

ERMC - DRY CAST BOX CULVERTS

6 FT LAY LENGTH - 12" HAUNCH
JACKET STRIP

SPAN FT	RISE FT	WALL IN	BOX LBS	JACKET LBS	CORE LBS	PALLET LBS	HEADER LBS	DEAD LIFT LBS	BREAKAWAY LOAD LBS	LIFT AFTER AFTER BREAKAWAY LBS	MAX STAR LOAD LBS	YDS CONCRETE
4	3	5	7675	0	0	0	0	7675	22180	9525	14505	1.90
4	4	5	8425	0	0	0	0	8425	25420	10590	16995	2.08
5	3	6	9900	0	0	0	0	9900	26895	12065	16995	2.44
5	4	6	10800	0	0	0	0	10800	30280	13280	19480	2.67
5	5	6	11700	0	0	0	0	11700	33670	14500	21970	2.89
6	3	7	12475	9440	6235	960	650	23525	43005	26005	13245	3.08
6	4	7	13525	10760	7585	1060	730	26075	48045	28875	14385	3.34
6	5	7	14575	11420	8315	1120	780	27895	52355	31010	16145	3.60
6	6	7	15625	11820	8855	1180	840	29465	56410	32895	18090	3.86
7	3	8	15400	13180	7500	1060	700	30340	52310	33140	14470	3.80
7	4	8	16600	14500	8880	1160	790	33050	57510	36165	15580	4.10
7	5	8	17800	15160	9620	1220	840	35020	61965	38450	17325	4.40
7	6	8	19000	15560	10125	1280	900	36740	66175	40490	19310	4.69
7	7	8	20200	15940	10705	1320	960	38420	70345	42485	21220	4.99
8	3	8	16600	13840	8230	1120	740	32300	56760	35415	16230	4.10
8	4	8	17800	15160	9635	1220	830	35010	61955	38440	17310	4.40
8	5	8	19000	15820	10395	1280	880	36980	66415	40730	19040	4.69
8	6	8	20200	16220	10910	1340	940	38700	70625	42765	21015	4.99
8	7	8	21400	16600	11515	1380	1000	40380	74790	44764	22895	5.28
8	8	8	22600	17920	12845	1480	1060	43060	79960	47759	24055	5.58
9	3	9	20025	13780	8650	1180	900	35885	62830	39315	18295	4.94
9	4	9	21375	15100	10080	1280	990	38745	68180	42495	19355	5.28
9	5	9	22725	15760	10855	1340	1040	40865	72790	44930	21070	5.61
9	6	9	24075	16160	11390	1400	1100	42735	77145	47120	23020	5.94
9	7	9	25425	16540	12020	1440	1170	44575	81475	49275	24880	6.28
9	8	9	26775	17860	13365	1540	1230	47405	86795	52420	26025	6.61
9	9	9	28125	18520	14140	1600	1320	49565	91440	54900	27735	6.94
10	3	10	23800	14280	9115	1220	980	40280	69715	44030	20320	5.88
10	4	10	25300	15600	10575	1320	1100	43320	75245	47385	21350	6.25
10	5	10	26800	16260	11365	1380	1160	45600	80010	49985	23045	6.62
10	6	10	28300	16660	11915	1440	1220	47620	84520	52320	24985	6.99
10	7	10	29800	17040	12475	1480	1270	49590	88980	54605	26915	7.36
10	8	10	31300	18360	13935	1580	1390	52630	94505	57965	27940	7.73
10	9	10	32800	19020	14725	1640	1450	54910	99275	60560	29640	8.10
10	10	10	34300	19420	15275	1700	1510	56930	103785	62895	31580	8.47
11	3	11	27925	18020	10380	1320	1040	48305	80230	52370	21545	6.90
11	4	11	29575	19340	11865	1420	1180	51515	85925	55900	22545	7.30
11	5	11	31225	20000	12670	1480	1230	53935	90835	58635	24230	7.71
11	6	11	32875	20400	13235	1540	1300	56115	95505	61130	26155	8.12
11	7	11	34525	20780	13810	1580	1360	58245	100120	63580	28065	8.53
11	8	11	36175	22100	15295	1680	1500	61455	105820	67105	29070	8.93
11	9	11	37825	22760	16100	1740	1550	63875	110730	69840	30755	9.34
11	10	11	39475	23160	16665	1800	1620	66055	115395	72340	32675	9.75
11	11	11	41125	23540	17240	1840	1680	68185	120015	74785	34590	10.16
12	3	12	32400	18220	11075	1380	1250	53250	87660	57635	23335	8.00
12	4	12	34200	19540	12590	1480	1400	56620	93520	61320	24310	8.44
12	5	12	36000	20200	13410	1540	1460	59200	98590	64215	25980	8.89
12	6	12	37800	20600	13990	1600	1520	61520	103395	66855	27885	9.33
12	7	12	39600	20980	14580	1640	1590	63810	108175	69460	29785	9.78
12	8	12	41400	22300	16095	1740	1740	67180	114035	73145	30760	10.22
12	9	12	43200	22960	16915	1800	1800	69760	119100	76045	32425	10.67
12	10	12	45000	23360	17495	1860	1860	72080	123910	78680	34335	11.11
12	11	12	46800	23740	18085	1900	1930	74370	128690	81285	36235	11.56
12	12	12	48600	25060	19600	2000	2080	77740	134545	84975	37205	12.00

