



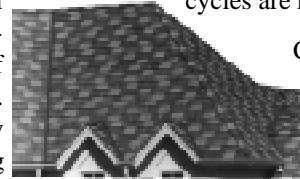
Jim Dulley

Thank you for your interest in writing to me about alternative types of roofing materials to standard asphalt/fiberglass shingles. There are many types of roofing materials to choose from that have a much longer life than 20- to 25-year shingles. This not only saves you money in the long run, but it is much better for the environment. By replacing the roof less often, or perhaps never again, resources are conserved. Also, many of the alternative roofing materials use natural and abundant materials like clay, cement and recycled fibers.

Country Cottage Roofs by
C&H Roofing

Many of the materials, like clay tiles and slate, have been used for centuries and there is no question about their durability and attractive appearance. Concrete/cement tiles are newer, but should have the same long life. All of these materials require a very strong roof structure to support the weight. If you reroof with these materials, you will have to reinforce the roof structure. U.S.

Tile now makes lightweight clay tiles that can be used for reroofing without structure enhancements. These materials are fireproof and meet even California's strict codes.

Fiber Cement/Slate
Blend by American
Roofing Material

Fiber-cement material, like concrete, can be molded into any shape and colorized to simulate any other type of roofing material. Recycled cellulose fiber is often used to reduce the weight and the cost. Some manufacturers do not recommend their fiber-cement materials to be used in areas with frequent freeze/thaw cycles. Others use a multistep polymer sealing process to seal the entire piece and claim that weather cycles are not a problem.

Cedar, treated with fire-retardants, is an attractive, safe roof. Some even have a 50-year warranty. The new plastic materials are durable and require no maintenance.

Selected Manufacturers of Roofing Materials

AMERICAN ROOFING MATERIALS/RE-CON, 4512 SW Kelly Ave., Portland, OR 97201 - (877) 276-7663 www.re-con.com

type - polymer modified fiber cement roofing products

styles - rustic shake and quarry slate

warranty - 40-year limited warranty on Quantum Plus • 50-year limited warranty on Firefree Plus

features - "Rustic Shake" has the appearance of genuine cedar shakes. Colors available include cedar brown (light), weathered gray and dark brown. "Quarry Slate" looks like natural slate. Colors available include charcoal gray, weathered gray, Vermont green and black. The color goes throughout. Available as 12" widths on "Quarry Slate" and 12", 7" and 5" widths on "Rustic Shake". Weight per sq. is 495 pounds. The products are lightweight, class A fire-rated and asbestos-free. Freeze/thaw and UV resistant.

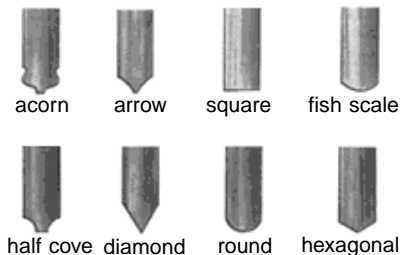
ANGLO-AMERICAN CEDAR PROD., PO Box 351, Sumas, WA 98295 - (800) 826-7185 www.angloamerican.com

type - Western red cedar and yellow cedar

styles - shake and shingle

warranty - 50-year warranty

features - Handsplit shakes are split with the natural grain of the wood and have a highly textured surface. They are produced in four types — handsplit-and-resawn, straight-split, tapersplit and tapersawn. Lengths are 18 inch and 24 inch. Shingles are sawn both sides, have a relatively smooth face and back and are produced in four grades and three lengths: No. 1 (Blue Label), No. 2 (Red Label), No. 3 (Black Label) and No. 4 or undercoursing in lengths of 16 inch Five X; 18-inch Perfections; and 24-inch Royals. Fire treating of the shakes and shingles is available. Designer red cedar shingles are available in 8 designs.



