



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

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

NOTICE OF ACCEPTANCE (NOA)

**Firestone Building Products Company
250 West 96th Street
Indianapolis, IN 46260**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Firestone EPDM Single Ply Roof Systems over Recover Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 08-0324.08 and consists of pages 1 through 11.
The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 09-0323.04
Expiration Date: 08/10/13
Approval Date: 09/09/09
Page 1 of 11**

ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Single Ply
<u>Material:</u>	EPDM
<u>Deck Type:</u>	Recover
<u>Maximum Design Pressure</u>	See Specific Assemblies

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Standard RubberGard®	45 & 60 mil	ASTM D 4637 Type I	Non-Reinforced EPDM membrane.
Fire Retardant RubberGard®	45 & 60 mil	ASTM D 4637 Type I	Non-Reinforced Fire Retardant EPDM membrane.
Standard Reinforced RubberGard®	45 & 60 mil	ASTM D 4637 Type II	Polyester scrim reinforced EPDM membrane.
Fire Retardant Reinforced RubberGard®	45 & 60 mil	ASTM D 4637 Type II	Polyester scrim reinforced fire retardant EPDM membrane.
RubberGard MAX®	45, 60 & 75 mil	ASTM D 4637 Type II	Polyester scrim reinforced EPDM membrane.
RubberGard MAX FR®	45, 60 & 75 mil	ASTM D 4637 Type II	Fire Retardant Polyester scrim reinforced EPDM membrane .
RubberGard MAX PT®	45 & 60 mil	ASTM D 4637 Type II	Polyester scrim reinforced EPDM membrane with integrated 3” pre-applied seam tape.
RubberGard Platinum®	90 mil	ASTM D 4637 Type I	Non-Reinforced EPDM membrane.
RubberGard Platinum LS-FR®	90 mil	ASTM D 4637 Type I	Non-Reinforced EPDM membrane.
RubberGard LS-FR®	45 & 60 mil	ASTM D 4637 Type I	Fire Retardant Non-Reinforced EPDM membrane.
RubberGard LS-FR PT®	60 mil	ASTM D 4637 Type I	Fire Retardant Non-Reinforced EPDM membrane with integrated 3” pre-applied seam tape.
RuberGard EcoWhite®	60 mil	ASTM D 4637 Type I	Non-Reinforced, bi-laminate, white on black EPDM membrane.
EPDM Batten Cover Strip	.045" x 8" x 150'	ASTM D 4637	EPDM cover strip
FR EPDM Batten Cover Strips	.045" x 7.5" x 150'	ASTM D 4637	Fire Retardant EPDM cover strip
EPDM FormFlash	various	ASTM D 4811	Self-curing EPDM flashing
Neoprene FormFlash	.060" x 24" x 100' .060" x 48" x 100'	ASTM D 4811	Self-curing neoprene flashing
Reinforced Perimeter Fastening Strip	.045" x 6" x 100'	ASTM D 4637	Non-dusted EPDM reinforced strip for non-penetrating base tie-in details



<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Bonding Adhesive BA-2004 T	5 gallon pail	Proprietary	Neoprene based bonding adhesive
Splice Adhesive SA-1065	1 gallon and 5 gallon pails	Proprietary	Synthetic polymer based adhesive
UltraPly Bonding Adhesive	5 gal. pail	Proprietary	Solvent based adhesive
General Purpose Sealant S-40A	10.3 oz. tube	Proprietary	Silicone sealant
Night Sealant S-30A	10 oz. tube	Proprietary	Synthetic polymer based caulking
Acryli-Top Coating PC-100	5 gallon pail	Proprietary	Acrylic coating
Aluminum Drain Bar	.063" to .110" thick x 4" x 10'	FM 4450	Aluminum termination bar.
Polymer Batten	.050" x 1.0" x 250'	Proprietary	EPDM anchor
Firestone EdgeGard	Various	Proprietary	Roof edging system
QuickPrime, QuickPrime Plus	5 gallon pail	Proprietary	Primer used to clean and prime EPDM
QuickSeam Flashing	.080" x various widths x 100'	Proprietary	Semi-cured EPDM flashing laminated to cure seam tape
QuickSeam Batten Cover	.095" x various widths x 100'	Proprietary	Cured EPDM and a seam adhesive laminate
QuickSeam Joint Cover	.070" x 5.75" diameter	Proprietary	FormFlash with two layers of butyl/EPDM adhesive tape laminate
QuickSeam Splice Tape	3" x 100'	Proprietary	Tape for field splicing
QuickSeam R.M.A. Strip	10" x 100'	Proprietary	Strip of RubberGard MAX with QuickSeam Tape for anchoring membrane to substrate
Splice Wash SW-100	5 gallon pail	Proprietary	Cleaning and prep solution for EPDM
Lap Sealant LS-3029	10 oz. tube, 1 qt. tube and 5 gallon pails	Proprietary	Sealant for membrane laps
Pourable Sealer S-10	.78 gallon, Part A .10 gallon, Part B	Proprietary	Two part polyurethane sealant
Water Block Seal S-20	10 oz. tube	Proprietary	Water sealant
Firestone Protection Mat	15" x 320'	Proprietary	Black polypropylene, non-woven, needle-punched fabric
Firestone Walkway Pads	30" x 30" x .300 thick	Proprietary	EPDM walkway pads



