

Mini Sub-station Plinths and Bases

An electrical contractor has three major problems in this area. These are :

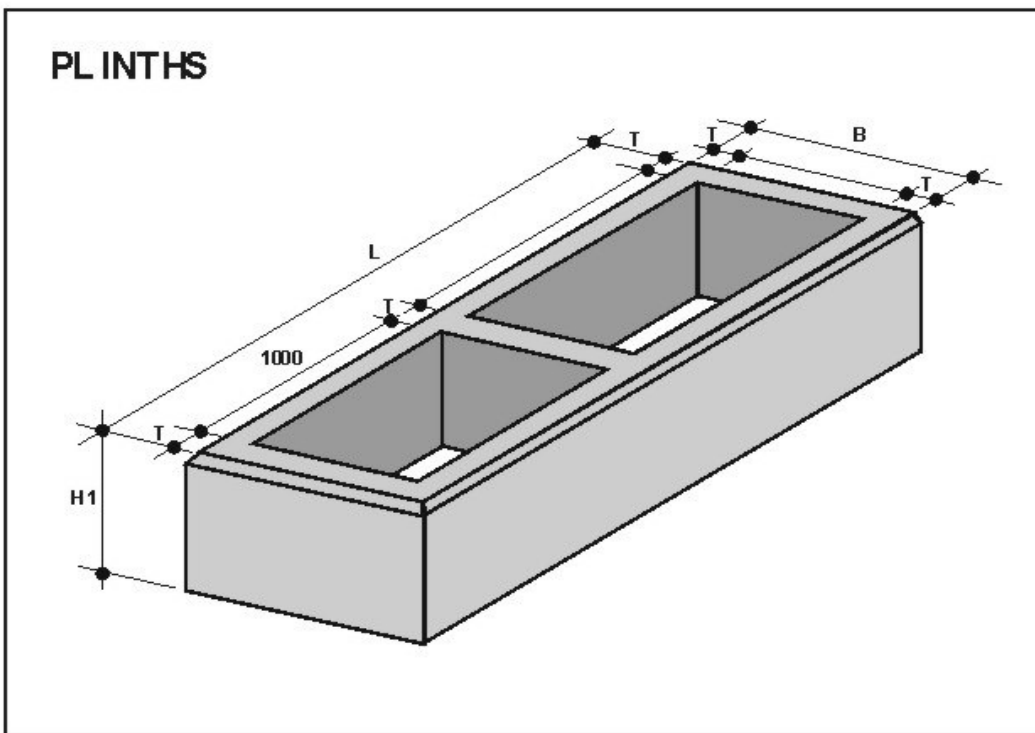
- (a) He is not organised to deal with concrete and shuttering on a large contract.
- (b) He cannot get into the trench to compact under the mini-sub.
- (c) He does not have the time or the equipment.

The result is, the eventual subsidence of the concrete foundation under the large mass of the mini-sub and therefore an unsightly tilted structure.

Precast units offer an economical solution to both these problems.

Lack of standardisation by the manufacturers of electrical equipment does, however, pose a problem for the precast concrete suppliers.

The following range of plinths and bases has been built up over the years and is offered to him to be used at his discretion.



Kiosk Plinths

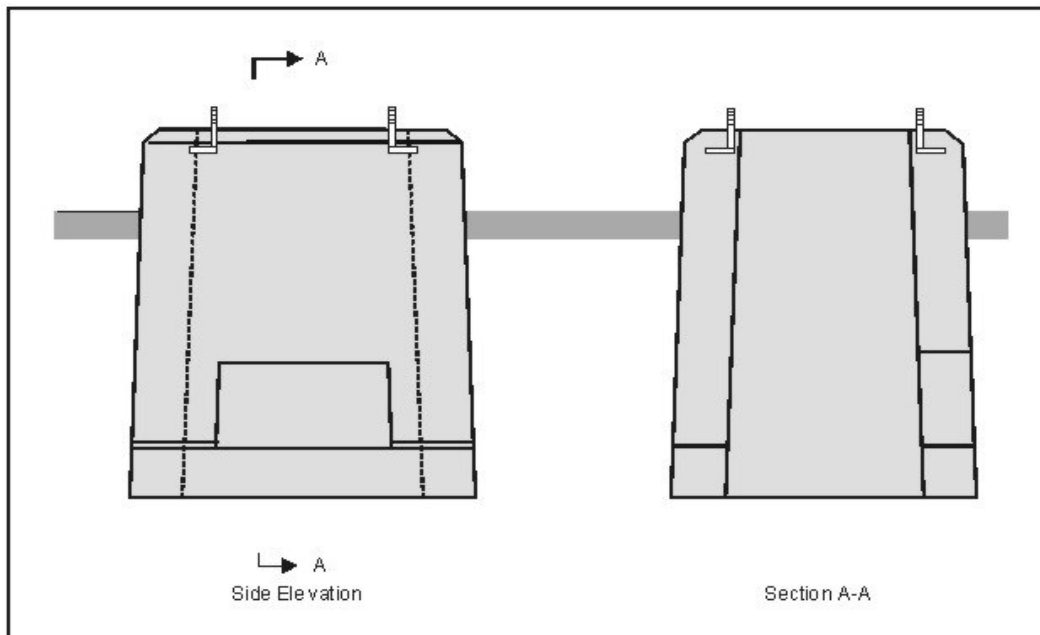
SPECIFICATION

1. Scope- This specification covers precast concrete components for use as plinths and bases for kiosks and mini sub stations.
2. Materials - These shall comply with all the requirements laid down in S.A.B.S. 1083-1981 aggregates and SABS ENV 196 and 147 for cement.
3. General - All surfaces and edges shall be free from imperfections that will impair the serviceability of the structure. Craze cracks of a superficial nature and hair cracks of depth not exceeding one third of the wall thickness shall be permissible.
4. Dimensions - The actual dimensions shall not differ by more than the following values:

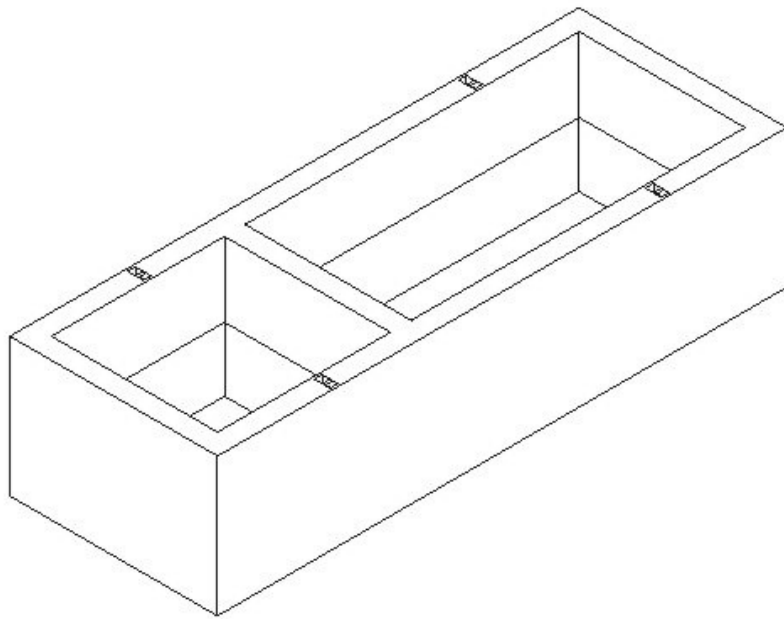
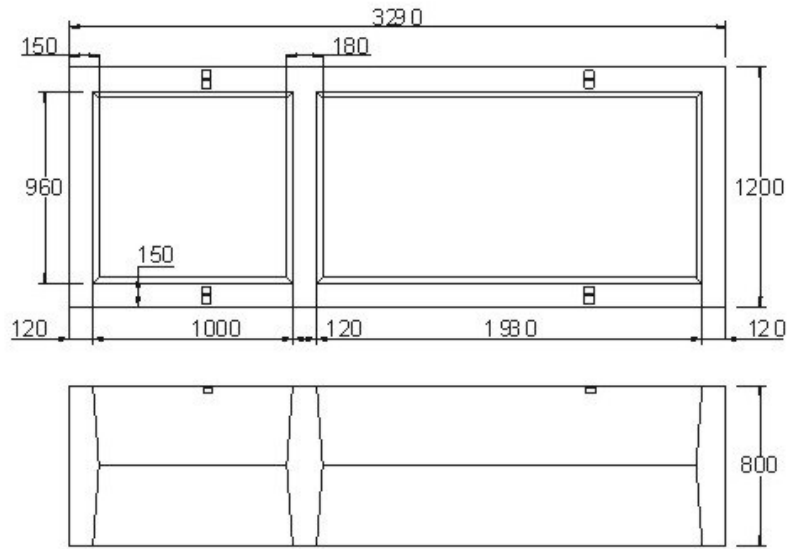
Length	- 13mm
Breadth	- 10mm
Wall Thickness	- 6mm
Height	- 5mm
5. Deviation from Straightness:

This shall not deviate by more than 5 mm per metre of length.
6. End Squareness:

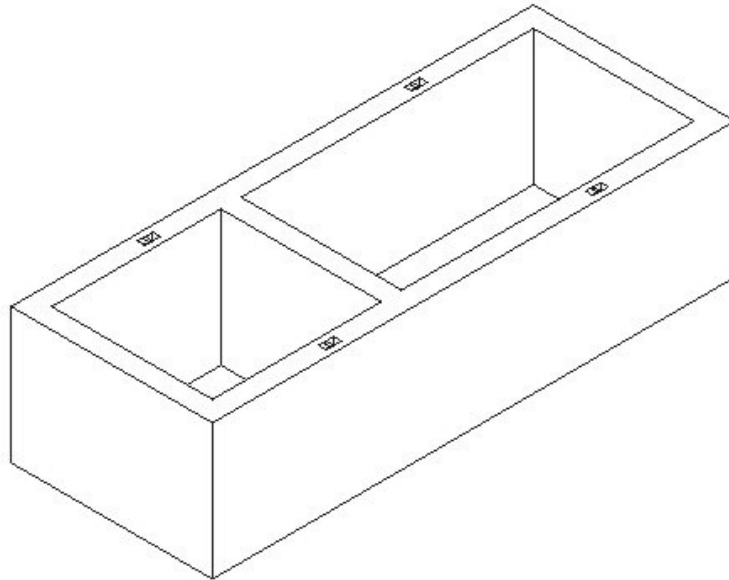
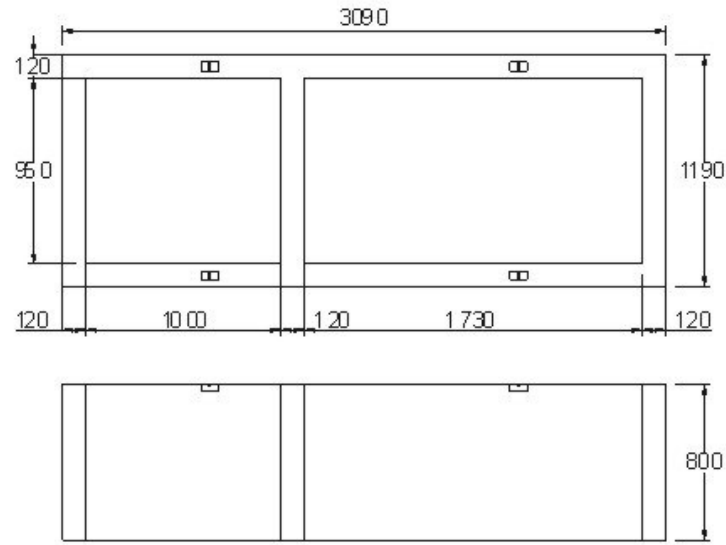
The maximum deviation from end squareness of the ends shall not exceed 6 mm.
7. Cover - The minimum thickness of the cover over all reinforcement shall be 10 mm.
8. Resistance to Proof Load - The assembled components shall be capable of supporting the specified proof load for each case as follows:
 - a) Kiosk: A uniformly distributed load of 80 kN.
 - b) Mini Sub Station: A uniformly distributed load of 300 kN.
9. Marking - The following information shall be indelibly marked on the plinths and bases:
 - a) The manufacturers name or trade name.
 - b) The date of manufacture.




