

From: Rodriguez, Gaspar (RER) [mailto:Gaspar.Rodriguez@miamidade.gov]

Sent: Monday, January 30, 2023 2:34 PM

To: Madani, Mo <Mo.Madani@myfloridalicense.com>

Cc: Gascon, Jaime (RER) <Jaime.Gascon@miamidade.gov>

Subject: RAS 130 MOD R10178

Hello Mo,

The following are comments under the Public Comments provision for the 2023 Code Cycle. These comments are truly editorial, and I believe self-explanatory.

If you have any questions, please contact me.

ROOFING APPLICATION STANDARD (RAS) No. 130-20 INSTALLATION CRITERIA FOR WOOD ROOF SHINGLES AND SHAKES APPLICATION

4.8 The beginning or starter course of wood shingles at the eave line shall be doubled as a minimum. The wood shingles shall be **project** a minimum 3/4 in. to a maximum of 2 in. beyond the drip edge at both eaves and rakes. Spacing between shingles (joints or **keyways**) shall be a minimum of 1/4 in. and a maximum of 3/8 in. Shingles shall be positioned so that they cover the joints in the preceding course and adjacent courses shall be offset a minimum of 1 1/2 in. In any three courses (adjacent), no two joints should be directly aligned (see Detail B).

4.11 Metal flashing materials shall comply with Section 1517.6 of the Florida Building Code, Building. Metal step flashing shall be used at all vertical side walls. The length of the step flashing units shall be 3 in. longer than the exposure of the shingles. The step-flashing unit shall be installed just up slope from the exposed area of the wood shingle, in such a manner as to be covered by the next wood shingle, while maintaining a minimum 3 in. **head lap**. Step flashing metal shall extend 5 in. up the vertical surface and 5 in. horizontally onto the wood shingle. Nail each step-flashing unit near the upper corner. Location of the shingle fasteners must be adjusted to **insure ensure** that the step flashing is not penetrated. Vertical head walls shall be flashed with apron type metal flashing. Wood shingles shall be installed up to the vertical head wall and out over the top course of wood shingles a minimum of 5 in. Wall treatment or flashing or headwall flashing a minimum of 3 in. and shall terminate a minimum of 1 in. above the surface

of the wood shingles. Metal counter flashing shall be installed in compliance with Roofing Application Standard RAS 111.

5.10 Hip and ridges may be installed from pre-manufactured units or field assembled units from manufacturer's shakes. The exposed juncture of the roof hip and ridge areas shall be covered with a minimum 6 in. wide strip of ASTM D226 Type II ~~organic felt~~ or Approved ASTM D8257 synthetic underlayment, prior to installing the hip and ridge units. No felt shall be left exposed. Lay alternate overlapping hip and ridge units, starting with a double starter course. The weather exposure of the hip and ridge units shall be the same exposure as the field shingles. Each side of the hip and ridge units shall be a minimum of 4 in. wide. Each hip and ridge unit shall be fastened to the roof with two fasteners of the same type as that used for the field shakes. Fasteners shall be of sufficient length to penetrate the plywood panel or wood plank decking not less than 3/16 in.; or to penetrate into a 1 in., or greater, thickness of lumber not less than 1 in. Nails shall be driven straight and flush. Nails shall not be overdriven. (see Detail C).

5.11 Metal flashing materials shall comply with Section 1517.6 of the Florida Building Code, Building. Metal step flashing shall be used at all vertical side walls. The length of the step flashing units shall be 3 in. longer than the exposure of the shakes. The step-flashing unit shall be installed just up slope from the exposed area of the wood shake, in such a manner as to be covered by the next wood shake while maintaining a minimum 3 in. head lap. Step flashing metal shall extend 5 in. up the vertical surface and 5 in. horizontally onto the wood shake. Nail each step-flashing unit near the upper corner. Location of the shake fasteners must be adjusted to insure ensure that the step flashing is not penetrated. Vertical head walls shall be flashed with apron type metal flashing. Wood shake shall be installed up to the vertical head wall. The head wall flashing shall then be installed to extend up the vertical surface 5 in., and out over the top course of wood shake a minimum of 5 in. Wall treatment or metal counterflashing shall be brought down over all vertical flanges of the step flashing or head wall flashing a minimum of 3 in. and shall terminate a minimum of 1 in. above the surface of the wood shake. Metal counterflashing shall be installed in compliance with RAS 111.

