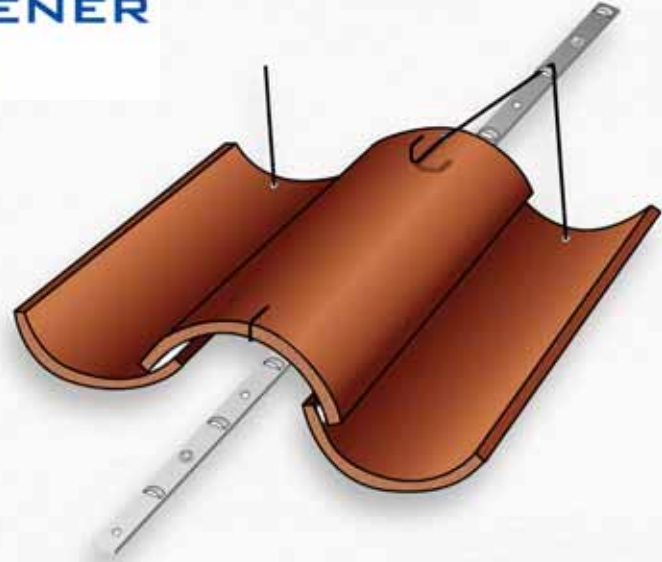




NEWPORT
TOOL & FASTENER

"ROOF TILE FASTENER SPECIALISTS"

ADVANCED ROOF TILE FASTENING SYSTEMS & ACCESSORIES



TYLE-TYE[®] STRAP SYSTEM

This is the preferred system where optimum fastening is required and strict code regulations are in effect. Tie rods, connectors or tie wires connect each tile into the Tyle-Tye[®] Strap system that is fastened by ring shank nails, screws or spikes. The 1" continuous metallic strip installs under the rows of tile eliminating any pressure or weight on the strip while maintaining the integrity of the roof system.

- Earthquake Resistant - Absorbs Seismic Energy
- High Wind Resistant
- Protects Waterproofing by Minimizing Penetrations

TWISTED WIRE TYLE-TYE[®] SYSTEM

This continuous system of twisted wire features a special anchor that attaches through the underlayment to wood, concrete, or metal roof decks. Roof tiles are tied to the loops of the twisted wire Tyle-Tye[®]. The waterproof membrane is punctured only at anchoring points, and the appropriate roofing mastic is used to seal these penetrations.

RINESS[®] TILE-TIE SYSTEM

This single-line tile tie system features a loop and hook fastener that interlocks the tiles allowing for greater labor and cost savings. It can be used with most clay mission or clay shingle tiles.

TYLE-TYE[®] TILE NAIL

This system is a unique fastener used in the cover portion of clay 2-piece mission tile, or clay "S" tile or most concrete roof tiles. Tile nail outperforms any direct deck nailed roof tile fastener by securing the tile at two points with one fastener; prevents tile fractures or breaks and uses the uplift forces to drive the nail portion of the fastener deeper into the deck.



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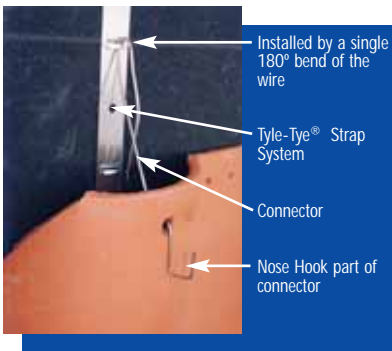
TYLE-TYE® SYSTEMS

Tyle-Tye® Systems include the Tyle-Tye® Strap System, the Twisted Wire Tyle-Tye® System and the Riness® Tile-Tie System. With these fastening methods the only puncture of the membrane is at the anchoring points. These anchoring points are sealed in the appropriate roofing mastic.