ERMC - DRY CAST BOX CULVERTS

8 FT LAY LENGTH - 12" HAUNCH
JACKET STRIP

SPAN FT	RISE FT	WALL IN	BOX LBS	JACKET LBS	CORE LBS	PALLET LBS	HEADER LBS	DEAD LIFT LBS	BREAKAWAY LOAD LBS	LIFT AFTER AFTER BREAKAWAY LBS	MAX STAR LOAD LBS	YDS CONCRETE
4	3	5	10235	0	0	0	0	10235	29575	12700	19340	2.53
4	4	5	11235	0	0	0	0	11235	33890	14120	22655	2.77
5	3	6	13200	0	0	0	0	13200	35855	16085	22655	3.26
5	4	6	14400	0	0	0	0	14400	40375	17710	25975	3.56
5	5	6	15600	0	0	0	0	15600	44895	19330	29295	3.85
6	3	7	16635	12590	8240	960	650	30835	56810	34145	17735	4.11
6	4	7	18035	14350	9995	1060	730	34175	63469	37905	19300	4.45
6	5	7	19435	15230	10945	1120	780	36565	69175	40719	21670	4.80
6	6	7	20835	15760	11620	1180	840	38615	74545	43190	24310	5.14
7	3	8	20535	17575	9910	1060	700	39870	69165	43600	19385	5.07
7	4	8	22135	19335	11700	1160	790	43420	76031	47575	20915	5.47
7	5	8	23735	20215	12655	1220	840	46010	81940	50585	23275	5.86
7	6	8	25335	20750	13295	1280	900	48264	87509	53265	25950	6.26
7	7	8	26935	21255	14015	1320	960	50470	93034	55890	28550	6.65
8	3	8	22135	18455	10860	1120	740	42450	75061	46605	21755	5.47
8	4	8	23735	20215	12670	1220	830	46000	81930	50575	23260	5.86
8	5	8	25335	21095	13645	1280	880	48590	87835	53590	25600	6.26
8	6	8	26935	21630	14300	1340	940	50844	93409	56264	28265	6.65
8	7	8	28535	22135	15045	1380	1000	53050	98930	58895	30840	7.05
8	8	8	30135	23895	16780	1480	1060	56571	105771	62835	32420	7.44
9	3	9	26700	18375	11415	1180	900	47156	83086	51731	24515	6.59
9	4	9	28500	20135	13250	1280	990	50906	90150	55906	25995	7.04
9	5	9	30300	21015	14245	1340	1040	53695	96260	59115	28320	7.48
9	6	9	32100	21550	14915	1400	1100	56150	102030	61995	30965	7.93
9	7	9	33900	22055	15685	1440	1170	58565	107765	64830	33515	8.37
9	8	9	35700	23815	17435	1540	1230	62285	114800	68975	35080	8.82
9	9	9	37500	24695	18430	1600	1320	65115	120950	72225	37405	9.26
10	3	10	31735	19040	12020	1220	980	52975	92220	57976	27225	7.84
10	4	10	33735	20800	13885	1320	1100	56955	99520	62375	28680	8.33
10	5	10	35735	21680	14895	1380	1160	59955	105835	65800	30990	8.82
10	6	10	37735	22215	15580	1440	1220	62610	111810	68875	33620	9.32
10	7	10	39735	22720	16280	1480	1270	65205	117720	71895	36235	9.81
10	8	10	41735	24480	18145	1580	1390	69185	125019	76295	37690	10.31
10	9	10	43735	25360	19155	1640	1450	72185	131335	79719	40000	10.80
10	10	10	45730	25895	19840	1700	1510	74836	137306	82791	42630	11.29
11	3	11	37235	24030	13690	1320	1040	63625	106189	69044	28875	9.19
11	4	11	39435	25790	15585	1420	1180	67824	113705	73670	30300	9.74
11	5	11	41635	26670	16605	1480	1230	71014	120214	77279	32595	10.28
11	6	11	43835	27200	17305	1540	1300	73875	126389	80564	35210	10.82
11	7	11	46030	27710	18020	1580	1360	76680	132515	83790	37815	11.37
11	8	11	48230	29470	19915	1680	1500	80880	140030	88415	39240	11.91
11	9	11	50430	30350	20935	1740	1550	84070	146540	92025	41535	12.45
11	10	11	52630	30880	21635	1800	1620	86930	152720	95309	44155	13.00
11	11	11	54830	31390	22350	1840	1680	89739	158844	98539	46755	13.54
12	3	12	43200	24295	14605	1380	1250	70126	116006	75971	31280	10.67
12	4	12	45600	26055	16525	1480	1400	74535	123735	80800	32675	11.26
12	5	12	48000	26935	17560	1540	1460	77935	130450	84625	34955	11.85
12	6	12	50400	27470	18280	1600	1520	80989	136824	88100	37555	12.45
12	7	12	52800	27975	19010	1640	1590	84005	143155	91540	40145	13.04
12	8	12	55200	29735	20930	1740	1740	88416	150886	96371	41540	13.63
12	9	12	57600	30615	21965	1800	1800	91816	157606	100195	43825	14.22
12	10	12	60000	31150	22685	1860	1860	94870	163974	103670	46420	14.82
12	11	12	62400	31655	23415	1900	1930	97885	170311	107106	49015	15.41
12	12	12	64800	33415	25335	2000	2080	102295	178035	111940	50405	16.00

