



**NEMO|etc.**

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**EVALUATION REPORT**

**Tarco Roofing**  
One Information Way, Suite 225  
Little Rock, AR 72202

**Evaluation Report T37910.06.11-R6**  
**FL14672-R6**

**Date of Issuance: 06/23/2011**  
**Revision 6: 08/04/2020**

**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 evaluated for compliance with the **7<sup>th</sup> Edition (2020) Florida Building Code** sections noted herein.

**DESCRIPTION: LeakBarrier® Modified Bitumen Roof Systems**

**LABELING:** Labeling shall be in accordance with the requirements of 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 or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. 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 4, plus a 7-page Appendix.

**Prepared by:**

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



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 08/04/2020. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. NEMO ETC, LLC 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. NEMO ETC, LLC 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 NEMO ETC, LLC 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 SYSTEMS EVALUATION:**
**1. SCOPE:**

**Product Category:** Roofing

**Sub-Category:** Modified Bitumen Roof Systems

**Compliance Statement:** LeakBarrier® Modified Bitumen Roof Systems, as produced by Tarco Roofing, have demonstrated compliance with the following sections of the 7<sup>th</sup> Edition (2020) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind resistance	FM 4474	2011
1504.6	Physical properties	ASTM G155	2013
1504.7	Impact resistance	FM 4470, Section 4.6	2016
1507.1.1	Material standard	ASTM D1970	2015
1507.10.2	Material standard	ASTM D226	2009
1507.10.2	Material standard	ASTM D4601	2012
1507.11.2	Physical Properties	ASTM D6163	2015
1507.11.2	Physical Properties	ASTM D6164	2011
1507.11.2	Material standard	ASTM D6222	2011

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	FM 4474	T36510.05.11	05/12/2011
ERD (TST6049)	FM 4470	T39050.11.11	11/18/2011
ERD (TST6049)	Criticality	T39040.11.11	11/21/2011
ERD (TST6049)	ASTM D6222 (TX)	T35450.12.11	12/21/2011
ERD (TST6049)	FM 4474	K39690SC	03/07/2012
ERD (TST6049)	FM 4470, Section 4.6	T40800.02.12	02/22/2012
ERD (TST6049)	ASTM D6222 (TX)	T43940.05.13	05/01/2013
ERD (TST6049)	ASTM D4601 (TX)	T43410.05.13	05/23/2013
ERD (TST6049)	FM 4474	TAR-SC7960.01.16	01/31/2016
ERD (TST6049)	FM 4474	TAR-SC5670.03.16	03/21/2016
ERD (TST6049)	ASTM D226 (TX)	TAR-SC13965.02.17-R1	02/27/2017
ERD (TST6049)	FM 4474	T6460.06.07-R2	05/26/2017
ERD (TST6049)	ASTM D6163 (TX)	T6470.08.07-R2	06/02/2017
ERD (TST6049)	ASTM D4601 (TX)	TAR-SC16545.11.17	11/01/2017
NEMO (TST6049)	ASTM D6164 (TX)	4-TAR-18-002.04.18	04/16/2018
NEMO (TST6049)	Criticality	4i-TAR-2-SSCRT-01.A	07/17/2020
PRI (TST5878)	ASTM D1970 (TX)	BRY-018-02-01	08/11/2003
Tarco Roofing	FBC Cross-List	Listing Agreement	01/20/2020
UL (QUA1743)	Quality Assurance	Service Confirmation	04/07/2020

**4. PRODUCT DESCRIPTION:**

This Evaluation Report covers **LeakBarrier® Modified Bitumen Roof Systems** installed in accordance with **Tarco Roofing** published installation instructions and the Limitations / Conditions of Use herein. The following products make up the subject systems.

TABLE 1: ROLL-GOODS FOR LEAKBARRIER® MODIFIED BITUMEN ROOF SYSTEMS					
Type	Product	Material Standard			Plant(s)
		Reference	Type	Grade	
Base Sheets	LeakBarrier® EasyLay™	ASTM D226	II	N/A	TX
	LeakBarrier® EasyNailBase™	ASTM D4601	II	N/A	TX
Smooth Surfaced Membranes:	LeakBarrier® MS300	ASTM D1970	N/A	N/A	TX
	TopShield Ice & Water G300	ASTM D1970	N/A	N/A	TX
	LeakBarrier® EasyBase™	ASTM D4601	II	N/A	TX
	LeakBarrier® EasyTorch™ SA Base	ASTM D4601	II	N/A	TX
	LeakBarrier® EasyTorch™ APP Smooth	ASTM D6222	I	S	TX
Granule Surfaced Membranes:	LeakBarrier® EasyStick Plus™	ASTM D6164	I	G	TX
	LeakBarrier® EasyTorch™ APP Granular	ASTM D6222	I	G	TX

**5. LIMITATIONS:**

- 5.1 This is a Building Code Evaluation. Neither NEMO ETC, LLC 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 FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This Evaluation Report does not include evaluation of roof edge termination. Refer to **FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.
- 5.6 Refer to **FBC 1511** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.
- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907, FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.

- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.
- 5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1**, **FM Loss Prevention Data Sheet 1-29**, **Roofing Application Standard RAS 117** and **Roofing Application Standard RAS 137**. Assemblies marked with an asterisk\* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (February 2020)** for Zone 2/3 enhancements.
- 5.7.3 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.
- 5.8 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

**6. INSTALLATION:**

**LeakBarrier® Modified Bitumen Roof Systems** shall be installed in accordance with **Tarco Roofing** published installation instructions, subject to the Limitations / Conditions of Use noted herein.

**7. BUILDING PERMIT REQUIREMENTS:**

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

**8. MANUFACTURING PLANTS:**

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

**9. QUALITY ASSURANCE ENTITY:**

Underwriters Laboratories – QUA1743; (414) 248-6409; Karen.buchmann@us.ul.com

**- THE SEVEN (7) PAGES THAT FOLLOWS FORM PART OF THIS EVALUATION REPORT -**

**APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	2
1B	Wood	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	3
1C	Wood	New or Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet (nails), Bonded Roof Cover	4-5
1D	Wood	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet (screws & plates), Bonded Roof Cover	6
1E	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	7
2A	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	7

**The following notes apply to the systems outlined herein:**

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fasteners shall be of sufficient length for the following engagements:
  - Wood: OMG #12 or #14 HD with OMG 3 in. Galvalume Steel Plate (non-ribbed) or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates. Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment.
- 3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (February 2020).
- 5 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (February 2020) for Zone 2/3 enhancements.
- 6 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 7 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck 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 ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
- 8 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.
- 9 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Recover Applications using System Type C-1, C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation. The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 10 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base Ply	Ply	Cap	
<b>SELF-ADHERING BASE PLY:</b>									
W-1.	Min. 15/32" plywood at max. 24" spans	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-52.5
W-2.	Min. 15/32" plywood at max. 24" spans	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-52.5
W-3.	Min. 15/32" plywood at max. 24" spans	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-52.5
W-4.	Min. 15/32" plywood at max. 24" spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ACFoam II, EnergyGuard Polyiso, ENRGY 3, H-Shield, ISO 95+GL or Multi-Max FA3	Note 2	1 per 1.0 ft <sup>2</sup>	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-82.5
W-5.	Min. 15/32" plywood at max. 24" spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ACFoam II, EnergyGuard Polyiso, ENRGY 3, H-Shield, ISO 95+GL or Multi-Max FA3	Note 2	1 per 1.0 ft <sup>2</sup>	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-82.5
W-6.	Min. 15/32" plywood at max. 24" spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ACFoam II, EnergyGuard Polyiso, ENRGY 3, H-Shield, ISO 95+GL or Multi-Max FA3	Note 2	1 per 1.0 ft <sup>2</sup>	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-82.5
<b>TORCH-APPLIED BASE PLY:</b>									
W-7.	Min. 15/32" plywood at max. 24"	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-52.5

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer		Base Sheet			Roof Cover			MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Ply	Cap Ply	
<b>SELF-ADHERING BASE PLY:</b>										
W-8.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyLay	Note 2	10-inch o.c. in the min. 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-60.0
W-9.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyLay	Note 2	10-inch o.c. in the min. 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-60.0
W-10.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyLay	Note 2	10-inch o.c. in the min. 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-60.0
W-11.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyLay	Note 2	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-135.0
W-12.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyLay	Note 2	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
W-13.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyLay	Note 2	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
W-14.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-135.0
W-15.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
W-16.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
<b>TORCH-APPLIED BASE PLY:</b>										
W-17.	Min. 15/32" plywood at max. 24" spans	Any type, thickness or combination	Loose laid	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0