BUCKINGHAM VIRGINIA SLATE, PO Box 8, Arvon, VA 23004 - (800) 235-8921 www.bvslate.com

type - roofing slates

styles - smooth or rough texture

warranty - no warranty specified

features - The slate is a rich blue-black in color (sometimes called Oxford Grey). The color is unfading and can be matched at any future time. The lustre of the slate develops highlights that give it interest and character. The standard thickness is 3/16 inch but other thicknesses are available. The natural rock has a natural texture and it is hand fashioned. It has equal strength with and across the grain.

C&H ROOFING, PO Box 2105, Lake City, FL 32056 - (800) 327-8115 (904) 755-1102 www.chroofing.com

type - bent cedar shingles

styles - shingle

warranty - no warranty specified

features - The "Country Cottage Roofs" shingles are made from #1 grade Western red cedar wood. The shingles are steamed and bent. They are preformed and precut for installation by roofing or building contractors. A framing component system consisting of precut and some preassembled pieces is available that can be attached to the existing framework. It resembles a cottage thatch roof with gently rolling contours.

CEDAR SHAKE & SHINGLE BUREAU, PO Box 1178, Sumas, WA 98295 - (604) 462-896 www.cedarbureau.org

Trade association representing shake and shingle manufacturers — contact for local suppliers.

CLASSIC CAST STONE OF DALLAS, 3162 Miller Park Dr. N., Garland, TX 75042 - (972) 276-2000 www.stone-slate.com

type - fiber cement roofing products

styles - slate

warranty - 40-year warranty

features - "Slate/Select" is a proprietary cement matrix with reinforcing non-alkaline glass fibers — produces a material with strength and durability in adverse climate conditions. The slate is cast in molds made from pieces of natural slate so it appears identical to real slate. Only iron oxide pigments which are nonfading pigments are used — the color goes throughout. Colors available — brick, burgundy, charcoal, chestnut, green, grey/green, medium gray and taupe. There are several blends available. Class A and Class B fire rating. Freeze-thaw resistant and resistant to insect and rot infestation.

CROWE INDUSTRIES LTD., 116 Burris St., Hamilton, ON, Canada L8M 2J5 - (905) 529-6818 www.authentic-roof.comtype - 100% post-industrial waste — plasticstyles - slatewarranty - 50-year transferable warrantyfeatures - "Authentic Roof" a fake plastic slate is made from 100% post-industrial waste (some scrap from baby diaper manufacturing, some from EPDM roofing scraps), these slates are also completely recyclable. They weigh approximately 250 lbs. per square. The wedge-shaped solid plastic slates are 1/4 inch thick at the butt, 12 inches wide, and 18 inches long. The shaled edge is patterned after actual slate making it look like real stone. You can score the plastic slates with a knife and snap them to size.**Authentic Roof****EAGLE ROOFING PRODUCTS**, 3546 N. Riverside Ave., Rialto, CA 92377 - (800) 400-3245www.eagleroofting.comtype - standard weight and lightweight concrete tilesstyles - S style • low barrel profile • flat profile

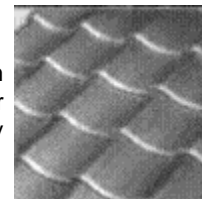
with either smooth surfaces (slate) or textured surfaces (wood shake)