(R10178 AS)

From: Rodriguez, Gaspar (RER) [mailto:Gaspar.Rodriguez@miamidade.gov]
Sent: Monday, January 30, 2023 2:34 PM
To: Madani, Mo <Mo.Madani@myfloridalicense.com>
Cc: Gascon, Jaime (RER) <Jaime.Gascon@miamidade.gov>
Subject: FBC MOD R10146

The following is a comment under the Public Comments provision for the 2023 Code Cycle.

This comment is strictly regarding the misspelled word, Mechanically.

If you have any questions, please contact me.

**TESTING APPLICATION STANDARD (TAS) No. 110-2000
TESTING REQUIREMENTS FOR PHYSICAL PROPERTIES OF ROOF
MEMBRANES, INSULATION, COATINGS AND OTHER ROOFING COMPONENTS**

18. Referenced Standards

**ASTM D8257-20 Standard Specification for Mechanically Attached Polymeric Roof Underlayment
Used in Steep Slope Roofing**

(R10146 AS)

From: Rodriguez, Gaspar (RER) [mailto:Gaspar.Rodriguez@miamidade.gov]
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To: Madani, Mo <Mo.Madani@myfloridalicense.com>
Cc: Gascon, Jaime (RER) <Jaime.Gascon@miamidade.gov>
Subject: TAS 100(A) MOD R9907

Hello Mo,

The following are comments under the Public Comments provision for the 2023 Code Cycle.

These comments are truly editorial, and I believe self-explanatory.

**TESTING APPLICATION STANDARD (TAS) No. 100(A)-95
TEST PROCEDURE FOR WIND AND WIND DRIVEN RAIN
RESISTANCE AND/OR INCREASED WINDSPEED RESISTANCE OF
SOFFIT VENTILATION STRIP AND CONTINUOUS OR INTERMITTENT**

VENTILATION SYSTEM INSTALLED AT THE RIDGE AREA

5. Apparatus

5.1 The Test Frame

5.1.1 The test frame shall consist of a base structure of sufficient dimensions to hold the test specimen noted in Section 8, constructed from wood or steel framing, and a wood deck, constructed from plywood sheathing. ~~Deck support joists shall be placed at 24 in. centers. (See~~

~~Figure 1.) The deck slopes, on the windward and leeward side, shall be adjustable or multiple interchangeable decks shall be available to test assemblies at slopes of 2 in., 4 in. and 6 in. in 12 in.~~ The deck support assembly shall be capable of supporting not less than 55 lbs per square foot of dead load. The windward end and each side of the test frame shall be covered with plywood to ~~insure ensure~~ soffit to ridge airflow.

8.1.4 A tray or other means of collecting water shall be installed on the underside of the ridge and/or deck area to capture any water which infiltrates the ridge area ventilation system. The tray or other means shall be sized and configured to ~~insure ensure~~ that all water penetrating the ridge area ventilation system or the ventilation unit, is captured.

(R9907)

From: Rodriguez, Gaspar (RER) [mailto:Gaspar.Rodriguez@miamidade.gov]
Sent: Monday, January 30, 2023 2:33 PM
To: Madani, Mo <Mo.Madani@myfloridalicense.com>
Cc: Gascon, Jaime (RER) <Jaime.Gascon@miamidade.gov>
Subject: RAS 120 MOD R9917

Hello Mo,

The following are comments under the Public Comments provision for the 2023 Code Cycle.

Considering the approved modification allowing self-adhered underlayment installation directly onto Wood, we feel the following comments need to be incorporated in the Code. The changes will more clearly and precisely indicate that all tile underlayment systems must be provided with a product approval. The reserving of the sections into one section is to allow inclusion of any system be it, hot applied, cold applied, single-ply etc...

