

ULTRA SHIELD BOX WEIGHTS SUMMARY TABLES

Built Up Weights (kg)



Standard Base Using 4 no. Accrow struts	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)														
				600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800		
	20-50*	56	Standard Base	130	130	130	130	150	150	150	150	150	150	150	150	150	150	150

Standard Base Using 6 no. Accrow struts	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)														
				600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800		
	20-50*	56	Standard Base	150	150	150	150	170	170	170	170	170	170	170	170	170	170	170

*20kPa when using 4no. struts. 50kPa when using 6no. struts

Individual Components Weights		
Components	Weight	Units
100 x 100 x 9 SHS*	25	kg/m
150 x 100 x 9 RHS**	32	kg/m
Highclear Bars (per end)	500	kg
0.6m to 0.9m Accrow	10	kg
0.9m to 1.8m Accrow	13	kg
Corner Spreader	25	kg
Extension Connector	7.5	kg

*100 x 100 x 9 SHS used up to 3m long

**150 x 100 x 9 RHS used from 3m to 4m long

Individual Panel Weights			
Panel Type	Length	Weight	Units
Standard Base	2400	45	kg
Manhole Base	2000	140	kg
Manhole Base	2400	400	kg
Lower	1800	100	kg
Extension	1800	70	kg
Lower	3100	260	kg
Extension	3100	260	kg
Lower	3600	400	kg
Extension	3600	325	kg
Lower	4000	550	kg
Extension	4000	430	kg
Lower	6000	850	kg
Extension	6000	850	kg
Lower	7200	1000	kg
Extension	7200	1000	kg

Manhole	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)																										
				600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000		
	30	56	2000 x 2000 Base	340	360	360	380	380	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	50	90	2400 x 2400 Base	860	880	880	900	900	920	920	940	940	960	960	980	980	1000	1000	1020	1020	1040	1040	1060	1060	1080	1080	1100	1100		

Shield Using Standard Bars	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)																																				
				600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000		
	50	90	1800 x 2000 Lower	260	280	280	300	300	320	320	340	340	360	360	380	380	400	400	420	420	440	440	460	460	480	480	500	500	600	620	630	640	650	670	680	690	700	720		
	50	90	1800 x 1600 Extension	200	220	220	240	240	260	260	280	280	300	300	320	320	340	340	360	360	380	380	400	400	420	420	440	440	540	560	570	580	590	610	620	630	640	660		
	50	90	3100 x 2000 Lower	580	600	600	620	620	640	640	660	660	680	680	700	700	720	720	740	740	760	760	780	780	800	800	820	820	920	940	950	960	970	990	1000	1010	1020	1040		
	50	90	3100 x 2000 Extension	580	600	600	620	620	640	640	660	660	680	680	700	700	720	720	740	740	760	760	780	780	800	800	820	820	920	940	950	960	970	990	1000	1010	1020	1040		
	36	90	3600 x 2400 Lower	860	880	880	900	900	920	920	940	940	960	960	980	980	1000	1000	1020	1020	1040	1040	1060	1060	1080	1080	1100	1100	1200	1220	1230	1240	1250	1270	1280	1290	1300	1320		
	36	90	3600 x 2000 Extension	710	730	730	750	750	770	770	790	790	810	810	830	830	850	850	870	870	890	890	910	910	930	930	950	950	1050	1070	1080	1090	1100	1120	1130	1140	1150	1170		
	70	150	4000 x 2400 Lower	1160	1180	1180	1200	1200	1220	1220	1240	1240	1260	1260	1280	1280	1300	1300	1320	1320	1340	1340	1360	1360	1380	1380	1400	1400	1500	1520	1530	1540	1550	1570	1580	1590	1600	1620		
	70	150	4000 x 2000 Extension	920	940	940	960	960	980	980	1000	1000	1020	1020	1040	1040	1060	1060	1080	1080	1100	1100	1120	1120	1140	1140	1160	1160	1260	1280	1290	1300	1310	1330	1340	1350	1360	1380		
	45	150	6000 x 2400 Lower	1760	1780	1780	1800	1800	1820	1820	1840	1840	1860	1860	1880	1880	1900	1900	1920	1920	1940	1940	1960	1960	1980	1980	2000	2000	2100	2120	2130	2140	2150	2170	2180	2190	2200	2220		
	45	150	6000 x 2400 Extension	1760	1780	1780	1800	1800	1820	1820	1840	1840	1860	1860	1880	1880	1900	1900	1920	1920	1940	1940	1960	1960	1980	1980	2000	2000	2100	2120	2130	2140	2150	2170	2180	2190	2200	2220		
	36	150	7200 x 2400 Lower	2060	2080	2080	2100	2100	2120	2120	2140	2140	2160	2160	2180	2180	2200	2200	2220	2220	2240	2240	2260	2260	2280	2280	2300	2300	2400	2420	2430	2440	2450	2470	2480	2490	2500	2520		
	36	150	7200 x 2400 Extension	2060	2080	2080	2100	2100	2120	2120	2140	2140	2160	2160	2180	2180	2200	2200	2220	2220	2240	2240	2260	2260	2280	2280	2300	2300	2400	2420	2430	2440	2450	2470	2480	2490	2500	2520		

