



EXTERIOR RESEARCH & DESIGN, LLC.
 Certificate of Authorization #9503
 353 Christian Street
 Oxford, CT 06478
 PHONE: (203) 262-9245
 FAX: (203) 262-9243

EVALUATION REPORT

DECRA Roofing Systems, Inc.
 1230 Railroad Street,
 Corona, CA 92882

Evaluation Report D30800.10.09-R1
FL11255-R2
Date of Issuance: 10/14/2009
Revision 1: 10/20/2010

SCOPE:

This Evaluation Report is issued under Rule 9B-72 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been designed to comply with the 2007 Florida Building Code sections noted herein.

DESCRIPTION: DECRA Metal Roof Systems

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

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

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

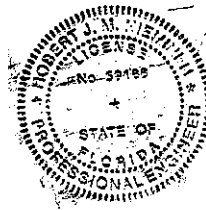
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 5, plus a 19-page Appendix.

Prepared by:

10/20/2010

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 10/20/2010. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

CERTIFICATION OF INDEPENDENCE:

1. Exterior Research & Design, LLC. d/b/a Trinity | ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Exterior Research & Design, LLC. d/b/a Trinity | ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Non-Structural Metal Roofing

Compliance Statement: DECRA Metal Roof Systems, as produced by DECRA Roofing Systems, have demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	UL 1897	1998
1504.3, 2214.3, 2222.4.6	Wind	UL 580	1998
1518.9.1, 1523.6.5.2.4.1	Wind	TAS 125	2003

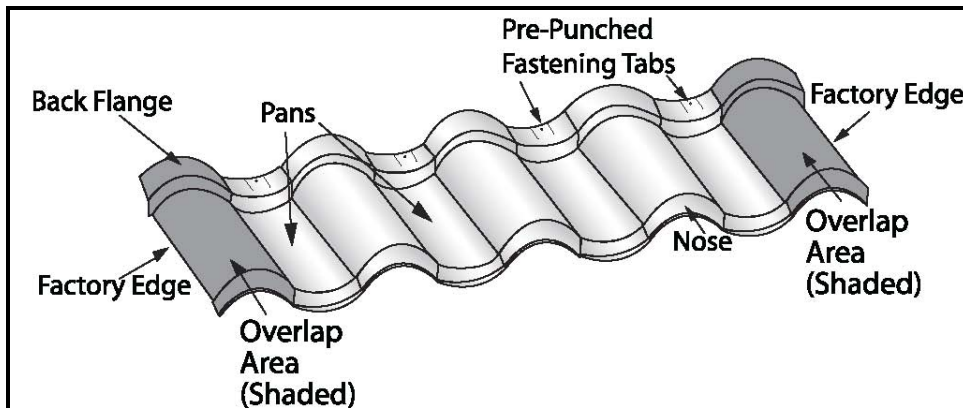
3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
UL (TST 1740)	Wind Uplift	01NK283	09/05/2001
UL (TST 1740)	Wind Uplift	07NK09386	06/04/2007
UL (TST 1740)	Wind Uplift	07NK22905	11/12/2007
UL (TST 1740)	Wind Uplift	07NK22905	06/18/2008
UL (TST 1740)	Wind Uplift	07NK22905	06/19/2008
ATI (TST 1558)	Wind Uplift	A1395.01-109-44	08/10/2010
Metal suppliers	Metal Physicals	Mill Certs	Current
UL (QUA 1743)	Quality Assurance	R14710, 1QA	Exp. 10/06/2013

4. PRODUCT DESCRIPTION:

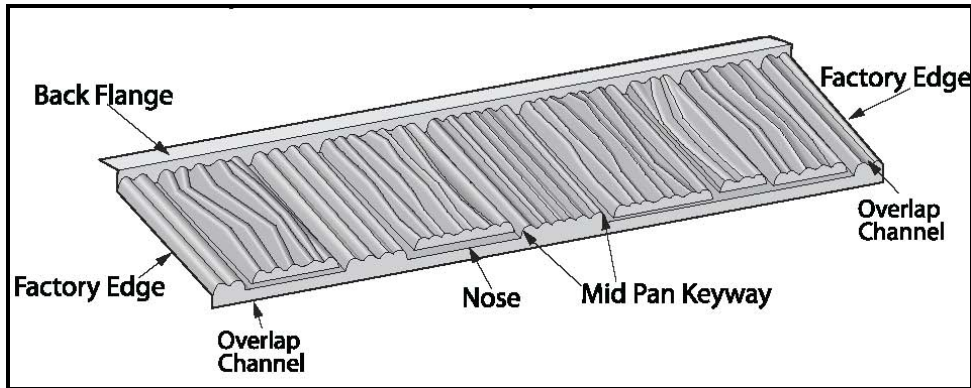
The following DECRA non-structural metal roof panels are mechanically attached to Approved substrate, as outlined in the Limitations / Conditions of Use herein. Panels are produced from sheet steel complying with ASTM A792, Grade 37 with an AZ50 hot-dip aluminum-zinc alloy coating and a ceramic coated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

