

Laboratory Certificate



This certifies that Momentum Technologies, inc. located at 1507 Boettler Road, Uniontown, OH 44685 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:

TAS103 See attached qualifications sheet.	ASTM D449	ASTM D5601	ASTM C957
TAS104 See attached qualifications sheet	ASTM D450 (Except 6.1.3 & 6.1.8)	ASTM D5602	ASTM C1305
TAS110 See attached qualifications sheet	ASTM D1864	ASTM D6380 (Excludes Granule Loss)	ASTM D6083
TAS114 Appendix H (Section 4 only)	ASTM D2521	ASTM D6509	ASTM D6694
TAS114 Appendix I	ASTM D2626	ASTM D6511	
TAS131 (Excludes Sections 10.11, 10.12, 10.13, 10.16, 10.17 & 10.19)	ASTM D2822	ASTM D6152 (Excludes Granule Loss)	
TAS132 See attached qualifications sheet	ASTM D2829	ASTM D6162 (Excludes Granule Loss)	
TAS138	ASTM D2939 (Except 18 & 23-29)	ASTM D6163 (Excludes Granule Loss)	
TAS139	ASTM D3409	ASTM D6164 (Excludes Granule Loss)	
TAS140 (Excludes Xenon Weathering)	ASTM D3617	ASTM D6222 (Excludes Granule Loss)	
TAS141 (Excludes Section 7.6)	ASTM D3909	ASTM D6223 (Excludes Granule Loss)	
TAS142	ASTM D4022 Sections 7.1, 7.2, 7.3, 7.4 & 7.5	ASTM D412	
TAS143	ASTM D4402	ASTM D751	
ASTM D224	ASTM D4586	CAN/CGSB-37.50(Excludes Crack Bridging)	
ASTM D225	ASTM D4601	A2LA Lab Accreditation, per .	
ASTM D226	ASTM D4799	per Certificate No. 2711.01	
ASTM D227	ASTM D4897	ASTM C719	
ASTM D249	ASTM D4990	ASTM C793	

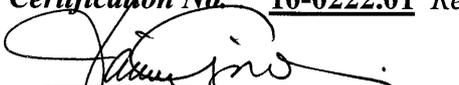
Results of the above mentioned test shall be properly submitted to the Miami-Dade County Building Code Compliance Office per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

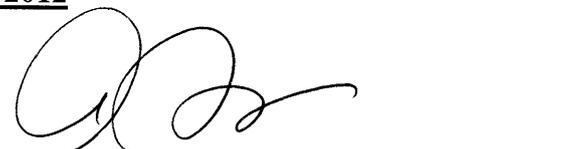
John F. Warmus, P.E., John Easley Nevin, P.E.

This Certification and Registration Approved: March 31, 2010

This Certification and Registration Expires : March 07, 2012

Certification No. : 10-0222.01 Revises: 09-0121.25


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


Americo Segura
BCCO- Quality Assurance Supervisor
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.

Section 3: COAL-TAR PITCH BUILT-UP ROOF SYSTEMS
ASTM D4990
ASTM D227
ASTM D450
ASTM D43 (Excludes Section 5.1.5)

Section 4: SINGLE-PLY ROOF SYSTEM ASSEMBLIES
ASTM D4434
ASTM D4637
ASTM D5019

Section 5: LIQUID POLYETHYLENE ROOF SYSTEM ASSEMBLIES
ASTM D3468 (Excludes Section 9.8)

Section 6: SPRAY-APPLIED POLYURETHANE FOAM ROOF ASSEMBLIES
ASTM D2126
ASTM D1623
ASTM C355

Section 7: COATINGS
ASTM D4479
ASTM D2939

Section 8: ROOFING INSULATION
ASTM D1621
ASTM C203
ASTM E96
ASTM D2126
ASTM C209

Section 10: NON-RIGID, DISCONTINUOUS (SHINGLE) ROOF ASSEMBLIES
ASTM D3462 (Excludes Section 8.1.3 & 8.1.4)
ASTM D3018 (Excludes Section 9.1.2 & 9.1.3)

TASI32 Requirements For Testing and Approval of Sealants Used in Roofing

Section PHYSICAL PROPERTIES

7.1:

ASTM D792
ASTM D412
ASTM D624
ASTM C794
ASTM C661

Section 7.2 PERFORMANCE
All sections



Subject: Approved Test Procedures
Momentum Technologies, inc.
File No. 10-0222.01
Page 1 of 2

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901
FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902
FAX (305) 372-6339

UNDERLAYMENTS:

TASI03 Test Procedure of Self Adhered Underlayments for Use in Discontinuous Roof Systems