warranty - limited lifetime product warranty available — transferable product warranty offers complete protection against structural deterioration of the tile during the period of occupancy of the first and second ownersfeatures - The tiles have passed Class A fire tests and are available in a wide range of styles and colors. Solid colors and blends available. The tiles are made of portland cement, sand and proprietary additives. The lightweight tiles are made in the same size, manner and shapes as the standard tiles except for substitution of lightweight aggregates and additives for sand — makes them 40% lighter. The iron oxide coloring pigments that are used are classified as nonfading. Eagle will deliver product samples to you to help make your roof tile decision easier and quicker. Distributors throughout the Western United States.**EVERGREEN SLATE CO.**, PO Box 248, Granville, NY 12832 - (518) 642-2530 www.evergreenslate.comtype - roofing slatesstyles - smooth or rough textured slatewarranty - no warranty specifiedfeatures - Slate is a natural hand crafted product that can have slight variations in texture and thickness. Semi-weathering gray-green (sea-green) slate is strong and tough and the lowest in price. Grayish-green in color when quarried. Some slate (10-25%) gradually changes to soft tones of buffs and tans after exposure to the weather, adding variety and interest to the roof. This Slate blends well with any type of stone or frame structure and is also used as the basic percentage, usually 50%, in roofs where several colors are mixed. Other colors available — Vermont black (a rough-texture slate), unfading gray-green, unfading mottled green and purple, mottled gray-black, Vermont semi-weathering gray-black (mixed shades of light to medium), royal purple, unfading green, unfading red or unfading clear black.**LIFEPINE PRODUCTS (TAMARK MFG.)**, PO Box 1386, Savannah, GA 31402 - (800) 735-7663 (912) 232-0786 www.lifepine.comtype - pressure-treated Southern yellow pinestyles - wood shake and shinglewarranty - 50-year warranty that is transferrable with ownershipfeatures - The "LifePine" product is treated under pressure with special mold and moss inhibitors as well as termite protection. It is also treated with a permanent water repellent that protects against cupping, curling and splitting through a reduction in expansion and contraction. This treatment is permanent and eliminates the need for retreating. The shakes and shingles are available in their natural color and will age to a silver-gray in six to twelve months depending upon weather conditions and climate. A reddish-brown pre-stain is an additional option, however it will also weather to the silver-gray driftwood color over time. All the products are naturally one-third the flammability of other wood shakes without any additional fire-treatment. However, a class B "Flame Block" fire-treatment is available as an option. The roofing products are available as an 18" length for use with a 7-1/2" exposure.**LUDOWICI ROOF TILE**, PO Box 69, 4757 Tile Plant Rd., New Lexington, OH 43764 - (800) 945-8453 www.ludowici.comtype - clay roofing tilestyles - interlocking flat • French architectural (deep locks on all four

sides, plus two prominent flutes on its surface) • rustic-style flat slab shingle • crude-style (textured surfaces and uneven lengths) flat slab shingle • Spanish S style • barrel • pan tiles • tower tile with slightly curved profile

warranty - 75-year limited warranty including 20 years of "Prime Protection" which provides for 100% of the reasonable replacement cost of defective tiles, including labor, tear-off and disposal, in the event the defect occurs with 20 years of installationfeatures - Each tile features a different surface texture with side interlocks and smooth, square butts. There are 21 standard profiles and 30 standard colors available including earthy terra cottas, blue, green, gray or red in matte, gloss, weathered, fireflashed or sanded. Standard and custom fittings are available — lion's head, shell, five-leaf, three-leaf hip starter or flower and leaf hip starter.**MARUHACHI CERAMICS OF AMERICA**, 1985 Sampson Ave., Corona, CA 91719 - (800) 736-6221 www.mca-tile.comtype - clay roofing tilestyles - S style • barrel • Oriental — an interlocking, high quality tile

made in the Japanese tradition, see illustration.

warranty - 50-year limited warrantyfeatures - There are many natural, glazed and flashed colors available. Standard colors, blends and custom colors and blends are available. The company also offers custom and other unique products. A large color selection and range of styles allows you to have flexibility to create anything from the traditional to contemporary roof designs.**Oriental Tile****MEEKER CEDAR PRODUCTS**, PO Box 381, Sumas, WA 98295 - (800) 663-8761 (604) 826-6215www.meekercedar.comtype - Western red cedarstyles - shakewarranty - 30, 40 and 50-year transferable warranty depending on grade and thicknessfeatures - The cedar shakes can be optionally treated with a fire retardant to provide permanent fire protection for your roof. The fire treatment is applied at the plant using a special vacuum-pressure impregnation process that won't wash out or leach away. Also available is a CCA preservative that protects your roof from high heat and humidity — protects from mildew and fungal decay. Sizes available — 24" x 1/2" and 24" x 3/4".

