



**NEMO|etc.**

Certificate of Authorization #32455  
353 Christian Street, Unit #13  
Oxford, CT 06478  
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

CERTIFY

**EVALUATION REPORT**

**DECRA Roofing Systems, Inc.**  
1230 Railroad Street,  
Corona, CA 92882  
**(951) 272-8180**

**Evaluation Report D30800.12.09-R5**  
**FL9759-R7**  
**Date of Issuance: 12/17/2009**  
**Revision 5: 06/05/2018**

**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 **6<sup>th</sup> Edition (2017) Florida Building Code** sections noted herein.

**DESCRIPTION: DECRA Metal Roofing Systems**

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

**CONTINUED COMPLIANCE:** This Evaluation Report is valid until 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. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. 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 "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 6, plus a 59-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 06/05/2018. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. NEMO|etc. 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. 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. 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:** Non-Structural Metal Roofing

**Compliance Statement:** DECRA Metal Roofing Systems, as produced by DECRA Roofing Systems, Inc., have demonstrated compliance with the following sections of the 6<sup>th</sup> Edition (2017) 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:**

Section	Property	Standard	Year
1504.3.1	Wind	UL 1897	2012
1504.3.1, 1504.3.2	Wind	UL 580	2006
1504.3.2	Wind	TAS 125	2003

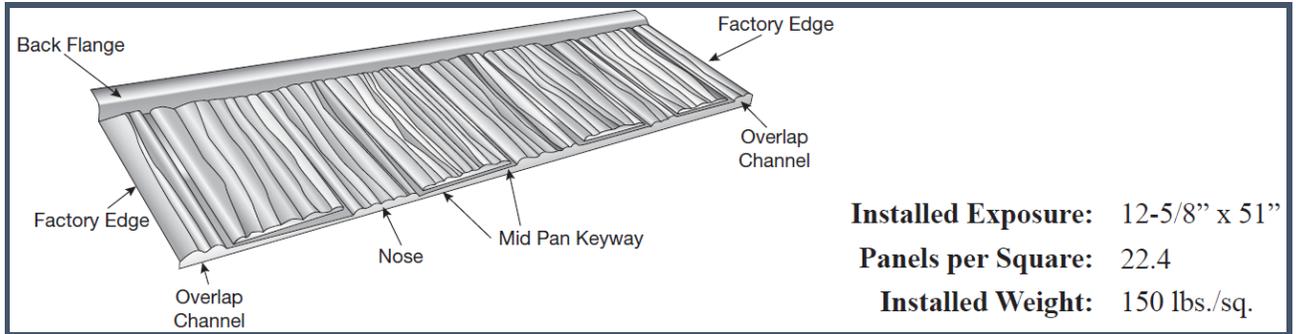
**3. REFERENCES:**

Entity	Examination	Reference	Date
ATI (TST 1558)	Wind Uplift	A1395.01-109-44	08/10/2010
ICC-ES (EVL2369)	IBC/IRC Compliance	ESR-2901	09/01/2017
QAI (TST9808)	Wind Uplift	RJ5761P-1	11/21/2017
UL LLC (EVL 11342)	IBC/IRC Compliance	UL ER14710-01	04/30/2015
UL (TST 9628)	Wind Uplift	01NK28368	09/05/2001
UL (TST 9628)	Wind Uplift	06NK07480	04/12/2006
UL (TST 9628)	Wind Uplift	06NK17480	04/13/2006
UL (TST 9628)	Wind Uplift	07NK09386	06/04/2007
UL (TST 9628)	Wind Uplift	07NK22905	11/12/2007
UL (TST 9628)	Wind Uplift	07NK22905	06/18/2008
UL (TST 9628)	Wind Uplift	07NK22905	06/19/2008
UL (TST 9628)	Wind Uplift	06NK07480	05/02/2009
UL (TST 9628)	Wind Uplift	4786068523	11/21/2013
Metal suppliers	Metal Physicals	Mill Certs	02/28/2018
Miami-Dade (CER1592)	HVHZ Compliance	14-1224.12	02/05/2015
UL LLC (QUA 9625)	Quality Assurance	Inspection Report	09/05/2017

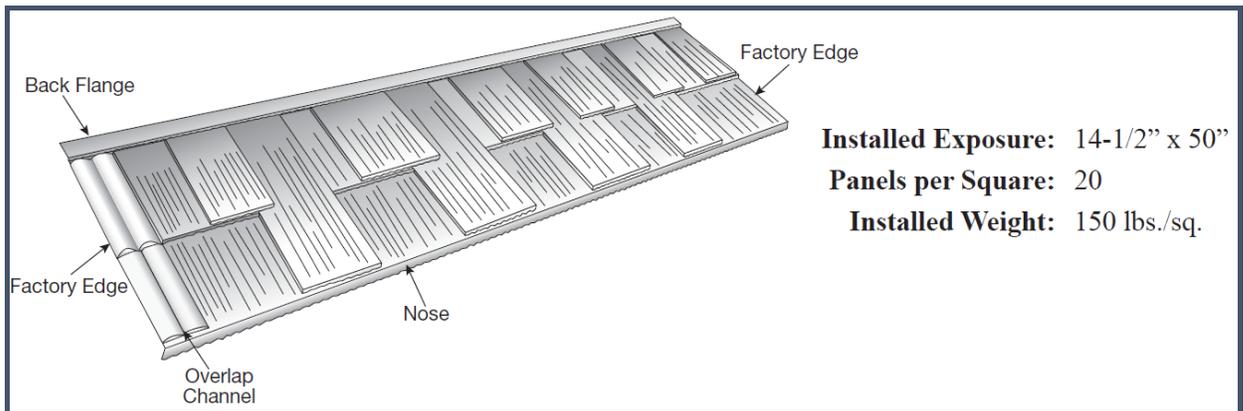
**4. PRODUCT DESCRIPTION:**

The following **DECRA Metal Roofing Systems** are mechanically attached to Approved substrate, as outlined in the Limitations / Conditions of Use herein. Panels are produced from sheet steel complying with ASTM A792, Grade 37 with an AZ50 hot-dip aluminum-zinc alloy coating and a ceramic coated stone granular finish.

