

TREATMENT PLANT APPROVAL 05/2020
Plumbing and Drainage Act 2018

Approval

1. The **Eco Pro AWTS (10EP/1500L)** (“the system”) described in the Specifications and Drawings in the attached Schedule and manufactured by **Eco Septic Pty Ltd** (ABN 086 310 474) (“the manufacturer”) has been assessed in accordance with the Queensland Plumbing and Wastewater Code (QPW Code) dated 26 March 2019.
2. Approval is granted for the advanced secondary quality wastewater treatment system, subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Regulation 2018*, and the conditions of approval detailed below.
3. This approval, the conditions of approval and the Schedule comprise the entire Treatment Plant Approval document.
4. Any modification by the manufacturer to the design, drawings or specifications scheduled to this approval must be approved by the Chief Executive.

Conditions of approval

5. The manufacture, installation, operation, service and maintenance of the systems must be in conformity with the conditions of this Treatment Plant Approval.
6. The system when tested by a certification accreditation body in accordance with AS1546.3:2017 was found to comply with the advanced secondary 10EP/1500L level without nutrient reduction effluent criteria and must continue to meet the following requirements:

TABLE 2.1 (AS1546.3:2017)
EFFLUENT COMPLIANCE CRITERIA
FOR AN STS WITH NO NUTRIENT
REDUCTION FACILITIES

Parameter	Secondary effluent		Advanced secondary effluent	
	90% of samples	Maximum	90% of samples	Maximum
BOD ₅	≤20 mg/L	30 mg/L	≤10 mg/L	20 mg/L
TSS	≤30 mg/L	45 mg/L	≤10 mg/L	20 mg/L
<i>E. coli</i> *	≤10 cfu/100 mL	30 cfu/100 mL	≤10 cfu/100 mL	30 cfu/100 mL
FAC	Minimum 0.5 mg/L†	N/A	Minimum 0.5 mg/L†	N/A
Turbidity	N/A	N/A	N/A	5 NTU

* Where disinfection is required.

† Minimum level, not 90% of samples.

7. Each system must be serviced in accordance with the accreditation certificate and details supplied in the owner’s operation and maintenance manual.

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Delegated Authority

Department of Housing & Public Works



8. Each system must be supplied with —

- (a) a copy of this Treatment Plant Approval document;
- (b) details of the system;
- (c) instructions for authorised persons for its installation;
- (d) a copy of the owner's manual to be given to the owner at the time of installation; and
- (e) detailed instructions for authorised service personal for its operation and maintenance.

9. At each anniversary of the Treatment Plant Approval date, the supplier must submit to the Chief Executive a list of all systems installed in Queensland during the previous 12 months. Where the Chief Executive is notified of any system failures the Chief Executive may randomly select a number of installed systems for audit. The Chief Executive will notify the supplier's nominated NATA accredited laboratory which systems are to be audited for BOD⁵ and TSS. The sampling and testing of the selected systems, if required, is to be done at the supplier's expense. The following results must be reported to the Chief Executive;

- a) Address of premises;
- b) Date inspected and sampled;
- c) Sample identification number;
- d) BOD⁵ for influent and effluent; and
- e) TSS for influent and effluent.

10. The Chief Executive may, by written notice, cancel this approval if the manufacturer/supplier fails —

- a) to comply with one or more of the conditions of approval; or
- b) within 30 days, to remedy a breach, for which a written notice been given by the Chief Executive.

11. This approval may only be assigned with the prior written consent of the Chief Executive.

12. This approval expires on 17 September 2025 unless cancelled earlier in accordance with paragraph 10 above.

Treatment Plant Approval

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Delegated Authority

Department of Housing & Public Works



Lindsay Walker

**Director
Plumbing, Drainage and Special Projects
Building Legislation and Policy**

Date approved: 18 September 2020

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Facsimile +61 7 3237 1248

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ABN 61 331 950 314

TREATMENT PLANT APPROVAL No. 05/2020
Plumbing and Drainage Act 2018

SCHEDULE

Attachment 1

Drawings and Specifications for the

Eco Pro AWTS (10EP/1500L)