**ROOFING APPLICATION STANDARD (RAS) No. 120-20
MORTAR AND ADHESIVE SET TILE APPLICATION**

RAS 120-23

Mortar and Adhesive Set

Roof Pitch	Choice of Underlayment	Plastic or Compatible Roof Cement at Nails Penetrating Underlayment	Reference
2: 12" or greater	1. ASTM D226 Type II (#30) or ASTM D2626 (#43) organic base sheet nailed to deck, min. (#90) ASTM D6380, Class M or WS, Type II organic cap sheet set in Type IV hot asphalt.	Required	3.01A

	2. Any Product Approved Underlayment System with a mechanically fastened base sheet, and cap sheet set in hot, cold or self-adhered.	Per Product Approval	3.01B, C, D or E
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RAS 120-23

PART III—EXECUTION 3.01 Underlayment Applications—

CHOOSE ONE of the following:

NOTE #2: Anchor/base sheet shall have a minimum of two plies in the valleys. Capsheets for mortar set systems shall be mineral surfaced. A No. 30 or No. 43 can be used as a dry-in prior to installing the underlayment with this system.

A. Hot Mop 30/90, Hot Mop 43/90 (See Drawing 1). A No. 30 or No 43 anchor/ base sheet ASTM D226, Type II, or ASTM D2626 shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field, and 6 in. on center at the laps. Extend anchor/base sheet a minimum of 4 in. up vertical surfaces. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over installed anchor/base sheet, apply one layer of mineral surfaced cap sheet ASTM D6380M in full 25 lb./sq, ± 15 percent mopping of asphalt. End laps shall be a minimum of 6 in.; head laps shall be a minimum of 3 in. and back nailed 12 in. on center with approved nails through tincaps or by Miami-Dade listed prefabricated fasteners in accordance with Florida Building Code, Building 1517.5.1 and 1517.5.2. NOTE #3: The above system may be upgraded by hot mopping an interply of ASTM listed fiberglass or perforated organic felt to the anchor sheet before applying the cap sheet. Asphalt application shall be per above specifications.

B. ~~Hot Applied~~ Product Approved Underlayment System supported with applicable uplift testing (TAS 114, FM4474 or UL 1897). (see Drawing 1). An anchor/base sheet shall be mechanically attached to the wood deck (unless directed otherwise by Product Approval) with approved fasteners spaced in a 12 in. grid staggered in two rows in the field, and 6 in. on center at the laps or as specified in the underlayment manufacturer's Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over installed anchor/base sheet, apply one layer of cap sheet in a full 25# /sq. ±15 percent mopping of asphalt. End laps shall be a minimum of 6 in. on center; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tincaps or by prefabricated fasteners in accordance with Florida Building Code, Building 1517.5.1 and 1517.5.2.

C. **Reserved.** Cold Applied Product Approved Underlayment System (see Drawing 1). An anchor/base sheet shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field and 6 in. on center at the laps or as specified in the underlayment manufacturers Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over anchor/base sheet, apply one layer of cap sheet in a continuous layer of cold process adhesive at the rate of 1.5 gallons per 100 square feet or at the rate if so stated in the Product Approval. Adhesive shall be applied uniformly in accordance with Product

Approval with a squeegee or knotted brush. Cap sheet side laps shall be a minimum of 6 in.; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tincaps or by prefabricated fasteners in accordance with Florida Building Code, Building 1517.5.1 and 1517.5.2.

D. **Reserved.** Product Approved Anchor/Base Sheet/ Self-Adhered Underlayment System. The roof cover is terminated at approved metal flashings. Any approved anchor/ base sheet as listed in the Product Approval shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field and 6 in. on center at the laps or as specified in the underlayment manufacturers Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over anchor /base sheet, apply one layer of any Product approved, self-adhered underlayment in compliance with the self-adhered underlayment manufacturers' Approval/Requirements. Head laps shall be backnailed 12 inch on center with approved nails through tincaps or by prefabricated fasteners in accordance with Sections 1517.5.1 and 1517.5.2 Florida Building Code, Building.

E. **Reserved.** Self-Adhered Underlayment (Single Ply). A single ply underlayment system utilizing any Product approved selfadhered underlayment. The roof cover is terminated at approved metal flashings. Apply one layer of any selfadhered underlayment in compliance with the underlayment manufacturers' approved/requirements.