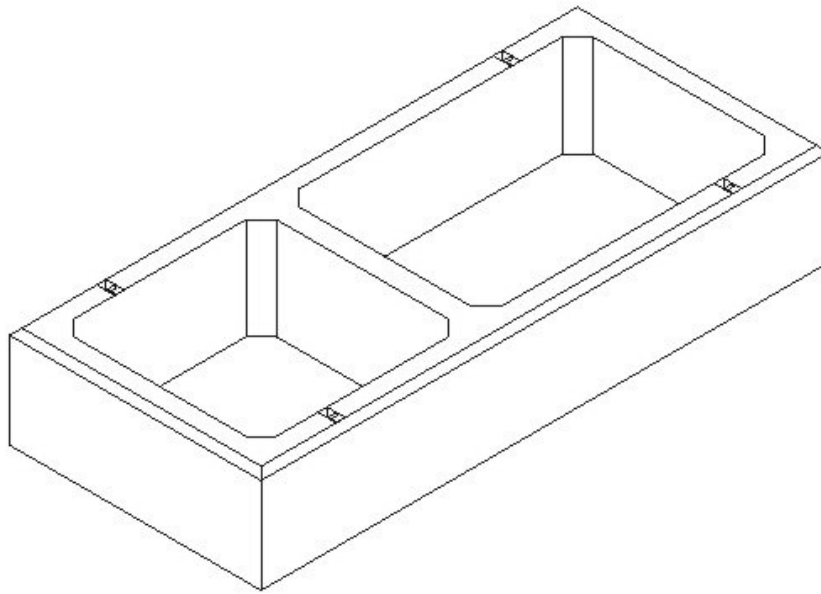
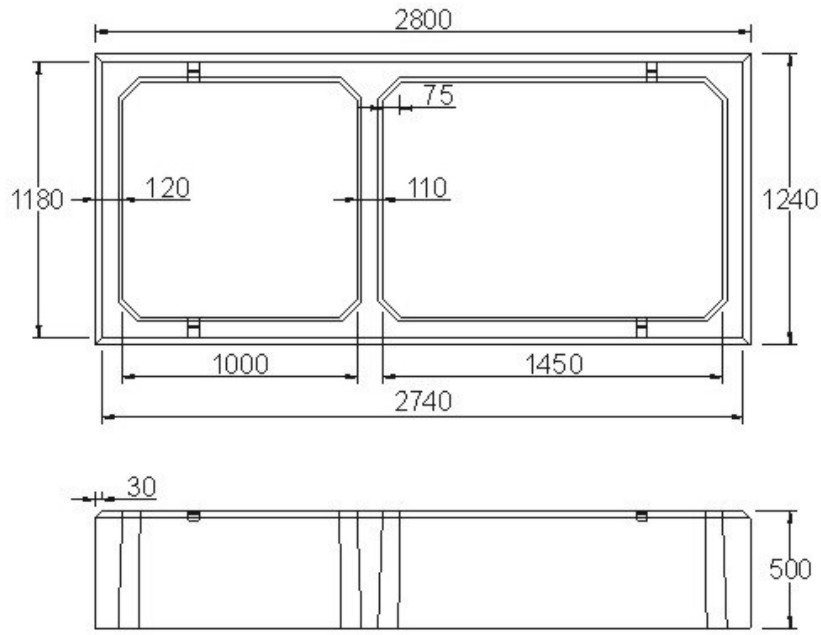
Plinths								
Items	Dimensions			Mass	Manufacturer	DRWG No.	Type	KVA
	L	B	H					
P1	3290	1200	800	2460	Hawker Siddeley Transformers	A-7750	B	630 - 800
P2	3090	1190	800	2024	Hawker Siddeley Transformers	A-24026	B	315 - 1000
P2	3090	1190	800	2024	Hawker Siddeley Transformers	R-0083	B	100 - 630
P2	3090	1190	800	2024	AC Janse van Rensburg Ent.	M1601	B	
P2	3090	1190	800	2024	Megatron	MS-01	B	
P3	2000	1080	500	1023				
P4	2740	1180	500	1190	Hawker Siddeley Transformers	R-0033	B	50 - 500
P4 Mod	2310	1170	500	1330	Hawker Siddeley Switchgear	502012 / 7		
P5	1385	1170	450	742	Hawker Siddeley Switchgear	502011		
P5	1385	1170	450	742	Hawker Siddeley Switchgear	502095 / 9		
P6	1470	1290	500	1004	Steelcor	15-359-A4		
P7	1820	1410	300		Steelcor			
P8	1750	1100	350	1537		SCP Drwg		
P9	1050	450	700	390				
P10	2880	710	300	1220		32495	A	
P11	2570	1410	300	2666	Steelcor	15-316-A4		
P12	2890	1210	500	1410	Hawker Siddeley Transformers	R-0010	B	100-630
P13	3495	710	300	1379		32496	A	100
P14	1888	900	350	1006	Hawker Siddeley Switchgear	K4 Plinth		
P15	2960	1085	800	2066	Alstom Switchgear	Y920396	B	100-800
P16	2500	940	600	1290				
P17	1500	900	350	896	Hawker Siddeley Switchgear	K3 Plinth		
P18	2920	1140	500	1340		SCP Drwg		
P19	3110	1335	300	2200	Alstom Switchgear	GP87591G	B	500
P19	3110	1335	300	2200	Hawker Siddeley Transformers	A-24026	B	315-1000
P20A	1670	1380	300	1155				
P20	3100	1300	300	1900	Modified to P22	SCP Drwg		
P21	3200	1300	300	2750	Hawker Siddeley Transformers	D-DT-0859	B	
P22	3100	1300	300	1900	Hawker Siddeley & Alstom	SCP Drwg		
P23	1200	750	300	596		D-DT-0861		11 & 22kV
P24	1000	480	600	471		S / 6026		
P25	1500	1200	300	1614		D-DT-0863		11 & 22kV
P26	1000	600	300	382		D-DT-1010		
P27	2900	900	300	1260		D-DT-0859	A	11/ 22kV
P28	1500	1000	300	1190		D-DT-0864		100-1000
P29	1200	550	950	594				
P30	600	400	1000	256				
P31	2564	744	600	1164				
P32	1920	1240	500	1185		SCP Drwg		
P33	995	780	300	617	ABB Powertech - Desta	T1500		
P34	570	420	500	200		KP 1		
P35	700	420	500	226		KP 2		
P36	2505	1090	500	1220	Desta	4711 10359-1	B	315
P37	860	600	600	212	Gerni Industries	A3-7712		
P38	640	495	500	140	Gerni Industries	A3-4009/C		
P39	3360	550	300	754	Hawker Siddeley Transformers	R-0502	A	160-630
P40	770	650	250	277		SCP Drwg		
P41	850	450	150	108		E / LTD 257		
P42	810	600	150	114		E / LTD 258		
P43	1850	1200	300	1335		D-DT-0863		11 & 22kV




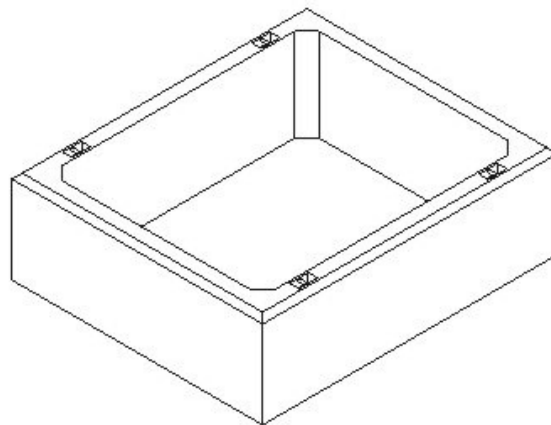
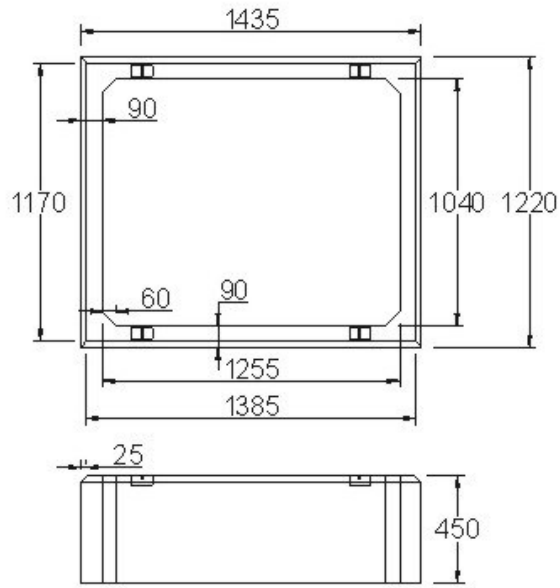
To Suit		Product no.		
Hawker Siddeley Transformers (A-7750)		0501000 P		
Product	Mould ref	Notes &Revision		DWG
	Code	05 01 000		
	Scale	1:30		
	Date	20 07 /04/25		
Plinth P 1	Mass	2460 kg		P1
3290x1200x800				



To Suit:			
Hawker Siddeley Transformers (A-24026) (R-0083)			
AC Janse van Rensburg Ent. (M1601)			
Megatron (MS-01)			
		Product no.	
		0501002 P	
Product	Mould ref	Notes & Revision	DWG
Plinth P2	Code 0501002		P2
3090x1190x800	Scale 1:30		
	Date 2007/04/25		
	Mass 20.24 kg		

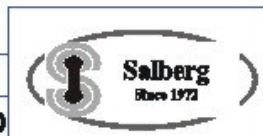


To Suit:		Product no.		
Hawker Siddeley Transformers (R-0033)		0501006 P		
Hawker Siddeley Switchgear (5020127)(5020137)				
Product	Mould ref	Notes & Revision	DWG P4	
Plinth P1	Code 0501006			
2800x1240x500	Scale 1:25			
	Date 2007.04/25			
	Mass 1190 kg			

