



DATA SHEET

STANDARD 600 x 600 VEE BOTTOM ELECTROWINNING CELLS WITH INTEGRAL FUME EXTRACTION

The 600 x 600 vee bottom electrowinning cell combines enhanced sludge drainage, economy of purchase and high stripping rates based on the available cathode area. A fume extraction system is integrated into the upper section of the cell. The cell bottom has a 12 degree transverse Vee with a slight longitudinal slope to promote sludge drainage.



Parameter	Unit	600 10/9VFE	600 11/10VFE	600 12/11VFE	600 13/12VFE	600 14/13VFE	600 15/14VFE	
General								
Manufacturer		Plastic Fabricators (WA) Pty Ltd – (previously trading as Allglass Australia)						
Cell type		Vee bottom with integral fume extraction						
Cell elution circuit		ZADRA or AARL						
Cell Dimensions								
Width (internal)	mm	600						
Length (internal)	mm	1460	1600	1740	1880	2020	2160	
Height (internal)	mm							
Working volume	m ³	0.51	0.56	0.61	0.65	0.70	0.75	
Operating mass	kg	944	1039	1135	1230	1325	1421	
Cell Body								
Material		Polypropylene						
Wall & floor thickness		20						
Integral fume extraction		Yes						
Integral padlockable lid		Yes (lock point each side)						
Busbar material		Copper						
Anode / cathode busbar size	mm	38.2 x 6.5		40 x 6		40 x 10		
Inlet nozzle size	mm	DN 110						
Outlet nozzle size	mm	DN 110						
Drain nozzle size (mm)	mm	DN 63						
Overflow size	mm	DN 63						
Fume extraction nozzle size	mm	1 x DN 110				2 x DN 110		
Cell Frame								
Material		Carbon steel						
Protective coating		Cyanide resistant, 2 pack epoxy						

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Operating Criteria							
Optimum cell flow rate	m ³ /hr	7.5					
Maximum flow rate	m ³ /hr	10					
Optimum cell voltage	V	3 to 6					
Optimum cell current	A	570	630	690	755	820	880
Optimum solution temperature	°C	92-98					
Maximum cell temperature	°C	102°C continuous & 110°C for short term excursions					
Strip rate	Tonne /day	1.00	1.11	1.22	1.32	1.41	1.50
Efficiency - average	%	84					
Efficiency - maximum	%	98+					
Liquid height	mm	550					
Fume extraction rate	m ³ /min	5				8	
Anodes							
Quantity		10	11	12	13	14	15
Mesh material		316SS Woven Wire, 12.5apt x 4mmØ wire					
Conductor bar material		Copper					
Submerged area	m ²	0.36					
Cathodes							
Quantity		9	10	11	12	13	14
Frame type		Saw tooth (patented)					
Frame material		316 stainless steel					
Conductor bar material		Copper					
Cathode basket material		Polypropylene					
Submerged area	m ²	0.33					
Consumables		Stainless steel stocking 125mm wide x 12-15m per frame or 0.8 to 1kg steel wool per frame					
Transportation dimensions & mass							
Crate length	m	1.90	2.05	2.20	2.35	2.50	2.65
Crate width	m	1.15					
Crate height	m	1.40					
Crated mass	kg	460	490	520	550	580	610

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600VFErB



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