Miami-Dade County, Florida
Building Code Compliance Office
Suite 1603
140 West Flagler Street
Miami, Florida 33130-1563
(305) 375-2901
Fax (305) 375-2908

Laboratory Certificate

This certifies that NAHB Research Center located at 400 Prince George's Boulevard, Upper Marlboro, MD 20774 is an approved Testing Laboratory in accordance with Miami-Dade County Building Code Compliance and Protocol TAS301-94, and is Certified to perform the following tests:

NVLAP LAB CODE 100104-0
International Accreditation Service, Inc.
Report No. AA-663 as Inspection Agency

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Building Code Compliance Office per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Thomas M. Kenney, P.E.

This Certification and Registration Approved: **May 10, 2007**
This Certification and Registration Expires : **March 6, 2012**

Certification No. : **07-0228.13** *Renews: 02-0501.01*

Jaime D. Gascon, P.E.
Chief
Product Control Division

Americo Segura
Senior Quality Assurance Inspector
Product Control Division

The Miami-Dade County Building Code Compliance Office reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.

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NAHB Research Center, Inc.

NVLAP Lab Code: 100104-0

Address and Contact Information:

400 Prince George's Boulevard
Upper Marlboro, MD 20774-8731
Contact: Mr. Robert L. Hill, P.E.
Phone: 301-430-6244
Fax: 301-430-6184
E-Mail: bhill@nahbrc.org
Send E-Mail to Laboratory: NAHB Research Center, Inc.
URL: http://www.nahbrc.org

NVLAP Accreditation Information

Listed below is the scope of accreditation for this laboratory as of March 28, 2007. For additional information, contact NVLAP at (301) 975-4016.

Send E-Mail to NVLAP at: NVLAP@nist.gov

Commercial Products Testing

Accreditation Valid From: January 1, 2007 Through: December 31, 2007

- **Paints and Related Coatings and Materials**

[09/A20] ASTM D2244
Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates

[09/D15] ASTM G155
Operating Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials

- **Plastics**

[15/A01] ASTM D256
Pendulum Impact Resistance of Notched Specimens of Plastics

[15/A06] ASTM D638
Tensile Properties of Plastics

[15/A10] ASTM D790
Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

[15/A18] ASTM D2565
Operating Xenon Arc-Type Light-Exposure Apparatus With and Without Water for Exposure of Plastics

[15/A19] ASTM D2583
Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor

[15/A31] ASTM D570
Water Absorption of Plastics

[15/A32] ASTM D792
Density and Specific Gravity (Relative Density) of Plastics by Displacement

- **Plumbing**

[19/C19] CSA B45.0 (Sec. 9.5, 15 except 15.4, 15.9)
General Requirements for Plumbing Fixtures

[19/C24] CSA B45.5 (Sec. 5, except 5.17)
Plastic Plumbing Fixtures

[19/M01] ICC/ANSI A117.1 (Sec. 609, 610)
Buildings and Facilities Providing Accessibility and Usability for Physically Handicapped People

[19/M02] ASME/ANSI A112.19.7M (Sec. 5, 7)
Whirlpool Bathtub Appliances

[19/M04] ASTM F446
Standard Consumer Safety Specification for Grab Bars and Accessories Installed in Bathing Area

[19/M05] ASTM F462
Consumer Safety Specification for Slip-Resistant Bathing Facilities

[19/M29] ASTM G151
Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources

[19/P01] ANSI Z124.1 (Sec. 4, 5, 6)
Plastic Bathtub Units (Structural Integrity, Physical Characteristics and Material Tests)

[19/P02] ANSI Z124.2 (Sec. 4, 5, 6)
Plastic Shower Receptors-Stalls (Structural Integrity, Physical Characteristics and Materials Tests)

[19/P03] ANSI Z124.3 (Sec. 4, 5, 6)
Plastic Lavatories (Structural Integrity, Physical Characteristics and Materials Tests)

[19/P03a] ANSI/ICPA-SS-1 (Sec. 4, 5, 6)
Performance Standard for Solid Surface Materials (Structural Integrity, Physical Characteristics and Materials Tests)

[19/P04] ANSI Z124.4 (Sec. 4, 5)
Plastic Water Closet Bowls and Tanks (Structural Integrity and Physical Characteristics)

[19/P05] ANSI Z124.4 (Sec. 2.11) per ASME A112.19.6M (Sec. 7.1)
Plastic Water Closet Bowls and Tanks (Sanitary and Hydraulic Performance of Water Closet Tanks and Bowls)