Treatment Plant Approval

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PRODUCT CERTIFICATE OF REGISTRATION



Global Certification Pty Ltd

Number 517

Product Performance Testing

AS 1546.3:2017

**Advanced Secondary 10EP Level
without Nutrient Reduction**

Issued to

ECO – Septic Pty Ltd T/as Econocycle

65 – 67 Warradale Road, Warragamba, NSW 2752

Certification Date: - 3/11/2019 Expiry Date: - 3/11/2024

Product Certified:

Model	Disinfection	Average Results over the Test Period	Servicing Frequency	Discharge	Manufactured and assembled
Ecoseptic model Eco Pro AWTS	Yes	TSS 7.14mg/l BOD ₅ <2mg/l Turbidity 16.39NTU E coli <1CFU/100ml	3 Monthly Service 3.2 yearly sedimentation pump out or as required	Pumped via disinfection/pump chamber with chlorine dispenser	Manufactured and Assembled: 65 Warradale Road, Warragamba NSW 2752

The system took 5 weeks to meet the advanced secondary standard.

NACE CODES: 3700

This Certificate of Conformance to the Product Certificate Scheme for "Domestic Wastewater Treatment Units (Septic Tanks) and Rainwater Tanks" remains the property of Global Certification Pty. Ltd. and is granted subject to the terms and conditions of the Contract Application, in respect of the Product certified on this page and the attached schedule to the Certification of Conformance, bearing the same number as this certificate.

Date of Issue: 3rd November 2019 **Bruce Smith Director**



www.jas-anz.com.au/register

Signed for and on behalf of Global Certification Pty Ltd
PO Box 195, Morayfield QLD 4506

Treatment Plant Approval
Approved by: Lindsay Walker
Delegated Authority
Department of Housing & Public Works



PRODUCT CERTIFICATE OF REGISTRATION



Global Certification Pty Ltd

Number 630

Product Performance Testing

AS 1546.3:2017

**Advanced Secondary 1500 L/day 10EP Level
without Nutrient Reduction**

Issued to

ECO – Septic Pty Ltd T/as Econocycle

65 – 67 Warradale Road, Warragamba, NSW 2752

Certification Date: - 3/11/2019 Expiry Date: - 3/11/2024

Product Certified:

Model	Disinfection	Average Results over the Test Period	Servicing Frequency	Discharge	Manufactured and assembled
Ecoseptic model Eco Pro Poly 1500	Yes	TSS 7.14mg/l BOD ₅ <2mg/l Turbidity 16.39NTU E coli <1CFU/100ml	3 Monthly Service 3.2 yearly sedimentation pump out or as required	Pumped via disinfection/pump chamber with chlorine dispenser	Manufactured and Assembled: 65 Warradale Road, Warragamba NSW 2752

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Date of Issue: 29th August 2020 **Bruce Smith Director**



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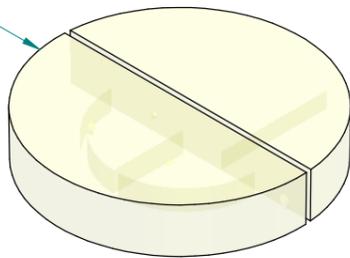
Signed for and on behalf of Global Certification Pty Ltd
PO Box 953 Belconnen ACT 2616

Treatment Plant Approval
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TITLE	VOLUME
FREEBOARD VOLUME	1976 L
TREATMENT CHAMBER 1 VOLUME	2000 L
TREATMENT CHAMBER 2 VOLUME	1000 L
TREATMENT CHAMBER 3 VOLUME	2231 L
TREATMENT CHAMBER 4 VOLUME	465 L
TREATMENT CHAMBER 5 VOLUME	370 L