- **DECRA Villa Tile** is a formed steel panel that is mechanically attached to approved decks through pre-punched fastening tabs. Villa Tile measure 17 x 44.75 inches with installed exposure of 14.5 x 39.375 inches.

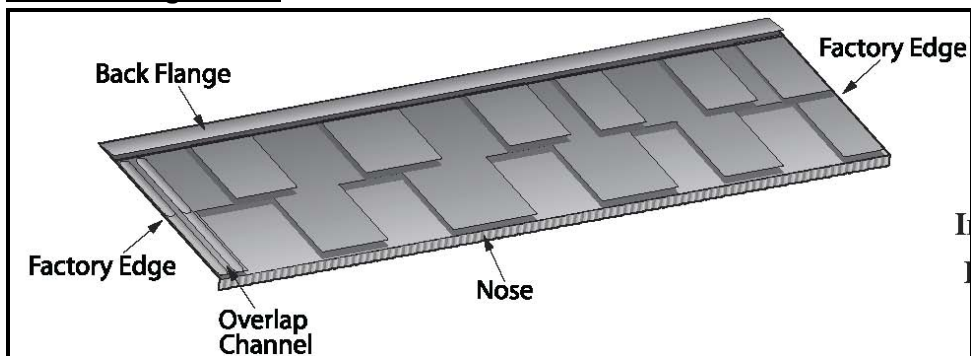


- **DECRA Shake Plus and Shingle Plus** are formed steel panels that are mechanically attached to approved decks. Shake Plus measures 15.5 x 53 inches with installed exposure of 12.625 x 51 inches. Shingle Plus measures 17.5 x 52 inches with installed exposure of 14.5 x 50 inches.

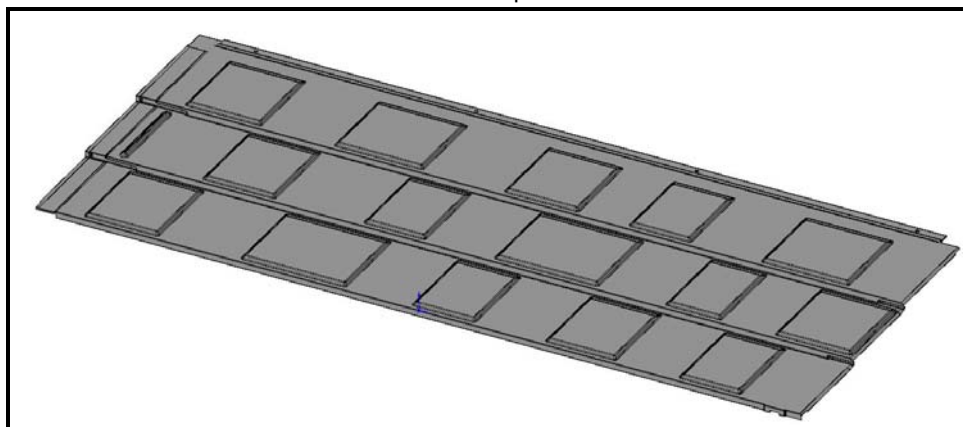
DECRA Shake Plus:



DECRA Shingle Plus:



- **DECRA Shingle** is a formed steel panel that is mechanically attached to approved decks. Shingle measures 21 x 52 inches with installed exposure of 19.75 x 49 inches.

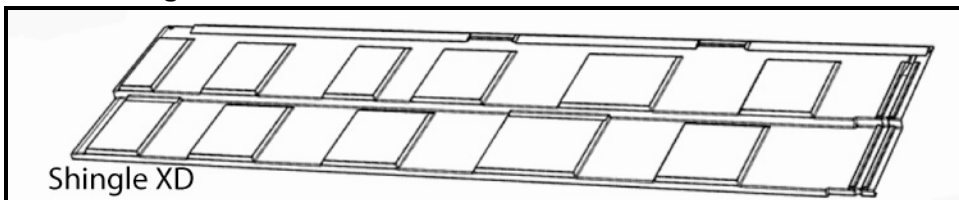


- **DECRA Shake XD & Shingle XD** are formed steel panels that are mechanically attached to approved decks. Shake XD and Shingle XD measure 14.125 x 52.5 inches with installed exposure of 12.625 x 49.75 inches.