[19/P06] ANSI/IAPMO Z124.6 (Sec. 4, 5, 6)
Plastic Sinks

[19/P07] ANSI/IAPMO Z124.8 (Sec. 4, 5)
Plastic Bathtub Liners

[19/P08] ANSI Z124.5
American National Standard for Plastic Toilet (Water Closet) Seats

[19/P09] ANSI Z124.7 (Sec. 4, 5, 6, 8)
American National Standard for Prefabricated Plastic Spa Shells

[19/P10] ANSI Z124.9
American National Standard for Plastic Urinal Fixtures

[19/V01] ASME A112.19.2M (Sec. 8.1)
Vitreous China Plumbing Fixtures (Absorption - Boiling)

[19/V02] ASME A112.19.2M (Sec. 8.2)
Vitreous China Plumbing Fixtures (Crazing)

[19/V03] ASME A112.19.2M (Sec. 8.3)
Vitreous China Plumbing Fixtures (Warpage)

[19/V04] ASME A112.19.2M (Sec. 8.7)
Vitreous China Plumbing Fixtures (Load Tests-Wall Hung Products)

[19/V05] ASME A112.19.2M (Sec. 8.6)
Vitreous China Plumbing Fixtures (Insulated Tank)

[19/V06] ASME A112.19.2M (Sec. 8.5)
Vitreous China Plumbing Fixtures (Closet Auger)

[19/V07] ASME A112.19.2 (Sec. 7.1)
Vitreous China Plumbing Fixtures (Absorption - Boiling)

[19/V08] ASME A112.19.2 (Sec. 7.2)
Vitreous China Plumbing Fixtures (Crazing)

[19/V09] ASME A112.19.2 (Sec. 7.3)
Vitreous China Plumbing Fixtures (Warpage)

[19/V10] ASME A112.19.2 (Sec. 7.7)
Vitreous China Plumbing Fixtures (Load Tests - Wall Mounted Fixture Products)

[19/V11] ASME A112.19.2 (Sec. 7.6)
Vitreous China Plumbing Fixtures (Insulated Tanks)

[19/V12] ASME A112.19.2 (Sec. 7.5)
Vitreous China Plumbing Fixtures (Auger Test)

[19/W01] ASME A112.19.6 (Sec. 7.1.2)
Laboratory Tests for Waste Removal and Water Consumption (Test Apparatus and General Instructions)

[19/W02] ASME A112.19.6 (Sec. 7.1.3)

Laboratory Tests for Waste Removal and Water Consumption (Removal of Solids)

[19/W03] ASME A112.19.6 (Sec. 7.1.4)
Laboratory Tests for Waste Removal and Water Consumption (Washing of Flushing Surface-Rim Wash)

[19/W04] ASME A112.19.6 (Sec. 7.1.5)
Laboratory Tests for Waste Removal and Water Consumption (Removal of Waste Liquids-Water Change/Dye Test)

[19/W05] ASME A112.19.6 (Sec. 7.1.6)
Laboratory Tests for Waste Removal and Water Consumption (Water Consumption and Hydraulic Characteristics)

[19/W06] ASME A112.19.6 (Sec. 7.1.7)
Laboratory Tests for Waste Removal and Water Consumption (Drainline Transport Characterization Procedure)

[19/W07] ASME A112.19.6 (Sec. 7.1.8)
Laboratory Tests for Waste Removal and Water Consumption (Water Rise)

[19/W08] ASME A112.19.6 (Sec. 7.1.9)
Laboratory Tests for Waste Removal and Water Consumption (Rim Top and Seat Fouling)

[19/W14] ASME A112.19.2 (Sec. 5.1.1)
Test Pressures

[19/W15] ASME A112.19.2 (Sec. 8.3)
Trap Seal Restoration

[19/W16] ASME A112.19.2 (Sec. 8.4)
Water Consumption

[19/W17] ASME A112.19.2 (Sec. 8.5)
Granule and Ball Test

[19/W18] ASME A112.19.2 (Sec. 8.6)
Surface Wash Test

[19/W19] ASME A112.19.2 (Sec. 8.7)
Mixed Media with Neutrally Buoyant Wastes

[19/W20] ASME A112.19.2 (Sec. 8.8)
Drainline Transport Characterization Procedure