Tyle-Tye® Systems are IBC and IRC approved.
Patent #: 5,921,045 and 6,125,592

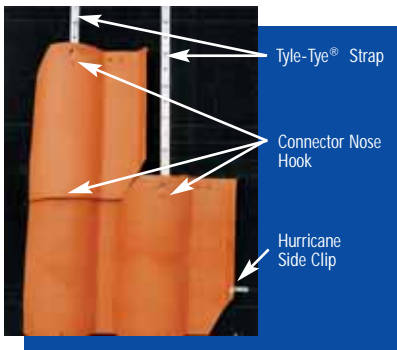
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Patented TYLE-TYE® STRAP SYSTEM

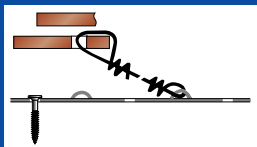


The patented Tyle-Tye® Strap system is used where maximum holding power is required and for the most stringent of building code regulations. Each strap is 10 feet long. Once the straps are fastened to the deck, and the fastening points are sealed in approved roofing mastic, each tile is quickly connected to a punch out providing for a speedy installation.

The Tyle-Tye® Strap roof tile fastening system consists of a 1" wide by 24 gauge strap with punch outs every 4" to connect each piece of roofing tile, and anchor holes every 4" to nail, screw or spike the strap securely to any type of roof deck. Individual tiles are secured to the strap using Connectors, Tie Wires or Tie Rods. Besides being anchored at the ridge, hip and eave, the Tyle-Tye® Straps are anchored at 5 foot intervals as required to avoid overstressing any one anchor point. In no case shall the anchor spacing be longer than 10 feet.



Connection of Tiles into Tyle-Tye® Strap/Twisted Wire

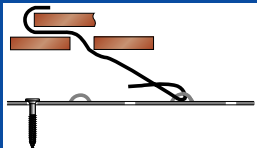


Tie Wires

Wrap each tie wire through the tile, diamond or punch out then twist back on itself a minimum of 3 full revolutions.

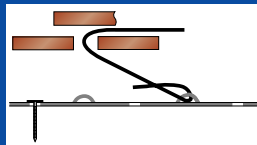
Connectors

Put end through the tile until the nose hook is in place, then with a good pair of Linesmen's pliers push the straight end into the punch out and bend it back on itself one full revolution.



Tie Rod

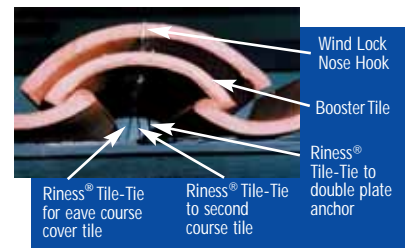
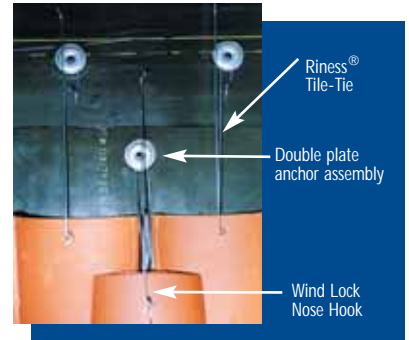
Put tie rod through the tile and bend it back parallel to the plane of the tile, then put the other end through a punch out, or diamond and bend it back on itself one full revolution.



RINESS® TILE-TIE SYSTEM

Use of the Riness® Tile-Tie System as directed, results in a minimally penetrated membrane while the Riness® Ties interlock the tiles together to resist wind damage, earthquake damage, or shifting of tile from other causes.

The Riness® Tile-Tie system consists of a series of interconnecting pre-formed wire ties through the holes of the tile to provide a continuous anchorage against sliding off. Besides being anchored at the ridge and eave line, the wire ties are anchored at 5 foot intervals as required to avoid overstressing the individual fasteners, but in no case longer than 10 feet. For added protection and in designated high-wind areas, and seismic zones 3 and 4, use the appropriate size Wind Lock Nose Hook for all cover tiles or at least the first three courses at the eave.

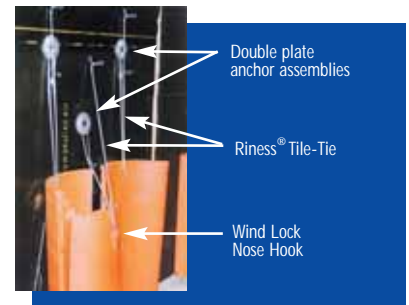


For further information refer to the Riness® Tile-Tie Specifications.

Roofing Tip

Use like metals for the entire system to prevent electrolysis. Use stainless steel tie wires and stainless steel, stainless anchors for stainless steel Tyle-Tye®. Use copper tie wires and brass anchors for copper Tyle-Tye®. Use brass tie wires and brass anchors for brass Tyle-Tye®. Use galvanized steel tie wires and galvanized steel anchors for galvanized steel Tyle-Tye®. For installation to steel decks use galvanized steel or stainless steel fastening systems.