DECRA Shake XD:



DECRA Shingle XD:



5. LIMITATIONS:

- 5.1 This evaluation report is not for use in HVHZ.
- 5.2 Refer to a current Roofing Materials Directory for fire ratings of this product.
- 5.3 The minimum roof slope per manufacturer's installation instructions is 3:12. Slope shall not be less than that set forth in FBC 1507.5.2. See 5.3.1 below.
- 5.3.1 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 Roof 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.
- 5.4 Sheet materials used to produce the panels shall comply with FBC Section 1507.5.4.
- 5.5 Unless otherwise noted in Appendix 1, roof decking and its attachment shall be specified and installed to meet project design criteria to the satisfaction of the AHJ. This evaluation is limited to the roof panels and the connections to the deck. The structural adequacy of all structural components (beams, columns, purlins and roof deck etc.) shall be verified by the structural plans examiner of the building department.

- 5.6 Attachment requirements for wind load resistance are set forth in Appendix 1. The selected assembly and associated maximum design pressure for the selected assembly shall meet or exceed those determined in accordance with FBC Chapter 16 for the pressure zone of the roof where the assembly is to be installed.
- 5.6.1 The Tables in Appendix 1 are based on a maximum design pressure established through testing to codified wind uplift standards with a 2 to 1 margin of safety applied to the test results. 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.
- 5.7 For existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system.
- 5.8 Perimeter and ridge details shall be designed and installed to resist the wind load requirements of FBC Chapter 16.
- 5.9 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 9B-72.

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.

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:

Contact the named QA entity for manufacturing facilities covered by F.A.C. Rule 9B-72 QA requirements.

9. QUALITY ASSURANCE ENTITY:

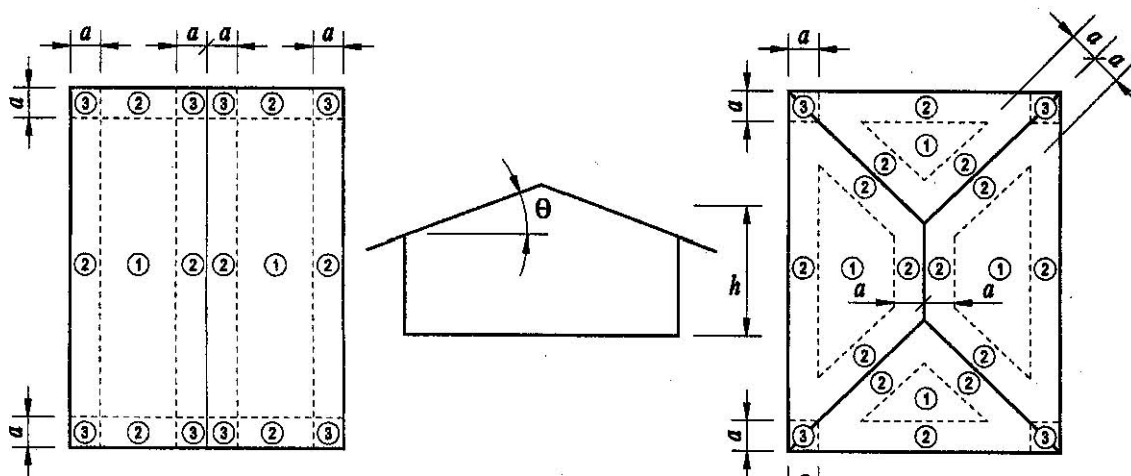
Underwriters Laboratories – QUA1743
(847) 664-3281

- THE 19-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE, DECRA METAL ROOF SYSTEMS:

Table	Product	System	Max Design Pressure	Page
A-1	DECRA Shake Plus, Shingle Plus	1	-65.0 psf	2-3
A-2	DECRA Shake Plus, Shingle Plus	2	-102.5 psf	4-5
B-1	DECRA Villa Tile	3	-52.5 psf	6-7
B-2	DECRA Villa Tile	4	-76.5 psf	8-9
B-3	DECRA Villa Tile	5	-153.0 psf	10-11
C-1	DECRA Shake XD, Shingle XD	6	-78.5 psf	12-13
C-2	DECRA Shake XD, Shingle XD	7	-153.5 psf	14-15
D-1	DECRA Shingle	8	-30.0 psf	16-17
D-2	DECRA Shingle	9	-52.5 psf	18-19

