ADDENDUM

FILING AND ACKNOCKS FOREMENT

Deputy Agency Clerk

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November 18, 2008

Florida Building Commission Department of Community Affairs Sodowski Building 2555 Shumard Oaks Blvd. Tallahassee, FL 32349-2100

To Whom It May Concern:

REF: Chapter 15, F.B.C.

**Roof Assemblies and Rooftop Structures** 

**SECTION: 1502.1 GENERAL** 

#### UNDERLAYMENT

One or more layers of felt, sheathing paper, non-bituminous saturated felt or other approved material over which a steep-slope roof covering applied.

#### SECTION 1507

## REQUIREMENTS FOR ROOF COVERING

#### 1507.1 Scope

Roof coverings shall be applied in accordance with the applicable provisions of this section and the manufacturer's installation instructions.

#### 1507.2 Asphalt Shingles

The installation of asphalt shingles shall comply with the provisions of this section.

### 1507.2.1 Deck Requirements

Asphalt shingles shall be fastened to solidly sheathed decks.

#### Table 1507.2. Reserverd.

#### 1507.2.2 Slope

Asphalt shingles shall only be used on roof slopes of two units vertical in 12 units horizontal (17-percent slope) or greater. For roof slopes from two units vertical in 12 units horizontal (17-percent slope) up to four units vertical in 12 units horizontal

(33-percent slope), double underlayment application is required in accordance with Section 1507.2.8

## 1507.2.3 Underlayment

Unless otherwise noted, required underlayment shall conform to ASTM D 226, Type I or Type II, or ASTM D 4869 Type I or Type II>

## 1507.2.8 Underlayment Application

For roof slopes from two units vertical in 12 units horizontal (17-percent slope), up to 4 units vertical in 12 units horizontal (33-percent slope), underlayment shall be two layers applied in the following manner. Apply a minimum 19-inch-wide (483 mm) strip of underlayment felt parallel with and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide (914 mm) sheets of underlayment overlapping successive sheets 19 inches (483 mm) and fastened sufficiently to hold in place. For roof slopes of four units vertical in 12 units horizontal (33-percent slope) or greater, underlayment shall be one layer applied in the following manner. Underlayment shall be applied shingle fashion, parallel to and starting from one eave and lapped 2 inches (51 mm), fastened only as necessary to hold in place.

Enclosed is a copy from ATLAS ROOF CORPORATION, sating:

• The installation of an underlayment is optional (marked in Yellow).

The letter also states that certain types of shingles have FLORIDA APPROVAL NUMBERS.

#### THE QUESTION:

- #1 Based on slopes of 12/2 = 29.74488 degrees, and 4/12 = 18.43495 degrees require underlayment for utility lawn storage sheds.
- #2 As an engineer registered in the State of Florida be required to show on his plans underlayment per code /or not show underlayment as per Atlas Roofing Corporation's letter, which is enclosed.
- #3 Section 1003 general means of egress 1003.3.1 headroom.

## 1003.3.1 Headroom

Protruding objects are permitted to extend below the minimum ceiling height required by Section 1003.2 provided a minimum headroom of 80 inches (2032 mm) shall be provided for any walking surface, including walks, corridors, aisles and passageways. Not more than 50 percent of the ceiling area of a means of egress shall be reduced in height by protruding objects.

In Utility Lawn Storage Sheds, doors are 6'0" or 72" high, except garage doors which are 7'0" or 84".

Does the Utility Lawn Storage Shed need to comply with 1003.1 for minimum headroom of 80"?

I would appreciate your written interpretation in order that my clients will have a written opinion of these three (3) questions.

I am also sending a letter to the Engineering Board as to an option on liability and/or disciplinary action to me by the Board of Engineers.

Sincerely,

Fred S. Cardwell

Registered Engineer # 15607

State of Florida



# **ROOFING CORPORATION**

Nov. 2008

To Whom It May Concern:

Re: Cook Portable Warehouses.

This letter applies to all currently produced asphalt roof shingles manufactured by Atlas Roofing Corporation.

The Atlas Limited Shingle Warranty will remain in effect per the following installation practices as followed by Cook Portable Warehouse sales.

- A six (6) nail application per shingle is used.
- The deck slope will be greater than 2" in 12" slope with a normal 4" in 12" slope.
- The installation of an underlayment is optional. When an approved underlayment is installed, the Fire Classification will be "Class A". If an underlayment is not installed, the Fire Classification will be a "Class C".
- Apply a continuous bead of asphalt adhesive both under the starter strips along the eave edges and under the shingle overlaps along the rake edges of the roof, to prevent wind damage in transit.
- Double nail the first 18" of the rake edge shingles to also prevent blow-offs during transit.

Atlas Roofing Corporation has third party testing documentation which apply to the following specific **Atlas Roofing Corporation** product line of asphalt roofing products, as indicated.

- StormMaster Slate UL 2218 Class 4 Impact Resistant, ASTM D7158 (includes, UL 2390 Class H 150 mph, ASTM D 6380, ASTM D3161 Class F @ 110 mph, ASTM E108 Class A, ASTM D3018 Class a Fire Resistant, ASTM D3462), FL# 9792.
- StormMaster LM UL 2218, Class 4 Impact Resistant, UL 2390 Class H, 150 mph Wind Resistance, ASTM D3161 - Class F @ 110 mph, ASTM D3018, ASTM D108 -Class A Fire Resistant, ASTM 3462. FL #784.
- StormMaster Pro-Cut Hip and Ridge Complies with the field shingle product with which they are installed. FL# 784.
- Pinnacle 35 Tested to and complies with the ASTM D7158 at 150 mph. Class H, ASTM D 3161, to 110 mph. Class F, ASTM D 3018, ASTM D 108, Class A Fire Resistant, ASTM D 3462. FL#784.

- Chalet and Stratford Tested to and complies with ASTM D 7158 at 150 mph. Class H, ASTM D 316, Class F, ASTM D 3108, ASTM D 108 - Class A fire Resistant, ASTM D 3462., FL# 784.
- Glass Master 25 Tested to and complies with ASTM D 7158 Class H at 150 mph., ASTM D 3161 Class F to 110 mph., ASTM D 3108, ASTM D 108 - Class A Fire Resistant, ASTM D 3462. CSA – 123.5 – M-90, FL# 784.

This information is also imprinted on the packaging of all the products noted here.

Sincerely,

Ed Todd Director of Product Management Atlas Roofing Corporation