For installation to concrete decks, use stainless steel fastening systems and stainless steel compression spikes. When using copper or brass fastening systems, use copper, brass or stainless steel fasteners. When attaching to steel decks, use stainless steel or carbon steel self-drilling screws. For light density concrete decks and over insulated decks, please consult the factory.



Roofing Tip

California State Architectural Code Title 24 provides building specifications for all state buildings to protect the safety of the public. Tyle-Tye® systems have been part of the California State Building Code Title 24 since 1933.

To date there have been no known reported failures of this system.

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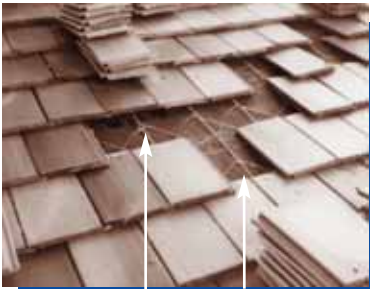
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TWISTED WIRE TYLE-TYE® SYSTEM



Twisted wire

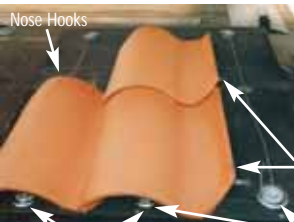
Tie wire bridle using 1 tie wire through both holes of shingle then tied into system at 45° angle



Wind Lock Nose Hooks

Pre-tied tie wires

Twisted Wire Tyle-Tye®



Nose Hooks

Hurricane Side Clips

Wind Lock Nose Hooks wired into Tyle-Tye® at eave course

Double plate anchor assembly

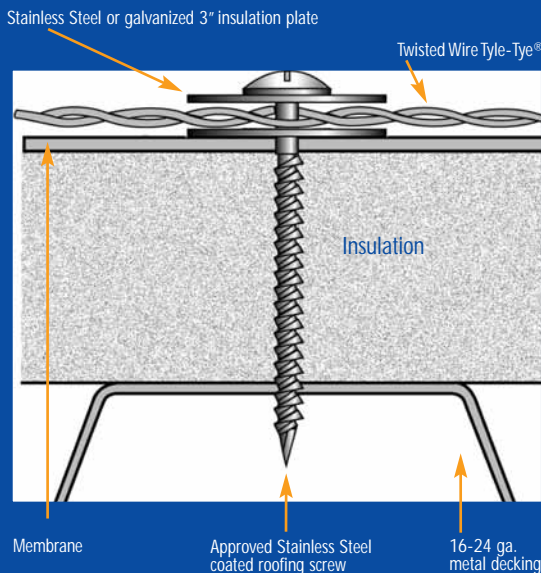
Twisted Wire Tyle-Tye® is a continuous element of twisted wire that is attached by means of a special anchor to the roof deck through the required underlayment. The continuous element consists of two wires twisted together with a loop or eyelet approximately every six (6) inches. The loops or eyelets in the twisted wire are used to accommodate whichever wire is selected to fasten individual roof tiles.

A loop in the Twisted Wire Tyle-Tye® is slipped down over the stem of the special anchor, and the two stem elements are then bent apart to engage the wire tie and to prevent it from slipping off. The double plate anchor system can be used also to fasten the Twisted Wire Tyle-Tye® to the roof deck.

Individual roof tiles are tied into the loops of the Twisted Wire Tyle-Tye® by means of a Tie Wire of similar metal. Besides being anchored at ridge, hip and eave, the Twisted Wire Tyle-Tye® System is anchored at 5 foot intervals as required to avoid over-stressing any one anchor point. In no case shall the anchor spacing be longer than 10 feet.

For further information refer to the Twisted Wire Tyle-Tye® Specifications.