TOTAL FREEBOARD CHAMBER VOLUME: 1976 L



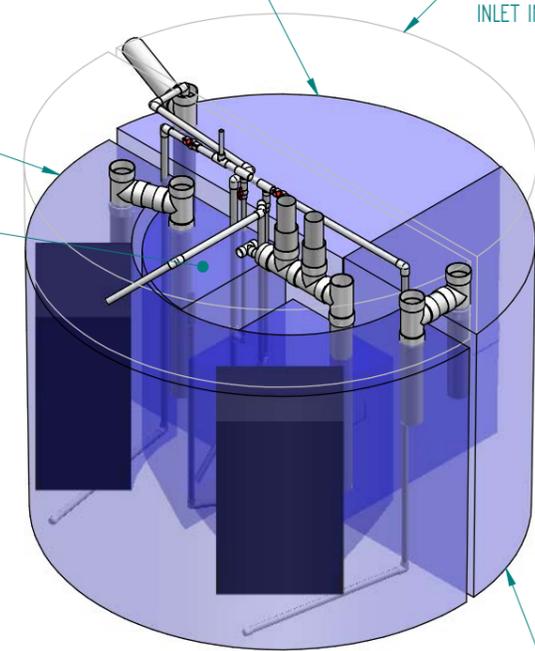
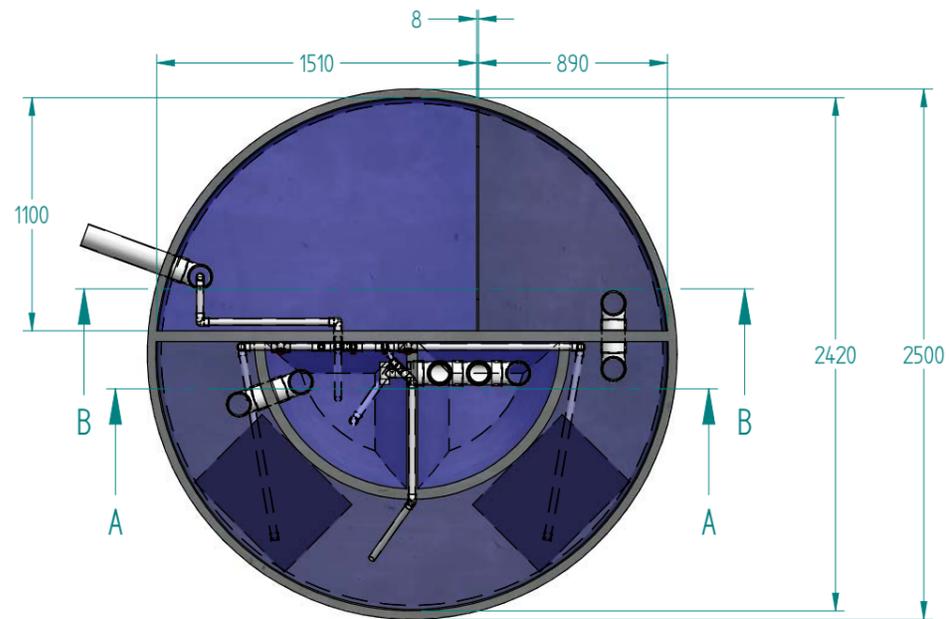
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FREEBOARD VOLUME ABOVE INLET INVERT: 1976 L