(R9917)

From: Rodriguez, Gaspar (RER) [mailto:Gaspar.Rodriguez@miamidade.gov]
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Cc: Gascon, Jaime (RER) <Jaime.Gascon@miamidade.gov>
Subject: RAS 118 MOD R9915

**ROOFING APPLICATION STANDARD (RAS) No. 118-20
 INSTALLATION OF MECHANICALLY FASTENED ROOF TILE SYSTEMS
 Direct Deck & Counter Battens Only**

RAS 118-23

Direct Deck & Counter Battens Only

Roof Pitch	Counter Battens or Direct Deck	Choice of Underlayment	Plastic or Compatible Roof Cement at Nails Penetrating Underlayment	Reference
4: 12" or greater	Either	1. ASTM D226 Type II (#30) or ASTM D2626 (#43) organic base sheet nailed to deck, min. (#90) ASTM D6380, Class M or WS, Type II organic cap sheet set in Type IV hot asphalt.	Required	3.01A
	Either	2. Any Product Approval Approved Underlayment System with a mechanically	Per Product Approval	3.01B, Cor D

		fastened base sheet, and cap sheet set in hot, cold or self-adhered.		
	Either	3. Product Approval Listed Approved nail on single ply underlayment.	Per Product Approval	3.01E

RAS 118-23

PART III—EXECUTION 3.01

Underlayment Applications—CHOOSE ONE of the following:

NOTE #3: Anchor/base sheet shall have a minimum of two plies in the valleys. A No. 30 or No. 43 can be used as a dry in prior to installing the underlayment with this system.

A. Hot Mop 30/90, Hot Mop 43/90 (see Drawing 1). A No. 30 or No 43 anchor/ base sheet ASTM D226, Type II, or ASTM D2626 shall be mechanically attached to the wood deck with approved fasteners spaced in a 12-in. grid staggered in two rows in the field, and 6 in. on center at the laps. Extend anchor/base sheet a minimum of 4 in. up vertical surfaces. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over installed anchor/base sheet, apply one layer of mineral surfaced cap sheet ASTM D6380 in full 25 lb./sq, ± 15 percent mopping of asphalt. End laps shall be a minimum of 6 in.; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tin caps or by Miami-Dade listed for corrosion resistance prefabricated fasteners in accordance with Florida Building Code, Building Sections 1517.5.1 and 1517.5.2.

NOTE #4: The above system may be upgraded by hot mopping an interply of ASTM listed fiberglass or perforated organic felt to the anchor sheet before applying the cap sheet. Asphalt application shall be per above specifications.

B. Hot-Applied Product Approved Underlayment System supported with applicable uplift testing. (TAS 114, FM 4474, or UL 1897). (see Drawing 1). An anchor/base sheet shall be mechanically attached to the wood deck (unless directed otherwise by Product Approval) with approved fasteners spaced in a 12 in. grid staggered in two rows in the field, and 6 in. on center at the laps or as specified in the underlayment manufacturer's Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over installed anchor/base sheet, apply one layer of cap sheet in a full 25#/ sq. ± 15 percent mopping of asphalt. End laps shall be a minimum of 6 in. on center; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tincaps or by prefabricated fasteners in accordance with Florida Building Code, Building Sections 1517.5.1 and 1517.5.2.

C. Reserved. Cold-Applied Product Approved Underlayment System (see Drawing 1). An anchor/base sheet shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field and 6 in. on center at the laps or as specified in the underlayment manufacturers Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over anchor/base sheet, apply one layer of cap sheet in a continuous layer of cold process adhesive at the rate of 1.5 gallons per 100 sq. ft. or at the rate if so stated in the Product Approval. Adhesive shall be applied uniformly in accordance with the Product

Approval with a squeegee or knotted brush. Cap sheet side laps shall be a minimum of 6 in.; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tincaps or by prefabricated fasteners in accordance with Florida Building Code, Building Sections 1517.5.1 and 1517.5.2.

D. **Reserved.** Product Approved Anchor/Base Sheet/Self-Adhered Underlayment System. The roof cover is terminated at approved metal flashings. Any approved anchor/base sheet as listed in the Product Approval shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field and 6 in. on center at the laps or as specified in the underlayment manufacturer's Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over anchor/base sheet, apply one layer of any Product Approved, self-adhered underlayment in compliance with the self-adhered underlayment manufacturers' approval/requirements.