- Section 5: Conditioning
- Section 6: Thickness
- Section 8: Dimensional Stability
- Section 9: Tear Resistance
- Section 10: Breaking Strength and Elongation
- Section 11: Water Absorption
- Section 12: Low Temperature Flexibility
- Section 16: Water Vapor Transmission
- Section 17: Compound Stability
- Section 18: Puncture Resistance
- Section 19: Tile Slippage

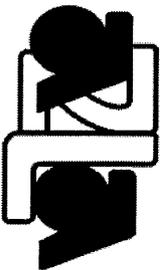
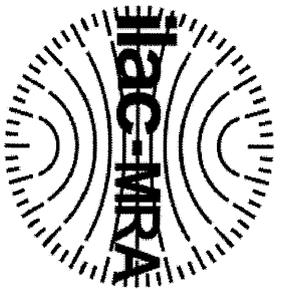
TASI04 Test Procedure for Nail-On Underlayments for Use in Discontinuous Roof Systems

- Section 5: Conditioning
- Section 6: Thickness
- Section 8: Tear Resistance
- Section 9: Breaking Strength and Elongation
- Section 10: Water Absorption
- Section 11: Low Temperature Flexibility
- Section 15: Water Vapor Transmission

PHYSICAL PROPERTY REQUIREMENTS:

TASI10 Physical Property Requirements of Roof Membranes, Insulation Materials, Membrane Coatings and Other Roofing Components

Section 2:	<u>ASPHALT BUILT-UP ROOF SYSTEMS</u>	
	ASTM D228	ASTM D249
	ASTM D4601	ASTM D5147 (Excludes section 13 & 14)
	ASTM D2178	ASTM D312
	ASTM D4897	ASTM D4586
	ASTM D2626	ASTM D4022
	ASTM D371	ASTM D3409
	ASTM D226	ASTM D3747
	ASTM D3909	ASTM D41 (Excludes Section 5.1.1)
	ASTM D224	ASTM D3019



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

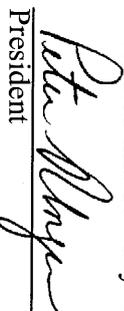
MOMENTUM TECHNOLOGIES, INC.
Uniontown, OH

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).

Presented this 16th day of September 2008.



President

For the Accreditation Council
Certificate Number 2711.01
Valid to August 31, 2010.



For the tests or types of tests to which this accreditation applies,
please refer to the laboratory's Construction Materials Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

MOMENTUM TECHNOLOGIES, INC.
1507 Boettler Rd.
Uniontown, OH 44685
Mr. David W. Dunn Phone: 330 896 5900

Valid To: August 31, 2010

Certificate Number: 2711.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

CONSTRUCTION MATERIALS

Test Method(s):

Test Description:

ASTM C836 (except sections 6.7 and 6.8)	Specification for Liquid Applied Waterproofing Membrane
ASTM D4	Bitumen Content
ASTM D5	Penetration of Bituminous Materials
ASTM D36	Softening Point of Bitumen (Ring and Ball Apparatus)
ASTM D92	Flash Point Cleveland Open Cup
ASTM D113	Ductility of Bituminous Materials
ASTM D140	Sampling Bituminous Compounds
ASTM D146	Bitumen Saturated Felts and Woven Fabrics
ASTM D225 (except sections 9.1.2, 9.1.3 and 9.1.4)	Asphalt Shingles (Organic Felt) Surfaced with Mineral Granules
ASTM D226	Asphalt Saturated Organic Felt
ASTM D227	Coal Tar Saturated Organic Felt
ASTM D228	Asphalt Roll Roofing Cap Sheets and Shingles
ASTM D312	Asphalt Used in Roofing
ASTM D402	Distillation of Cut Back Bituminous Products
ASTM D412	Vulcanized Rubber and Thermoplastic Elastomers-Tension
ASTM D449	Asphalt Used in Dampproofing and Waterproofing
ASTM D450 (except sections 6.1.7 and 6.1.8)	Coal Tar Pitch Used in Roofing, Damp proofing and Waterproofing
ASTM D570	Water Absorption of Plastics
ASTM D573	Rubber-Deterioration in an Air Oven
ASTM D751 (except sections 4.3, 18-21, 41-19, 59-63, 65-70, 77-84, and 89-98)	Coated Fabrics
ASTM D903	Peel or Stripping Strength of Adhesive Bonds
ASTM D1079	Terminology Related to Roofing and Waterproofing
ASTM D1204	Linear Dimensional Changes of Non-rigid Thermoplastic Sheeting or Film at Elevated Temperatures
ASTM D1864	Moisture in Mineral Aggregate Used on Built-up Roofs
ASTM D1876	Peel Resistance of Adhesives (T-Peel Test)

Test Method(s):