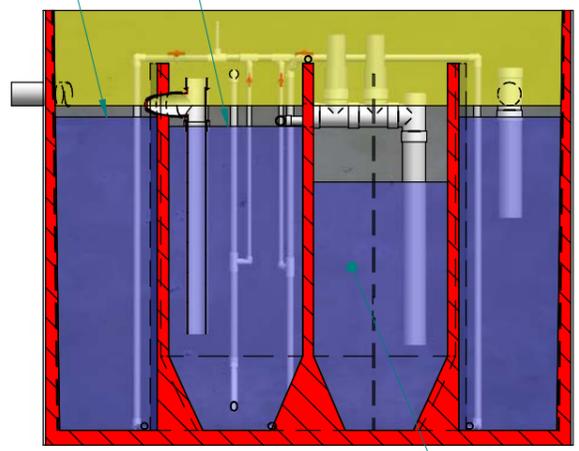
CHAMBER VOLUME: 2231 L

CHAMBER VOLUME: 465 L

CHAMBER VOLUME: 1000 L



CHAMBER VOLUME: 465 L
CHAMBER VOLUME: 2231 L



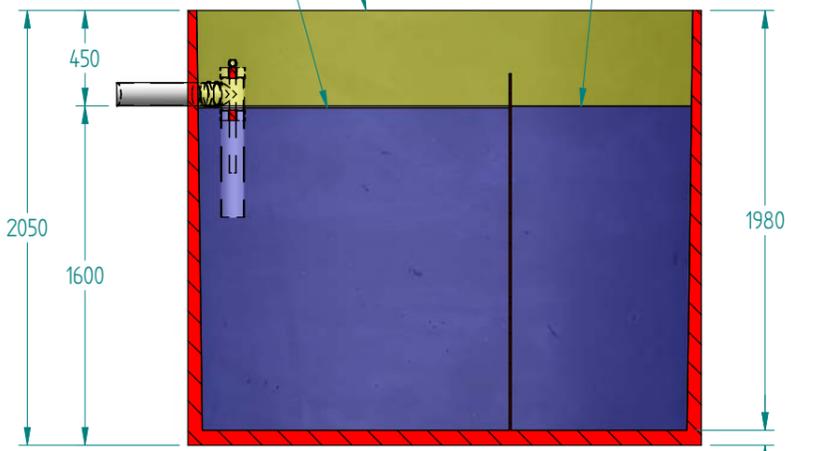
SECTION A-A

CHAMBER VOLUME: 370 L

CHAMBER VOLUME: 1976 L

CHAMBER VOLUME: 2000 L

CHAMBER VOLUME: 1000 L



