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EVALUATION REPORT

Altenloh, Brinck & Co. U.S., Inc. 02105 Williams County Road 12-C Bryan, OH 43506 Evaluation Report A32570.05.12-R1 FL4500-R2 Date of Issuance: 05/15/2012 Revision 1: 10/17/2014

SCOPE:

This Evaluation Report is issued under Rule 61G20-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been designed to comply with the 2010 Florida Building Code sections noted herein.

DESCRIPTION: Trufast Roof Fastening Components

LABELING: Labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity | ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report 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 Evaluation Report consists of pages 1 through 7.

Prepared by:

Robert J.M. Nieminen, P.E. Florida Registration No. 59166, Florida DCA ANE1983

CERTIFICATION OF INDEPENDENCE:



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 10/17/2014 This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

- 1. Exterior Research & Design, LLC. d/b/a Trinity | ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
- 2. Exterior Research & Design, LLC. d/b/a Trinity | ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
- 3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
- 4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
- 5. This is a building code evaluation. Neither Trinity | ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.



ROOFING COMPONENT EVALUATION:

1. SCOPE:

> **Product Category:** Sub-Category:

Roofing **Roofing Fasteners**

Compliance Statement: Trufast Roof Fastening Components, as produced by Altenloh, Brinck & Co. U.S., Inc., have demonstrated compliance with the Florida Building Code through testing in accordance with the Standards set forth herein. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

	• · · · · · · · · · · · · · · · · · · ·						
	Sections	Property		<u>Standard</u>		Year	
	1506.6, 1513.1, 1520.4	Corrosion Resistan	ce	TAS 114(E)		1995	
	1520.4 / TAS 110	Withdrawal & Rup	ture	TAS 117(A)), (B), (C)	1995	
3.	REFERENCES:						
	<u>Entity</u>	Examination		Reference	<u>e</u>	Date	
	ERD (TST 6049)	Withdrawal & Rup	ture	4670.10.95	5-1	10/01/1995	
	ERD (TST 6049)	Withdrawal & Rup	ture	4670.07.97	7-1	07/01/1997	
	ERD (TST 6049)	Withdrawal & Rup	ture	4670.03.01	l-1	09/20/2001	
	ERD (TST 6049)	Withdrawal		E1060.03.0	06	03/14/2006	
	ERD (TST 6049)	Rupture		EO8950.03	3.08-1	03/28/2008	
	ERD (TST 6049)	Withdrawal & Rup		A35880.04		04/03/2012	
	FM (TST 1867)	Corrosion Resistan		0W4A1.AN	Λ	01/07/1993	
	FM (TST 1867)	Corrosion Resistan		3031797		05/19/2008	
	FM (TST 1867)	Corrosion Resistan	ce	3040205	. .	06/08/2010	
	FM (QUA 1860)	Quality Assurance		Inspection	Report	04/08/2014	
4.	PRODUCT DESCRIPTION:						
	4.1 Fasteners:						
	Part Name		Substrates		Head Style	<u>Drive</u>	
	Trufast #12 DP		Wood, Steel		Truss	#3 Phillips	
	Trufast #12 DPH		Wood, Steel		Hex Washer	¼" Hex	
	Trufast #14 HD		Wood, Steel, Conc	rete	Truss	#3 Phillips	
	Trufast #14 Stainless Steel HD		Wood, Steel, Conc	rete	Truss	#3 Phillips	
	Trufast #15 EHD		Wood, Steel		Truss	#3 Phillips	
	Trufast #21 SHD		Wood, Steel		Truss	#3 Phillips	
	Trufast #12 Purlin Fastener (hex drive)		Steel		Hex Washer	¼" Hex	
	Trufast #12 Purlin Fastener (square dri	ve)	Steel		Pancake	#3 Square	
	Trufast Fluted Concrete Nail		Concrete		Pan	N/A	
	Trufast SIP TP Fastener		Wood		Pancake	T-30 6 Lobe	
	Trufast SIP LD Fastener		Wood, Steel, Conc	rete	Pancake	T-30 6 Lobe	
	Trufast SIP HD Fastener		Steel		Pancake	T-30 6 Lobe	
	Trufast TL		CWF, Gypsum		Round	#4 Square	