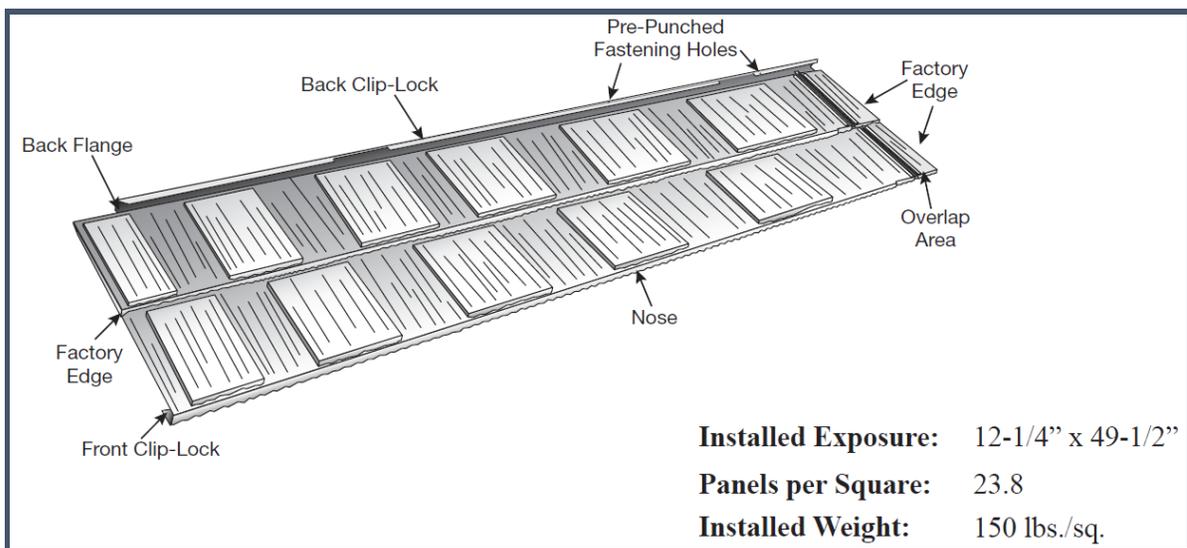
**4.1 DECRA Shake** are 26-ga. formed steel panels that are mechanically attached to batten systems over approved roof decks. DECRA Shake measures 14-5/8 x 53 inches with installed exposure of 12-5/8 x 51 inches.



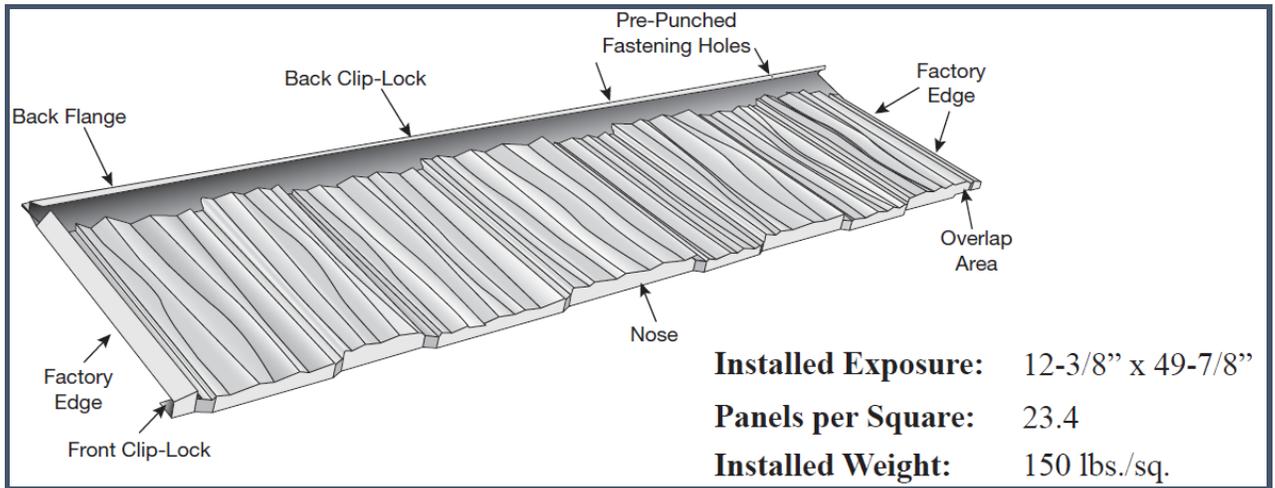
**4.2 DECRA Shingle Plus** are 26-ga. formed steel panels that are mechanically attached to approved decks or to batten systems over approved decks. Shingle Plus measures 16.5 x 52 inches with installed exposure of 14.5 x 50 inches.