SECTION B-B

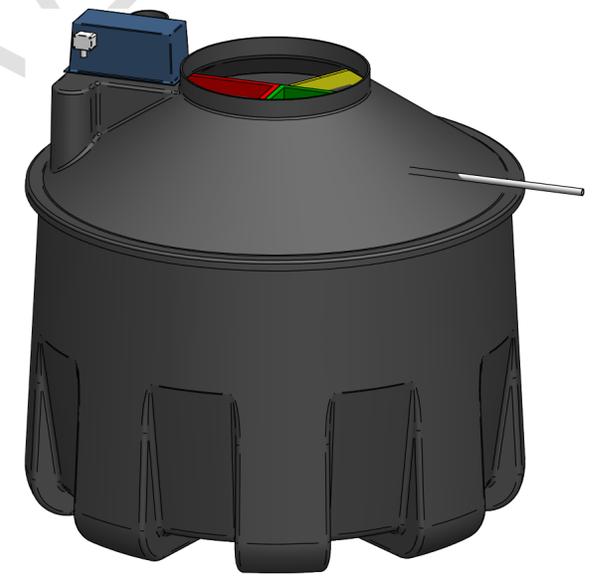
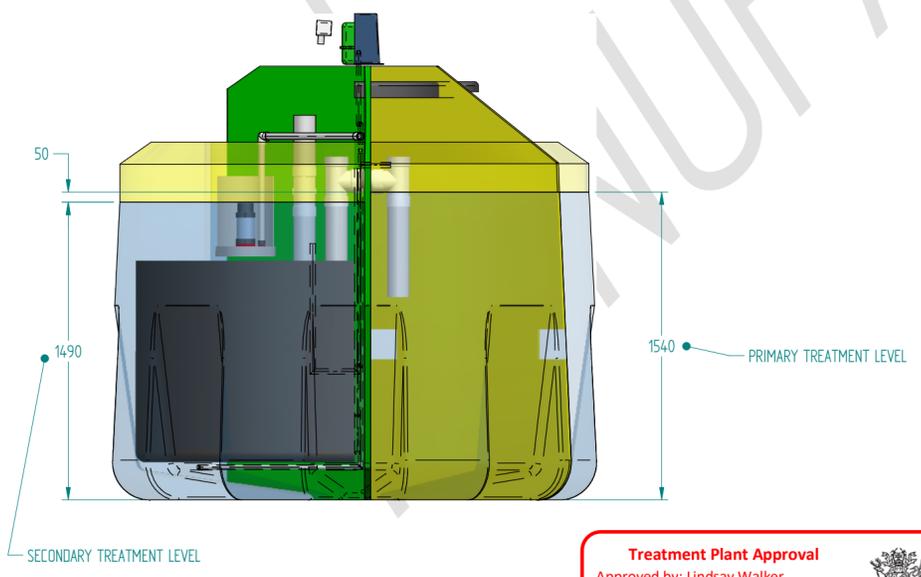
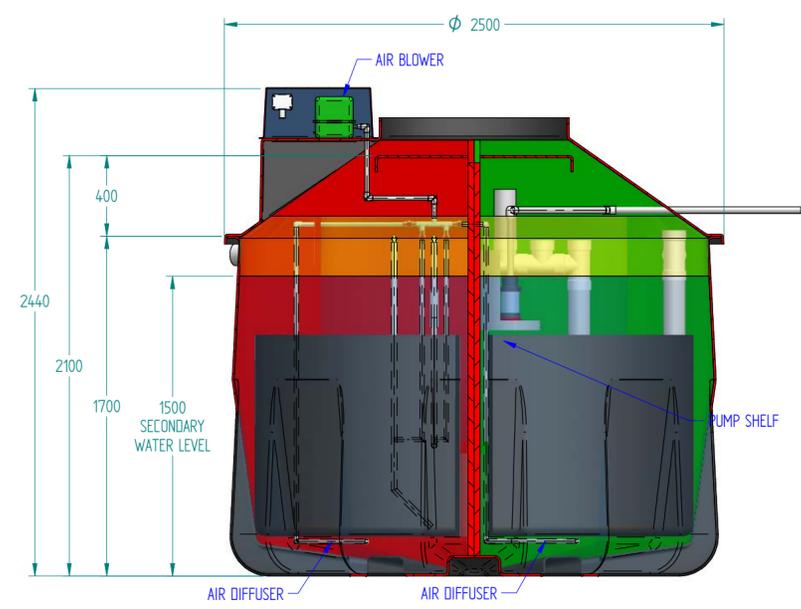
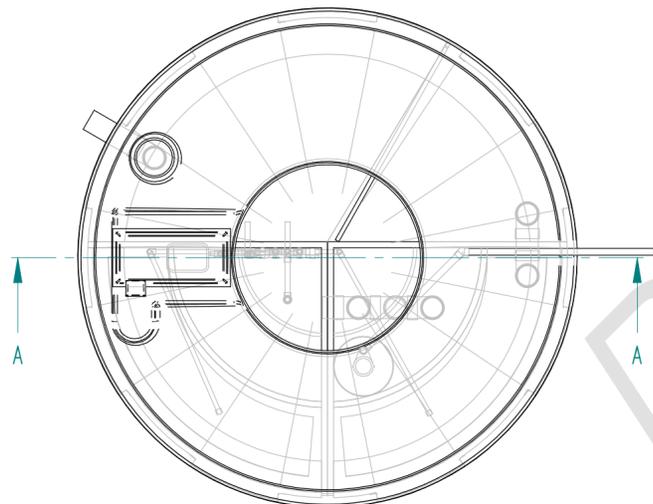
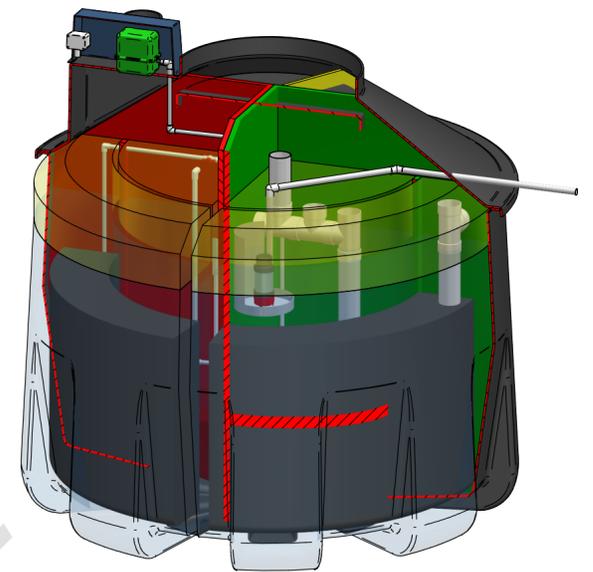
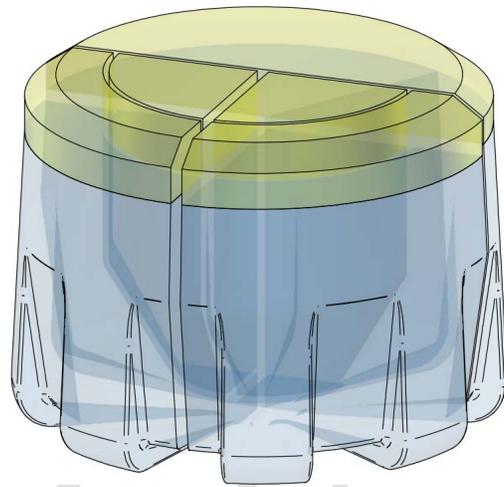
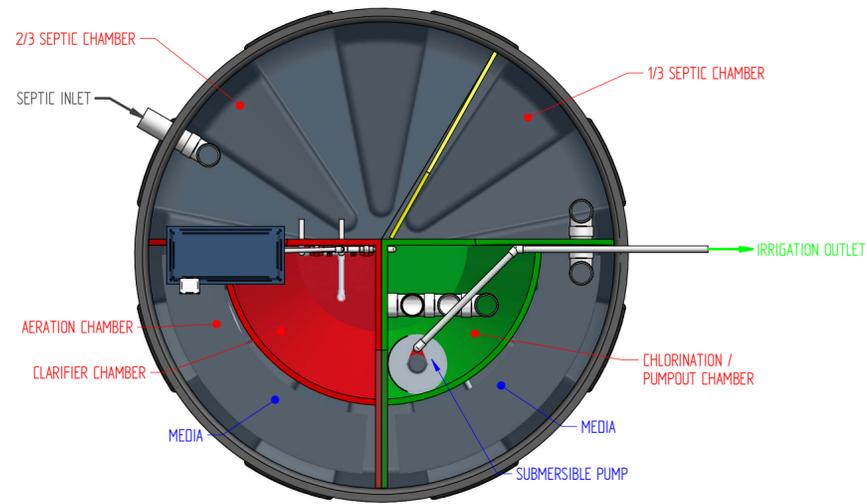