4.2 Plates & Bars:

Part Name

Trufast 2" Metal Seam Plate Trufast 2" Barbed Metal Seam Plate Trufast 2.4" Barbed Metal Seam Plate Trufast 2.4" Barbed Metal Seam Plate (14 Barb) Trufast 2.4" Scoop Seam Plate Trufast 2-3/4" Barbed Metal Seam Plate (EHD) Trufast 2-3/4" Barbed Metal Seam Plate (SHD) Trufast 3" Metal Insulation Plate Trufast 3" Recessed Metal Insulation Plate

Dimensions

0.030" x 2" diameter Galvalume 0.030" x 2" diameter Galvalume 0.040" x 2.4" diameter Galvalume® 0.040" x 2.4" diameter Galvalume 0.040" x 2.4" diameter Galvalume 0.040" x 2.75" diameter Galvalume® 0.040" x 2.75" diameter Galvalume 0.018" x 3" diameter Galvalume® 0.018" x 3" diameter Galvalume



Part Name	Dimensions				
Trufast TL 3 in. Insulation Plate	0.017" x 3" diameter Galvalume				
Trufast Flat Batten Bar	0.047" x 121" long bar or 220 ft long coil; Galvalume [®] ; holes at 6 or 12-inch o.c.				
Trufast Recessed Batten Bar	0.047" x 121" long b	ar; Galvalume [®] ; holes at 6 or 12-inch o.c., recessed 1/8-inch			
4.3 Pre-Assembled Components:					
Part Name	Substrates	Description			
Trufast 3" Pre-Assembled Insulation Plate	Wood, Steel	Trufast #12 DP with Trufast 3" Metal Insulation Plate or Trufast #12 DPH with Trufast 3" Recessed Metal Insulation Plate			
Trufast FM-75 Base Sheet Fastener	Aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of dual 1.2 in. long rectangular gripping legs and a square cap that is formed from 0.013 in. thick G-90 hot dipped galvanized steel or cold rolled steel that is coated with a black urethane coating. The 2.7 in. diameter plate is formed from 0.013 in. thick Galvalume steel. The fasteners are designed for use in minimum 1 in. thick lightweight vermiculite, perlite or cellular concrete decks but may be used in sound existing poured gypsum decks if they can be driven without damage to the fastener or deck. The fasteners are designed to be installed through a base sheet into roof decks using a Magnetic Driver or Twin Loc Driver.			
Trufast FM-90 Base Sheet Fastener	Cellular or aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of dual 1.7 in. long rectangular gripping legs and a square cap that is formed from 0.013 in. thick G-90 hot dipped galvanized steel or cold rolled steel that is coated with a black urethane coating. The 2.7 in. diameter plate is formed from 0.013 in. thick Galvalume steel. The fasteners are designed for use in minimum 2 in. thick lightweight verniculite, perlite or cellular concrete decks but may be used in sound existing poured gypsum decks if they can be driven without damage to the fastener or deck. The fasteners are designed to be installed through a base sheet into roof decks using a Magnetic Driver or Twin Loc Driver.			
Trufast FM-290 Base Sheet Fastener	Cellular or aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded. The fastener consists of tandem dual 1.7 in. long rectangular gripping legs and a square cap that is formed from 0.013 in. thick G-90 hot dipped galvanized steel or cold rolled steel that is coated with a black urethane coating. The rectangular plate is formed from 0.013 in. thick Galvalume steel. The fasteners are designed for use in minimum 2 in. thick lightweight vermiculite, perlite or cellular concrete decks but may be used in sound existing poured gypsum decks if they can be driven without damage to fastener or deck. The fasteners are designed to be installed through a base sheet into roof decks using a Magnetic Driver or Twin Loc Driver.			
Trufast Insuldeck Loc-Nail Base Sheet Fastener	Cementitious wood fiber	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of a 1-7/8 in. long dual shank and integral head that are formed from 0.022 in. thick Galvalume coated steel. The round 2.7 in. diameter plate is stamped from 0.013 in. thick Galvalume coated steel. The fasteners are designed to be installed through a base sheet or thin insulation into cementitious wood fiber roof decks using an Insuldeck Driver.			
Trufast Twin Loc-Nail Assembled Fastener	Cementitious wood fiber, cellular or aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of a 1.4 in., 1.8 in., 2.8 in., 3.8 in. or 4.8 in. long tapered oval Galvalume or G-90 galvanized steel tube factory assembled to a 2.7 in. diameter Galvalume steel plate and a 0.080 in. diameter carbon or stainless steel locking staple. The fasteners are driven with a Twin Loc-Nail Driver by placing a fastener on the face of the driver with the exposed locking staple positioned in the slot in the face of the driver and driving the fastener into the roof deck with a single impact. A second impact drives the locking staple through the tube/plate assembly until it is flush with the top of the plate, forcing the legs of the locking staple out of the bottom of the tube and into the deck.			