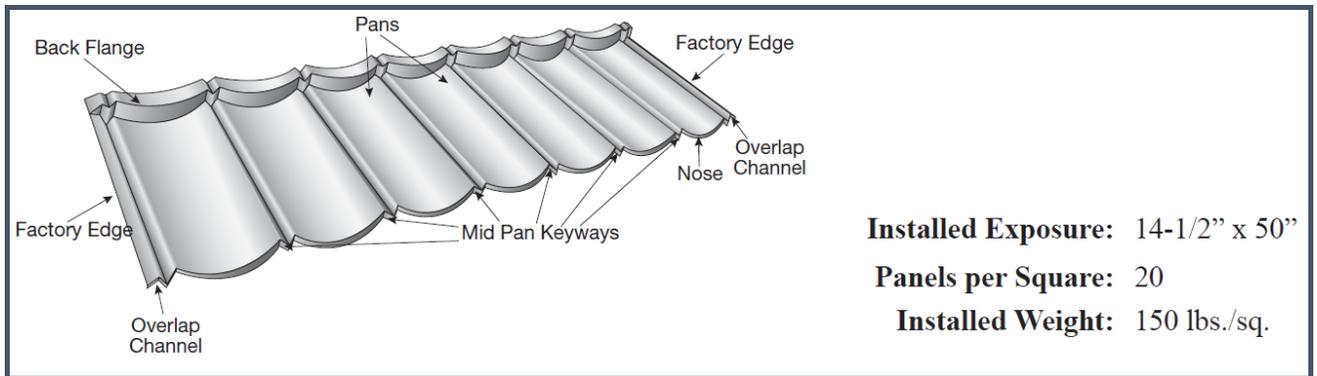
**4.3 DECRA Shingle XD** are 28-ga. formed steel panels that are mechanically attached to approved decks. Shingle XD measure 14.125 x 52.5 inches with installed exposure of 12.25 x 49.5 inches.



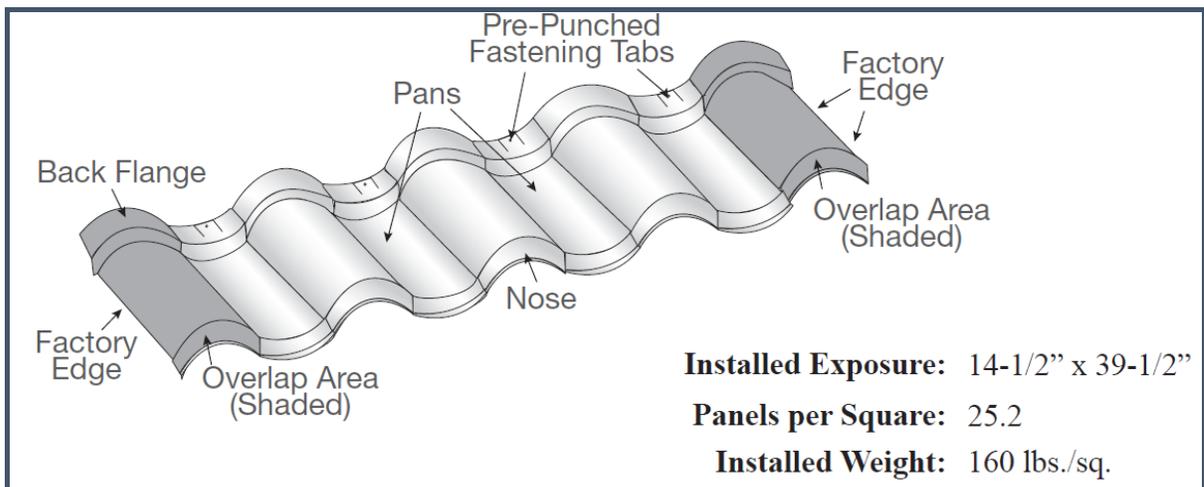
**4.4 DECRA Shake XD** are 26-ga. formed steel panels that are mechanically attached to approved decks. Shake XD measure 14.125 x 52.125 inches with installed exposure of 12.375 x 49.875 inches.



**4.5 DECRA Tile** are 26-ga. formed steel panels that are mechanically attached to batten systems over approved roof decks. DECRA Tile measures 16.5 x 52 inches with installed exposure of 14.5 x 50 inches.



**4.6 DECRA Villa Tile** are 26-ga. formed steel panels that are mechanically attached to approved decks through pre-punched fastening tabs. Villa Tile measure 17 x 44.25 inches with installed exposure of 14.5 x 39.5 inches.



## 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO|etc. 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 HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 The minimum roof slope per **DECRA Roofing Systems** installation instructions is 3:12. Slope shall not be less than that set forth in **FBC 1507.5.2**.
- 5.4.1 If the roof deck is covered with a Florida Statewide Approved low-slope roof system, meeting all Chapter 15 requirements for use below 3:12 slope, then **DECRA Metal Roofing Systems** may be installed below 3:12 roof slope atop the Approved roof system, provided the applicable attachment requirements for the system in Appendix 1 are maintained. Note: In this case, the attachment analysis set forth in Appendix 1 may not apply, depending on the project roof slope
- 5.5 Sheet materials used to produce the panels shall comply with **FBC 1507.5.5**.
- 5.6 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. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- 5.7 Appendix 1 outlines attachment requirements for design wind pressure resistance. "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 pressures. The MDP for the selected assembly shall meet or exceed the design wind pressure requirements for the project for each pressure zone of the roof.
- 5.7.1 Reference to "OK" indicates the system performance exceeds requirements for that pressure zone. Reference to "NO" indicates additional testing or rational analysis by a qualified design professional is required to address that particular pressure zone.
- 5.8 For existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**. A qualified design professional shall review the data for comparison to the minimum requirements for the system.
- 5.9 Perimeter and ridge details shall be designed and installed to resist the wind load requirements of **FBC Chapter 16**.
- 5.10 All products in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**.

## 6. INSTALLATION:

- 6.1 **DECRA Metal Roofing Systems** shall be installed in accordance with **DECRA Roofing Systems, Inc.** published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 System attachment requirements for wind load resistance are set forth in Appendix 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.