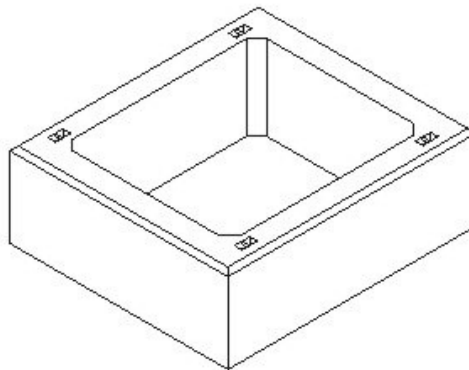
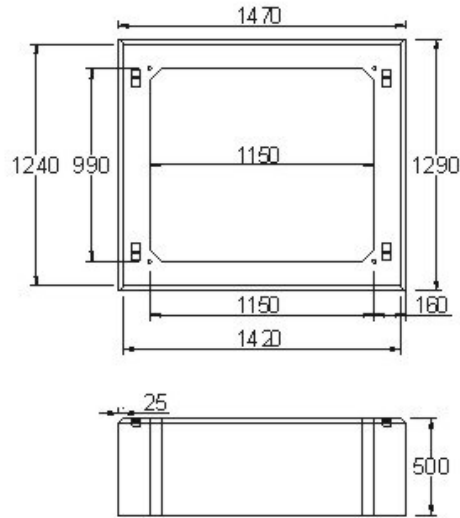


To Suit:
Hawker Siddley Switch gear (502011)
Hawker Siddley Switch gear (502095/9)

Product no.
0501010 P

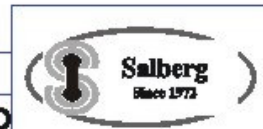


Product	Mould ref		Notes & Revision	DWG
	Code			
Plinth P5	Code	0501 010		P5
1435x1220x450	Scale	1:25		
	Date	2007/04/25		
	Mass	936 kg		

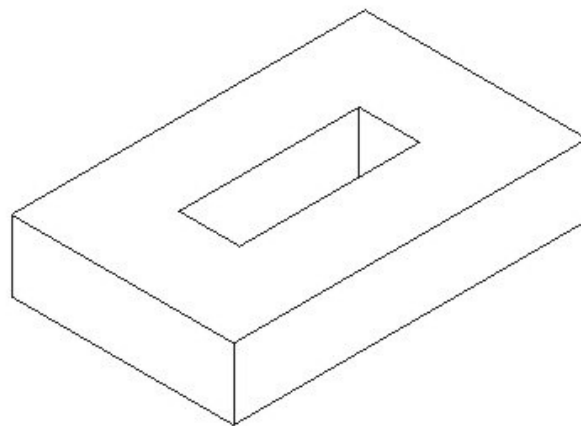
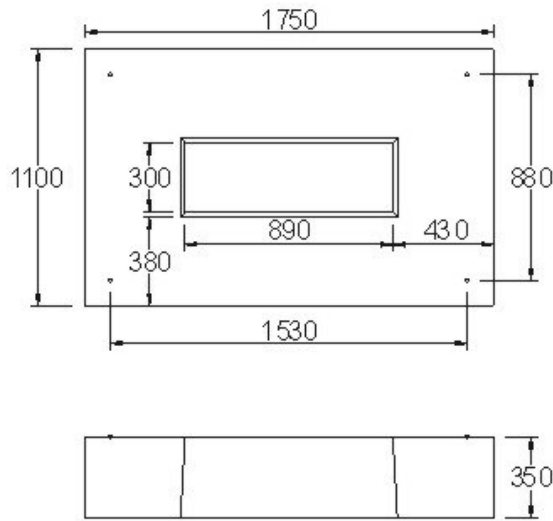


To Suit:
Tshwane (Steelcor) (15-359-A4)

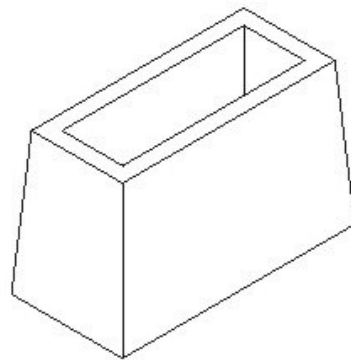
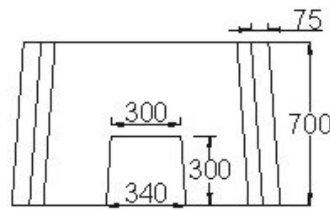
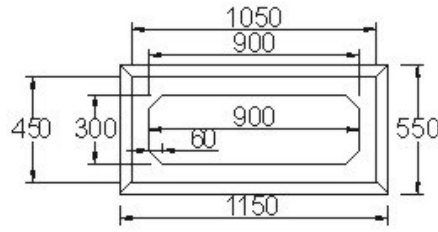
Product no.
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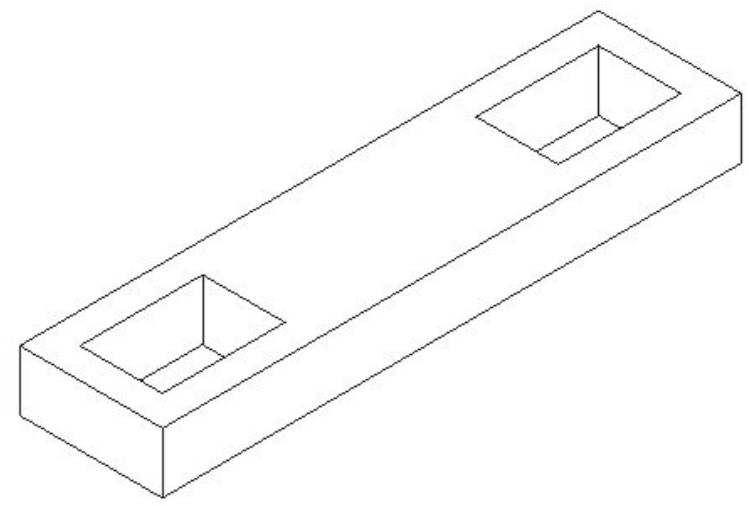
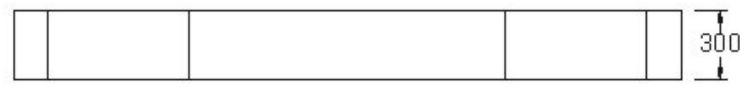
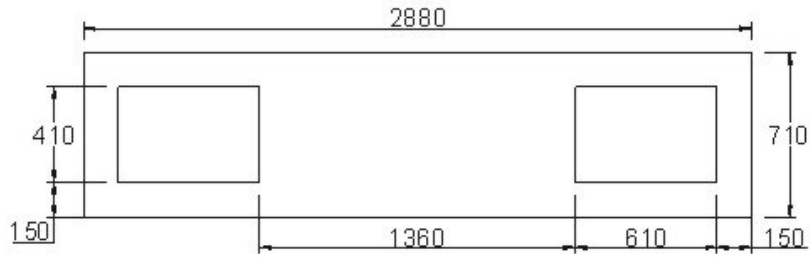
Product	Mould ref	Notes & Revision	DWG
Pli rth P6	Code 0501012		P6
1470x1290x500	Scale 1:30		
	Date 2007/04/25		
	Mass 1004 kg		



SCP Drwg		Product no.		
		0501016 P		
Product	Mould ref	Notes & Revision	DWG	
Plinth P8	Code 0501016		P8	
1750x1100x350	Scale 1:25			
	Date 2007/04/25			
	Mass 1537 kg			



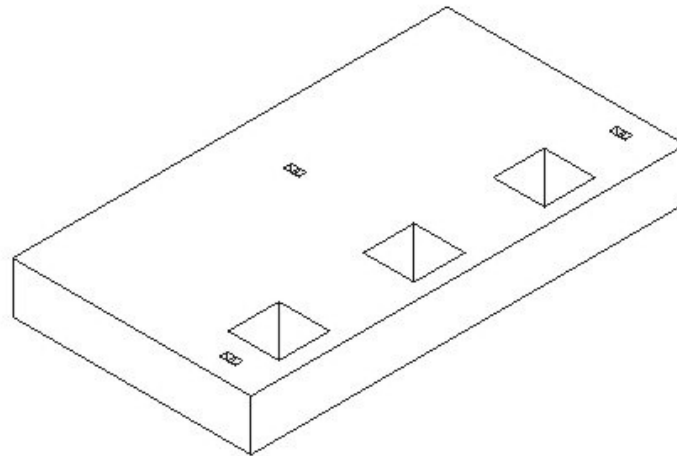
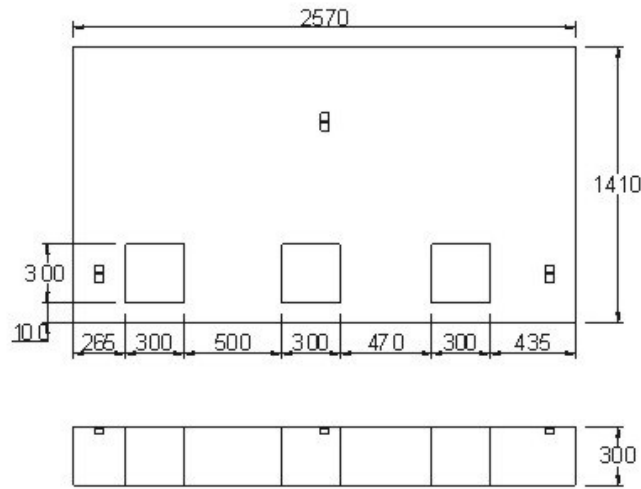
		Product no.		
		0501018 P		
Product	Mould ref	Notes & Revision	DWG	
Plinth P9	Code 0501018		P9	
1150x550x700	Scale 1:25			
	Date 2007/04/25			
	Mass 390 kg			



Product no.
0501020 P

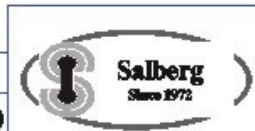


Product	Mould ref		Notes & Revision	DWG
Plinth P 10	Code	0501020		P10
2880x 710x300	Scale	1:25		
	Date	20 07/04/25		
	Mass	1220 kg		

