

COMMERCIAL

Date	03 August 2007		Our Ref.	. RE6801 (Revis	sion 1)	
	Klargester Environment	al Limited	Customer C		/ L td	
	College Road North	ai Liiriitoa		Tersa Gavin House		
	Aston Clinton		Addres			
		ahira		Woodford Avenue		
	Aylesbury, Buckinghams	smire		Woodford Green		
	HP22 5EW			Essex IG8 8FA		
Phone	01296 633 000		 Contac	t Mr Andrew Macallist	er	
Fax	01296 633 001					
Email	info@envireau.co.uk		Phon	e 020 8551 9999		
Project Details			¦ Fa	x 020 8551 1363		
Project Title	Ramsay Hall (Student A	ccommodation)				
Project Stage	On Site		Ema	ij andrew.macallister@	mulalley.co.uk	
Recycled water usage					······································	
Water Authority	Thames Water		Water Cos	£1.48 pe	er m³	
	✓ Foul Sewer Connection		Not	е		
	✓ Surface Water Sewer					
Water collected —		Recycled water usag	е —	Occupancy —	····	
Roof Area	400 m²	Toilet Flushin	a 🗸 📗	Male	45	
Annual Volume		Vehicle Washin	II	Female	46	
		External Us	11			
		Hot Wate		Working Day Working Week	24 hours	
		Industrial Us		W.C.'s	⁷ days	
		Othe	<u> </u>			
		Othe	"	Urinal Ranges		
Notes		· —				

This quotation should be read in conjunction with our full installation details. The tank size has been calculated on industry norms i.e. met office rainfall data, average we flushes per person per day, max daily rainwater yield from roof area. A mains water supply should be used for supplying the break tank during "no rainwater" available periods and should be controlled by a delayed action float valve (supplied by others). Type "A" air gap (weir overflow) is required. The below ground storage tank requires a concrete surround and or slab to prevent the possibility of floating and protection from imposed traffic loading (design by others i.e. structural engineer). We would recommend the inclusion of electrical contactors on this system as a "Good practice" addition to our standard components.

electrical contactors on this system as a "Good practice" addition to our standard components.

,		Weeks	Month	Usage
Total W.C. & Urinal Flushing per Annum		0	Jan	149 m³
W.C.'s Male	0 m³	0	Feb	135 m³
W.C.'s Female	0 m³	0	Mar	149 m³
Urinals	0 m³	0	Apr	145 m³
Other Uses	0 m³	0	May	149 m³
Total	0 m³/yr	0	Jun	145 m³
		0	Jul	149 m³
The above is based on 3 flushes/female/day a	and	0	Aug	149 m³
1.5 flushes/male/day if urinals are installed. If	по	0	Sep	145 m³
urinals are installed male usage is based on		0	Oct	149 m³
3 flushes/male/day		0	Nov	145 m³
		0	Dec	149 m³
	Total	0	·	1,758 m³/yr

Reccommended Tank size to give 7 days continuous supply without E to maximum size of 54000 litres:

Nearest tank size from standard range:

9,000 litres

	Roof Area	400 m² N	Water Cost	£1.48 pe	er m³	
		Volume	Monthly	Demand	Mains Top	Month
	Rainfall	Collected	Demand	Shortfall	Up Cost	Saving
Jan	52 mm	19.8 m³	149.0 m³	129.2 m³	£190.97	£29.2
Feb	34 mm	12.9 m³	135.0 m³	122.1 m³	£180.39	£19.0
Mar	42 mm	16.0 m³	149.0 m³	133.0 m³	£196.58	£23.5
Дрг	45 mm	17.1 m³	145.0 m³	127.9 m³	£188.99	£25.2
lay	47 mm	17.9 m³	149.0 m³	131.1 m³	£193.77	£26.3
lun	53 mm	20.1 m³	145.0 m³	124.9 m³	£184.49	£29.7
Jul	38 mm	14.4 m³	149.0 m³	134.6 m³	£198.83	£21.3
۱ug	47 mm	17.9 m³	149.0 m³	131.1 m³	£193.77	£26.3
Sep	56 mm	21.3 m³	145.0 m³	123.7 m ³	£182.81	£31.4
Oct	62 mm	23.6 m³	149.0 m³	125.4 m³	£185.35	£34.8
lov	52 mm	19.8 m³	145.0 m³	125.2 m³	£185.05	£29.2
Эес	55 mm	20.9 m³	149.0 m³	128.1 m³	£189.28	£30.8
otal	583 mm	221.5 m³	1,758.0 m³	1,536.5 m³	£2,270.27	£327.3
Quota	Part No.	Description		Quantity	Price	Valu
	MT	Envireau Mono-Tech Rainwater Rec	overy System	1	£1,484.00	£1,484.0
141 1		(100 metre cable lengths requir	- •	'	21,404.00	~1,707.
EW0901101		Envireau GRP Rainwater Holding Ta		1	£1,234.00	£1,234.0
		(Twin Turrets)	ink 5000id	'	21,204.00	41,204.0
	P106	P106 U/ground Rainwater Filter - 10ltrs/sec Flow		1	£316.00	£316.0
	EWSP1	StandBy Pump & Controller		1	£1,484.00	£1,484.0
	- -	(100 metre cable lengths requir	red)	•		, , , , , , , , ,
	Comm	Commissioning Service	<u>_</u>	1	£300.00	£300.0
		_		•	20000	25551
		(One hour on site)				

2

£73.00

£146.00

£0.00

£0.00

£4,964.00

CFL600T

Pedestrian Duty Manhole Cover & Frame

Total including delivery and excluding VAT:



Achieved outlet flow rate (I/s):

Min downpipe size with taper:

Number of outlets:

Flat Roof Drainage Design Software to BSEN-12056:2000

White House Works, Bold Road, Sutton, St Helens, Merseyside, WA9 4JG Tel. 01744 648400 Fax. 01744 648401. e-mail: technical@alumasc-exteriors.co.uk



y/r: Client: Pelling Limited SP00001 o/r: UCL Student Accomodation Project: Date: 05/04/2007 CB Designer: **Gutter number:** Cat 2 **BSEN12056** Rainfall Catagory: 0.066 Rainfall Intensity (I/s.sq.m): **Catchment Area:** 0.00 Roof length (m): 0.00 Roof width (m): Effective area (sq.m): 334.0 **Green Roof:** Green Roof type: % Green (%): 60 Soil depth(mm): 60 to 99 Outlets: Outlet type: **AV400T** Diameter (mm): Rectangular (Side 1)(mm): Rectangular (Side 2)(mm): Weir Length (mm): Sump depth (mm): Leafguard / strainer: Integral Results: 16.75 Required flow rate (I/s): 8.38 Required outlet flow rate (I/s):

10.71

2

0