**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 PLANTS:**

Corona, CA

**9. QUALITY ASSURANCE ENTITY:**

UL LLC – QUA9625; (414) 248-6409; karen.buchmann@us.ul.com

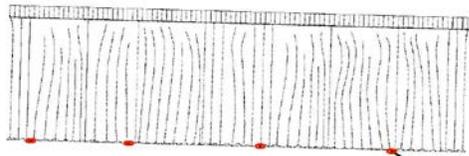
**- THE 59-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -**

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR DESIGN WIND PRESSURE RESISTANCE:						
TABLE	SYSTEM	PRODUCT	APPLICATION		MDP (psf)	PAGE
			METHOD	SCREWS PER PANEL		
A-1	1	Shingle Plus	Direct-deck	4	-65.0	3-5
A-2	2	Shingle Plus	Direct-deck	7	-102.5	6-8
A-3	3	Shingle Plus	Direct-deck	8	-37.5	9-11
A-4	4	Shingle Plus	Direct-deck	16	-97.5	12-14
A-5	5	Shake XD	Direct-deck	5	-78.5	15-17
A-6	6	Shake XD	Direct-deck	10	-153.5	18-20
A-7	7	Shingle XD	Direct-deck	5	-45.0	21-23
A-8	8	Shingle XD	Direct-deck	5	-75.0	24-26
A-9	9	Shingle XD	Direct-deck	10	-75.0	27-29
A-10	10	Shingle XD	Direct-deck	10	-97.5	30-32
A-11	11	Villa Tile	Direct-deck	4	-52.5	33-35
A-12	12	Villa Tile	Direct-deck	4	-52.5	36-37
B-1	13	Shake, Tile, Shingle Plus	Wood battens	4	-86.0	39-41
B-2	14	Shake, Tile, Shingle Plus	Wood battens	7	-153.5	42-44
B-3	15	Villa Tile	Wood battens	12	-153.0	45-47
C-1	16	Shake, Tile, Shingle Plus	Steel battens	4	-59.75	48-50
C-2	17	Shake, Tile, Shingle Plus	Steel battens	7	-116.0	51-53
D-1	18	Shake, Tile, Shingle Plus	Wood counter-battens	4	-78.5	54-56
D-2	19	Shake, Tile, Shingle Plus	Wood counter-battens	7	-146.0	57-59

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. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
2. Unless otherwise noted herein, fire barrier and/or underlayment materials may be any that meets FBC Table 1507.1.1, DECRA minimum requirements, the QA requirements of F.A.C. Rule 61G20-3 and FBC 1505 when installed with the roof cover.
3. "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 pressures.
4. Tables are based on roof cladding design wind pressure requirements for gabled/hipped roofs in accordance with ASCE 7-10, multiplied by 0.6 ( $P_{asd}$ ) for allowable loads.
5. Tables are limited to projects having gable or hip roofs with a mean roof height between 0 and 60 feet, slopes between 7° and 45° (1.5:12 to 12:12 pitch), enclosed buildings (Internal Pressure Coefficient,  $GCP_i = \pm 0.18$ ), no load combinations ( $K_d = 1$ ) and site conditions and location of the structure do not meet all conditions specified in Section 26.8.1 of ASCE 7-10 ( $K_{zt} = 1.0$ ). Analysis for buildings falling outside these constraints shall be on a project-by-project basis by a Florida Registered PE.
6. Reference to "OK" indicates the system performance exceeds project requirements for that pressure zone. Reference to "NO" indicates additional testing or rational analysis by a Florida Registered PE is required to address that particular pressure zone.
7. The dimension of Zones 2 and 3 (perimeters and corners) shall be defined as 10% of the least horizontal plan-view dimension or 40% of the mean roof height, whichever is smaller, but not less than either 4% of the least horizontal plan-view dimension or 3 feet, as outlined in Figures 30.4-2B and 30.4-2C of ASCE 7-10.
8. For existing decks, fasteners shall be tested in the existing deck for withdrawal resistance in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105. A qualified design professional shall review the data for comparison to the minimum requirements for the system.

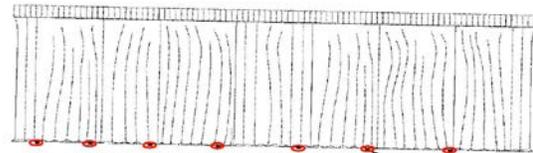
9. For installation over a fire barrier and/or existing asphalt shingles, panel fasteners that engage the roof deck shall be of sufficient length to penetrate the underside of the roof deck by not less than 1-inch.
10. Panel fasteners shall be corrosion resistant.
11. The panel attachment configurations for DECRA Tile, Shake or Shingle Plus noted herein call for either four (4) or seven (7) fasteners per panel. Fastener placement for these configurations are outlined below.

**DECRA Shake**



Approximate fastener locations (4 per full panel) on front portion of panel.

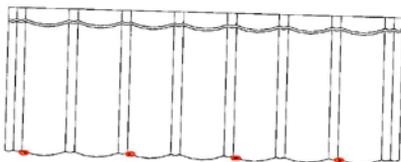
**Four (4) per Panel**



Approximate fastener locations (7 per full panel) on front portion of panel.

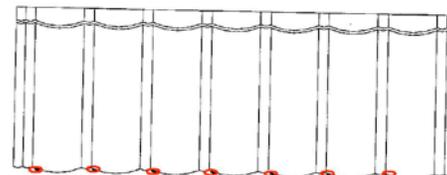
**Seven (7) per Panel**

**DECRA Tile**



Approximate fastener locations (4 per full panel) on front portion of panel.