MONIERLIFE TILE LLC, PO Box 19792, Irvine, CA 92713 - (800) 571-8453 www.monierlifetile.com

type - standard and lightweight concrete roof tile
slate and split shake

styles - S style • low barrel profile • barrel • flat tile profiles of shake,

warranty - limited lifetime product warranty — fully transferable, non prorated

features - The tiles are available in standard weight and lightweight concrete tiles. The concrete tiles are offered as color-through tiles which have pigments through the entire tile, not just the top layer. The "Monier 2000 Collection" is a unique selection of nature-inspired color blends, 48 naturally occurring colors, that guarantees true color integration. Another color option is a coated finish referred to as a slurry coat. After the slurry is applied, a sealer is added to create a gloss look. "Cedarlite" is molded from actual shakes to create a weathered realistic and natural look of hand split cedar shakes. The tiles pass Class A fire tests.

NATIONAL TILE ROOFING MFGS. ASSOC., P.O. Box 40337, Eugene, OR - (541) 689-0366 www.ntrma.com

The NTRMA consists of 30 companies which produce nearly all of the tile manufactured in North America.

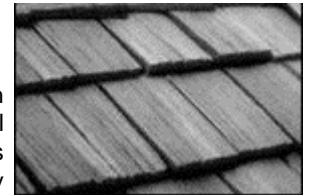
PERFECT CHOICE ROOFING SYSTEMS (American Sheet Extrusion Corp.), 1618 Lynch Rd., Evansville, IN 47711 - (800) 776-8060 www.americansheet.com

type - plastic roofing panel

styles - cedar hand-split shake

warranty - 50-year transferable warranty

features - "Perfect Choice" is manufactured using Noryl (engineered resin, made by GE Plastics). Each 21-inch-wide by 40-inch-long thermoformed panel is molded to look like a partial course of 13 individual hand-split shakes. The roofing panels have a Class A fire rating with standard underlayments. Installs directly over existing roofing materials. It features a unique interlocking system for quick and easy installation. Each panel weighs only 3 lbs. and overall weighs approximately 62 lbs. per square .



Perfect Choice

PTX IND., INC., 5355 N. Vincent Ave., Irwindale, CA 91706 - (877) 477-6839 (626) 812-9085 www.protex-shake-slate.com

type - fiber cement roofing products

styles - slate and shakes

warranty - 40 year non-prorated limited product warranty — one time transferable

features - The "Protex" shake and slate product line with intra color (natural color highlights), comes in random widths of 5", 7" and 12". Random widths give you the appearance of natural wood or real slate. The shake colors available are charcoal, green, light gray, sand and wine. The shake is available in dark brown or gray and features thick butts, while offering protection from the elements. Class A fire rated. Installed weight per 100 square feet is 531 pounds dry and 578 pounds wet. Not recommended for use in areas with high freeze/thaw cycles

RE-NEW WOOD INC., PO Box 1093, Wagoner, OK 74467 - (800) 420-7576 (918) 485-5803 www.ecoshake.com

type - 100% recycled plastics (PVC) and recycled wood. styles - classic cedar shake

warranty - 50 -years transferable warranty against defects in materials and workmanship

features - The "eco-shake" has a Class A fire rating, and has achieved a Class IV rating (the most stringent) for impact resistance. Available in four colors to replicate a weathered wood shake roof — teak, umber, driftwood and charcoal. Custom colors are available. The "eco-shakes" are prepackaged in random widths of 5, 7 and 12 inches, and are 22 inches in length. The three different widths closely simulate the appearance of natural cedar. Lightweight — approximately 250 lbs. per square. Easily installed — can be nailed or sawed like wood or scored and split. High resistance to moisture and UV protected. Freeze/thaw cycling causes no cracking or deterioration.

