	225	1075
	1800	2460	180	180	250	2230	2455	225	1075
	2100	2460	180	180	250	2530	2755	225	1075
2400	1200	2760	180	180	250	1630	1855	225	1075
	1500	2760	180	180	250	1930	2155	225	1075
	1800	2760	180	180	250	2230	2455	225	1075
	2100	2760	180	180	250	2530	2755	225	1075
	2400	2760	180	180	250	2830	3055	225	1075
2700	1500	3060	180	180	250	1930	2155	225	1075
	1800	3060	180	180	250	2230	2455	225	1075
	2100	3060	180	180	250	2530	2755	225	1075
	2400	3060	180	180	250	2830	3055	225	1075
	2700	3060	180	180	250	3130	3355	225	1075
3000	1500	3360	180	180	260	1940	2165	225	1075
	1800	3360	180	180	260	2240	2465	225	1075
	2100	3360	180	180	260	2540	2765	225	1075
	2400	3360	180	180	260	2840	3065	225	1075
	2700	3360	180	180	260	3140	3365	225	1075
	3000	3360	180	180	260	3440	3665	225	1075
3300	1500	3660	180	180	260	1940	2165	225	1075
	1800	3660	180	180	260	2240	2465	225	1075
	2100	3660	180	180	260	2540	2765	225	1075
	2400	3660	180	180	260	2840	3065	225	1075
	2700	3660	180	180	260	3140	3365	225	1075
	3000	3660	180	180	260	3440	3665	225	1075
	3300	3660	180	180	260	3740	3965	225	1075
3600	1500	3960	180	180	260	1940	2165	225	1075
	1800	3960	180	180	260	2240	2465	225	1075
	2100	3960	180	180	260	2540	2765	225	1075
	2400	3960	180	180	260	2840	3065	225	1075
	2700	3960	180	180	260	3140	3365	225	1075
	3000	3960	180	180	260	3440	3665	225	1075
	3600	3960	180	180	260	4040	4265	225	1075

* Due to continuous improvement, the above technical information is subject to change without prior notice.

JOINTING, HANDLING & STACKING

JOINTING

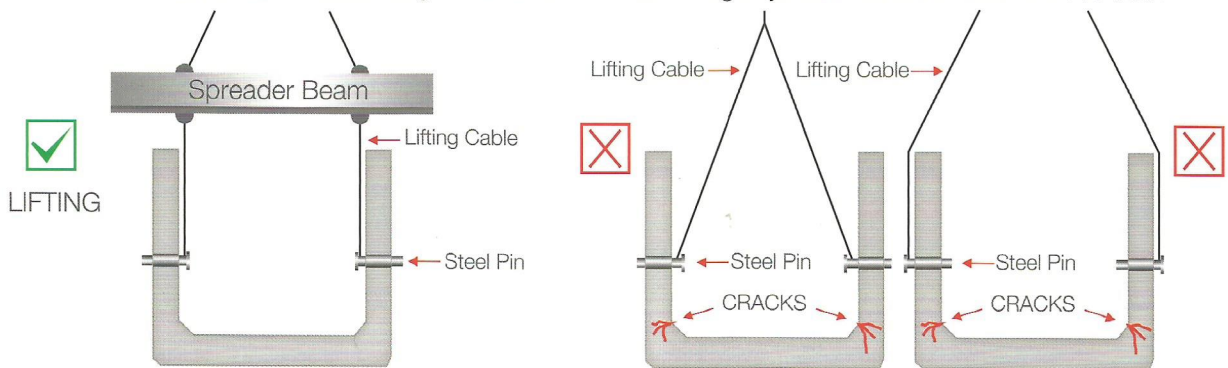
50mm diameter weep holes are provided for drainage of the retained soil which when combined with the butt jointed units, prevent the build up of hydrostatic pressures.

As such, the design does not take into consideration hydrostatic pressures.

HANDLING

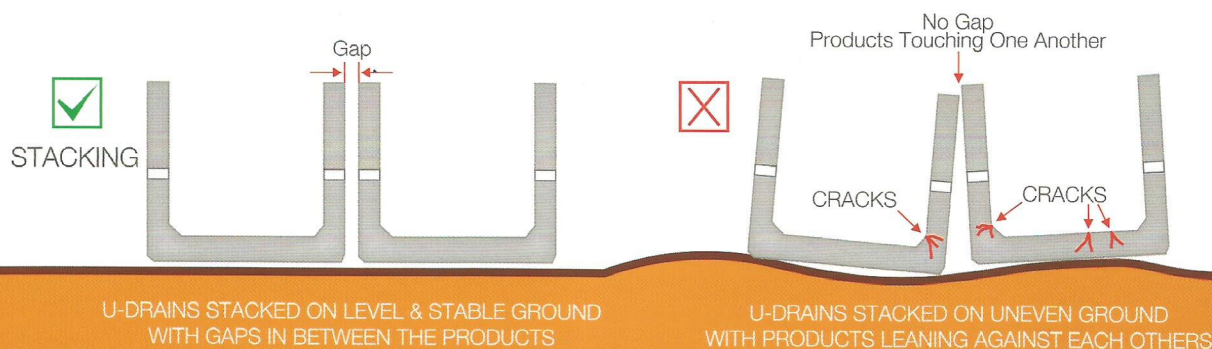
The weep holes provided in the U shape drain units double up as lifting holes for handling.

A spreader beam should be used when sling the units to avoid cracking at junction of side wall and base slab.



STACKING

Box culverts' invert and lid are to be stacked on level and stable ground or timber bearer to avoid cracking due to undesired localized load.



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(631383-X)



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MS 1293 : PART 1 : 1992 MS 1293 : PART 1 : 1992
Cert : PC 002626 Cert : PT 052301



CERTIFIED TO ISO 9001 : 2015
CERT . NO : QMS 03411



CERTIFIED TO ISO 9001 : 2015
CERT . NO : QMS 02086



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CERTIFIED TO ISO 9001 : 2015
CERT . NO : QMS 02086



CERTIFIED TO ISO 9001 : 2015
CERT . NO : QMS 03411