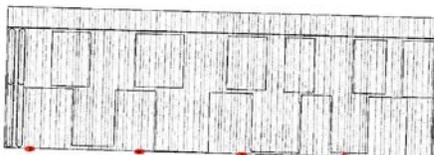
**Four (4) per Panel**



Approximate fastener locations (7 per full panel) on front portion of panel.

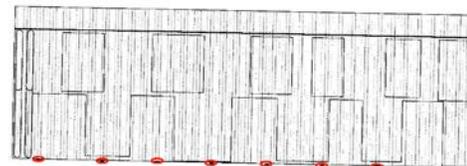
**Seven (7) per Panel**

**DECRA Shingle Plus**



Approximate fastener locations (4 per full panel) on front portion of panel.

**Four (4) per Panel**



Approximate fastener locations (7 per full panel) on front portion of panel.

**Seven (7) per Panel**

**TABLE A-1: DECRA SHINGLE PLUS**  
**WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
1.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	<u>Panels to Deck:</u> No. 8 x min. 1½" long hex head screws at back shelf <u>Panels to Panels:</u> No. 8 x min. 1" long hex head screws through nose of panel	<u>Panels to Deck:</u> Four (4) per panel at back shelf to roof deck <u>Panels to Panels:</u> Four (4) per panel at through nose of panel to attached panels to the next course	-65.0

**TABLE A-1A: SYSTEM NO. 1: DECRA SHINGLE PLUS**  
**EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						

**TABLE A-1B: SYSTEM NO. 1: DECRA SHINGLE PLUS**  
**EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE A-1C: SYSTEM NO. 1: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-1D: SYSTEM NO. 1: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

TABLE A-1E: SYSTEM NO. 1: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-1F: SYSTEM NO. 1: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

**TABLE A-2: DECRA SHINGLE PLUS  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
2.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	<u>Panels to Deck:</u> No. 8 x min. 1½" long hex head screws at back shelf <u>Panels to Panels:</u> No. 8 x min. 1" long hex head screws through nose of panel	<u>Panels to Deck:</u> Seven (7) per panel at back shelf to roof deck <u>Panels to Panels:</u> Seven (7) per panel at through nose of panel to attached panels to the next course	-102.5

**TABLE A-2A SYSTEM NO. 2: DECRA SHINGLE PLUS  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

**TABLE A-2B: SYSTEM NO. 2: DECRA SHINGLE PLUS  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

TABLE A-2C: SYSTEM NO. 2: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE A-2D: SYSTEM NO. 2: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE A-2E: SYSTEM NO. 2: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	NO						
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	NO						

TABLE A-2F: SYSTEM NO. 2: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

**TABLE A-3: DECRA SHINGLE PLUS**  
**WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
3.	Min. 15/32" APA rated Grade CDX plywood	(Optional) See Note 2	See Note 2	Panels to Deck: No. 8 x min. 1½" long hex head screws at nose and at back flange	Panels to Deck: Four (4) per panel at nose and four (4) per panel at back flange to roof deck	-37.5

**TABLE A-3A: SYSTEM NO. 3: DECRA SHINGLE PLUS**  
**EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

**TABLE A-3B: SYSTEM NO. 3: DECRA SHINGLE PLUS**  
**EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						

TABLE A-3C: SYSTEM NO. 3: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	OK	NO							
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-3D: SYSTEM NO. 3: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						
20 < h ≤ 30	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	NO							
30 < h ≤ 40	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-3E: SYSTEM NO. 3: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	OK	NO							
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-3F: SYSTEM NO. 3: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3	OK	OK	NO						
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3	OK	OK	NO						
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

**TABLE A-4: DECRA SHINGLE PLUS  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
4.	Min. 15/32" APA rated Grade CDX plywood	(Optional) See Note 2	See Note 2	<b>Panels to Deck:</b> No. 10 x min. 1½" long needle point hex head screws at nose and at back flange	<b>Panels to Deck:</b> Eight (8) per panel at nose and eight (8) per panel at back flange to roof deck	-97.5

**TABLE A-4A SYSTEM NO. 4: DECRA SHINGLE PLUS  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

**TABLE A-4B: SYSTEM NO. 4: DECRA SHINGLE PLUS  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

TABLE A-4C: SYSTEM NO. 4: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE A-4D: SYSTEM NO. 4: DECRA SHINGLE PLUS										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE A-4E: SYSTEM NO. 4: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							

TABLE A-4F: SYSTEM NO. 4: DECRA SHINGLE PLUS										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE A-5: DECRA SHAKE XD WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)						
System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
5.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	No. 8 x min. 1½" long hex head screws with ¼" head diameter	Spaced 10-inch o.c. with one fastener per panel fastening location for a total of five (5) per panel.	-78.5

TABLE A-5A: SYSTEM NO. 5: DECRA SHAKE XD EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE A-5B: SYSTEM NO. 5: DECRA SHAKE XD EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE A-5C: SYSTEM NO. 5: DECRA SHAKE XD										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	NO						
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	OK	NO						
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							

TABLE A-5D: SYSTEM NO. 5: DECRA SHAKE XD										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE A-5E: SYSTEM NO. 5: DECRA SHAKE XD										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-5F: SYSTEM NO. 5: DECRA SHAKE XD										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

**TABLE A-6: DECRA SHAKE XD**  
**WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
6.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	No. 8 x min. 1½" long hex head screws with ¼" head diameter	Spaced 5-inch o.c. with one fastener per panel fastening location for a total of ten (10) per panel.	-153.5

