

Revised Secondary Water Barrier Section 1-28-08
Eric Stafford, Lorraine Ross, Bill York and Frank O'Neill

This draft represents a proposed draft of the secondary water barrier section (201.2) as requested by the Mitigation Workgroup

1-28-08 Proposal	
201.2 Roof secondary water barrier for site-built single family residential structures. A secondary water barrier shall be installed using one of the following methods when a roof covering is replaced.	
a) All joints in structural panel roof sheathing or decking shall be covered with a minimum 4 in. wide strip of self-adhering polymer modified bitumen tape applied directly to the sheathing or decking. The deck and self adhering polymer modified bitumen tape shall be covered with one of the underlayment systems approved for the particular roof covering to be applied to the roof.	
b) The entire roof deck shall be covered with an approved self-adhering polymer modified bitumen sheet <i>meeting ASTM D 1970</i> or an approved self-adhering synthetic underlayment installed in accordance with the manufacturers' installation instructions. No additional underlayment shall be required on top of this sheet for new installations. EXCEPTION: 1. In the HVHZ, an asphalt impregnated 30# felt underlayment installed in conformance with Section 44XX of the <i>Florida Building Code, Residential</i> and covered with either an approved self-adhering polymer modified bitumen cap sheet or an approved cap sheet applied using an approved hot-mop application shall be deemed to meet the requirements for the secondary water barrier.	
c) In the HVHZ, the entire roof deck shall be covered with an approved asphalt impregnated 30# felt underlayment installed with nails and tin-tabs in accordance with Section 44XX of the Florida Building Code, Residential. This method shall also be acceptable in the non-HVHZ regions of Florida. (No additional underlayment shall be required over the top of this sheet).	
d) In regions of Florida other than the HVHZ an underlayment system approved for the particular roof covering shall be applied with the following modification: (1) For roof slopes that require one layer of underlayment, a layer of <i>approved</i> asphalt impregnated <i>ASTM D 226 Type II (#30) underlayment</i> or approved synthetic underlayment shall be installed. The felt or synthetic underlayment is to be fastened with 1" round plastic cap or metal cap nails, attached to a nailable deck in a grid pattern of 12 inches (305 mm)	

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staggered between the overlaps, with 6-inch (152 mm) spacing at the overlaps.

(2) For roof slopes that require two layers of underlayment, an approved *asphalt impregnated ASTM D 226 Type II (#30) underlayment* shall be installed in a shingle-fashion and lapped 19" and fastened as described above. An approved synthetic underlayment shall be installed in accordance with the manufacturer's installation instruction. **(No additional underlayment shall be required over the top of this sheet).**

Exceptions:

1. Roof slopes < 2:12 having a continuous roof system shall be deemed to comply with section 201.2 requirements for a secondary water barrier.
2. Clay and Concrete tile roof systems installed as required by the Florida Building Code are deemed to comply with the requirements of section 201.2 for Secondary Water Barriers.

e) Application of a two-part urethane based closed cell spray-on adhesive to the attic side of the joints between the sheathing shall be deemed to meet the requirements for the secondary water barrier. When the closed cell foam is also used as an insulation, the foam shall comply with Section R314 of the Florida Building Code, Residential.

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