ASTM D1970
ASTM D2042
ASTM D2240
ASTM D2415
ASTM D2521
(except section 4.1.7)
ASTM D2523
ASTM D2626
ASTM D2822
ASTM D2824
ASTM D2829
(except section 4)
ASTM D2939
(except sections 12, 18, and 23-28)
ASTM D3909
ASTM D4022
(except sections 7.5 and 7.6)
ASTM D4073
ASTM D4434
ASTM D4586
(except section 20 of ASTM D6511)
ASTM D4601
ASTM D4637
ASTM D4798
ASTM D4799
ASTM D4811
ASTM D4869
(except sections 8.1, 8.2.2, 8.2.3,
8.2.4, 8.3, and ASTM D1922, D6136,
F1087)
ASTM D4897
ASTM D4990
ASTM D5147
(except section 13)
ASTM D5329
(except sections 9, 10, 11, and 15)
ASTM D5386
ASTM D5602
(except sections 10.2.4, 10.2.5, and
10.2.6)
ASTM D5635
ASTM D5801
ASTM D6083
(except ASTM G21 referenced in
Table 2)
ASTM D6152
ASTM D6163
(except section 13 of ASTM D5147)

Test Description:

Self Adhered Polymer Modified Bituminous Sheet
Solubility of Asphalt Materials in trichloroethylene
Rubber Property Durometer Hardness
Ash in Coal Tar and Pitch
Asphalt used in Canal, Ditch, and Pond Linings

Load Strain Properties of Roofing Membrane (Tensile)
Asphalt Saturated and Coated Organic Felt Base
Asphalt Roof Cement
Aluminum Pigment Asphalt Roof Coatings
Sampling and Analysis of Built Up Roof Aggregate Analysis

Emulsified Bitumen Used as Protective Coatings

Asphalt Roll Roofing (Glass Felt) with Granules
Coal Tar Roof Cement Containing Asbestos

Tensile Tear Test of Asphalt Roof Membrane
PVC Sheet Roofing
Asphalt Roof Cement Asbestos Free

Asphalt Coated Glass Fiber Base Sheet
EPDM Sheet Used in Single-Ply Roof Membrane
Accelerated Weathering for Bituminous Materials Xenon Arc
Accelerated Weathering for Bituminous Materials QUV
Non-Vulcanized Rubber Sheet
Asphalt Saturate Organic Felt Used in Underlayment

Asphalt Coated Glass Fiber Venting Base Sheet
Coal Tar Glass Felt Used in Roofing and Waterproofing
Sampling and Testing Modified

Sealant and Fillers, Hot-Applied, for Joints and Cracks in
Asphalt and Portland Cement Pavements
Color of Liquids Using Tristimulus Colorimetry
Static Puncture Resistance

Dynamic Puncture Resistance
Toughness and Tenacity of Bituminous Materials
Liquid Applied Acrylic Coating Used in Roofing Testing for
Elastomeric Roof Coatings

SEBS Modified Mopping Asphalt
SBS Modified Bituminous Sheet Material Glass

Test Method(s):

ASTM D6164
(except section 13 of ASTM D5147)
ASTM D6222
(except section 9.4 and section 13 of
ASTM D5147)
ASTM D6223
(except section 9.4 and section 13 of
ASTM D5147)
ASTM D6380
(except sections 9.2 and 9.6)
ASTM D6509
(except section 8.3 and section 13 of
ASTM D5147)
ASTM D6511
(except section 20)
ASTM D6690
(except sections 7.4, 7.5 and sections
9, 10, 11 and 15 of ASTM D5329)
ASTM D6878
ASTM E96
ICC-ES AC-29
ICC-ES AC-48
(except sections 4.6 and 4.9)
ICC-ES AC-165
CAN/CGSB-37.54-95
(except sections 7.3.6, 7.3.8, 7.3.12,
7.3.13 and 7.3.14)
CAN/CGSB-37.50-M89
(except sections 4.9 and 4.11)
ASTM G155

Test Description:

SBS Modified Bituminous Sheet Material Polyester
APP Modified Bituminous Sheet Material Polyester
APP Modified Bituminous Sheet Material Polyester/Glass
Asphalt Roll Roofing Organic Felt
APP Modified Bituminous Sheet Material Glass
Solvent Bearing Bituminous Compounds
Joint and Crack Sealants, Hot-Applied, for Concrete and Asphalt
Pavements
Thermoplastic Polyolefin Based Sheet Roofing
Water Vapor Transmission of Materials
Fluid Applied Waterproofing
Roof Underlayment for Use in Severe Climate
Asphalt Coated Glass Fiber Mat Roof Underlayment
PVC Roofing and Waterproofing Membrane
Hot Applied Rubberized Asphalt
Xenon Arc (for Exposure of Non-Metallic Materials)