Double Plate Anchor



Stainless Steel or galvanized 3" insulation plate

Twisted Wire Tyle-Tye®

Insulation

Membrane

Approved Stainless Steel coated roofing screw

16-24 ga. metal decking

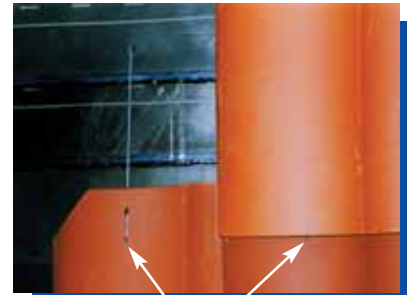
TYLE-TYE® TILENAIL



The Tyle-Tye® TileNail System is a unique fastener used in the cover portion of clay 2-pc Mission, clay "S" or most concrete tiles that incorporates a Wind Lock and a nail in one fastener. The TileNail eliminates breakage because the nail is away from the tile. (They are approved to all slopes and are particularly suited to mansard applications.)

The TileNail outperforms any direct deck nailed roof tile by securing the tile at two points with one fastener. A Wind Lock Nose Hook is incorporated into the front part of the TileNail holding the butt end of the next tile, while the shaft is slipped into the hole of the head end of roof tile being nailed. The uplift forces acting upon the butt end of the tile will continue to drive the nail portion of the fastener deeper into the deck. In addition the TileNail prevents fractures and/or breaks of the tile because the hammer is never near the brittle clay or concrete.

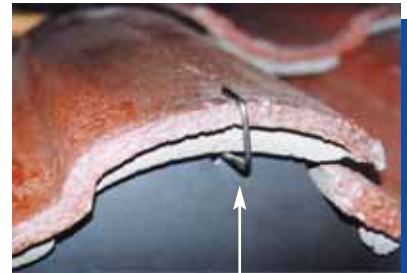
TileNails are available with or without a Wind Lock Nose Hook. When specifying TileNails with Wind Lock Nose Hook, specify 3" headlap for clay "S" tiles and concrete tiles laid with a 3" headlap. For those roof tiles requiring a 4" headlap, specify the 4" headlap TileNail.



TileNail with clay "S" tile



TileNail for concrete tile



TileNail with concrete high profile tile at eave with metal birdstop

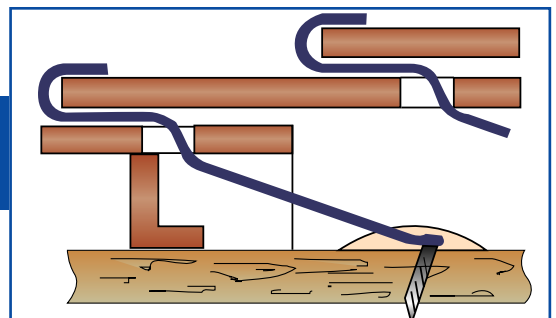
ALSO AVAILABLE

Copper and Stainless Steel Roofing Nails



Screws for Roof Tile and Tyle-Tye® System

Eave detail with booster tile



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WIND LOCK NOSE HOOKS



Wind Lock Nose Hook attached to shank of standard roofing nail.

Also known as "Tile Locks, Nose Hooks or Butt Hooks", Wind Lock Nose Hooks are for use with clay and concrete roofing tiles to all slopes. They provide a locking device for the butt edge of each cover tile. Wind Locks achieve greater holding

power and are used in high wind designated areas. Wind Lock Nose Hooks are compatible with all methods of tile attachment and are recommended for all roof tiles installed at slopes 7:12 or greater.

Available in a squared configuration designed to better fit all different roof tile profiles tightly. Manufactured from type 300 series (.090" dia., 2.3mm) Stainless Steel or 11 gauge (.120" dia, 3mm) Electro-galvanized Steel (10 ga. Brass is available by special request).

SAMPLING OF COMPLETED PROJECTS

Hotel and Resort

Aloha Towers, Honolulu, HI
Avalon Casino, Catalina Island, CA
Leo Palace Resorts, Guam
Manele Bay Resort, Lanai, HI
Ritz Carlton Hotels
Royal Hawaiian Hotel, HI