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ACFoam II	Isocyanurate Insulation	Atlas Roofing Corp.
Styropor	Expanded polystyrene insulation	BASF Corp.
Styrofoam	Extruded polystyrene insulation	Dow
ISO 95+ GL, 95+ GW	Isocyanurate Insulation	Firestone
ISO 95+ Composite	Isocyanurate Insulation with perlite facer	Firestone
Fiber Top, FiberTop C	Regular wood fiber insulation	Firestone
RetroGard HD Cover Board	High density polyisocyanurate for use as a cover board	Firestone
IsoGard HD Cover Board	High density polyisocyanurate for use as a cover board	Firestone
Securock	Gypsum cover board	USG Co.
Dens Deck, Dens Deck Prime	Silicon treated gypsum	G-P Products
ENRGY 3, ENRGY PSI-25	Isocyanurate Insulation	Johns Manville
Fesco Foam	Isocyanurate Insulation with perlite facer	Johns Manville
Wood Fiberboard	Regular wood fiber insulation	Generic
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Type X Gypsum	Gypsum Wallboard	Generic
XPS	Extruded polystyrene	Generic
Huntsman EPS	Expanded polystyrene insulation	Huntsman Corp.
FOAMULAR	Extruded polystyrene insulation	Owens Corning
Multi-Max FA	Isocyanurate Insulation	Rmax, Inc.
Thermarroof Composite	Isocyanurate Insulation with perlite facer	Rmax, Inc.



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Firestone All-Purpose Fastener	Insulation and membrane fastener	Various	Firestone
2.	Firestone HD Fastener	Insulation and membrane fastener	Various	Firestone
3.	Firestone Concrete Drive	Insulation and membrane fastener for concrete decks.	Various	Firestone
4.	Barbed Metal Seam Plate	Metal plates used for membrane securement.	2" dia	Firestone
5.	Hexagonal Plate	Insulation attachment hexagonal plate	3- ³ / ₈ " x 2- ⁷ / ₈ "	Firestone
6.	Seam Plate	Membrane seam attachment plate.	2" dia	Firestone
7.	Firestone Polymer Fastener	Insulation and membrane fastener for gypsum decks.	Various	Firestone
8.	Firestone Polymer Metal Plate	Galvalume AZ55 stress plate	3" square	Firestone
9.	Dekfast Fasteners	Insulation and membrane fastener	Various	SFS Intec
10.	Dekfast Hex Plate	Insulation and membrane fastener	Various	SFS Intec
11.	#12 & #14 Roofgrip	Insulation and membrane fastener	Various	OMG
12.	Metal Plate	Galvalume AZ50 stress plate	3" square 3" round	OMG
13.	Plastic Plate	Polyethylene stress plate	3.2" round	OMG
14.	Polymer Gyptec	Insulation and membrane fastener for gypsum decks.	Various	OMG
15.	Polymer Gyptec Metal Plate	Galvalume AZ50 stress plate	3" square	OMG
16.	Olympic Fasteners	Insulation and membrane fastener	Various	OMG
17.	Olympic Standard	Galvalume AZ55 stress plate	3" round	OMG
18.	Olympic Plastic Plates	Plastic plates for fasteners.	3" round	OMG
19.	Rawl Fasteners	Insulation fastener for steel and wood decks	Various	Powers Fasteners Inc.
20.	Rawl Insulation Plate	Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.
21.	HD Insul-Fixx Fastener	Insulation fastener for use in steel and concrete decks	Various	SFS Intec
22.	Insul-Fixx S	Galvalume AZ55 stress plate	3" round	SFS Intec
23.	Insul-Fixx PG	Polyethylene stress plate	3" round	SFS Intec
24.	Tru-Fast HD Fasteners	Insulation and membrane fastener	Various	The Tru-Fast Corp.
25.	Tru-Fast MP-3	Galvalume AZ50 steel plate	3.23" round	The Tru-Fast Corp.