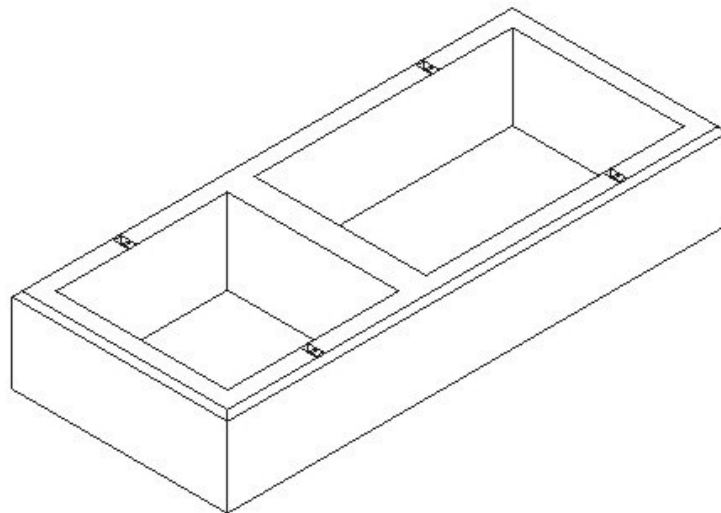
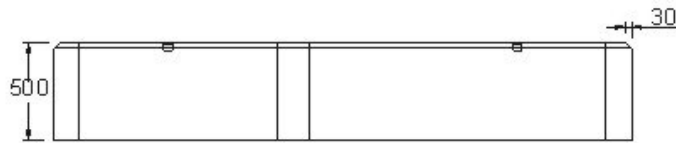
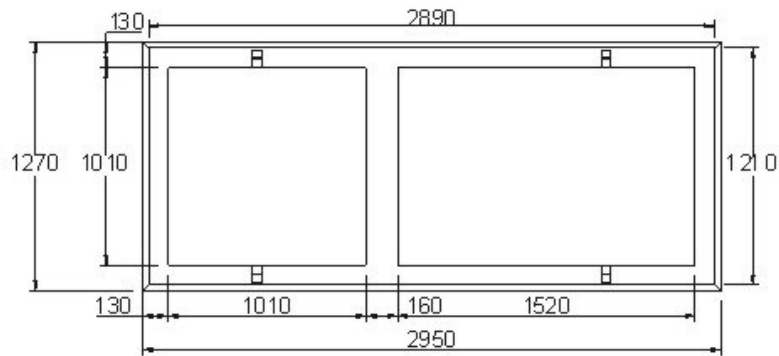


To Suit:
Steelcor (15-316 A4)

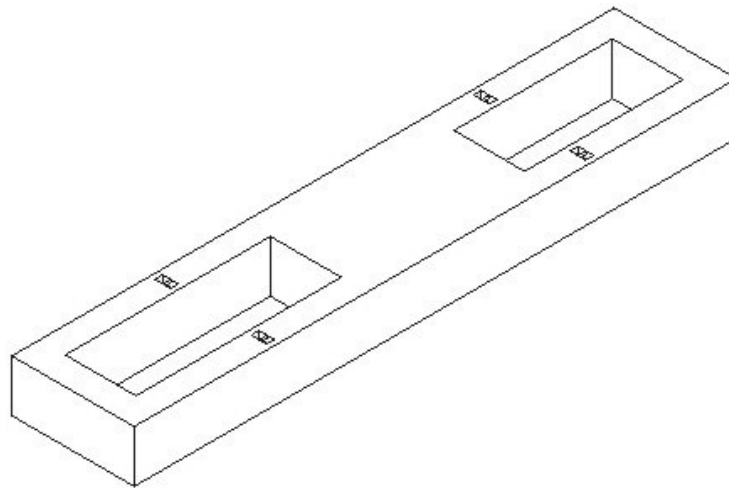
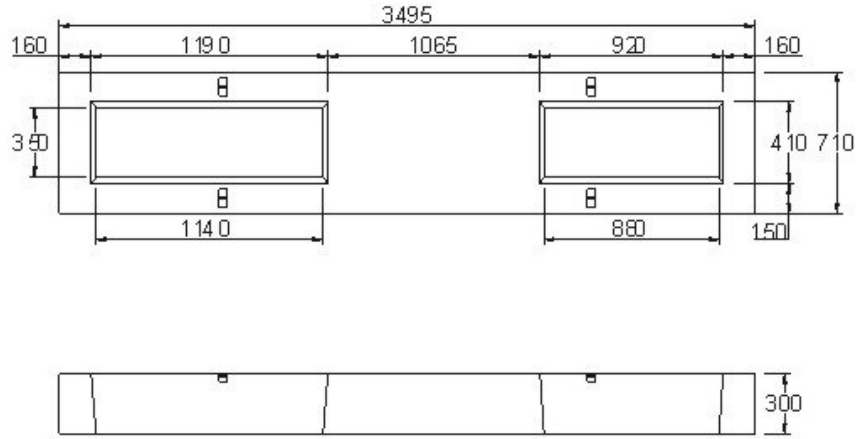
Product no.
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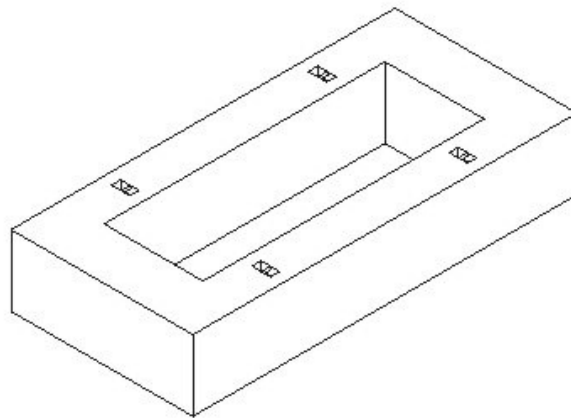
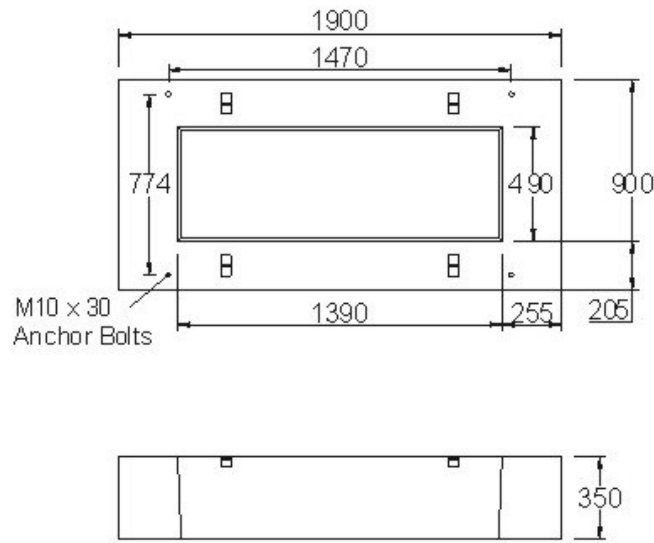
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	Code		
Plinth P11	Scale	1:30	P11
2570x1410x300	Date	2007/04/25	
	Mass	2666 kg	



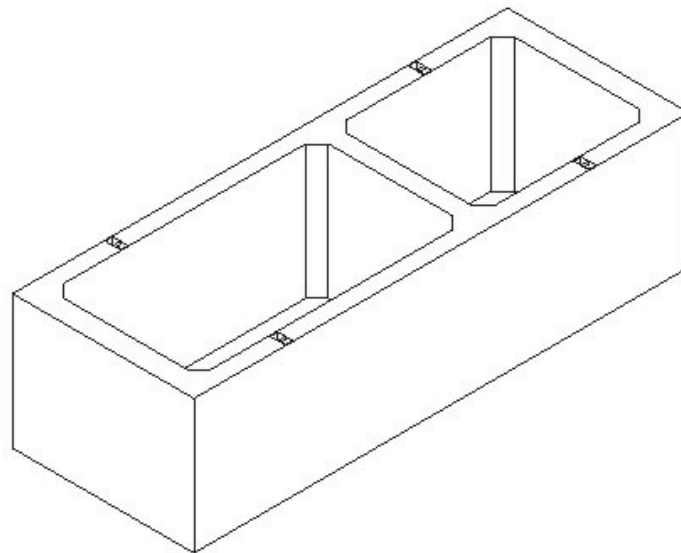
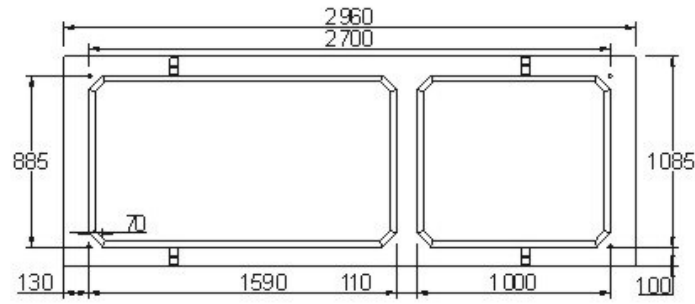
To Suit:		Product no.		
Hawker Siddeley Transformers (R-0010)		0501024 P		
Product	Mould ref	Notes & Revision	DWG	P12
Plinth P12	Code 0501024			
2950x1270x500	Scale 1:30			
	Date 2007.04/25			
	Mass 1410 kg			

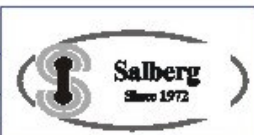


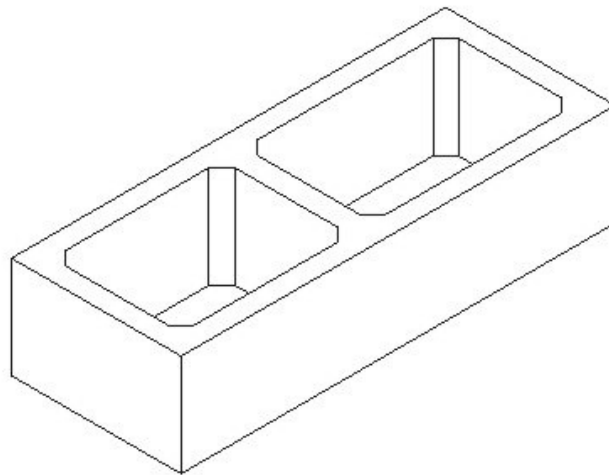
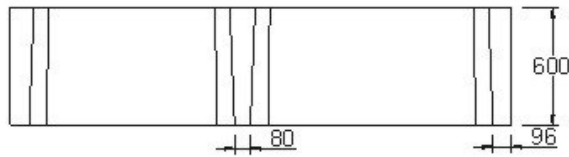
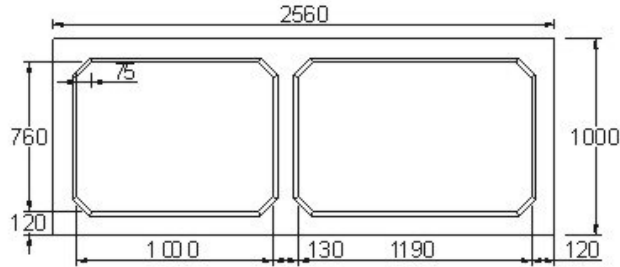
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		0501026 P		
Product	Mould ref	Notes &Revision	DWG	
Plinth P13	Code 0501026		P13	
3495x710x300	Scale 1:30			
	Date 20 07/04/2 5			
	Mass 1379 kg			