**TABLE A-6A: SYSTEM NO. 6: DECRA SHAKE XD**  
**EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

**TABLE A-6B: SYSTEM NO. 6: DECRA SHAKE XD**  
**EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE A-6C: SYSTEM NO. 6: DECRA SHAKE XD										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE A-6D: SYSTEM NO. 6: DECRA SHAKE XD										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE A-6E: SYSTEM NO. 6: DECRA SHAKE XD										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE A-6F: SYSTEM NO. 6: DECRA SHAKE XD										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

**TABLE A-7: DECRA SHINGLE XD  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
7.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	Panels to Deck: min. 0.120" diameter x min. 1.25" long ring shank nails (for recover, ensure length for full deck penetration)	Panels to Deck: Five (5) per panel, evenly spaced, 10" o.c.	-45.0

**TABLE A-7A: SYSTEM NO. 7: DECRA SHINGLE XD  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

**TABLE A-7B: SYSTEM NO. 7: DECRA SHINGLE XD  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

TABLE A-7C: SYSTEM NO. 7: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-7D: SYSTEM NO. 7: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						
50 < h ≤ 60	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	NO							

TABLE A-7E: SYSTEM NO. 7: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	OK	NO							
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	OK	NO							
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-7F: SYSTEM NO. 7: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						
20 < h ≤ 30	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	NO							
30 < h ≤ 40	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

**TABLE A-8: DECRA SHINGLE XD  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
8.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	<u>Panels to Deck:</u> min. No. 9-14 x min. 1.25" long hex head screws (for recover, ensure length for full deck penetration)	<u>Panels to Deck:</u> Five (5) per panel, evenly spaced, 10" o.c.	-75.0

TABLE A-8A SYSTEM NO. 8: DECRA SHINGLE XD EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE A-8B: SYSTEM NO. 8: DECRA SHINGLE XD EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE A-8C: SYSTEM NO. 8: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-8D: SYSTEM NO. 8: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE A-8E: SYSTEM NO. 8: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-8F: SYSTEM NO. 8: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

TABLE A-9: DECRA SHINGLE XD WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)						
System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
9.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	Panels to Deck: min. 0.120" diameter x min. 1.25" long ring shank nails (for recover, ensure length for full deck penetration)		-75.0

TABLE A-9A SYSTEM NO. 9: DECRA SHINGLE XD EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE A-9B: SYSTEM NO. 9: DECRA SHINGLE XD EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE A-9C: SYSTEM NO. 9: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-9D: SYSTEM NO. 9: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE A-9E: SYSTEM NO. 9: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-9F: SYSTEM NO. 9: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

TABLE A-10: DECRA SHINGLE XD WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)						
System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
10.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	Panels to Deck: min. No. 9-14 x min. 1.25" long hex head screws (for recover, ensure length for full deck penetration)		-97.5

TABLE A-10A SYSTEM NO. 10: DECRA SHINGLE XD EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE A-10B: SYSTEM NO. 10: DECRA SHINGLE XD EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

TABLE A-10C: SYSTEM NO. 10: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE A-10D: SYSTEM NO. 10: DECRA SHINGLE XD										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE A-10E: SYSTEM NO. 10: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							

TABLE A-10F: SYSTEM NO. 10: DECRA SHINGLE XD										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

**TABLE A-11: DECRA VILLA TILE**  
**WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
11.	Min. 15/32" APA rated Grade CDX plywood	(Optional) See Note 2	See Note 2	No. 8 x min. 1½" long hex head screws	Spaced 10-inch apart with one fastener per tab for total of four fasteners per panel length	-52.5

**TABLE A-11A: SYSTEM NO. 11: DECRA VILLA TILE**  
**EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

**TABLE A-11B: SYSTEM NO. 11: DECRA VILLA TILE**  
**EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE A-11C: SYSTEM NO. 11: DECRA VILLA TILE										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-11D: SYSTEM NO. 11: DECRA VILLA TILE										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE A-11E: SYSTEM NO. 11: DECRA VILLA TILE										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO							
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2	OK	OK	NO						
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-11F: SYSTEM NO. 11: DECRA VILLA TILE										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	NO						
50 < h ≤ 60	1	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	OK	NO							

**TABLE A-12: DECRA VILLA TILE**
**WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Underlay	Panel Attachment		MDP (psf)
				Fasteners	Attachment	
12.	Min. 15/32" APA rated Grade B-C plywood	(Optional) See Note 2	See Note 2	No. 12 x min. 1½" long hex head screws with 5/16" head diameter	Spaced 10-inch apart with one fastener per tab for total of four fasteners per panel length	-76.5

**TABLE A-12A: SYSTEM NO. 12: DECRA VILLA TILE**
**EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

**TABLE A-12B: SYSTEM NO. 12: DECRA VILLA TILE**
**EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE A-12C: SYSTEM NO. 12: DECRA VILLA TILE										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-12D: SYSTEM NO. 12: DECRA VILLA TILE										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE A-12E: SYSTEM NO. 12: DECRA VILLA TILE										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE A-12F: SYSTEM NO. 12: DECRA VILLA TILE										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

**TABLE B-1: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS W/ FOUR SCREWS PER PANEL)  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**

System No.	Deck (See Note 1)	Fire Barrier / Underlay	Battens			Panel Attachment		MDP (psf)
			Type	Fasteners	Attachment	Fasteners	Attachment	
13.	Min. 15/32" APA rated CDX plywood over wood supports spaced max. 24" o.c.	See Note 2	Nominal 2 x 2 inch wood spaced 12-5/8" o.c. for Shake or 14 1/2-inch o.c. for Tile or Shingle Plus	No. 9 x 3 1/2" long coated all-purpose steel exterior wood screws	One (1) screw at each intersection with joists, max. 24" o.c.	No. 8 x min. 1 1/2" long hex head screws	Four (4) per panel	-86.0