TABLE 1: TYPICAL PERFORMANCE, STATIC WITHDRAWAL, ULTIMATE LOAD (LBF)								
	Substrate							
Fastener	Min. 19/32" plywood	Min. 22 ga., Grade 50 Steel	Min. 2,500 psi concrete	Min. ¹ / ₈ " thick steel	Min. ¼" thick steel	Tectum®	Poured Gypsum	Cellular Lightweight Concrete
Trufast #12 DP or DPH	556	463	N/A	N/A	N/A	N/A	N/A	N/A
Trufast #14 HD	546	522	594	N/A	N/A	N/A	N/A	N/A
Trufast #14 Stainless Steel HD	N/A	527	563	N/A	N/A	N/A	N/A	N/A
Trufast #15 EHD	628	706	834	N/A	N/A	N/A	N/A	N/A
Trufast #21 SHD	N/A	870	N/A	N/A	N/A	N/A	N/A	N/A
Trufast #12 Purlin Fastener (hex or square drive)	N/A	N/A	N/A	1,975	3,753	N/A	N/A	N/A
Trufast Fluted Concrete Nail	N/A	N/A	303	N/A	N/A	N/A	N/A	N/A
Trufast SIP TP Fastener	512	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trufast SIP LD Fastener	540	490	899	N/A	N/A	N/A	N/A	N/A
Trufast SIP HD Fastener	N/A	N/A	N/A	2,043	5,320	N/A	N/A	N/A
Trufast TL	N/A	N/A	N/A	N/A	N/A	505 (1.5" embedment)	400 (7/16" pilot hole, 1.5" embedment)	N/A
Trufast FM-75 Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	N/A	60	60
Trufast FM-90 Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	N/A	60	107
Trufast FM-290 Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	N/A	N/A	164 (200 psi LWC)
Trufast Insuldeck Loc-Nail Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	64	N/A	N/A
Trufast Twin Loc-Nail Assembled Fastener (1.8-inch)	N/A	N/A	N/A	N/A	N/A	137	263 (260 psi gypsum)	No data

TABLE 2: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF) TRUFAST 3" METAL INSULATION PLATE OR TRUFAST TL 3 IN. INSULATION PLATE WITH BASE SHEETS FOR USE IN BUR OR MODIFIED BITUMEN ROOF SYSTEMS					
Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)		
Generic	ASTM D226, Type II Felt	Hot-asphalt	224		
	Glasbase	Hot-asphalt	155		
	Flexiglas Base	Hot-asphalt	253		
	All Weather/Empire Base	Hot-asphalt	215		
CertainTeed Corporation	Flintlastic 20 Base	Hot-asphalt	303		
	Flintlastic Poly SMS Base	Hot-asphalt	372		
	Yosemite Venting Base	Hot-asphalt	248		
	Flintlastic SA NailBase	Self-adhering	278		
	MB Base M	Hot-asphalt	202		
Firestone Building Products Company	Venting Base	Hot-asphalt	227		
company	SBS Base	Hot-asphalt	270		
	GAFGLAS #75 Base Sheet	Hot-asphalt	184		
	GAFGLAS #80 Ultima Base Sheet	Hot-asphalt	152		
GAF	GAFGLAS Stratavent Eliminator (Nailable)	Hot-asphalt	155		
	GAFGLAS FlexPly 6	Hot-asphalt	209		
	Liberty MA Mechanically Attached Base Sheet	Self-adhering	300		
	HPR Glasbase	Hot-asphalt	204		
The Garland Company	HPR Premium Glasbase	Hot-asphalt	224		
	HPR Tri-Base Plus	Hot-asphalt	463		