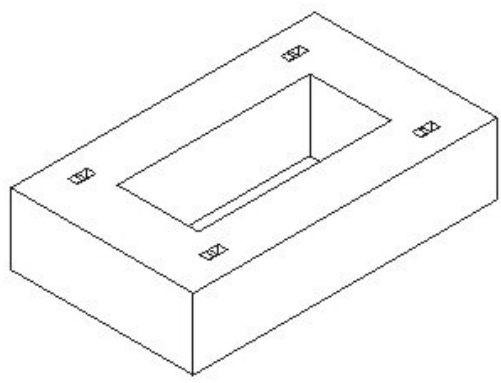
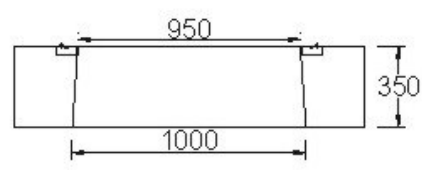
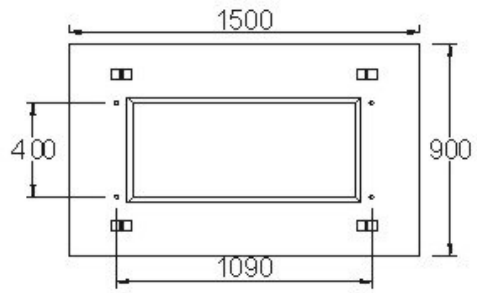
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Pretoria (Hawker Siddeley Switchgear) (K4 Plinth)		0501028 P		
Product	Mould ref		Notes & Revision	DWG
	Code	0501028		
	Scale	1:25		
	Date	2007/04/25		
Plinth P 14 1900x900x350	Mass	10.06 kg		P14



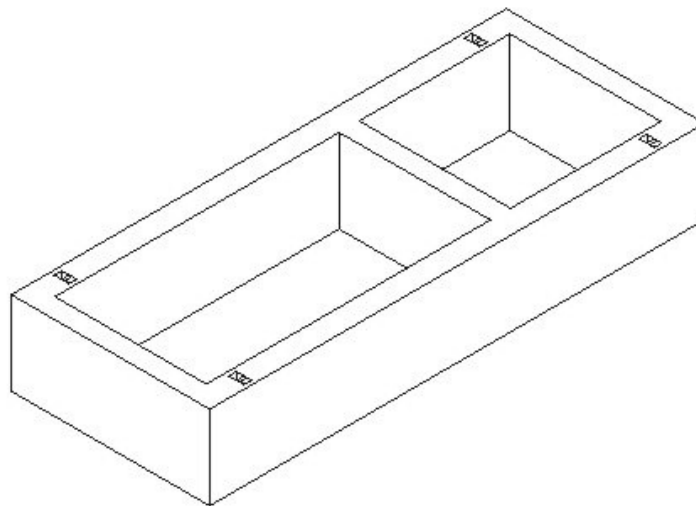
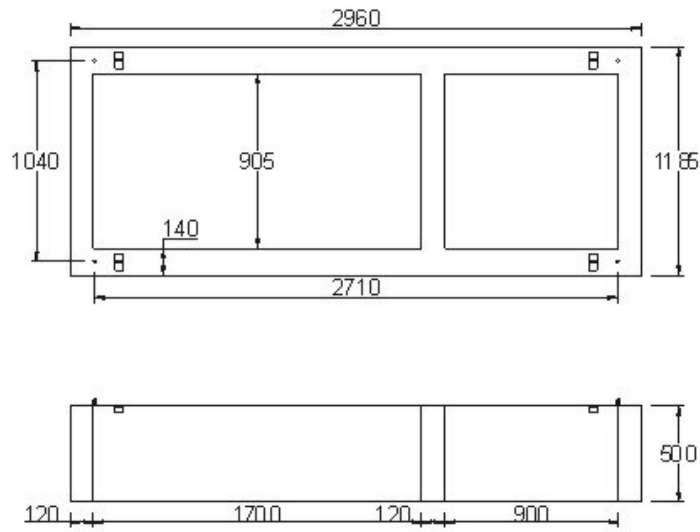
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Alstom Switchgear (Y920396)		0501030 P	
Product	Mould ref	Notes & Revision	DWG
Plinth P 15	Code 0501030		P15
2960x1085x800	Scale 1:30		
	Date 2007/04/25		
	Mass 2066 kg		



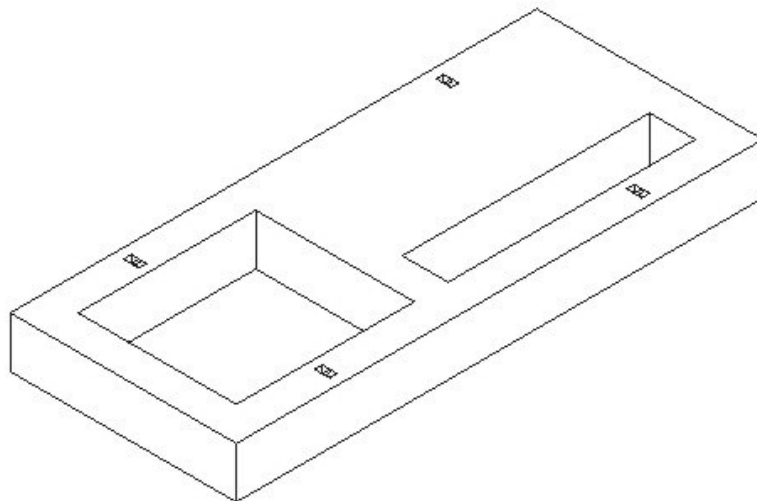
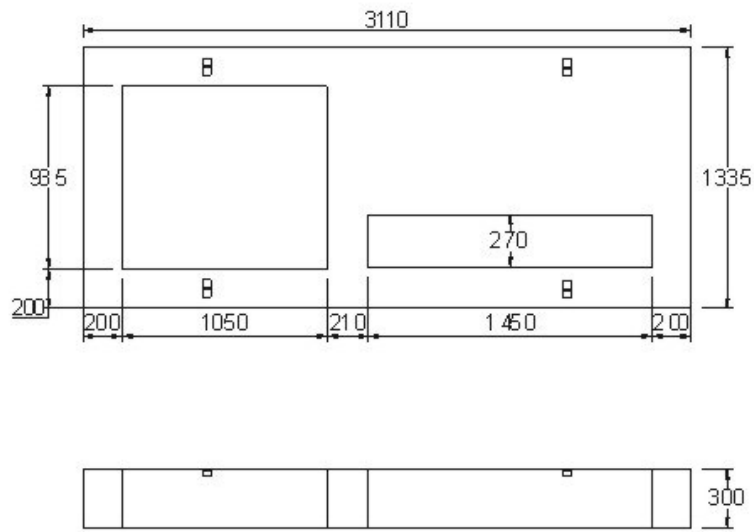
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		0501032 P		
Product	Mould ref	Notes & Revision	DWG	
Plinth P 16	Code 0501032		P16	
25.60x1000x600	Scale 1:30			
	Date 2007/04/25			
	Mass 1290 kg			



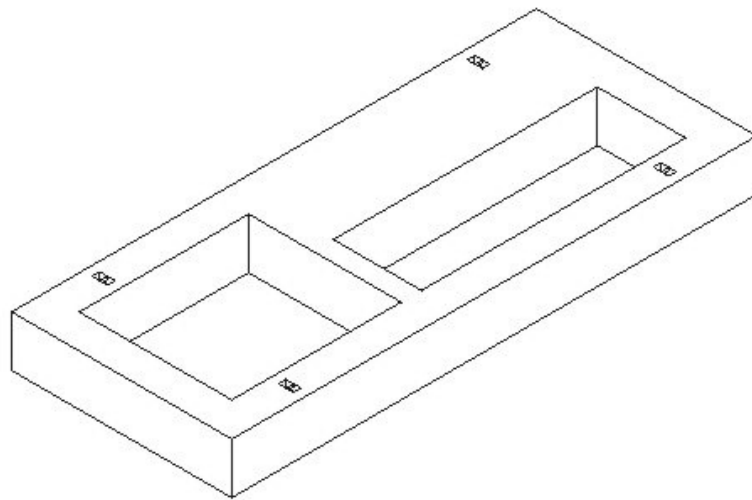
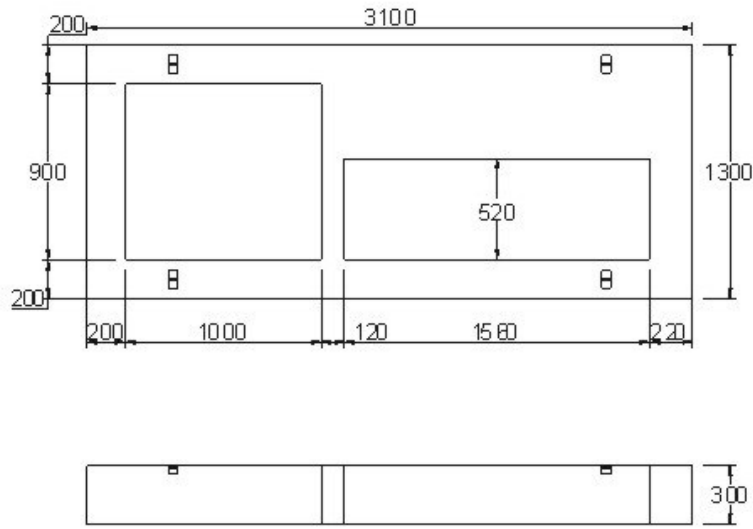
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Hawker Siddeley Switchgear (K3 Plinth)		0501034 P		
Product	Mould ref	Notes & Revision		DWG
Plinth P17	Code 0501034			P17
1500x900x350	Scale 1:25			
	Date 2007/04/25			
	Mass 886 kg			



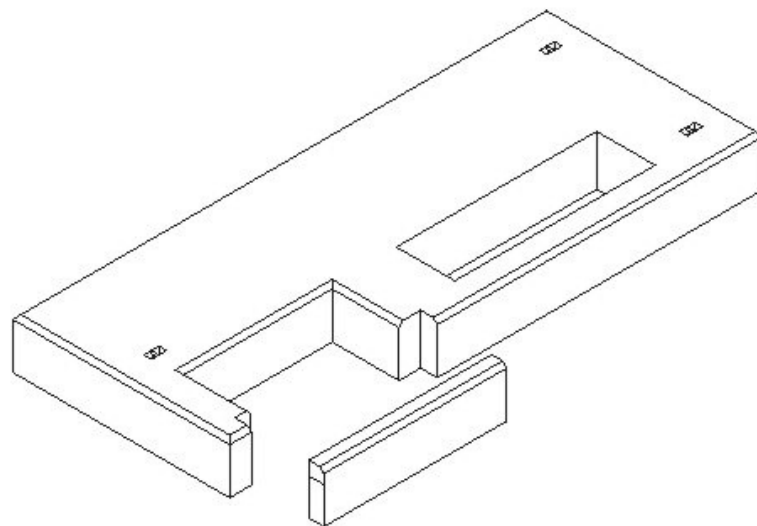
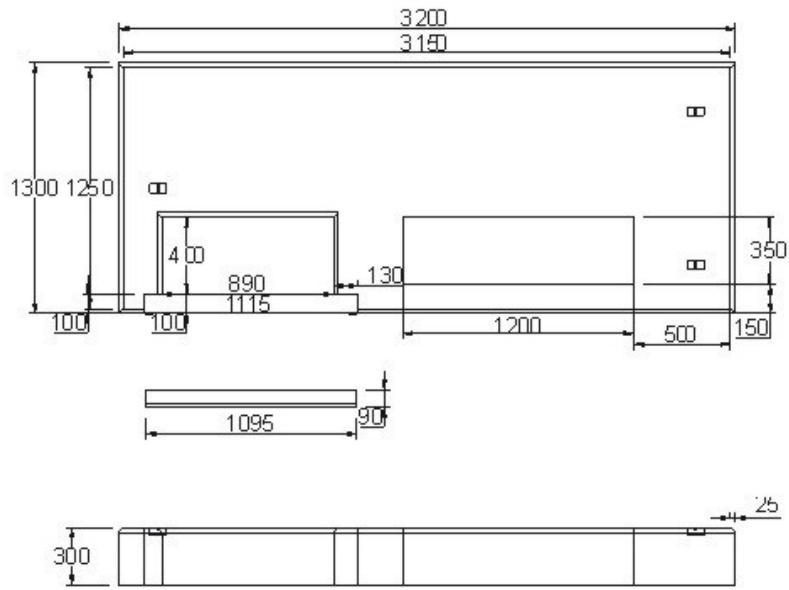
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Plinth P 18	Code	0501036		P18
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	Date	2007/04/25		
	Mass	1340 kg		