[19/W21] ASME A112.19.2 (Sec. 10.3)
Trap Seal Depth Determination

[19/W22] ASME A112.19.2 (Sec. 10.4)
Urinals Ink Test

[19/W23] ASME A112.19.2 (Sec. 10.5)
Urinals Dye Test

[19/W24] ASME A112.19.2 (Sec. 10.6)
Urinals Water Consumption

[19/W25] ASME A112.19.2 (Sec. 8.1)
General

[19/W26] ASME A112.19.2 (Sec. 8.2)
Trap Seal Depth Determination

[19/W27] ASME A112.19.6 (Sec. A2.3.1)
Toilet Paper Test

Thermal Insulation Materials

Accreditation Valid From: January 1, 2007 Through: December 31, 2007

[01/ANOTE] Note:
All NVLAP-accredited test methods under the TIM Program apply only to thermal insulation materials or assemblies of materials used to provide resistance to heat flow, including any accessories, vapor retarders, and facings

- **Mass, Density, and Dimensional Stability**

[01/D02] ASTM C167
Thickness and Density of Blanket or Batt Thermal Insulations

[01/D13] ASTM C519
Density of Fibrous Loose-Fill Building Insulations

[01/D27] ASTM C739 (Sec. 8)
Cellulosic Fiber Loose-Fill Thermal Insulation (Design Density)

- **Related Material Properties**

[01/V04] ASTM E96
Water Vapor Transmission of Materials

- **Thermal Resistance**

[01/T06] ASTM C518
Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

[01/T09] ASTM C653
Thermal Resistance of Low-Density Blanket-Type Mineral Fiber Insulation

[01/T10] ASTM C687
Thermal Resistance of Loose-Fill Building Insulation

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For questions concerning the National Voluntary Laboratory Accreditation Program, contact us:

National Voluntary Laboratory Accreditation Program, Standards Services Division, NIST, 100 Bureau Drive, Stop 2140, Gaithersburg, MD 20899-2140
Phone: (301) 975-4016, Fax: (301) 926-2884, Email: NVLAP@nist.gov

Date created: July 26, 2002

Last Updated: March 28, 2007

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International Accreditation Service, Inc.

CERTIFICATE OF ACCREDITATION

This is to signify that

NAHB RESEARCH CENTER
400 PRINCE GEORGE'S BOULEVARD
UPPER MARLBORO, MARYLAND 20774-8731

Inspection Agency AA-663
Type A (Third-Party) Body
(Revised January 25, 2006)

has demonstrated compliance with the ISO/IEC Standard 17020, *General criteria for the operation of various types of bodies performing inspection*, and has been accredited commencing March 1, 2005, to provide inspection services in the approved scope of accreditation.

(see attached scope of accreditation for type, range, methods and procedures of inspection)

Patrick V. McCullen
Vice President

C. P. Ramani, P.E.
President

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation, revocation, or expiration of accreditation. See the IAS *Accreditation Listings* on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 699-0541. Print Date: 02/09/2006

International Accreditation Service, Inc.

SCOPE OF ACCREDITATION

Inspection Agency AA-663
Type A (Third-Party) Body
(Revised January 25, 2006)

NAHB Research Center
400 Prince George's Boulevard
Upper Marlboro, Maryland 20774-8731

Robert L. Hill
Director, Laboratory Sciences
(301) 430-6244

FIELDS OF INSPECTIONS	TYPE AND RANGE OF INSPECTIONS	INSPECTION METHODS AND PROCEDURES
Plumbing Fixtures	In plant	2000 *International Mechanical Code*
Thermal Insulation	In plant	2000 *International Building Code*, Section 718
Plastic and Composite Lumber	In plant	ICC-ES Acceptance Criteria AC47 and AC174; NAHB PP-801 Quality Assurance Verification for Composite Lumber
Light-gage Steel Framing	In plant	ICC-ES Acceptance Criteria AC46

March 1, 2005
Commencement Date

C. P. Ramani, P.E.
President

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International Accreditation Service, Inc.

SCOPE OF ACCREDITATION

Inspection Agency AA-663
Type A (Third-Party) Body
(Revised January 25, 2006)

FIELDS OF INSPECTIONS	TYPE AND RANGE OF INSPECTIONS	INSPECTION METHODS AND PROCEDURES
OSB Structural Panels	In plant	PS 2-04 NAHB Inspection Procedure PP-820
Manufacturing in Fields Specified Above	Initial or Periodic In-Plant	ICC-ES Acceptance Criteria AC304

March 1, 2005
Commencement Date

C. P. Ramani, P.E.
President

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