**TABLE B-1A: SYSTEM NO. 13: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH FOUR SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

**TABLE B-1B: SYSTEM NO. 13: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH FOUR SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

TABLE B-1C: SYSTEM NO. 13: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH FOUR SCREWS PER PANEL) EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	OK	NO						

TABLE B-1D: SYSTEM NO. 13: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH FOUR SCREWS PER PANEL) EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE B-1E: SYSTEM NO. 13: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH FOUR SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE B-1F: SYSTEM NO. 13: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH FOUR SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

**TABLE B-2: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH SEVEN SCREWS PER PANEL)  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**

System No.	Deck (See Note 1)	Fire Barrier / Underlay	Battens			Panel Attachment		MDP (psf)
			Type	Fasteners	Attachment	Fasteners	Attach	
14.	Min. 15/32" APA rated CDX plywood over wood supports spaced max. 24" o.c.	See Note 2	Nominal 2 x 2 inch wood spaced 12-5/8" o.c. for Shake or 14 1/2-inch o.c. for Tile or Shingle Plus	<u>At Joists:</u> No. 9 x 3 1/2" long coated all-purpose steel exterior wood screws <u>Between Joists:</u> No. 8 x 2 1/2" long coated all-purpose steel exterior wood screws	<u>At Joists:</u> Two (2) screws at each intersection with joists, max. 24" o.c. <u>Bytown Joists:</u> One (1) screw between joists.	No. 8 x min. 1 1/2" long hex head screws	Seven (7) per panel	-153.5

**TABLE B-2A SYSTEM NO. 14: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH SEVEN SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

**TABLE B-2B: SYSTEM NO. 14: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH SEVEN SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE B-2c: SYSTEM NO. 14: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE B-2d: SYSTEM NO. 14: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE B-2E: SYSTEM NO. 14: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE B-2F: SYSTEM NO. 14: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 27° ≤ SLOPE ≤ 45° (6.1:12 ≤ PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

**TABLE B-3: DECRA VILLA TILE**  
**WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER (OVER EXISTING ASPHALT SHINGLES OR BUR)**

System No.	Deck (See Note 1)	Fire Barrier	Under-lay	Battens			Panel Attachment		MDP (psf)
				Type & Spacing	Fasteners	Attach	Fasteners	Attachment	
15.	Min. 15/32" APA rated Grade B-C plywood atop No. 2 grade SPF joists spaced 24" o.c.	(Optional) See Note 2	See Note 2	Nominal 1 x 4 wood battens spaced 14½" o.c.	No. 8 coarse thread, 2½" long with 5/16" head diameter	Two (2) screws per attachment point spaced 24" o.c. into joists	<u>Panels to Battens:</u> No. 12 x min. 1½" long hex head screws with 5/16" head diameter <u>Panels to Panels:</u> No. 8 x min. ¾" long pan head screws	<u>Panels to Battens:</u> 10" o.c. with one screw per shingle fastening tab and one screw next to each tab on both sides of the tab for a total of twelve (12) per panel length. <u>Panels to Panels:</u> 4" o.c. at each panel peak to fasten panel course seams together for a total of eight (8) per panel.	-153.0

**TABLE B-3A: SYSTEM NO. 15: DECRA VILLA TILE**  
**EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

**TABLE B-3B: SYSTEM NO. 15: DECRA VILLA TILE**  
**EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE B-3c: SYSTEM NO. 15: DECRA VILLA TILE										
EXPOSURE C FOR SLOPE RANGE 7° < SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE B-3d: SYSTEM NO. 15: DECRA VILLA TILE										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE B-3E: SYSTEM NO. 15: DECRA VILLA TILE										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE B-3F: SYSTEM NO. 15: DECRA VILLA TILE										
EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

**TABLE C-1: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS W/ FOUR SCREWS PER PANEL)  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**

System No.	Deck (See Note 1)	Fire Barrier / Underlay	Battens			Panel Attachment		MDP (psf)
			Type	Fasteners	Attachment	Fasteners	Attach	
16.	Min. 15/32" APA rated CDX plywood over wood supports spaced max. 24" o.c.	See Note 2	Min. 2.5" x 7/8" steel spaced 12-5/8" o.c. for Shake or 14½-inch o.c. for Tile or Shingle Plus	<u>At Joists:</u> No. 8 x 2½" long hex head steel screws <u>Between Joists:</u> No. 8 x 1½" long hex head steel screws	<u>At Joists:</u> Two (2) screws at each intersection with joists, max. 24" o.c. <u>Between Joists:</u> One (1) set of two (2) screws between joists.	No. 8 x min. 1½" long hex head screws	Four (4) per panel	-59.75

**TABLE C-1A: SYSTEM NO. 16: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH FOUR SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							

**TABLE C-1B: SYSTEM NO. 16: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH FOUR SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE C-1C: SYSTEM NO. 16: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH FOUR SCREWS PER PANEL)										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE C-1D: SYSTEM NO. 16: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH FOUR SCREWS PER PANEL)										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

TABLE C-1E: SYSTEM NO. 16: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH FOUR SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	OK	NO							
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2	OK	OK	OK	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO						
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE C-1F: SYSTEM NO. 16: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH FOUR SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 27° ≤ SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

**TABLE C-2: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH SEVEN SCREWS PER PANEL)  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**