TABLE 2 (CONTINUED): TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF) TRUFAST 3" METAL INSULATION PLATE OR TRUFAST TL 3 IN. INSULATION PLATE WITH BASE SHEETS FOR USE IN BUR OR MODIFIED BITUMEN ROOF SYSTEMS					
Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)		
	PermaPly 28	Hot-asphalt	185		
	Ventsulation	Hot-asphalt	258		
Johns Manville	GlasPly Premier	Hot-asphalt	216		
	DynaBase	Hot-asphalt	266		
	JM APP Base	Torch-applied	208		
	PRS Glass Base	Hot-asphalt	228		
	PRS Modified Base Sheet	Hot-asphalt	230		
Derbigum USA	PRS Vented Base	Hot-asphalt	202		
	Derbibase	Torch-applied	241		
	Derbibase Ultra	Torch-applied	232		
Siplast	Parabase	Hot-asphalt	251		
Sipiast	Parabase Plus	Hot-asphalt	254		
	Sopra-G	Hot-asphalt	207		
Soprema	Modified Sopra-G	Hot-asphalt	216		
	Soprabase	Hot-asphalt	380		
Tamko	Glass-Base	Hot-asphalt	185		
Татко	Vapor Chan	Hot-asphalt	242		
	USP Base	Hot-asphalt	230		
	USP NVB	Hot-asphalt	202		
U.S. Ply, Inc.	DuraFlex 30 SBS Base	Hot-asphalt	199		
	DuraFlex 60 SBS Base	Hot-asphalt	330		
	DuraFlex SBS PolyBase	Hot-asphalt	368		

TABLE 3: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF) TRUFAST FM-75, FM-90 OR INSULDECK LOC-NAIL BASE SHEET FASTENER WITH BASE SHEETS FOR USE IN BUR OR MODIFIED BITUMEN ROOF SYSTEMS					
Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)		
	Glasbase	Hot-asphalt	212		
CertainTeed Corporation	Flintlastic Poly SMS Base	Hot-asphalt	222		
Firestone Building Products Company	MB Base	Hot-asphalt	175		
64F	GAFGLAS #75 Base Sheet	Hot-asphalt	206		
GAF	GAFGLAS Stratavent Eliminator (Nailable)	Hot-asphalt	178		
Johns Manville	Ventsulation	Hot-asphalt	218		
Ciplant	Parabase	Hot-asphalt	202		
Siplast	Parabase Plus	Hot-asphalt	200		
Contomo	Sopra-G	Hot-asphalt	206		
Soprema	Sopralene 180 Sanded 2.2	Hot-asphalt	214		
Tromas Incornerated	BURMastic Glass Ply	Hot-asphalt	228		
Tremco Incorporated	BURMastic Composite Ply	Hot-asphalt	228		
Visidian Sustana	Multi-Ply Glass	Hot-asphalt	224		
Viridian Systems	Performance Ply	Hot-asphalt	226		

TABLE 4: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)						
TRUFAST TWIN LOC-NAIL ASSEMBLED FASTENER WITH BASE SHEETS FOR USE IN BUR OR MODIFIED BITUMEN ROOF SYSTEMS						
Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)			
	Glasbase	Hot-asphalt	179			
CertainTeed Corporation	Flexiglas Base	Hot-asphalt	240			
	All Weather / Empire Base	Hot-asphalt	249			
Firestone Building Products Company	MB Base	Hot-asphalt	256			
CAE	GAFGLAS #75 Base Sheet	Hot-asphalt	234			
GAF	GAFGLAS Stratavent Eliminator (Nailable)	Hot-asphalt	238			
	PermaPly 28	Hot-asphalt	275			
Johns Manville	Ventsulation	Hot-asphalt	228			
	DynaBase	Hot-asphalt	302			
Ciplest	Parabase	Hot-asphalt	217			
Siplast	Parabase Plus	Hot-asphalt	279			
6	Modified Sopra-G	Hot-asphalt	206			
Soprema	Sopra-G	Hot-asphalt	245			
Tamaka	Glass-Base	Hot-asphalt	234			
Tamko	Vapor Chan	Hot-asphalt	316			
Visidian Custome	Multi-Ply Glass	Hot-asphalt	266			
Viridian Systems	Multi-Ply Glass CL	Hot-asphalt	381			