- Unless otherwise noted, roof deck shall be specified and installed in accordance with FBC requirements to the satisfaction of the AHJ, but not less than minimum 15/32" plywood attached with minimum 8d by 2½" long with 9/32" head diameter ring shank nails spaced 6" o.c. at board edges and 6" o.c. at center supports spaced maximum 24" o.c. In re-roofing or recover the above attachment shall be in addition to the existing attachment
- Unless otherwise noted herein, fire barrier and/or underlayment materials may be any that meet DECRA minimum requirements, the QA requirements of F.A.C. Rule 9B-72 and FBC 1505 when installed with the roof cover.
- 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), Category I or II buildings (Importance Factor ≤ 1.0), and enclosed buildings (Internal Pressure Coefficient, $GC_{pi} = \pm 0.18$). Analysis for buildings falling outside these constraints shall be on a project-by-project basis by a Florida Registered PE.
- The Tables that follow are based on a maximum design pressure established through testing to codified wind uplift standards with a 2 to 1 margin of safety applied to the test results. 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.
- 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 6-11C and 6-11D of ASCE 7-05.



- For existing decks, fasteners shall be tested in the existing deck for withdrawal resistance in accordance with TAS 105 or ANSI/SPRI FX-1. A qualified design professional shall review the data for comparison to the minimum requirements for the system.
- 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.
- Panel fasteners shall be corrosion resistant.

A. DECRA SHAKE PLUS & SHINGLE PLUS:

TABLE A-1: DECRA Shake Plus & 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 Shake Plus & Shingle Plus Exposure B for Slope Range 7° < slope ≤ 27° (1.5:12 < pitch ≤ 6.1:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table A-1b: System No. 1: DECRA Shake Plus & Shingle Plus Exposure B for Slope Range 27° < slope ≤ 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO

Table A-1c: System No. 1: DECRA Shake Plus & Shingle Plus Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} < 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	NO	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table A-1d: System No. 1: DECRA Shake Plus & Shingle Plus Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO

TABLE A-2: DECRA Shake Plus & 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 Shake Plus & Shingle Plus Exposure B for Slope Range 7° < slope ≤ 27° (1.5:12 < pitch ≤ 6.1:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	NO	NO	NO

Table A-2b: System No. 2: DECRA Shake Plus & Shingle Plus Exposure B for Slope Range 27° < slope ≤ 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK

Table A-2c: System No. 2: DECRA Shake Plus & Shingle Plus Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	NO
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO

Table A-2d: System No. 2: DECRA Shake Plus & Shingle Plus Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO

B. DECRA VILLA TILE:

TABLE B-1: 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	
3.	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 B-1a: System No. 3: 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	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table B-1b: System No. 3: DECRA Villa Tile Exposure B for Slope Range 27° < slope < 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO

Table B-1c: System No. 3: DECRA Villa Tile Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	NO	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	NO
	2	OK	OK	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	NO
	2	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	NO
	2	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table B-1d: System No. 3: DECRA Villa Tile Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	NO	NO	NO	NO	NO

TABLE B-2: 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		
4.	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 B-2a: System No. 4: 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	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO

Table B-2b: System No. 4: DECRA Villa Tile							
Exposure B for Slope Range 27° < slope < 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO

Table B-2c: System No. 4: DECRA Villa Tile Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table B-2d: System No. 4: DECRA Villa Tile Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	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	
5.	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 tap 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. 5: 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	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	NO

**Table B-3b: System No. 5: DECRA Villa Tile
Exposure B for Slope Range 27° < slope < 45° (6.1:12 < pitch ≤ 12:12)**

Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK

Table B-3c: System No. 5: DECRA Villa Tile Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	NO	NO	NO

Table B-3d: System No. 5: DECRA Villa Tile Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK

C. DECRA SHAKE XD OR SHINGLE XD:

TABLE C-1: DECRA Shake XD or 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	
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 10-inch o.c. with one fastener per panel fastening location for a total of five (5) per panel.	-78.5

Table C-1a: System No. 6: DECRA Shake XD or Shingle XD Exposure B for Slope Range 7° < slope ≤ 27° (1.5:12 < pitch ≤ 6.1:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	OK	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	NO	NO
	2 Overhang	OK	OK	OK	OK	OK	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO

Table C-1b: System No. 6: DECRA Shake XD or Shingle XD Exposure B for Slope Range 27° < slope < 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO

Table C-1c: System No. 6: DECRA Shake XD or Shingle XD Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	NO
	3	OK	OK	OK	NO	NO	NO
	2 Overhang	OK	OK	OK	OK	NO	NO
	3 Overhang	OK	NO	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table C-1d: System No. 6: DECRA Shake XD or Shingle XD Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO

TABLE C-2: DECRA Shake XD or 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	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 C-2a: System No. 7: DECRA Shake XD or Shingle XD Exposure B for Slope Range 7° < slope ≤ 27° (1.5:12 < pitch ≤ 6.1:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	NO

Table C-2b: System No. 7: DECRA Shake XD or Shingle XD Exposure B for Slope Range 27° < slope < 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK

Table C-2c: System No. 7: DECRA Shake XD or Shingle XD Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	OK
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	OK	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	OK	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK
	2 Overhang	OK	OK	OK	OK	OK	OK
	3 Overhang	OK	OK	OK	NO	NO	NO

Table C-2d: System No. 7: DECRA Shake XD or Shingle XD Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	OK	OK

D. DECRA SHINGLE:

TABLE D-1: DECRA Shingle 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	No. 9 x min. 1½" long hex head screws with ¼" head diameter	Four (4) fasteners per panel in pre-formed holes.	-30.0

Table D-1a: System No. 8: DECRA Shingle Exposure B for Slope Range 7° < slope ≤ 27° (1.5:12 < pitch ≤ 6.1:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	NO	NO
	2	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table D-1b: System No. 8: DECRA Shingle Exposure B for Slope Range 27° < slope < 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	NO	NO	NO
	2 & 3	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	NO	NO	NO	NO
	2 & 3	OK	OK	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	NO	NO	NO	NO
	2 & 3	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO

Table D-1c: System No. 8: DECRA Shingle Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	NO	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	NO	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table D-1d: System No. 8: DECRA Shingle Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	NO	NO	NO	NO
	2 & 3	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	NO	NO	NO	NO
	2 & 3	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	NO	NO	NO	NO	NO
	2 & 3	OK	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	NO	NO	NO	NO	NO
	2 & 3	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	NO	NO	NO	NO	NO
	2 & 3	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	NO	NO	NO	NO	NO
	2 & 3	NO	NO	NO	NO	NO	NO
	2 & 3 Overhang	NO	NO	NO	NO	NO	NO

TABLE D-2: DECRA Shingle 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	No. 9 x min. 1½" long hex head screws with ¼" head diameter	Four (4) fasteners in pre-formed holes and four (4) fasteners centered between pre-formed holes for a total of eight (8) per panel.	-52.5

Table D-2a: System No. 9: DECRA Shingle Exposure B for Slope Range 7° < slope ≤ 27° (1.5:12 < pitch ≤ 6.1:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	OK	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	OK	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table D-2b: System No. 9: DECRA Shingle Exposure B for Slope Range 27° < slope ≤ 45° (6.1:12 < pitch ≤ 12:12)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
0 < h ≤ 30	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	OK	NO	NO
30 < h ≤ 40	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	OK
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
40 < h ≤ 50	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	OK	NO	NO	NO
50 < h ≤ 60	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO

Table D-2c: System No. 9: DECRA Shingle Exposure C for Slope Range $7^\circ < \text{slope} < 27^\circ$ ($1.5:12 < \text{pitch} \leq 6.1:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	NO	NO	NO	NO
	3	OK	NO	NO	NO	NO	NO
	2 Overhang	OK	OK	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	NO
	2	OK	OK	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	OK	NO
	2	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	OK	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	OK	NO
	2	OK	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO
	2 Overhang	NO	NO	NO	NO	NO	NO
	3 Overhang	NO	NO	NO	NO	NO	NO

Table D-2d: System No. 9: DECRA Shingle Exposure C for Slope Range $27^\circ < \text{slope} \leq 45^\circ$ ($6.1:12 < \text{pitch} \leq 12:12$)							
Mean Roof Height (ft)	Roof Pressure Zone	Wind Speed (mph)					
		100	110	120	130	140	150
$0 < h \leq 15$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	OK	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$15 < h \leq 20$	1	OK	OK	OK	OK	OK	OK
	2 & 3	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$20 < h \leq 30$	1	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	OK	NO	NO
	2 & 3 Overhang	OK	OK	NO	NO	NO	NO
$30 < h \leq 40$	1	OK	OK	OK	OK	OK	NO
	2 & 3	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	NO	NO	NO	NO	NO
$40 < h \leq 50$	1	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	NO	NO	NO	NO	NO
$50 < h \leq 60$	1	OK	OK	OK	OK	NO	NO
	2 & 3	OK	OK	OK	NO	NO	NO
	2 & 3 Overhang	OK	NO	NO	NO	NO	NO