BY	DATE	REVISION DETAIL	REV
PM	02/12/2019	LOGO CHANGE	5
PM	30/10/2019	ANNOTATION CHANGE	4
PM	14/10/2019	RELEASED	3
PM	01/05/2019	ISSUED FOR REVIEW	2

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		PROJECT: ECO PRO AWTS	
		TITLE: TREATMENT TANK	
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		SCALE: DO NOT SCALE	PART#: 2500x2050-TT
		DRAWING LAST MODIFIED BY: Peter McKay	VERSION: 5
			SHEET No. 1 OF 1

TITLE	VOLUME
VOLUME 1-SEPTIC 2/3rds	1996 L
VOLUME 2-SEPTIC 1/3rds	996 L
VOLUME 3-AERATION	2196 L
VOLUME 4-CLARIFICATION	462 L
VOLUME 5-IRRIGATION	462 L
VOLUME 6-FREEBOARD	1076 L



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GENERAL TOLERANCES UNLESS OTHERWISE STATED:		 Econocycle AERATED WASTEWATER TREATMENT SYSTEMS	PROJECT: ENC10-1	
HOLES: +0.3 -0.0	FOLDING: +0.5 -0.5		TITLE: TANK ASSY	
LENGTH	TOLERANCE	PROCESS: ASSEMBLE		SHEET SIZE: A2
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6	0.2	DRAWN BY: Peter McKay		DRAWING LAST MODIFIED BY: Peter McKay
30	0.3	MODELLER BY: Peter McKay		MODEL LAST MODIFIED BY: Peter McKay
120	0.5	PART#: 1124-4400		REVISION: v6
315	0.8	SHEET NO: 1 OF 1		
1000	1.0			
ALL ANGLES:	0.5°			

PM	17/09/2010	ISSUED FOR REVIEW	1B
BY	DATE	REVISION DETAIL	REV