100 x 100 x 9 SHS used up to 3m long | 150 x 100 x 9 RHS used from 3m to 4m long

Square Box	kPa Rating	Panel Width	Panel Type	1800 x 2000	3100 x 2000	3600 x 2400	4000 x 2400	6000 x 2400	7200 x 2400
Lower	50	90	1800 x 2000 Lower	600	820	X	X	X	X
	50	90	3100 x 2000 Lower	820	1240	X	X	X	X
	36	90	3600 x 2400 Lower	X	X	1800	2000	2600	2900
	70	150	4000 x 2400 Lower	X	X	2000	2400	2900	3200
	45	150	6000 x 2400 Lower	X	X	2600	2900	3600	3800
	36	150	7200 x 2400 Lower	X	X	2900	3200	3800	4200

Square Box	kPa Rating	Panel Width	Panel Type	1800 x 1600	3100 x 2000	3600 x 2000	4000 x 2400	6000 x 2400	7200 x 2400
Upper	50	90	1800 x 1600 Extension	480	X	X	X	X	X
	50	90	3100 x 2000 Extension	X	1240	1270	1480	X	X
	36	90	3600 x 2000 Extension	X	1270	1500	1610	X	X
	70	150	4000 x 2000 Extension	X	1480	1610	1920	X	X
	45	150	6000 x 2400 Extension	X	X	X	X	3600	3800
	36	150	7200 x 2400 Extension	X	X	X	X	3800	4200

The lowest kPa should be used as Safety Working Load when panels are combined
Weights include 4 Panels and Corner Spreaders

Shield Using High Clear Bars	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)
	36	90	3600 x 2400 Lower	2100-4000
	70	150	4000 x 2400 Lower	
	45	150	6000 x 2400 Lower	
	36	150	7200 x 2400 Lower	

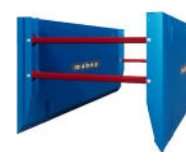
SHIELDS



Standard Base with Accrow Struts



Manhole Base with standard bars



Shield with standard bars



Shield with high clear bars



Square box with Corner Spreader

COMPONENTS



Strut 100 x 100 x 9 SHS
Strut 150 x 100 x 9 RHS



0.6m to 0.9m Accrow
0.9m to 1.8m Accrow



Highclear Bars



Corner Spreader



Extension Connector

VERSA SHIELD BOX WEIGHTS SUMMARY TABLES

Built Up Weights (kg)

Manhole	kPa Rating	Panel Width (mm)	Panel Type	Strut Size 1000 mm	Double Strut (1350mm)
	56	95	2400 x 2400 Base	1450	1370
	56	95	3000 x 2400 Base	1580	1500

Shield Using Standard 5 Inch Bars (141.3 CHS)	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)															
				600	700	800	1000	1200	1500	1800	2000	2200	2500	3000	3200	3500	3800	4000	
				55	84	2000 x 2000 Lower	460	470	480	510	540	570	610	630	660	700	760	780	820
44	84	2400 x 2400 Lower	590	600	610	640	670	700	740	760	790	830	890	910	950	990	1010		
44	84	2400 x 2000 Extension	500	510	520	550	580	610	650	670	700	740	800	820	860	900	920		
35	84	3000 x 2000 Lower	700	710	720	750	780	810	850	870	900	940	1000	1020	1060	1100	1120		
35	84	3000 x 2000 Extension	700	710	720	750	780	810	850	870	900	940	1000	1020	1060	1100	1120		
58	130	4000 x 2400 Lower	1170	1180	1190	1220	1250	1280	1320	1340	1370	1410	1470	1490	1530	1570	1590		
58	130	4000 x 2000 Extension	1120	1130	1140	1170	1200	1230	1270	1290	1320	1360	1420	1440	1480	1520	1540		