System No.	Deck (See Note 1)	Fire Barrier / Underlay	Battens			Panel Attachment		MDP (psf)
			Type	Fasteners	Attachment	Fasteners	Attach	
17.	Min. 15/32" APA rated CDX plywood over wood supports spaced max. 24" o.c.	See Note 2	Min. 2.5" x 7/8" steel spaced 12-5/8" o.c. for Shake or 14½-inch o.c. for Tile or Shingle Plus	<u>At Joists:</u> No. 8 x 2½" long hex head steel screws <u>Between Joists:</u> No. 8 x 1½" long hex head steel screws	<u>At Joists:</u> Two (2) screws at each intersection with joists, max. 24" o.c. <u>Between Joists:</u> Three (3) sets of two (2) screws equally spaced between joists (6" o.c.)	No. 8 x min. 1½" long hex head screws	Seven (7) per panel	-116.0

**TABLE C-2A SYSTEM NO. 17: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH SEVEN SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

**TABLE C-2B: SYSTEM NO. 17: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH SEVEN SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE C-2c: SYSTEM NO. 17: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

TABLE C-2d: SYSTEM NO. 17: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO

TABLE C-2E: SYSTEM NO. 17: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

TABLE C-2F: SYSTEM NO. 17: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER STEEL BATTENS WITH SEVEN SCREWS PER PANEL)										
EXPOSURE D FOR SLOPE RANGE 27° ≤ SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

**TABLE D-1: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS W/ FOUR SCREWS PER PANEL)  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**

System No.	Deck (See Note 1)	Fire Barrier / Underlay	Battens						Panel Attachment		MDP (psf)
			Counter Battens (Parallel with Slope)			Horizontal Battens			Fasteners	Attach	
			Type	Fasteners	Attach	Type	Fasteners	Attach			
18.	Min. 15/32" APA rated CDX plywood over wood supports spaced max. 24" o.c.	See Note 2	Nominal 1 x 4 inch wood centered over joists, max. 24" o.c.	No. 16 x 3/4" smooth shank box nails	12" o.c.	Nominal 2 x 2 inch wood spaced 12-5/8" o.c. for Shake or 14 1/2-inch o.c. for Tile or Shingle Plus	No. 9 x 3 1/2" long coated all purpose steel exterior wood screws	One (1) screw at each intersection with joists, max. 24" o.c.	No. 8 x min. 1 1/2" long hex head screws	Four (4) per panel	-78.5

**TABLE D-1A: SYSTEM NO. 18: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH FOUR SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO

**TABLE D-1B: SYSTEM NO. 18: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH FOUR SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

TABLE D-1C: SYSTEM NO. 18: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH FOUR SCREWS PER PANEL) EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	OK	OK	NO	NO	NO	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	OK	NO						
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							

TABLE D-1D: SYSTEM NO. 18: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH FOUR SCREWS PER PANEL) EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE D-1E: SYSTEM NO. 18: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH FOUR SCREWS PER PANEL) EXPOSURE D FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3 Overhang	OK	OK	NO						
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	OK	NO							
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	OK	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2	OK	OK	OK	OK	OK	NO	NO	NO	NO
	3	OK	OK	NO						
	2 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO	NO	NO	NO

TABLE D-1F: SYSTEM NO. 18: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH FOUR SCREWS PER PANEL) EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO	NO	NO	NO

**TABLE D-2: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH SEVEN SCREWS PER PANEL)  
WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**

System No.	Deck (See Note 1)	Fire Barrier / Underlay	Battens						Panel Attachment		MDP (psf)
			Counter Battens (Parallel with Slope)			Horizontal Battens			Fasteners	Attach	
			Type	Fasteners	Attach	Type	Fasteners	Attach			
19.	Min. 15/32" APA rated CDX plywood over wood supports spaced max. 24" o.c.	See Note 2	Nominal 1 x 4 inch wood centered over joists, max. 24" o.c.	No. 16 x 3/4" smooth shank box nails	7" o.c.	Nominal 2 x 2 inch wood spaced 12-5/8" o.c. for Shake or 14 1/2-inch o.c. for Tile or Shingle Plus	No. 9 x 3 1/2" long coated all purpose steel exterior wood screws	Two (2) screws at each intersection with joists, max. 24" o.c.	No. 8 x min. 1 1/2" long hex head screws	Seven (7) per panel	-146.0

**TABLE D-2A SYSTEM NO. 19: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH SEVEN SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 7° < SLOPE ≤ 27° (1.5:12 < PITCH ≤ 6.1:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO

**TABLE D-2B: SYSTEM NO. 19: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH SEVEN SCREWS PER PANEL)  
EXPOSURE B FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE D-2c: SYSTEM NO. 19: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH SEVEN SCREWS PER PANEL) EXPOSURE C FOR SLOPE RANGE 7° ≤ SLOPE < 27° (1.5:12 < PITCH ≤ 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO

TABLE D-2d: SYSTEM NO. 19: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH SEVEN SCREWS PER PANEL) EXPOSURE C FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK

TABLE D-2E: SYSTEM NO. 19: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH SEVEN SCREWS PER PANEL) EXPOSURE D FOR SLOPE RANGE 7° < SLOPE < 27° (1.5:12 < PITCH < 6.1:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	OK	NO	NO	NO
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	OK	OK	OK	NO	NO	NO	NO

TABLE D-2F: SYSTEM NO. 19: DECRA SHAKE, TILE OR SHINGLE PLUS (OVER WOOD COUNTER-BATTENS & BATTENS WITH SEVEN SCREWS PER PANEL) EXPOSURE D FOR SLOPE RANGE 27° < SLOPE ≤ 45° (6.1:12 < PITCH ≤ 12:12)										
Mean Roof Height (ft)	Roof Pressure Zone	Basic Wind Speed (mph)								
		110	115	120	130	140	150	160	180	200
0 < h ≤ 15	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
15 < h ≤ 20	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
20 < h ≤ 30	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK	OK	OK	NO