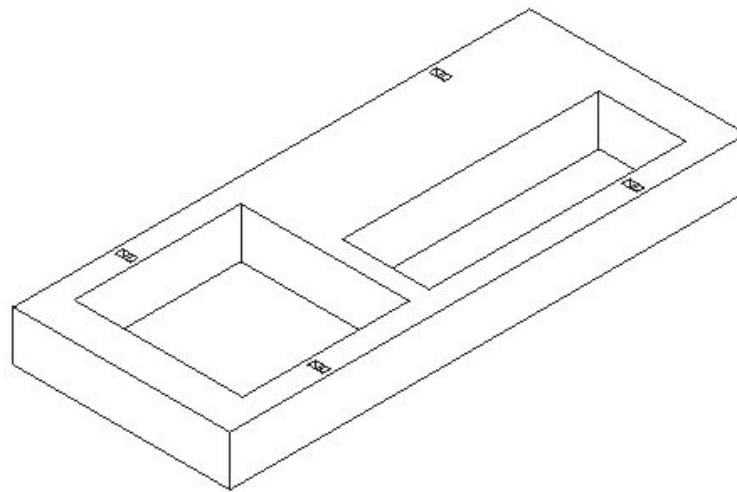
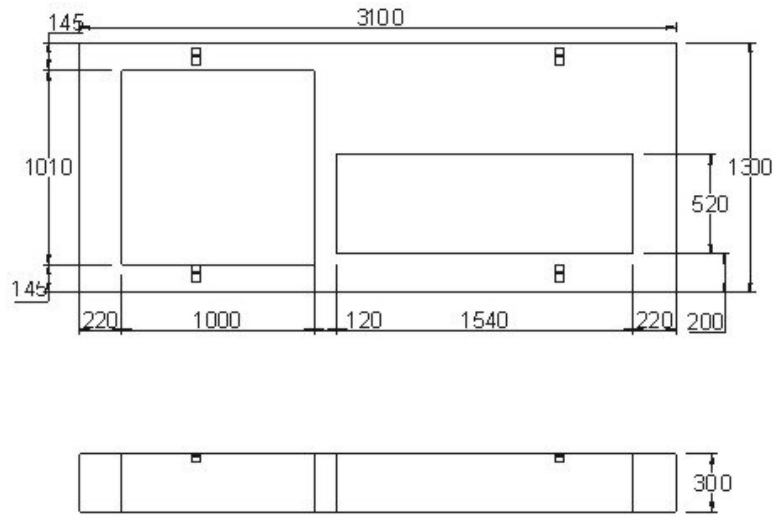
To Suit:		Product no.		
Alstom Switchgear (GP87591G)		0501038 P		
Hawker Siddeley Transformers (A-24 02B)				
Product	Mould ref	Notes & Revision	DWG	
Plinth P19	Code 0501038		P19	
3110x1335x300	Scale 1:30			
	Date 2007/04/25			
	Mass 2200 kg			



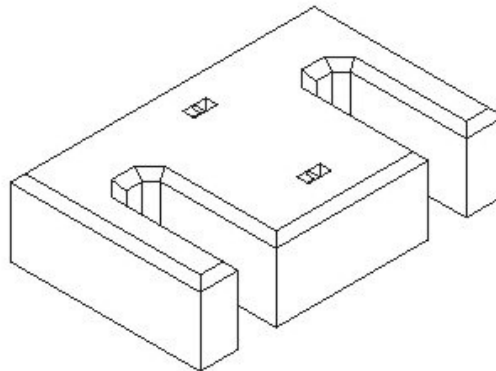
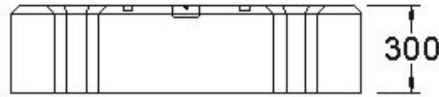
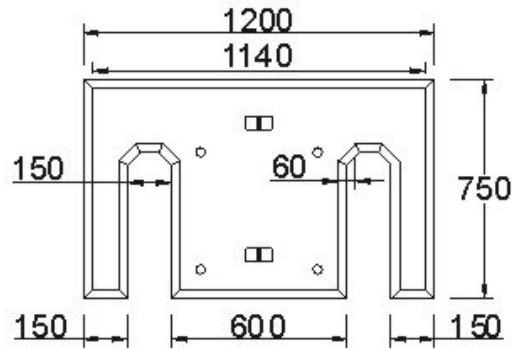
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		0501042 P		
Product	Mould ref	Notes & Revision	DWG	
Plinth P20	Code 0501042		P20	
3100x1300x300	Scale 1:30			
	Date 2007/04/25			
	Mass 1900 kg			



To Suit		
Eskom	(Hawker Siddley) (D-DT-0859)	
City Power	(CP S-A24026)	
Tshwane	(Z-0018)	
Product no.		0501044 P
Product		
Code	0501044	Notes & Revision
Scale	1:30	
Date	2007/04/25	
Mass	2690 kg	
Product		DWG
Plinth P 21		P21
3200x1300x300		



To Suit:		Product no.	
Tshw are (H.S, Alstom, Megatron) (SCP Drwg)		0501046 P	
Product	Mould ref	Notes &Revision	DWG
PI inth P 22	Code 0501046		P22
3100x1300x 300	Scale 1: 30		
	Date 2007/04/25		
	Mass 1764 kg		

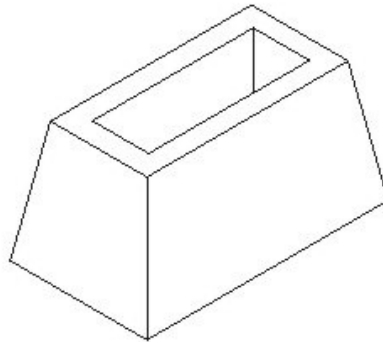
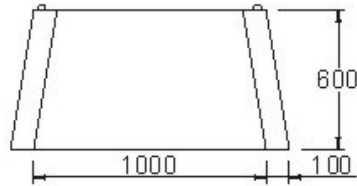
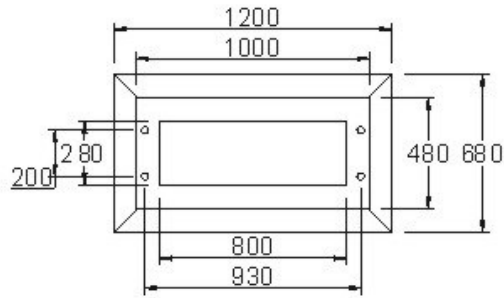


To Suit:
Eskom (D-DT-0861)

Product no.
0501048 P



Product	Mould ref	Notes & Revision	DWG
Plinth P23	Code 0501048		P23
1200x750x300	Scale 1:20		
	Date 2007/04/25		
	Mass 596 kg		

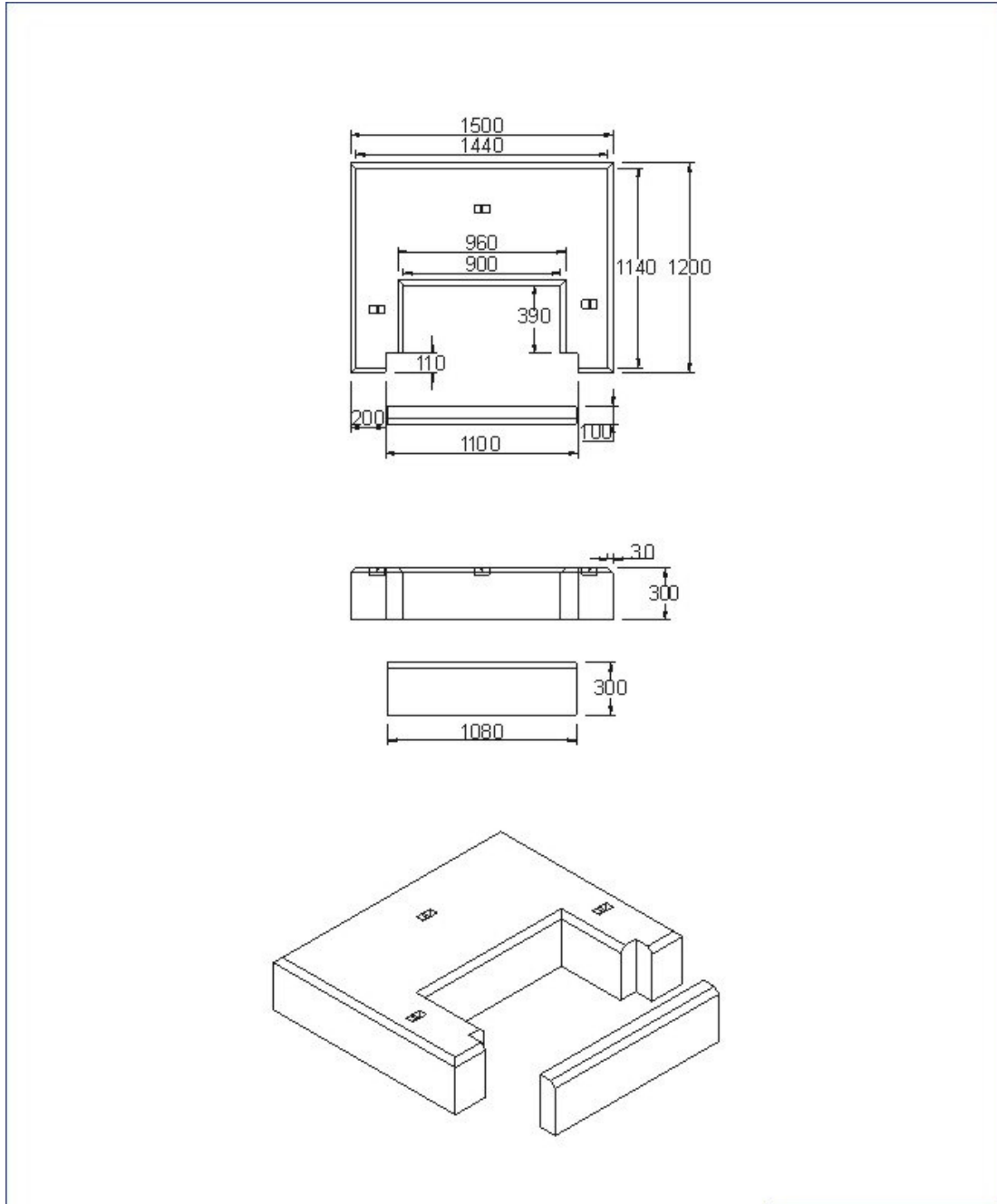


To Suit:
Germiston (Council) (S/6026)