TROPIC TOP, 2028-3 Eastbourne Way, Orlando, FL 32812 - (407) 273-0069 www.thatchart.com

type - lightweight metal shingle

styles - natural thatch

warranty - no warranty specified

features - "Tropic Top" is a .020" thin aluminum sheet (14" wide by 3' long) with a baked on beige color finish. The sheets are pulled apart and nailed along the solid edge starting at the bottom edge of the roof with the fingers overhanging. It is applied as ordinary shingles overlapping just enough so the underlayment does not show between the fingers. The thatch can be given an old look by speckling with a 50/50 mixture of acrylic paint and water. Various shades of brown and gray look good. It is colorfast and 100% fireproof. Can be used in areas with adverse weather conditions. Depending on the roof configuration estimating the exact amount of thatch can be difficult. Any material you do not use will be bought back by the company.

U. S. TILE, 909 W. Railroad St., Corona, CA - (800) 252-9548 (909) 737-0200 www.ustile.com

type - clay roofing tile

styles - barrel • low barrel profile • S style • cedar shake

warranty - transferable non-prorated lifetime limited warranty

features - "ClayMax", "Claylite", and "ProShake" are lightweight clay tiles. These are real clay roof tiles at under six pounds per square foot. The tile has a SuperCore feature that is found in the darker clay products. Greater flexural and crushing strength with less water absorption are inherent with SuperCore. The unique kiln-firing process helps retain much of the clay's naturally occurring carbon. As a result, the tile is environmentally friendly. There are several color choices — designers choice, select or custom blend combinations.

VANDE HEY-RALEIGH ARCH. ROOF TILE, 1565 Bohm Dr., Little Chute, WI 54140 - (800) 236-8453 www.vhr-roof-tile.com

type - concrete roof tile

styles - low barrel profile • barrel • semi-flat tile with beveled ribs • flat

profiles of slate, shake, hand brushed, antiqued surface and noninterlocking shingles in turret and English styles

warranty - 50-year non-prorated warranty

features - The tile is custom made for each individual application. There are over 200 standard colors and multicolored sequences to choose from, including earth tones to blend with the environment, vivid accent colors, and white to help reduce summertime cooling bills. The multicolored custom sequence tile features custom sequencing of both individual colors and several colors marbled within each individual tile. Custom colors and surfaces are available to match any tile for both new construction and those hard-to-match restoration projects.

VERMONT STRUCTURAL SLATE CO., PO Box 98, Fair Haven, VT 05743 - (800) 343-1900 www.vermontstructuralslate.com

type - roofing slates

styles - textured natural or an extremely smooth, eggshell finish

warranty - no warranty specified

features - The natural cleft slate has a textured, natural finish. It is achieved by splitting the stone along its cleave with a hammer and chisel. The honed slate is an extremely smooth and is achieved with the use of fine diamonds. Colors available — unfading green, mottled green and purple, purple, red or semi-weathering medium charcoal gray, black and pale to medium green.

WATKINS SAWMILLS LTD., PO Box 3280, Mission, BC, Canada V2V 4J4 - (800) 663-8301 www.watkinsawmills.com

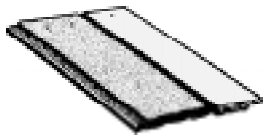
type - Western red cedar

styles - shakes and shingles

warranty - all untreated premium & No.1 grade products have a 25-year warranty, pressure preservative treated and fire retardant products are backed by a 30/50-year warranty

features - The shingles are sawn and have a relatively smooth surface while shakes are split and have a natural grain, textured look. The taper-sawn shakes combine the thick-but dimensions of a shake with the tailored appearance of a shingle. Several grades available Permanent fire protection is available. Long term protection from fungal decay is provided with factory pressure treatment of preservatives. Specialty red cedar shingle products are available to provide a variety of designs.