NOA No.: 09-0323.04
 Expiration Date: 08/10/13
 Approval Date: 09/09/09
 Page 5 of 11

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
26.	Tru-Fast Plastic Plate	Polyethylene stress plate	3" round	The Tru-Fast Corp.
27.	Firestone V-Plate	Membrane seam attachment plate.	2¼" dia	Firestone
28.	Firestone HD HailGard Fastener	Fastener for use with OSB and Firestone HailGard products	Various	Firestone

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Underwriters Laboratories, Inc.	Letter	UL790	07/09/93
	88NK1932	UL790	12/08/93
	91NK15494	UL790	02/28/92
	90NK16256	UL790	02/27/91
	91NK7843	UL790	08/06/91
Factory Mutual Research Corp.	J.I. #1V1A7.AM	FM 4470	06/25/92
	J.I. #1W3A4.AM	FM 4470	12/01/92
	J.I. #1T7A3.AM	FM 4470	01/18/92
	J.I. #1V6A9.AM	FM 4470	02/27/92
	J.I. #2W6A2.AM	FM 4470	06/25/93
	J.I.# 2X9A8.AM	FM 4470	06/14/94
	3010822	FM 4470	07/31/02
	3019991	FM 4470	09/20/05
	3011282	FM 4470	08/08/02
3034561	FM 4470	12/08/08	
Trinity ERD	F9240.03.09-1-R1	ASTM D 4637	07/10/09
	F9240.03.09-R12	ASTM D 4637	07/30/09
	F9240.11.08-R1	ASTM D 4637	07/10/09
	F9240.07.08-R2	ASTM D 4637	07/10/09



APPROVED ASSEMBLIES

- Membrane Type:** Single Ply, EPDM, Reinforced, Nonreinforced
- Deck Type 7I:** Recover, Insulated
- Deck Description:** Concrete, cementitious wood fiber, gypsum concrete, wood, steel
- System Type C(1):** Base Layer, Top Layer (optional or required), Membrane

All General and System Limitations shall apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL, ENRGY 3, ENRGY PSI-25, Multi-Max FA, AC Foam II		
Minimum 1.3" thick	See Table 3	1:2 ft ²

Note: If top layer is used, both insulation layers shall be simultaneously fastened; see Top Layer below for fasteners and density.

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
FiberTop		
Minimum ½" thick	See Table 3	1:2 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Barrier:** None.
- Membrane:** Fully adhere any RubberGard® EPDM membrane to the insulation with Firestone Bonding Adhesive BA-2004 T at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).
- Surfacing:** (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal/100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.
- Maximum Design Pressure:** -45 psf (See General Limitation #9)



Membrane Type: Single Ply, EPDM, Reinforced, Nonreinforced
Deck Type 7I: Recover, Insulated
Deck Description: Steel or wood
System Type C(2): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Plywood Minimum 19/32" thick	28	See Below

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Firestone (Reinforced or Non-Reinforced) Standard RubberGard, Fire Retardant RubberGard, RubberGard LS-FR, RubberGard MAX, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered with Firestone Bonding Adhesive BA-2004 T at a rate of 45-60 sq. ft./gal. per side. Roof cover side laps are sealed with Firestone RubberGard SA-1065 Splice Adhesive applied at a rate of 120 lineal feet per gallon or Pliobond 9053 Splice Adhesive applied at a rate of 120 lineal feet per gallon or laps may be sealed with QuickPrime, QuickPrime Plus or QuickPrime Plus LVOC Primer and QuickSeam Splice Tape (FBP-510).

Maximum Design Pressure:
 -45 psf with a fastener density of 1:2.6 ft² (See General Limitation #7)
 -52.5 psf (steel only) with fastener density of 1:1.6 ft² (See General Limitation #7)



Membrane Type: Single Ply, EPDM, Reinforced
Deck Type 7I: Recover, Insulated
Deck Description: Concrete, cementitious wood fiber, gypsum concrete, wood, steel
System Type D(1): Base layer, top layer (optional or required), Membrane

All General and System Limitations shall apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL, ENRGY 3, ENRGY PSI-25, AC Foam II, Multi-Max FA Minimum 1.4" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
FiberTop Minimum 1/2" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See membrane below for fasteners and density.

Barrier: None.

* **Membrane:** Mechanically attach any 7 1/2' Reinforced RubberGard® EPDM membrane with Firestone AP or HD fasteners in 2" Seam Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced RubberGard® EPDM membrane with Firestone AP or HD Fasteners in metal batten strip only 6" o.c. with 7" side laps.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone Seam Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A. Strip spaced 7-1/2 ft. o.c. Any Reinforced RubberGard EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal/100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -52.5 psf. (See General Limitation #9.)



Membrane Type: Single Ply, EPDM, Reinforced
Deck Type 7I: Recover, Insulated
Deck Description: Concrete
System Type D(2): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Mechanically attach Firestone RubberGard MAX® or RubberGard MAX FR® EPDM membrane with Firestone HD fasteners in V-Plates or Seam Plates 6" o.c. within the 7" wide side laps in rows 7 feet o.c. The roof cover laps are adhered by priming both lap surfaces with QuickPrime primer then applying 7" wide QuickSeam Splice Tape.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone Seam Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7 ft. o.c. RubberGard MAX or RubberGard MAX FR EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Maximum Design Pressure: -52.5 psf (See General Limitation #7)



RECOVER SYSTEM LIMITATIONS:

- 1 All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 09-0323.04
Expiration Date: 08/10/13
Approval Date: 09/09/09
Page 11 of 11