



## **B.U.R., MODIFIED & SHINGLE ROOFING SYSTEMS**

### **Section 6 - Shingle Application Instructions & Details**

**\*Instructions are accompanied by detail drawings within the text.  
Full-size renditions of the details can be found at the end of the section.**

### 6.1 CODE COMPLIANCE FOR BEST INSTALLATION

Malarkey printed instructions should be followed for the best installation. They may be superseded wherever applicable building codes, local amendments or industry standards require more stringent application techniques.

Plywood or OSB panels used to create roof decks should be rated for structural use as roof sheathing. Most building codes require labeling assuring the panel complies with industry standards. Contact the APA (the Engineered Wood Association, formally known as the American Plywood Association) for specifics regarding the use of plywood in construction.

To qualify for warranty protection and obtain stated coverage, the instructions on the package must be followed. Malarkey assumes no responsibility for leaks or improper application, failure to properly prepare the surface or provide adequate ventilation according to FHA or HUD minimum property standard requirements and adopted building codes.

### 6.2 HANDLING and STORAGE REQUIREMENTS

Unload, handle and store all roofing products and construction materials with care.

Check all packaged materials delivered to the work site for damage. If any material is damaged, contact your roofing products distributor to resolve the issue. All damaged materials must be removed and replaced (this does not include damaged *packaging* with undamaged shingles and/or ridge products). Malarkey assumes no liability for damaged material once it has been released from Malarkey's manufacturing warehouse facilities.

Protect roofing materials from potential damage due to weather prior to and during installation.

Do not double-stack pallets of laminate shingles.

Protect any roll goods, adhesives, and coatings from freezing.

When rooftop loading shingle materials, make sure the staging area is structurally sound, able to safely store the materials, and presents no danger to the occupants or structure.

**Windsor® Heavyweight Shingles:** Use blocking to prevent sliding of bundles; do not use spikes or nails to keep in place. Windsor® shingles are 6" (152 mm) wider than conventional 3-tab and laminate shingles so ensure the conveyor transporting Windsor® shingles to the roof are able to safely accommodate this difference in width.

Materials stored on the roof surface shall be dispersed to avoid concentrated loading. Larger concentrations should be set over major structural members.

### 6.3 SAFETY

Malarkey recommends all applicable safety standards and good roofing practices be followed.

Refer to OSHA guidelines for Fall Protection.

Maintain and service all ladders and roofing equipment.

Roofing and construction personnel are responsible for their own safety on the work site, as well as those around them.

Installers should always wear and maintain their Personal Protective Equipment (PPE) when handling or installing components of a roofing system.

All roofing personnel must be properly trained to operate and install roofing systems safely and effectively.

All roofing and construction materials should be stored and protected in a manner that does not endanger any workers, personal property, occupants and contents of the building being roofed. Keep the roofing and staging areas clean.

Always keep first aid kits, emergency telephone numbers, escape routes, and area maps to emergency facilities in a place readily accessible to all personnel.

City of OKC  
2009 +  
2015  
Cover  
OSB



for warranty terms and conditions or visit [www.MalarkeyRoofing.com](http://www.MalarkeyRoofing.com).

### 6.6 ROOF DECK REQUIREMENTS

The condition of the roof deck is critical to the installation of roofing materials and their appearance afterward. Take time to ensure the deck is dry, firm and smooth, and free of debris. Anything left on the surface could possibly poke through your new roof and cause leaks.

The surface to receive the new roofing should be in good shape and constructed of a minimum  $\frac{3}{8}$ " (10 mm) thick, exterior-grade plywood,  $\frac{7}{16}$ " (11 mm) thick oriented strand board (OSB), or seasoned lumber, nominally 1" (25 mm) thick. Boards should be positioned tight to each other and securely nailed to framing members. Deteriorated or rotted boards should be replaced. For excessively resinous areas and loose knots, cover with sheet metal patches.

Malarkey strongly recommends installing sheathing over wood board decks. Problems with the performance of your roofing system, such as leaks and buckling, increase if installed directly over wood board decks. Failure to use properly conditioned deck materials can result in deck movement which can damage the roof covering. Deck movement may void your warranty.

Malarkey roofing products should only be installed over decks that will sufficiently support the weight of the roofing system and transient load during application of the roofing system.

Malarkey recommends removing the existing roof covering for best performance and appearance. When re-covering an existing shingle roof, evaluation of the existing weight and addition of the new Malarkey roof system must be considered relative to the load limitation of the roof deck and local code requirements.

#### 6.6.1 Plywood/Oriented Strand Board (OSB)

Designers should research and specify the correct thickness of the plywood or OSB deck based on the amount of roof load (weight of roofing materials and desired performance,

etc.) and local building codes to ensure structural compliance and integrity.

Each panel should be supported, gapped and securely nailed to all framing members per APA recommendations.

Plywood and OSB decking should be protected to prevent the accumulation of moisture on its surface prior to installation of the roofing assembly. This is shown to be effective in reducing delamination and dimensional stability issues attributed to plywood and OSB panels.

When plywood or OSB is installed over steel panels to provide a substrate to attach shingles, increase the thickness of the plywood/OSB or install furring strips between the steel deck and plywood/OSB to allow shingle fasteners either  $\frac{3}{4}$ " (19 mm) penetration into the wood or penetration completely through the wood yet not come in contact with the steel deck. Shearing of the fasteners that hold the plywood in place can occur when the shingle fasteners "punch" the top flutes of the steel decking. Shingle fasteners may fail to fully seat or be underdriven should this occur.

#### 6.6.2 Wood Board Decks

Malarkey strongly recommends installing sheathing over all wood board decks due to problems noted below (cupping, gapping, bowing).

Wood board decks are composed of solid-sawn dimensional lumber, nominally 1" (25 mm) thick.

Wood board decks should be constructed of seasoned, kiln dried, or water-base-treated lumber.

Wood board decks are to be level and even, and not affected by warping, cupping or bowing.

Wood board decks shall be properly supported and securely nailed to framing members.

Remove and replace all split or cracked wood boards prior to installing Malarkey roofing products.

Wood board decking should be protected to prevent the accumulation of moisture on