Government and Industrial

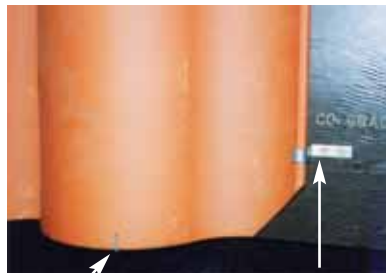
El Toro Marine Base, Orange County, CA
Anderson AFB, Guam
Brazilian Embassy, Washington, DC
Camarillo State Hospital, CA
Fort Ord Army Base, Monterey, CA
French Embassy, La Paz, Bolivia
Governors Mansion, Guam
Hoag Hospital, Newport Beach, CA
Honolulu Police Station, HI
King Kamahameha High School, HI
King Khalid Military City, Saudi Arabia
March Air Force Base, CA
McCallen Airport, TX
Richard Nixon Library, Yorba Linda, CA
Port Hueneme Naval Base, Oxnard, CA
Randolph Air Force Base, TX
Ronald Reagan Library, Simi Valley, CA
Scofield Barracks, HI
Stanford University, Los Altos, CA
State Capital, Sacramento, CA
U.S. Embassy, El Salvador
University of California, Berkeley, CA
University of California, Los Angeles, CA
University of So. Florida, Tampa, FL
University of So. California, Los Angeles,



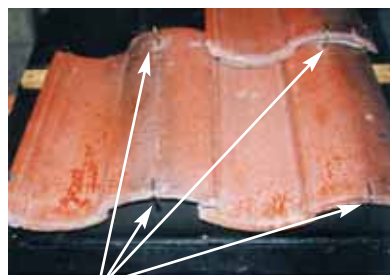
Historical Restoration

Delancy Street Center, San Francisco, CA
Gary Cooper Mansion, Beverly Hills, CA
Grand Ole Opry, Nashville, TN
Hearst Castle, San Simeon, CA
Mission San Juan Capistrano, CA
Old Town, San Diego, CA
State Capitol, Harrisburg, PA
Wingspread Estate, Racine, WI

HURRICANE SIDE CLIPS



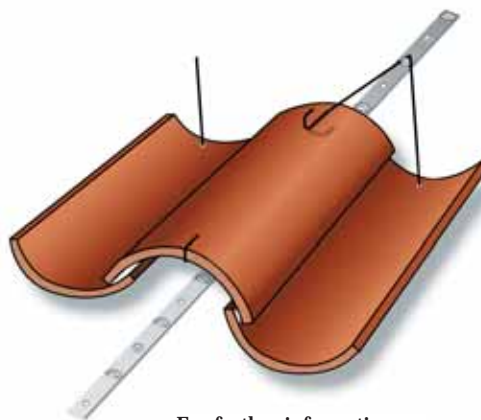
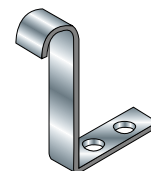
TileNail Nose Hook Perfect placement of Hurricane Side Clip



First two courses of TileNail with Nose Hook for concrete high profile tile

Also known as "hurricane clips, side clips or wind clips", the Hurricane Side Clip is a strap-type locking device for the side edge of several types of roofing tiles. It provides maximum holding power when used in conjunction with Wind Locks and one of the other Tyle-Tye® Systems. Hurricane Side Clips are especially suited for concrete roof tiles. Advantages of the Hurricane Side Clip include excellent holding power and invisibility of the part after installation. Hurricane Side Clips are approved for all slopes.

Hurricane Side Clips are manufactured from 1/2" (13mm) x 18 gauge Electro-galvanized Steel or 1/2" (13mm) x 18 gauge type 300 series Stainless Steel. 1/2" x 18 gauge brass is available upon special request.



For further information refer to the Tyle-Tye® Strap Specifications.

A California Architect invented the Twisted Wire Tyle-Tye® system in 1929 after a devastating earthquake damaged tile roofs in Southern California. It has been used for over 75 years to fasten any type of roofing tile, to any type of roof deck and to any slope. Extra tiles or boosters, mortar, staggered exposures, headlaps and other types of roof tile installation designs can be achieved using this multi-purpose roof tile fastening system.

Commercial and Entertainment

Automobile Club Hdqtrs., Los Angeles, CA
Brea Mall, Brea, CA
Del Mar Race Track, Del Mar, CA
Desert Inn Hotel & Casino, Las Vegas, NV
Disney Tower of Terror, CA
Disneyland, Anaheim, CA
Disneyland, Tokyo, Japan
Gene Autry Museum, Los Angeles, CA
Hass School of Business, Berkeley, CA
Hess Oil Project, Virgin Islands
Lockheed Corp. Hdqtrs., Calabasas, CA
Paramount Studios, Los Angeles, CA
Seaport Village, San Diego, CA
Warner Brothers Studios, Los Angeles, CA
Fashion Island Shopping Center, Newport Beach, CA



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