

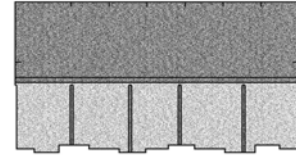
# Technical Data Sheet

## Arcadia Shake® Shingles



### PRODUCT INFORMATION

Arcadia Shake is inspired by the iconic appearance of split wood shake, with each shingle formed from a high-grade blend of roofing asphalt, proven to outperform traditional shake roofing in virtually every environment. Unlike natural wood, Arcadia Shake is maintenance-free and provides a superior class of fire and wind resistance, with less cost and better performance. It is designed to resist blow off in high wind conditions up to 110-mph with normal installation and 130-mph with special installation.



**Arcadia Shake**, with its unique sculptured tab, provides the distinct styling, depth and dimension of wood shakes. It is constructed using four laminated layers of the industry's strongest, most durable roofing materials.

**Arcadia Shake AR** (Algae Resistant) shingles help protect against staining, discoloration, or black streaking caused by blue-green algae.

**Colors:** Please refer to the product brochure or CertainTeed website for the colors available in your region as both non-AR and AR color options are available.

**Limitations:** It is recommended to apply these shingles at slopes of 4" per foot slope and greater in order to achieve optimum appearance. Low slope applications (3" up to 4" per foot) of Arcadia Shake shingles require CertainTeed's WinterGuard® Waterproofing Shingle Underlayment, or its equivalent meeting ASTM D1970 (with adequate ventilation) be applied to the entire deck surface, according to application instructions provided with the product and on the shingle package. In areas where icing along the eaves can cause the back-up of water (all slopes), apply WinterGuard, or its equivalent, according to application instructions provided with the product and on the shingle package.

**Product Composition:** Arcadia Shake shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. The laminated pieces are firmly adhered in a special tough laminating adhesive. These fiber glass based shingles have self-sealing adhesive applied.

### Applicable Standards:

ASTM D3018 Type 1  
ASTM D3462  
ASTM E108 Class A Fire Resistance

ASTM D3161 Class F Wind Resistance  
ASTM D7158 Class H Wind Resistance  
UL 790 Class A Fire Resistance

### Technical Data:

Weight/Square (approx.):	450 lb.
Dimensions (avg):	19 1/2" x 37 1/2"
Shingles/Square:	48 (6 bundles/square)
Weather Exposure:	8"

### INSTALLATION

The following is a general summary of the installation methods. Detailed installation instructions are supplied on each bundle of Arcadia Shake shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

**IMPORTANT NOTE** - Presidential® Starter or an approved alternative starter system (e.g. 10" High Performance Starter as first layer with Presidential Starter as the second layer) must be used for the recommended two-layered starter course system. An alternate single layer Presidential Starter application is also approved. See wrap for further instructions.

**Roof Deck Requirements:** Apply shingles to minimum 3/8" thick plywood, minimum 7/16" thick non-veneer, or minimum 1" thick (nominal) wood decks. The plywood or non-veneer decks must comply with the specifications of APA – The Engineered Wood Association.

**Ventilation:** Provisions for ventilation should meet or exceed current HUD Standards. To ensure adequate balance ventilation, use a combination of continuous ridge ventilation (using CertainTeed Ridge Vent products, or a comparable product with an external baffle) combined with soffit venting.

**Valleys:** Open metal valley is required. Valley liner must be applied before shingles. It must be minimum 18" wide 16 oz. copper, or its equivalent, installed over 36" wide self-adhering CertainTeed WinterGuard Waterproofing Shingle Underlayment (apply directly to deck), or applied over 36" wide mineral surfaced roll roofing. After WinterGuard has been applied, install the 16-oz. copper, or its equivalent, centered in the valley. For application of copper valley, use copper cleats or large head copper nails.

**Underlayment:**

On slopes 4" per foot or greater, CertainTeed recommends one layer of DiamondDeck® Synthetic Underlayment, or Roofers' Select® High-Performance shingle underlayment, or shingle underlayment meeting ASTM D226, D4869 or ASTM D6757. Always ensure sufficient deck ventilation, and take particular care when DiamondDeck or other synthetic underlayment is installed. For UL fire rating, underlayment may be required. Corrosion-resistant drip edge is recommended and should be placed over the underlayment at the rake and beneath the underlayment at the eaves. Follow manufacturer's application instructions.

On low slopes (3" up to 4" per foot), one layer of CertainTeed's WinterGuard Waterproofing Shingle Underlayment (or equivalent meeting ASTM D1970) or two layers of 36" wide felt shingle underlayment (Roofers' Select High-Performance Underlayment or product meeting ASTM D226, D4869 or ASTM D6757) lapped 19" must be applied over the entire roof, ensure sufficient deck ventilation. When DiamondDeck or other synthetic underlayment is installed, weather-lap at least 20" and ensure sufficient deck ventilation. When WinterGuard is applied to the rake area, the drip edge may be installed under or over WinterGuard. At the eave, when WinterGuard does not overlap the gutter or fascia, the drip edge should be installed under WinterGuard. When WinterGuard overlaps the fascia or gutter, the drip edge or other metal must be installed over it. Follow manufacturer's application instructions.

**Standard Fastening:** For slopes of 3" to 21" per foot or less, six fasteners are required per shingle. Nails are required for Arcadia Shake. Fasteners are to be located within the nail lines, two located 1 to 1-1/2" in from each edge and the remaining four evenly spaced over the cutout area. Fasteners must be of sufficient length to penetrate into the deck 3/4" into or through the thickness of the decking, whichever is less. Nails are to be 11- or 12-gauge, corrosion-resistant roofing nails with 3/8" heads. Staples are not allowed for fastening Arcadia Shake.

**Steep Slope Fastening:** For roof slopes greater than 21" per foot, six fasteners and 4 dabs of asphalt roofing cement are required per shingle. Nails are required for Arcadia Shake. Make certain tabs of overlying shingle covers nails. Apply the four spots of roofing cement according to application instructions provided for the product and on the shingle package.

**Standard Application:** The required application method is the 5" Stepped-Off Diagonal Method found on each package of shingles. These shingles may be used for new construction or for reroofing after tear-off of old shingles. **Roofing over an existing roof (roof-over) is not allowed with these shingles.** Due to the heavy weight of this shingle, it is important to determine that the roof deck system is satisfactory for the application of these shingles. Refer to product wrap for detailed roofing application instructions. All shingles on the finished roof must be applied with six fasteners. Always cut shingles from the left edge. Also, when applying the Arcadia Shake shingles on the roof, always begin left to right.

**Flashing:** Use corrosion-resistant metal flashing. Please refer to illustrations on our shingle packaging.

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**Hips and Ridges:** Use Mountain Ridge or Cedar Crest shingles of a like color for capping the hips and ridges.

### MAINTENANCE

Arcadia Shake shingles require virtually no maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year and cleaned of plant debris. Older roofs should be looked at more frequently.

### WARRANTY

Arcadia Shake shingles carry a lifetime limited transferable warranty against manufacturing defects for the original homeowner. In addition, Arcadia Shake shingles also carry 10-years of SureStart™ Protection. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at [www.certainteed.com](http://www.certainteed.com)).

### FOR MORE INFORMATION

Sales Support Group: 800-233-8990

Web site: [www.certainteed.com](http://www.certainteed.com)

See us at our on-line specification writing tool, CertaSpec, at [www.certainteed.com/certaspec](http://www.certainteed.com/certaspec).

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