Shield Using Standard 8 Inch Bars (219.1 CHS)	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)																	
				600	800	1000	1200	1400	1500	2000	2500	2800	3000	3500	3800	4000	4500	5000	5500	5800	6000
				99	181	5000 x 2400 Lower	2260	2310	2360	2420	2470	2500	2620	2760	2830	2880	3020	3090	3140	3280	3400
109	181	5000 x 2000 Extension	2080	2130	2180	2240	2290	2320	2440	2580	2650	2700	2840	2910	2960	3100	3220	3360	3430	3480	
36	181	7200 x 2400 Lower	3560	3610	3660	3720	3770	3800	3920	4060	4130	4180	4320	4390	4440	4580	4700	4840	4910	4960	
36	181	7200 x 2400 Extension	3560	3610	3660	3720	3770	3800	3920	4060	4130	4180	4320	4390	4440	4580	4700	4840	4910	4960	

TYPE 1 High Clear Bars 5 Inches	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)																	
				600	1000	1200	1500	1800	2000	2500	2800	3000	3500	3800	4000	4500	4800	5000	5500	5800	6000
				55	84	2000 x 2000 Lower	1320	1340	1340	1350	1360	1370	1380	1390	1400	1410	1420	1430	X	X	X
44	84	2400 x 2400 Lower	1450	1470	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	X	X	X	X	X	X	
35	84	3000 x 2000 Lower	1560	1580	1580	1590	1600	1610	1620	1630	1640	1650	1660	1670	X	X	X	X	X	X	
26	142	4000 x 2400 Lower	2030	2050	2050	2060	2070	2080	2090	2100	2110	2120	2130	2140	X	X	X	X	X	X	
TYPE 1 High Clear Bars 8 Inches	50	181	5000 x 2400 Lower	3500	3530	3540	3560	3580	3590	3630	3650	3660	3690	3710	3720	3760	3780	3790	3820	3840	3850
	36	181	7200 x 2400 Lower	4800	4830	4840	4860	4880	4890	4930	4950	4960	4990	5010	5020	5060	5080	5090	5120	5140	5150

TYPE 2 Steel High Clear Bars 8 Inches	kPa Rating	Panel Width (mm)	Panel Type	Strut Size 8"										
				1000	1500	2000	2500	3000	3500	3800	4000	5000	5800	6000
				99	181	5000 x 2400 Lower	4580	5260	5460	6140	5980	6260	6800	6920
36	181	7200 x 2400 Lower	5880	6560	6760	7440	7280	7560	8100	8220	8640	9040	9180	

* It is possible to have additional strut widths in high clears if you don't need an extension box

Square Box Using 5" Corner Spreader	kPa Rating	Panel Width (mm)	Panel Type	Weight (kg)
				55
44	84	2400 x 2400 Lower	1240	
44	84	2400 x 2000 Extension	1060	
35	84	3000 x 2000 Lower	1460	
35	84	3000 x 2000 Extension	1460	
58	142	4000 x 2400 Lower	2400	
58	142	4000 x 2000 Extension	2300	
Square Box Using 8" Corner Spreader	99	181	5000 x 2400 Lower	4660
	109	181	5000 x 2000 Extension	4300
	36	181	7200 x 2400 Lower	7260
	36	181	7200 x 2400 Extension	7260