**TABLE 1C: WOOD DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (nails), BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Base Ply	Ply	Cap Ply	
<b>SELF-ADHERING BASE PLY:</b>								
W-18.	Min. 19/32" plywood at max. 24" spans	EasyLay	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	7-inch o.c. in the 4-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-60.0
W-19.	Min. 19/32" plywood at max. 24" spans	EasyLay	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	7-inch o.c. in the 4-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-60.0
W-20.	Min. 19/32" plywood at max. 24" spans	EasyLay	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	7-inch o.c. in the 4-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-60.0
W-21.	Min. 15/32" plywood at max. 24" spans	EasyLay	Simplex MAXX Cap Fastener	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-82.5
W-22.	Min. 15/32" plywood at max. 24" spans	EasyLay	Simplex MAXX Cap Fastener	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-82.5
W-23.	Min. 15/32" plywood at max. 24" spans	EasyLay	Simplex MAXX Cap Fastener	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-82.5
W-24.	Min. 15/32" plywood at max. 24" spans	EasyLay	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	4-inch o.c. in the 4-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-120.0
W-25.	Min. 15/32" plywood at max. 24" spans	EasyLay	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	4-inch o.c. in the 4-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-120.0
W-26.	Min. 15/32" plywood at max. 24" spans	EasyLay	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	4-inch o.c. in the 4-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-120.0
W-27.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	4-inch o.c. in the 4-inch lap and 4-inch o.c. in five (5), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-120.0



**TABLE 1C: WOOD DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (nails), BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Base Ply	Ply	Cap Ply	
W-28.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	4-inch o.c. in the 4-inch lap and 4-inch o.c. in five (5), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-120.0
W-29.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	4-inch o.c. in the 4-inch lap and 4-inch o.c. in five (5), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-120.0
<b>TORCH-APPLIED BASE PLY:</b>								
W-30.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Simplex MAXX Cap Fastener	9-inch o.c. in the min. 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-45.0*
W-31.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Simplex MAXX Cap Fastener	9-inch o.c. in the min. 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-52.5
W-32.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Simplex MAXX Cap Fastener	6-inch o.c. in the min. 2-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-90.0
W-33.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Simplex MAXX Cap Fastener	6-inch o.c. in the min. 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-105.0
W-34.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	12 ga. annular ring shank nails and min. 32 ga., 1-5/8" diameter tin-caps. (Ref: FBC 1517.5)	4-inch o.c. in the 4-inch lap and 4-inch o.c. in five (5), equally spaced, staggered center rows	(Optional) EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-120.0

**TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (screws & plates), BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Base Ply	Ply	Cap Ply	
<b>SELF-ADHERING BASE PLY:</b>								
W-35.	Min. 15/32" plywood at max. 24" spans	EasyLay	Note 2	10-inch o.c. in the min. 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-60.0
W-36.	Min. 15/32" plywood at max. 24" spans	EasyLay	Note 2	10-inch o.c. in the min. 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-60.0
W-37.	Min. 15/32" plywood at max. 24" spans	EasyLay	Note 2	10-inch o.c. in the min. 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-60.0
W-38.	Min. 15/32" plywood at max. 24" spans	EasyLay	Note 2	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-135.0
W-39.	Min. 15/32" plywood at max. 24" spans	EasyLay	Note 2	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
W-40.	Min. 15/32" plywood at max. 24" spans	EasyLay	Note 2	8-inch o.c. in the min. 4-inch lap and 8-inch o.c. in four (4), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
W-41.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-135.0
W-42.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
W-43.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0
<b>TORCH-APPLIED BASE PLY:</b>								
W-44.	Min. 15/32" plywood at max. 24" spans	EasyNailBase	Note 2	6-inch o.c. in the min. 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	(Optional) EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-135.0

**TABLE 1E: WOOD DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE F: BONDED ROOF COVER**

System No.	Deck (Note 1)		Roof Cover			MDP (psf)
	Type	Joint Treatment	Base Ply	Ply	Cap	
W-45.	Min. 15/32" plywood at max. 24" spans	None	(Optional) EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-75.0
W-46.	Min. 15/32" plywood at max. 24" spans	None	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-75.0
W-47.	Min. 15/32" plywood at max. 24" spans	None	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-75.0
W-48.	Min. 15/32" plywood at max. 24" spans	Plywood joints are covered with 4-inch wide strips of EasyBase, self-adhering, rolled into place to create continuous bond.	(Optional) EasyBase, self-adhering	(Optional) EasyBase, self-adhering	EasyStick Plus, self-adhering	-120.0
W-49.	Min. 15/32" plywood at max. 24" spans	Plywood joints are covered with 4-inch wide strips of EasyBase, self-adhering, rolled into place to create continuous bond.	EasyTorch SA Base, self-adhering	(Optional) EasyTorch SA Base, self-adhering or EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-120.0
W-50.	Min. 15/32" plywood at max. 24" spans	Plywood joints are covered with 4-inch wide strips of EasyBase, self-adhering, rolled into place to create continuous bond.	LeakBarrier MS300 or TopShield Ice & Water G300, self-adhering	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-120.0

**TABLE 2A: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Roof Cover			MDP (psf)
			Base Ply	Ply	Cap	
C-1.	Concrete	ASTM D41	EasyTorch APP Smooth, torch-applied	(Optional) EasyTorch APP Smooth, torch-applied	EasyTorch APP Smooth or Granular, torch-applied	-670.0