

TEST REPORT



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Report Number: 1707-12007

Report Issued: October 19, 2012

Project No.: 20461

Client: Watermiser Manufacturing Company
1106 Second Street, Suite # 637
Encinitas, CA 92024

Contact: Mr. Ken Margulis

Source of Samples: The samples were sent by Watermiser Manufacturing Company and received by IAPMO R&T Lab in good condition on May 23, 2012, July 19, 2012, August 23, 2012 and September 21, 2012.

Date of Testing: June 11, 2012 through October 16, 2012

Sample Description: 303 stainless steel shower flow control valves

Models: FCVSSS – 1.5 GPM
FCVSSS – 1.75 GPM
FCVSSS – 2.0 GPM

Scope of Testing: The purpose of the testing was to determine if the samples tested of the 303 stainless steel shower flow control valves met the applicable requirements of IAPMO Green Plumbing & Mechanical Code Supplement - 2010, Cal Green - 2010 and LEED® -2009.

Conclusion: The samples tested of the 303 stainless steel shower flow control valves, models FCVSSS – 1.5 GPM, FCVSSS – 1.75 GPM and FCVSSS – 2.0 GPM, from Watermiser Manufacturing Company met the applicable requirements of IAPMO Green Plumbing & Mechanical Code Supplement - 2010, Cal Green - 2010 and LEED® - 2009.

Note: The compliance conditions are shown in the finding table on Page 3 of this report.

By our signatures below we certify that all the testing and sample preparation for this report was performed under continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated.

Tested by,

A handwritten signature in black ink, appearing to read "Simon Hadi".

Simon Hadi, Test Technician

Reviewed by,

A handwritten signature in black ink, appearing to read "Andy Ho".

Andy Ho, Manager, Fitting Testing

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Primary Specifications: IAPMO Green Plumbing & Mechanical Code Supplement - 2010, Cal Green - 2010 and LEED® - 2009.

Test Results: All tests and evaluations were conducted per the written procedures specified in the Specifications and their reference standards.

IAPMO Green Plumbing & Mechanical Code Supplement – 2010

Section 402.5 Showers – COMPLIED

The shower flow control valves tested comply with the requirements of the Energy Policy Act of 1992, except with the flow rate not to exceed 2.0 gpm at 80 psi.

The shower flow control valves were tested to ASME A112.18.1-2011/CSA B125.1-11 under IAPMO R&T Lab report # 1707-12002-004.

Cal Green – 2010

Chapter 4 Residential Mandatory Measures

Section 4.303.1 Twenty Percent Savings – COMPLIED

The shower flow control valves tested met the reduced flow rate by at least 20% as specified in Table 4.303.2.

Maximum Allowable Flow Rate Requirements:

For Showerhead or Handheld Shower Application: 2.0 gpm at 80 psi

Finding: Refer to finding table on Page 3 for the actual flow rate and percent reduction.

Section 4.303.3 Plumbing Fixtures and Fittings – COMPLIED

The shower flow control valves were tested to ASME A112.18.1-2011/CSA B125.1-11 under IAPMO R&T Lab report # 1707-12002-004.

Chapter 5 Nonresidential Mandatory Measures

Section 5.303.2 Twenty Percent Savings – COMPLIED

The shower flow control valves tested met the reduced flow rate by at least 20% as specified in Table 5.303.2.3.

Maximum Allowable Flow Rate Requirements:

For Showerhead or Handheld Shower Application: 2.0 gpm at 80 psi

Finding: Refer to finding table on Page 3 for the actual flow rate and percent reduction.

Section 5.303.6 Plumbing Fixtures and Fittings – COMPLIED

The shower flow control valves were tested to ASME A112.18.1-2011/CSA B125.1-11 under IAPMO R&T Lab report # 1707-12002-004.

LEED® - 2009

WE Prerequisite 1: Water Use Reduction – COMPLIED

The shower flow control valves tested met the reduced flow rate by at least 20% of the current baseline as shown in the Table (based on the Energy Policy Act of 1992).

WE Credit 3: Water Use Reduction – COMPLIED

The shower flow control valves tested met the reduced flow rate by at least 30% of the current baseline as shown in the Table (based on the Energy Policy Act of 1992).

Percentage Reduction Points

30%	2
35%	3
40%	4

Finding: Refer to finding table below for the actual point.

Finding:

Flow Control Valves for Showerhead and Handheld Shower Applications

Product	Model No.	Baseline (gpm)	Mfr. Flow Rate (gpm)	Percent Reduction	Actual Flow Rate (gpm)	IAPMO Green	Cal Green	LEED®
Shower Flow Control Valve	FCVSSS – 1.5 GPM	2.5	1.5	40%	1.47	Residential/ NonResidential	Residential/ NonResidential	WE Credit 3 4 points
Shower Flow Control Valve	FCVSSS – 1.75 GPM	2.5	1.75	30%	1.65	Residential/ NonResidential	Residential/ NonResidential	WE Credit 3 2 points
Shower Flow Control Valve	FCVSSS – 2.0 GPM	2.5	2.0	20%	2.0	Residential/ NonResidential	Residential/ NonResidential	WE Prerequisite 1

Photograph of Sample Tested:



Model FCVSSS (1.5 GPM / 1.75 GPM / 2.0 GPM)