Weights include 4 Panels and Corner Spreaders

Typical Single High Clear Bars	High Arch Combination		Internal Width (mm)	Arch Weight (kg)
	Haunch + Haunch		1000	1240
	Haunch + Haunch + 0.5m ext		1500	1572
	Haunch + Haunch + 1.0m ext.		2000	1680
	Haunch + Haunch + 1.0m ext + 0.5m ext.		2500	2012
	Haunch + Haunch + 2.0m ext.		3000	1940
	Haunch + Haunch + 2.5m ext.		3500	2075
	Haunch + Haunch + 2.5m ext + 0.3m ext.		3800	2345
	Haunch + Haunch + 2.5m ext + 0.5m ext.		4000	2407
	Haunch + Haunch + 3.5m ext + 0.5m ext.		5000	2616
	Haunch + Haunch + 4.5m ext + 0.3m ext.		5800	2820
	Haunch + Haunch + 4.5m ext + 0.5m ext.		6000	2882

Note:
When Use Type 1 High Clear Bars (5"), the increment between struts sizes Lower and upper is 500mm.
When Use Type 1 High Clear Bars (8"), the increment between struts Lower and upper is 750mm therefore use 250mm - 8" Strut Adaptor- to give 1000mm increment.

COMPONENTS



5" & 8" Standard Strut



Double Strut



5" & 8" Corner Spreader



8" Strut Adaptor HCB



"H" Bracket

Individual Panel Weights			
Panel Type	Length	Weight	Units
Manhole Base	2400	660	kg
Manhole Base	3000	725	kg
Lower	2200	190	kg
Lower	2400	255	kg
Extension	2400	210	kg
Lower	3000	310	kg
Extension	3000	310	kg
Lower	4000	545	kg
Extension	4000	520	kg
Lower	5000	1050	kg
Extension	5000	960	kg
Lower	7200	1700	kg
Extension	7200	1700	kg

Individual Components Weights		
Components	Weight	Units
141.3 CHS* (5")	31	kg/m
219.1 CHS** (8")	65	kg/m
5" Corner Spreader	27	kg
8" Corner Spreader	57	kg
"H" Bracket	7.5	kg
8" Strut Adaptor HCB	25.5	kg
Double Strut	90	kg

*141.3 used on 2.0m to 4.0m long boxes

**219.1 used on 5.0m and 7.2m long boxes

TYPE 2 Steel High Clear Bars Weights		
Components	Weight	Units
Haunch	620	kg
0.3m extension	270	kg
0.5m extension	332	kg
1.0m extension	440	kg
2.0m extension	700	kg
2.5m extension	835	kg
3.5m extension	1044	kg
4.5m extension	1310	kg

TYPE 1 High Clear Bars Weights		
Components	Weight	Units
5" High Clear Bars	230	kg
8" High Clear Bars	340	kg



SHIELDS



Manhole Base with standard bars



Shield with standard bars



Shield with High Clear Bars



Shield with Steel High Clear Bars



Square Box



TYPE 1 - 5" & 8" High Clear Bars



TYPE 2 - Steel High Clear Bars - 8"

HEAVY DUTY STEEL SHIELD BOX WEIGHTS SUMMARY TABLES

Built Up Weights (kg)

Manhole with Standard 5" bars	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)																
				1500	1800	2000	2200	2500	3000	3200	3500	3800	4000							
103	104	2400 x 2400 Base	2540	2630	2650	2680	2710	2780	2800	2840	2880	2900								

Shield Using Standard 8 Inch Bars (219.1 CHS)	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)																
				600	800	1000	1200	1400	1500	2000	2500	2800	3000	3500	3800	4000	4500	5000	5500	5800
88	104	4000 x 2400 Lower	2930	2980	3030	3090	3140	3160	3290	3420	3500	3550	3680	3760	3810	3940	4070	4200	4280	4330
100	104	4000 x 2000 Extension	2620	2670	2720	2780	2830	2850	2980	3110	3190	3240	3370	3450	3500	3630	3760	3890	3970	4020
60	104	5000 x 2400 Lower	3490	3540	3590	3650	3700	3720	3850	3980	4060	4110	4240	4320	4370	4500	4630	4760	4840	4890
61	104	5000 x 2000 Extension	3040	3090	3140	3200	3250	3270	3400	3530	3610	3660	3790	3870	3920	4050	4180	4310	4390	4440
60	155	6000 x 2400 Lower	4530	4580	4630	4690	4740	4760	4890	5020	5100	5150	5280	5360	5410	5540	5670	5800	5880	5930
62	155	6000 x 2400 Extension	4040	4090	4140	4200	4250	4270	4400	4530	4610	4660	4790	4870	4920	5050	5180	5310	5390	5440