	TRUFAST FM-290 BASE SHEET FASTENER WITH BASE SHEETS FOR USE IN BUR OR MODIFIED BITUMEN ROOF SYSTEMS					
Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)			
	Glasbase	Hot-asphalt	256			
CertainTeed Corporation	Flexiglas Base	Hot-asphalt	267			
certainieed corporation	Flintlastic Poly SMS Base	Hot-asphalt	372			
	Flintlastic SA NailBase	Self-adhering	156			
	APP 160	Torch-applied	364			
Firestone Building Products	SBS Base	Hot-asphalt	326			
Company	SBS Glass Torch Base	Torch-applied	255			
	SBS Poly Torch Base	Torch-applied	346			
	GAFGLAS #75 Base Sheet	Hot-asphalt	263			
GAF	GAFGLAS #80 Ultima Base Sheet	Hot-asphalt	198			
	GAFGLAS Stratavent Eliminator (Nailable)	Hot-asphalt	263			
	Liberty MA Mechanically Attached Base Sheet	Self-adhering	163			
The Contend Community	HPR Glasbase	Hot-asphalt	280			
The Garland Company	HPR Tri-Base Plus	Torch-applied	451			
	PermaPly 28	Hot-asphalt	273			
Johns Manville	Ventsulation	Hot-asphalt	248			
	DynaBase	Hot-asphalt	306			
Derbigum USA	Derbibase	Torch-applied	260			
Polyglass USA Inc	Elastobase V	Torch-applied	311			
Polyglass USA, Inc.	Elastobase V (poly surface)	Self-adhering	177			
Siplast	Parabase	Hot-asphalt	293			
Contomo	Modified Sopra-G	Hot-asphalt	254			
Soprema	Soprabase	Self-adhering	235			
Tamko	Glass-Base	Hot-asphalt	267			
Тапко	Vapor Chan	Hot-asphalt	272			
Tarco Roofing	EasyBase	Self-adhering	185			
Tremco Incorporated	BURMastic Glass Ply	Hot-asphalt	283			
Treffico fficorporated	BURMastic Composite Ply	Hot-asphalt	462			
	USP Base	Hot-asphalt	287			
U.S. Ply, Inc.	USP NVB	Hot-asphalt	280			
	DuraFlex 30 SBS Base	Hot-asphalt	263			
	Multi-Ply Glass	Hot-asphalt	293			
Viridian Systems	Multi-Ply Glass CL	Hot-asphalt	424			
Viridian Systems	Performance Ply	Hot-asphalt	382			
	Pika Ply HI-TEC 60	Hot-asphalt	461			

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TABLE 6: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF) TRUFAST 2" BARBED METAL SEAM PLATES WITHIN HEAT-WELDED SIDE LAP					
Manufacturer Base Membrane Overlying Application Rupture (lbf)					
CertainTeed Corporation	Flintlastic Poly SMS or Ultra Poly SMS Base	Heat-welded sidelap	330		
Johns Manville	DynaLastic 180 S	Heat-welded sidelap	500		
Soprema	Soprafix(S)	Heat-welded sidelap	515		

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither Trinity ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in the HVHZ.
- 5.3 Trufast Roof Fastening Components are used within roofing systems holding Florida Statewide Product Approval. The products are for use in those roof assemblies that call-out the products listed herein by name. The performance data noted herein may be used by a qualified design professional in conjunction with system performance data for rational analysis and product substitution purposes on a project-by-project, Local Approval basis.
- 5.4 For mechanically attached insulation or membrane over existing roof substrates, fasteners shall be tested in the existing substrate for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with TAS 105 or ANSI/SPRI FX-1.
- 5.5 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 61G20-3.

6. INSTALLATION:

Fasteners, plates and batten bars shall be installed in accordance the manufacturer's published installation instructions and the roof assembly Florida Statewide or Local Product Approval.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING LOCATIONS:

Contact the noted QA agency for information on product locations covered for F.A.C. Rule 61G20-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

FM Approvals - QUA1860; (781) 255-4783

- END OF EVALUATION REPORT -