REFERENCE

McCRACKEN - DRY CAST BOX CULVERTS

8 FT LAY LENGTH
CORE STRIP

SPAN FT	RISE FT	WALL IN	BOX LBS	JACKET LBS	CORE LBS	PALLET LBS	HEADER LBS	DEAD LIFT LBS	BREAKAWAY LOAD LBS	LIFT AFTER 6" LBS	MAX STAR LOAD LBS
4	3	5	8250	9688	5971	560	524	15305	44059	19409	38088
4	4	5	9250	11072	6824	640	598	17312	49384	21488	42560
5	3	6	11400	10608	6872	718	660	19650	52828	23970	45956
5	4	6	12600	11934	7731	808	742	21881	58377	26634	50646
5	5	6	13800	13260	8590	898	825	24113	63926	29297	55336
6	3	7	15050	11340	7749	893	756	24448	62049	29344	54300
6	4	7	16450	12600	8610	992	840	26892	67811	32220	59201
6	5	7	17850	13860	9471	1091	924	29336	73573	35096	64102
6	6	7	19250	15120	10332	1190	1008	31780	79335	37972	69003
7	4	8	20800	13860	9339	1113	901	32153	77496	38057	68157
7	5	8	22400	15120	10188	1214	983	34785	83446	41121	73258
7	6	8	24000	16380	11037	1316	1065	37418	89396	44185	78359
7	7	8	25600	17640	11886	1417	1147	40050	95345	47249	83459
8	4	8	22400	15120	10176	1200	972	34748	83408	41084	73232
8	5	8	24000	16380	11024	1300	1053	37377	89355	44145	78331
8	6	8	25600	17640	11872	1400	1134	40006	95302	47206	83430
8	7	8	27200	18900	12720	1500	1215	42635	101249	50267	88529
8	8	8	28800	20160	13568	1600	1296	45264	107196	53328	93628
9	5	9	29250	17724	12180	1456	1235	44121	100523	51465	88343
9	6	9	31050	18990	13050	1560	1323	46983	106703	54759	93653
9	7	9	32850	20256	13920	1664	1411	49845	112883	58053	98963
9	8	9	34650	21522	14790	1768	1499	52707	119063	61347	104273
9	9	9	36450	22788	15660	1872	1588	55570	125243	64642	109583
10	5	10	35000	20310	13290	1620	1440	51350	112176	59270	98886
10	6	10	37000	21664	14176	1728	1536	54440	118583	62792	104407
10	7	10	----	----	----	----	----	----	----	----	----
10	8	10	41000	24372	15948	1944	1728	60620	131399	69836	115451
10	9	10	43000	25726	16834	2052	1824	63710	137807	73358	120973
10	10	10	45000	27080	17720	2160	1920	66800	144214	76680	126494
11	4	11	----	----	----	----	----	----	----	----	----
11	5	11	41250	21344	14288	1853	1656	59047	124296	67543	110008
11	6	11	43450	22678	15181	1969	1760	62360	130926	71287	115745
11	7	11	----	----	----	----	----	----	----	----	----
11	8	11	----	----	----	----	----	----	----	----	----
11	9	11	50050	26680	17860	2316	2070	72296	150816	82520	132956
11	10	11	52250	28014	18753	2432	2174	75609	157446	86264	138693
11	11	11	54450	29348	19646	2548	2277	78921	164076	90009	144430
12	4	12	----	----	----	----	----	----	----	----	----
12	5	12	----	----	----	----	----	----	----	----	----
12	6	12	50400	24012	15966	2221	1994	70581	143572	80086	127606
12	7	12	52800	25346	16853	2345	2105	74103	150411	84039	133558
12	8	12	55200	26680	17740	2468	2216	77624	157250	87992	139510
12	9	12	----	----	----	----	----	----	----	----	----
12	10	12	60000	29348	19514	2715	2438	84667	170928	95898	151414
12	11	12	62400	30682	21401	2838	2548	89187	177767	99852	156366
12	12	12	64800	32016	21288	2962	2659	91709	184606	103805	163318