E. **Reserved.** Self-Adhered Underlayment (single-ply). A single-ply underlayment system utilizing any Product Approved self-adhered underlayment. The roof cover is terminated at approved metal flashings. Apply one layer of any self-adhered underlayment in compliance with the underlayment manufacturer's approved/requirements.

(R9915)

From: Rodriguez, Gaspar (RER) [mailto:Gaspar.Rodriguez@miamidade.gov]

Sent: Monday, January 30, 2023 2:30 PM

To: Madani, Mo <Mo.Madani@myfloridalicense.com>

Cc: Gascon, Jaime (RER) <Jaime.Gascon@miamidade.gov>

Subject: RAS 115 MOD R10180

Hello Mo,

The following are comments under the Public Comments provision for the 2023 Code Cycle.

Considering the approved modification allowing self-adhered underlayment installation directly onto Wood, we feel the following comments need to be incorporated in the Code. The changes will more clearly and precisely indicate that all underlayment for asphalt shingle installation need to comply with Table 1518.1. FBC. We feel that any additional instructions, currently indicated in section 4.2 below, will only confuse some readers.

ROOFING APPLICATION STANDARD (RAS) No. 115 STANDARD PROCEDURES FOR ASPHALT SHINGLE INSTALLATION

4. Underlayment

4.1 Underlayment shall be in accordance with Chapter 15 (High-Velocity Hurricane Zones), Table 1518.1 of the Florida Building Code, Building.

~~4.1 Minimum prescriptive underlayments shall be one of the following, unless otherwise specifically noted in roofing assembly Product Approval:~~

- ~~o •A double layer of an ASTM D226, Type I, with a 19-inch headlap; or~~

- •A single layer of an ASTM D226, Type II with a 4-inch headlap; or
- •A single layer of an ASTM D2626 coated base sheet with a 4-inch headlap.
- •All endlaps shall be a minimum of 6 inches.
- •All valleys shall be woven.

4.2 **Reserved**. All u ~~Underlayments shall be fastened with approved minimum 12-gage by 1³/₄ in. corrosion-resistant annular ring shank roofing nails fastened through minimum 32-gage by 1⁵/₈ in. diameter approved diameter tin caps. Underlayment shall be attached to a nailable deck in a grid pattern of 12 inches (305mm) between overlaps, with 6-inch (152 mm) spacing at overlaps at the overlaps. Nails shall be of sufficient length to penetrate through the sheathing or wood plank a minimum of ³/₁₆ in. or penetrate 1 inch (25 mm) or greater thickness of lumber a minimum of 1 in., except where architectural appearance is to be preserved, in which case a minimum of ³/₄ in. nail may be used.~~

4.3 If the underlayment is a self-adhering membrane, the membrane shall be applied over a mechanically attached anchor/base sheet attached in compliance with this section above.

(R10180 AS)

From: Rodriguez, Gaspar (RER) [mailto:Gaspar.Rodriguez@miamidade.gov]
Sent: Monday, January 30, 2023 2:32 PM
To: Madani, Mo <Mo.Madani@myfloridalicense.com>
Cc: Gascon, Jaime (RER) <Jaime.Gascon@miamidade.gov>
Subject: RAS 119 MOD R9916

Hello Mo,

The following are comments under the Public Comments provision for the 2023 Code Cycle.

Considering the approved modification allowing self-adhered underlayment installation directly onto Wood, we feel the following comments need to be incorporated in the Code. The changes will more clearly and precisely indicate that all tile underlayment systems must be provided with a product approval. The reserving of the sections into one section is to allow inclusion of any system be it, hot applied, cold applied, single-ply etc...