TYPE 1 High Clear Bars 8 Inches	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)																
				600	1000	1200	1500	1800	2000	2500	2800	3000	3500	3800	4000	4500	4800	5000	5500	
88	104	4000 x 2400 Lower	4170	4200	4210	4230	4250	4260	4300	4320	4330	4360	4380	4390	4430	4450	4460	4490		
60	104	5000 x 2400 Lower	4730	4760	4770	4790	4810	4820	4860	4880	4890	4920	4940	4950	4990	5010	5020	5050		
60	155	6000 x 2400 Lower	NOT COMPATIBLE WITH SHIELD 6.0m LONG																	

TYPE 2 Steel High Clear Bars 8 Inches	kPa Rating	Panel Width (mm)	Panel Type	Strut Size (mm)													
				1000	1500	2000	2500	3000	3500	3800	4000	5000	5800	6000			
88	104	4000 x 2400 Lower	5250	5920	6130	6800	6650	6920	7460	7590	8010	8410	8540				
60	104	5000 x 2400 Lower	5810	6480	6690	7360	7210	7480	8020	8150	8570	8970	9100				
60	155	6000 x 2400 Lower	6850	7520	7730	8400	8250	8520	9060	9190	9610	10010	10140				

* It is possible to have additional strut widths in high clears if you don't need an extension box

Typical Single High Clear Bars	High Arch Combination		Internal Width (mm)	Arch Weight (kg)
	Haunch + Haunch		1000	1240
	Haunch + Haunch + 0.5m ext.		1500	1572
	Haunch + Haunch + 1.0m ext.		2000	1680
	Haunch + Haunch + 1.0m ext + 0.5m ext.		2500	2012
	Haunch + Haunch + 2.0m ext.		3000	1940
	Haunch + Haunch + 2.5m ext.		3500	2075
	Haunch + Haunch + 2.5m ext + 0.3m ext.		3800	2345
	Haunch + Haunch + 2.5m ext + 0.5m ext.		4000	2407
	Haunch + Haunch + 3.5m ext + 0.5m ext.		5000	2616
	Haunch + Haunch + 4.5m ext + 0.3m ext.		5800	2820
Haunch + Haunch + 4.5m ext + 0.5m ext.		6000	2882	

Square Box Using 5" Corner Spreader	kPa Rating	Panel Width (mm)	Panel Type	Weight (kg)
	88	104	4000 x 2400 Lower	6000
	100	104	4000 x 2000 Extension	5380
	60	104	5000 x 2400 Lower	7120
	61	104	5000 x 2000 Extension	6220
	60	155	6000 x 2400 Lower	9200
	62	155	6000 x 2400 Extension	8220

Weights include 4 Panels and Corner Spreaders



5" & 8" Standard Strut



8" Strut Extensor HCB



"H" Bracket



8" Corner Spreader



TYPE 1 8" High Clear Bars



TYPE 2 Steel High Clear Bars - 8"



SHIELDS

Individual Panel Weights

Panel Type	Length	Weight	Units
Manhole Base	2400	1200	kg
Lower	4000	1385	kg
Extension	4000	1230	kg
Lower	5000	1665	kg
Extension	5000	1440	kg
Lower	6000	2185	kg
Extension	6000	1940	kg



Manhole Base with standard bars



Shield with standard bars



Shield with High Clear Bars



Shield with Steel High Clear Bars



Square Box

Individual Components Weights

Components	Weight	Units
141.3 CHS* (5")	31	kg/m
219.1 CHS** (8")	65	kg/m
8' corner spreader	57	kg
"H" Bracket	7.5	kg
8" Strut Extensor HCB	25.5	kg

*141.3 used on Manhole Boxes

**219.1 used on Shields

TYPE 1 High Clear Bars Weights

Components	Weight	Units
8" High Clear Bars	340	kg

TYPE 2 Steel High Clear Bars Weights

Components	Weight	Units
Haunch	620	kg
0.3m extension	270	kg
0.5m extension	332	kg
1.0m extension	440	kg
2.0m extension	700	kg
2.5m extension	835	kg
3.5m extension	1044	kg
4.5m extension	1310	kg