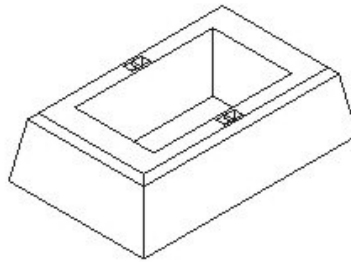
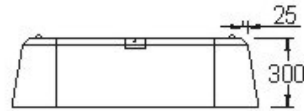
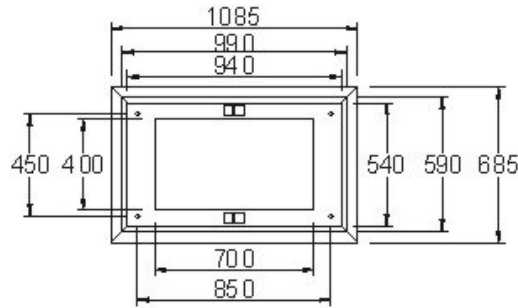
Product no.
0501050 P



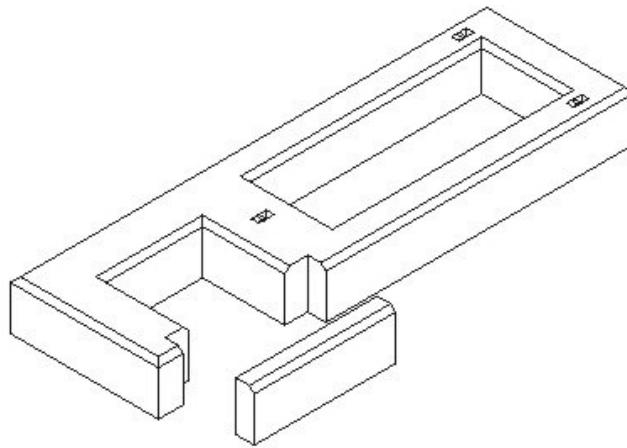
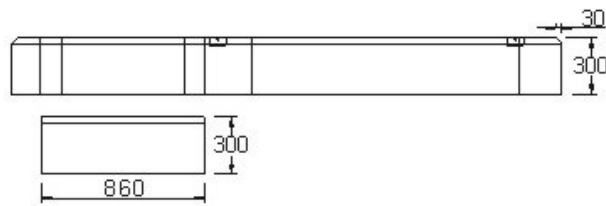
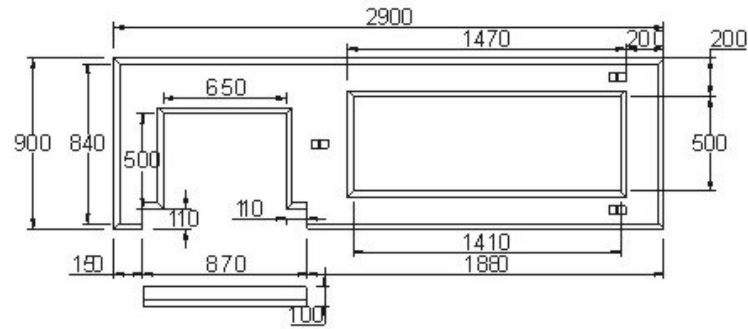
Product	Mould ref	Notes & Revision		DWG
	Plinth P 24 1000x480x600	Code 0501050 Scale 1:25 Date 2007/04/25 Mass 471 kg		




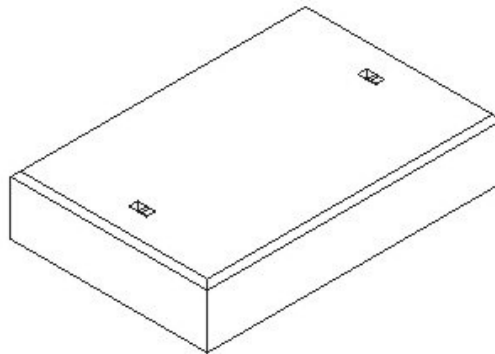
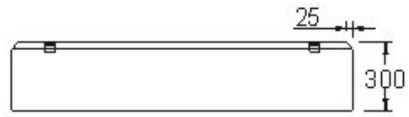
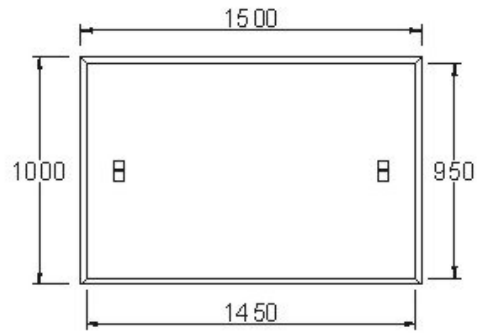
To Suit		Product no.		
Eskom (D-DT-0863)		0501052 P		
Product	Mould ref	Notes & Revision	DWG	
Plinth P 25	Code 0501052		P25	
1500x1200x300	Scale 1:30			
	Date 2007.04.25			
	Mass 16.14 kg			



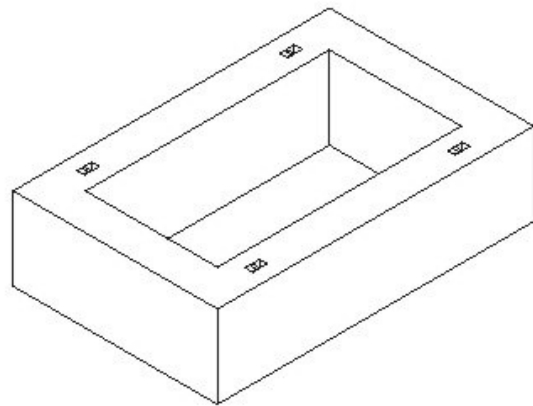
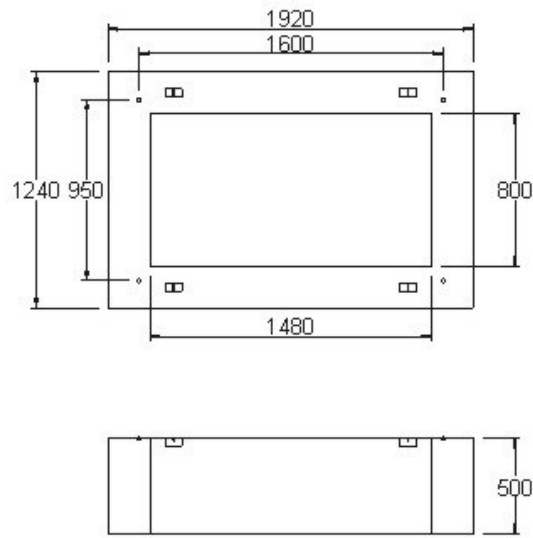
To Suit:		Product no.		
Eskom (D-DT-1010)		0501054 P		
Product	Mould ref		Notes &Revision	DWG
	Code	0501054		P26
	Scale	1: 25		
	Date	2007/04/25		
Mass	382 kg			



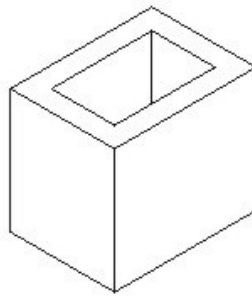
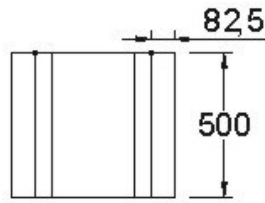
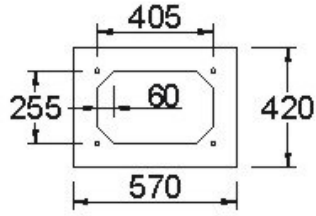
To Suit: Eskom (D-DT-0859)		Product no. 0501056 P		
Product	Mould ref	Notes & Revision	DWG	
Print hP 27	Code 0501056		P27	
2900x900x300	Scale 1:30			
	Date 2007/04/25			
	Mass 1260 kg			



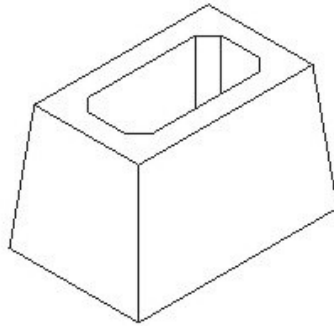
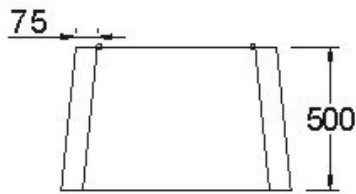
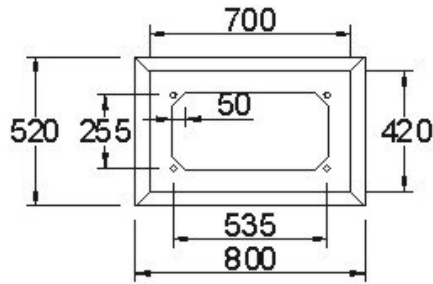
To Suit:		Product no.		
Eskom (D-D T-0864)		0501058 P		
Product	Mould ref		Notes & Revision	DWG
	Code	0501058		
	Scale	1:25		
	Date	2007/04/25		
Plinth P 28	Mass	1190 kg		P28
1500x1000x300				



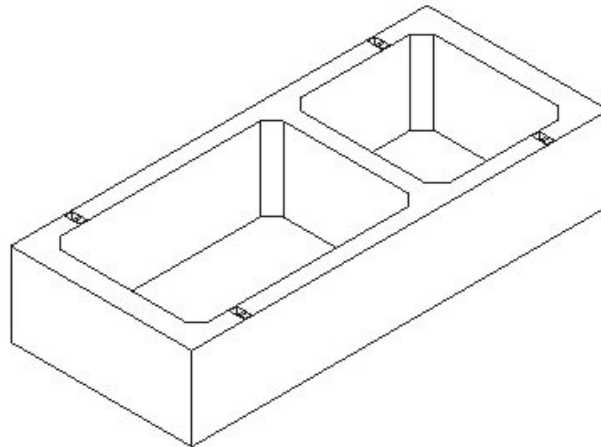
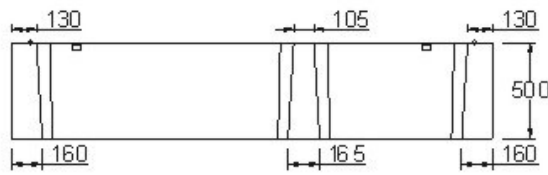
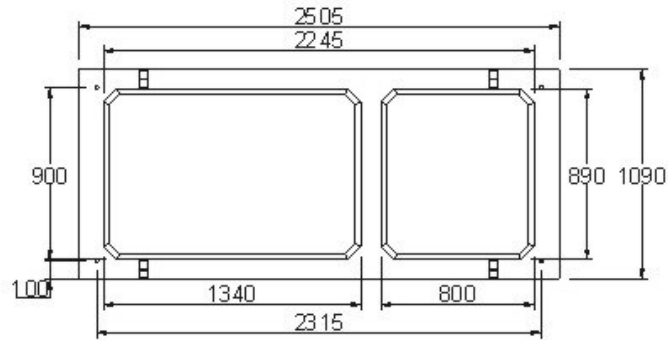
		Product no.		
		0501066 P		
Product	Mould ref		Notes &Revision	DWG
Plinth P 32	Code	0501066		P32
1920x1240x500	Scale	1:30		
	Date	2007/04/25		
	Mass	118.5 kg		