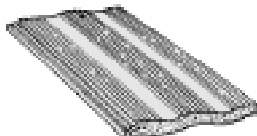
Several Styles of Roofing Materials



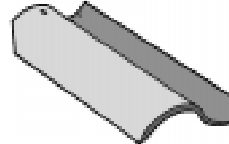
Natural Slate



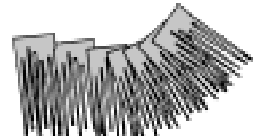
Split Shake



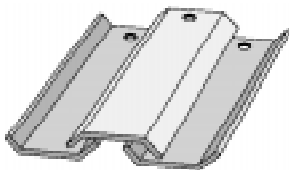
Rustic Shake



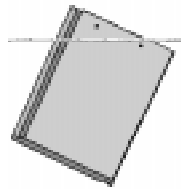
"S" Style



Imitation Thatch



Pan Tiles



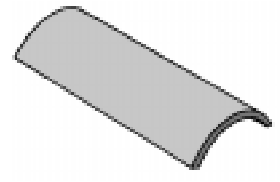
Interlocking Flat Slate



French Style



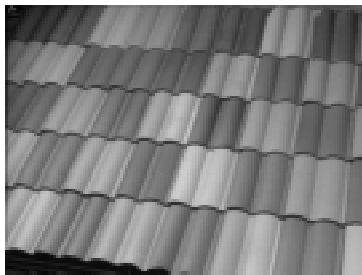
Low Barrel Profile



Barrel Shape

Claymax Tile from U. S. Tile

- Lightweight clay roofing tile — weighs 40 percent less than standard clay tile.
- Perfect choice for any reroof application.
- Unique Twin-S design.
- Fire-resistant.
- Transferable, no-prorated lifetime limited warranty that includes fade and labor coverage.

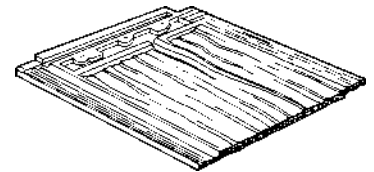


CedarLite Tile from MonierLife Tile

- Size/Coverage: Individual tile nominally 13-1/4" x 13". At 3" minimum headlap, approx. 120 field tiles will cover 100 sq. ft. of roof area.
- Weight in place: Installed weight per square approximately 560 pounds.
- Random textures and subtly blended nuances of hue, so closely resembles weathered hand split cedar shakes.
- Can be easily installed without struc-

tural reinforcement.

- Provide Class A fire resistance, as well as warranted protection from storms.



Custom Fittings from Ludowici

Custom decorative fittings are hand-crafted by company artisans. In addition, specialty terminals to connect multiple hips, ridges and towers — all which can be further embellished with Ball, Ball and Leaf, or Crown Finials are available. All custom fittings are special order and made to your exact specifications for color, size, texture and finish.



Lion's Head Starter



Flower and Leaf Hip Starter



Three-Leaf Starter

Properties of Common Roofing Materials

Type	Price \$/sq.	Fire Rating	Life Years	Minimum Slope	Weight lbs./sq.
Artificial Thatch	\$120	n/a	15 - 50	1-in-12	75
Asphalt Shingles	\$50 - \$150	C to A	15 - 20	2-in-12	200 - 390
Asphalt Roll	\$50 - \$90	C to A	10 - 15	1-in-12	45 - 150
Bent Cedar Shingles	\$500 - \$700	B to A	50+	4-in-12	250 - 500
Cedar Shingles/Shakes	\$300 - \$500	C to A	15 - 50	4-in-12	160 - 300
Clay Tiles	\$200 - \$950	A	50+	3-in-12	595 - 1500
Concrete Tiles	\$150 - \$500	A	50+	3-in-12	750 - 1200
Fiber Cement Tiles	\$170 - \$350	B to A	50	3-in-12	400 - 600
Fiberglass Shingles	\$60 - \$200	A	20 - 40	2-in-12	200 - 400
Laminated Shingles	\$100 - \$350	A	30 - 50	2-in-12	200 - 400
Plastic Slates/Shakes	\$175 - \$425	C to A	50	3-in-12	60 to 250
Slate Shingles	\$175 - \$800	A	50+	4-in-12	800 - 3200
Treated Pine Shakes	\$150 - \$350	n/a	50	4-in-12	375 - 400

For a **free** Topics List of 200 Update Bulletins (including a description of each), send a **self-addressed stamped business-size envelope** to: Jim Dulley, List, P.O. Box 54987, Cincinnati, Ohio 45254 or read on the Internet - <http://www.dulley.com>