**ROOFING APPLICATION STANDARD (RAS) No. 119-20
 INSTALLATION OF MECHANICALLY FASTENED ROOF TILE SYSTEMS
 Direct Deck & Horizontal Battens Only
 (Preformed Metals With Edge Returns)**

RAS 119-23

Direct Deck & Horizontal Battens Only

Roof Pitch	Battens or Direct Deck	Choice of Underlayment	Plastic or Compatible Roof Cement at Nails Penetrating Underlayment	Reference
	Either	1. ASTM D226 Type II (#30) or ASTM D2626 (#43) organic base sheet nailed to deck,	Required	3.01A

		min. (#90) ASTM D6380, Class M or WS, Type II organic cap sheet set in Type IV hot asphalt.		
4: 12" or greater	Either	2. Any Product Approved Underlayment System with a mechanically fastened base sheet, and cap sheet set in hot, cold or self-adhered.	Per Product Approval	3.01B-Cor D
	Either	3. Product Approval listed nail-on single-ply underlayment.	Per Product Approval	3.01E

RAS 119-23

PART III—EXECUTION

3.01 Underlayment Applications—CHOOSE ONE of the following:

NOTE #4: Anchor/base sheet shall have a minimum of two plies in the valleys. A No. 30 or No. 43 can be used as a dry in prior to installing the underlayment with this system.

A. Hot Mop 30/90, Hot Mop 43/90 (see Drawing 1). A No. 30 or No 43 anchor/ base sheet ASTM D226, Type II, or ASTM D2626 Shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field, and 6 in. on center at the laps. Extend anchor/base sheet a minimum of 4 in. up vertical surfaces. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over installed anchor/base sheet, apply one layer of mineral surfaced cap sheet ASTM D6380 in full 25 #/sq, ± 15% mopping of asphalt. End laps shall be a minimum of 6 in.; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tin caps or by Miami-Dade listed prefabricated fasteners.

NOTE #5: The above system may be upgraded by hot mopping an interply of ASTM listed fiberglass or perforated organic felt to the anchor sheet before applying the cap sheet. Asphalt application shall be per above specifications.

B. ~~Hot Applied~~ Product Approved Underlayment System supported with applicable uplift testing (TAS 114, FM 4474 or UL 1897). (see Drawing 1). An anchor/base sheet shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field, and 6 in. on center at the laps or as specified in the underlayment manufacturer's Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over installed anchor/base sheet, apply one layer of cap sheet in a full 25#/sq. ± 15 percent mopping of asphalt. End laps shall be a minimum of 6 in. on center; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tincaps or by prefabricated fasteners in accordance with Florida Building Code, Building Sections 1517.5.1 and 1517.5.2.

C. ~~Reserved.~~ Cold Applied Product Approved Underlayment System (See Drawing 1). An anchor/base sheet shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field and 6 in. on center at the laps or as specified in the underlayment manufacturers Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over anchor/base sheet, apply one layer of cap sheet in a

continuous layer of cold DRAWING 1 TYPICAL 30/90 HOT MOP process adhesive at the rate of 1.5 gallons per 100 sq. ft. or at the rate if so stated in the Product Approval. Adhesive shall be applied uniformly in accordance with the Product Approval with a squeegee or knotted brush. Cap sheet side laps shall be a minimum of 6 in.; head laps shall be a minimum of 3 in. and backnailed 12 in. on center with approved nails through tincaps or by prefabricated fasteners in accordance with Florida Building Code, Building Sections 1517.5.1 and 1517.5.1.

D. **Reserved.** Product Approved Anchor/Base Sheet/ Self Adhered Underlayment System. The roof cover is terminated at approved metal flashings. Any approved anchor/ base sheet as listed in the Product Approval shall be mechanically attached to the wood deck with approved fasteners spaced in a 12 in. grid staggered in two rows in the field and 6 in. on center at the laps or as specified in the underlayment manufacturers Product Approval. Anchor/base sheet end laps shall be a minimum of 6 in. and head laps shall be a minimum of 4 in. Over anchor/base sheet, apply one layer of any Product Approved, self-adhered underlayment in compliance with the self-adhered underlayment manufacturers' approval/requirements.

E. **Reserved.** Self-Adhered Underlayment (Single Ply). A single ply underlayment system utilizing any Product approved selfadhered underlayment. The roof cover is terminated at approved metal flashings. Apply one layer of any selfadhered underlayment in compliance with the underlayment manufacturers' approved/requirements.

(R9916)