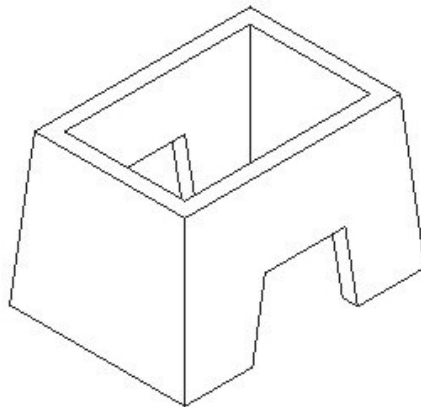
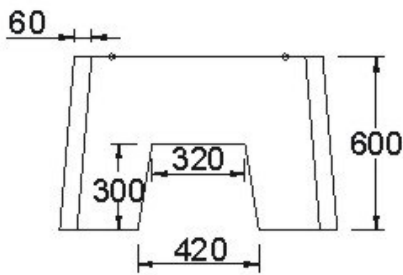
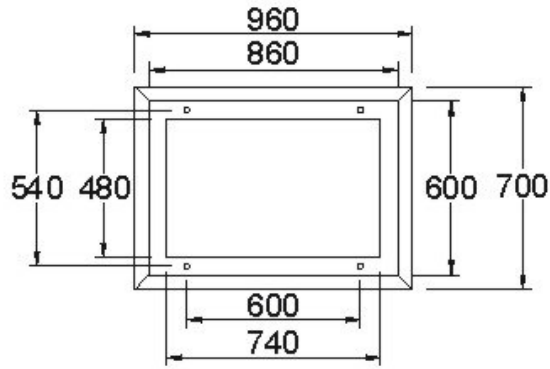
To Suit		Product no.		
Kempton Park CC (KP 1)		0501070 P		
Product	Mould ref		Notes & Revision	DWG
	Code	0501070		
	Scale	1: 20		
	Date	2007/04/25		
Plinth P 34	Mass	200 kg		P34
570x420x500				




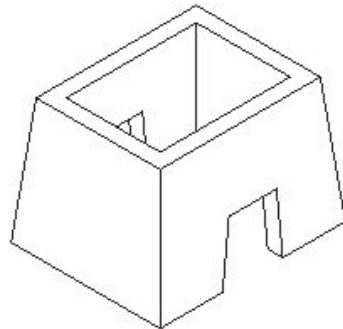
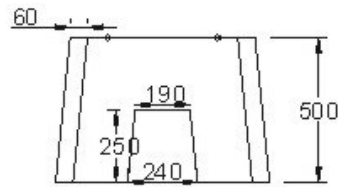
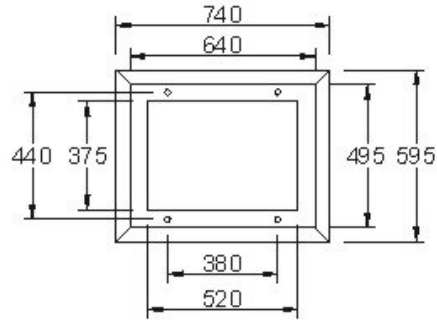
To Suit:		Product no.		
Kempton Park C.C. (KP 2)		0501072 P		
Product	Mould ref	Notes & Revision	DWG	P35
Plinth P35	Code 0501072			
700x420x500	Scale 1:20			
	Date 2007/04/25			
	Mass 226 kg			



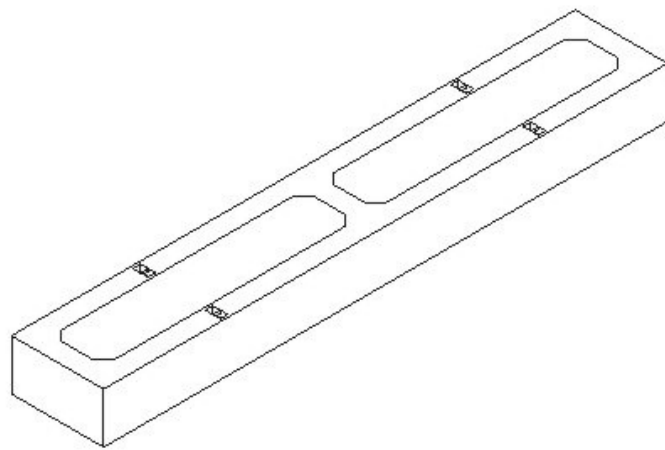
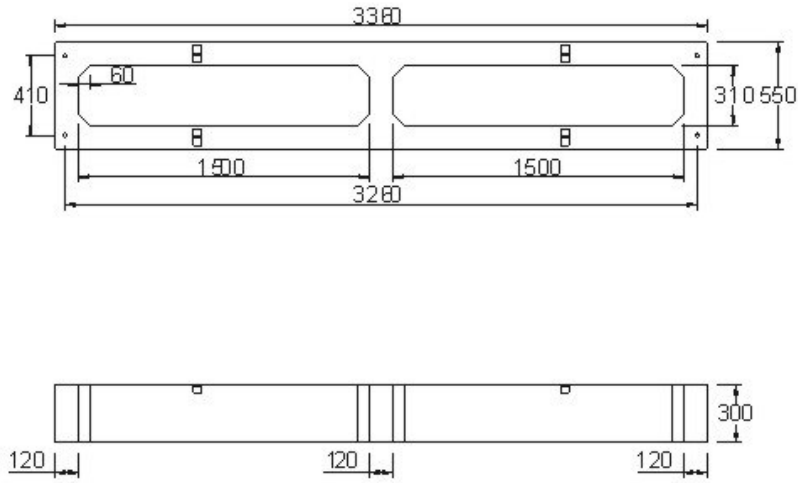
To Suit:		Product no.		
Desta (47 11 10359-1)		0501074 P		
Product	Mould ref		Notes & Revision	DWG
	Code	0501074		
	Scale	1:30		
	Date	2007/04/25		
Plinth P 36	Mass	1220 kg		P36
2505x1090x500				



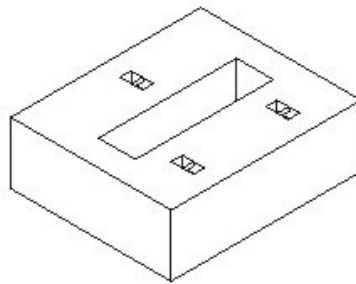
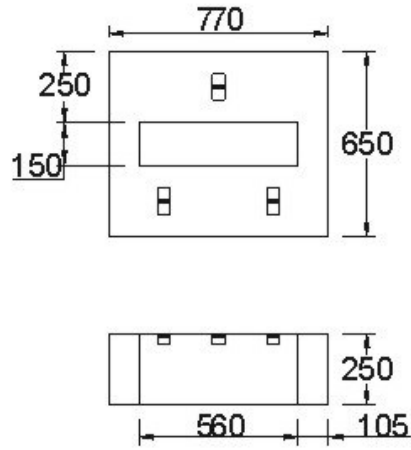
To Suit		Product no.	
Eskom (Gem Industries) (A3-7712)		0501076 P	
Product	Mould ref	Notes &Revision	DWG
Plinth P37	Code 0501076		P37
860x600x600	Scale 1:20		
	Date 2007/04/25		
	Mass 212 kg		



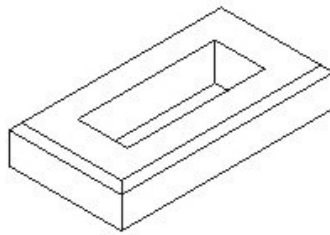
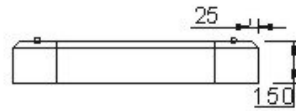
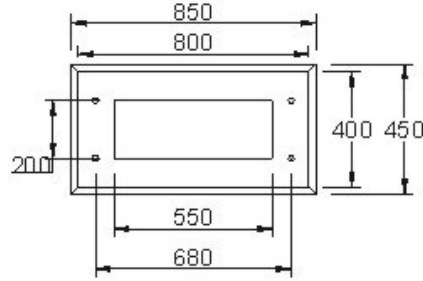
To Suit:		Product no.	
Sandton (Gem Industries) (A34009/C)		0501078 P	
Product	Mould ref	Notes & Revision	DWG
Plinth P 38	Code 0501078		P38
640x495x500	Scale 1: 20		
	Date 2007/04/25		
	Mass 140 kg		



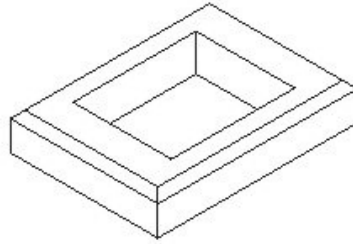
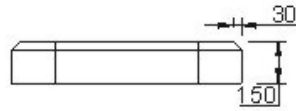
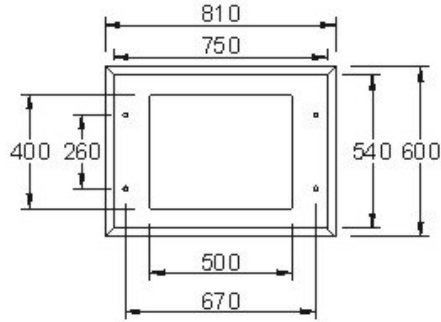
To Suit:		Product no.		
Hawker Siddeley Transformers (R-0502)		0501080 P		
Product	Mould ref	Notes & Revision		DWG
	Code	0501080		
	Scale	1:30		
	Date	2007/04/25		
Plinth P39 3360x550x300	Mass	754 kg		P39



			Product no.	
			0501082 P	
Product	Mould ref		Notes & Revision	DWG
Pli rth P40	Code	0501082		P40
770x650x250	Scale	1:20		
	Date	2007/04/25		
	Mass	277 kg		



To Suit		Product no.		
Gemiston (Council) (E/LTD 257)		0501084 P		
Product	Mould ref		Notes & Revision	DWG
	Code	0501084		
	Scale	1: 20		
	Date	2007/04/25		
Plinth P 41	Mass	108 kg		P41
850x450x150				



To Suit:		Product no.		
Germisyon (Council) (ELTD 258)		0501086 P		
Product	Mould ref		Notes &Revision	DWG
	Code	0501086		P42
	Scale	1:20		
	Date	20 07/04/25		
Mass	114 kg			