These types of systems have been used for over 80 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 multipurpose roof tile fastening system.

**STORM-LOCK® SIDE CLIPS**

Also known as “hurricane clips, side clips or wind clips”, the STORM-LOCK 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 STORM-LOCK Nose Hooks and one of the other STORM-LOCK Systems. STORM-LOCK Side Clips are suitable for most profiles and clay and concrete roof tiles. Advantages of the STORM-LOCK Side Clip include excellent holding power and invisibility of the part after installation. STORM-LOCK Side Clips are suitable for most profiles and clay and concrete roof tiles. Advantages of the STORM-LOCK Side Clip include excellent holding power and invisibility of the part after installation. STORM-LOCK Side Clips are suitable for most profiles and clay and concrete roof tiles. Advantages of the STORM-LOCK Side Clip include excellent holding power and invisibility of the part after installation. STORM-LOCK Side Clips are suitable for most profiles and clay and concrete roof tiles. Advantages of the STORM-LOCK Side Clip include excellent holding power and invisibility of the part after installation. STORM-LOCK Side Clips are suitable for most profiles and clay and concrete roof tiles. Advantages of the STORM-LOCK Side Clip include excellent holding power and invisibility of the part after installation.

**STORM-LOCK® NOSE HOOKS**

Also known as “Tile Locks or Butt Hooks”, 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. STORM-LOCK Nose Hooks achieve greater holding power and are used in high wind designated areas. 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).

**STORM-LOCK® 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 Storm-Lock® Strap system that is fastened by ring shank nails, screws or spikes. The 1” continuous metallic strip installs under the rows of tiles eliminating any pressure or weight on the strip while maintaining the integrity of the roof system.

**STORM-LOCK® TWISTED WIRE 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. The waterproof membrane is punctured only at anchoring points, and the appropriate roofing mastic is used to seal these penetrations.

**STORM-LOCK® SINGLE-LINE 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 roofing tiles.

**STORM-LOCK® 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.

**ALSO AVAILABLE**

Copper and Stainless Steel Roofing Nails

Screws for Roof Tile and STORM-LOCK System

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STORM-LOCK® Tile Fasteners, LLC
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**STORM-LOCK® SYSTEMS**

STORM-LOCK Systems include the Strap System, the Twisted Wire System and the Single Line System. With these fastening methods the puncture of the membrane is at the anchoring points. These anchoring points are sealed in the appropriate roofing material. STORM-LOCK Systems are IBC and IRC approved.

**STRAP SYSTEM**

The STORM-LOCK 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 material, each tile is quickly connected to a punch out providing for a speedy installation.

The STORM-LOCK 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 Nails or Tie Rods. Besides being anchored at the edge, Hip and eave, the 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.

For further information refer to the STORM-LOCK Strap System Specifications.

**TWISTED WIRE SYSTEM**

**STORM-LOCK® Twisted Wire**

STORM-LOCK Twisted Wire is a continuous element of twisted wire that is attached by means of a STORM-LOCK deck anchor to the roof deck through the required underlayment. The continuous element consists of two wires twisted together with a loop or hook approximately every 6 (6) inches. The loops or eyeslet in the twisted wire are used to accommodate whichever wire is to be fastened to individual roof tiles.

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

Individual roof tiles are fastened into the loops of the STORM-LOCK Twisted Wire by means of a tie wire of similar metal. Besides being anchored at edge, Hip and eave, the STORM-LOCK Twisted Wire System is 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.

For further information refer to the STORM-LOCK Twisted Wire Specifications.

**SINGLE-LINE SYSTEM**

Use of the STORM-LOCK Single-Line System as directed, results in a minimally penetrated membrane while the Single-Line Ties interlock the tiles together to resist wind damage, earthquake damage, or shifting of tile from other causes.

The STORM-LOCK Single-Line system consists of a series of interconnecting perforated wire ties through the holes of the tile to provide a continuous anchorage against sliding off. STORM-LOCK Single-Line is anchored to the deck using either the STORM-LOCK U-Hooks or the Double Plate Anchor method. Besides being anchored at the edge and saddle line, the STORM-LOCK Single-Line is anchored at 6 foot intervals as required to avoid overstressing the individual fasteners, but in no case longer than 10 feet. For additional protection and in designated high-wind areas, and seismic zones 3 and 4, use the appropriate size STORM-LOCK Nail Hook for all cover tiles or at least the first three courses of the above.

For further information refer to the STORM-LOCK Single Line Specifications.

**STORM-LOCK® Installation Tip**

Use like metals for the entire system to prevent electrolysis. Use stainless steel tie wires and stainless steel, stainless anchoring for stainless steel systems. Use copper tie wires and brass anchors for copper systems. Use galvanized steel tie wires and galvanized steel anchors for galvanized steel systems. 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 satisfactorily.

**STORM-LOCK® Tile Fasteners, LLC**

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STORM-LOCK SYSTEMS

STORM-LOCK Systems include the Strap System, the Twisted Wire System and the Single Line System. With these fastening methods, the seaming of the membrane is at the anchoring points. These anchoring points are sealed in the appropriate roofing mastic. STORM-LOCK Systems are IBC and IRC approved.

STRAP SYSTEM

The STORM-LOCK 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 tie is quickly connected to a punch out providing for a speedy installation. The STORM-LOCK Strap roof 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 roll, screw or spike the strap securely to any type of roof deck. Individual tiles are secured to the strap using Connectors, Tie Nails or the Double Plate Anchor method. Besides being anchored at the ridge and eave lines, the STORM-LOCK Strap Line is anchored at 5 foot intervals as required to avoid overstressing the individual fasteners, but in no case longer than 10 feet. For added protection in designated high wind areas, and seismic zones 3 and 4, use the appropriate size STORM-LOCK Nose Hook for all covers or at least the first three courses of the slope.

TWISTED WIRE SYSTEM

STORM-LOCK Twisted Wire is a continuous element of twisted wire that is attached by means of a STORM-LOCK deck anchor to the roof deck through the required underlay. The continuous element consists of two wires twisted together with a loop or eyefit approximately every 6 (6) inches. The loops or eyefits in the twisted wires are used to accommodate whichever tie is selected to fasten individual roof tiles.

A loop in the STORM-LOCK Twisted Wire is slipped down over the stem of the STORM-LOCK deck 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 STORM-LOCK Twisted Wire to the roof deck.

Individual roof tiles are fastened into the loops of the STORM-LOCK Twisted Wire by means of a Tie Wire of similar metal. Besides being anchored at the ridge and eave, the STORM-LOCK Twisted Wire System is 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.

For further information refer to the STORM-LOCK Twisted Wire Specifications.

STORM-LOCK SINGLE LINE SYSTEM

Use of the STORM-LOCK Single Line System as directed, results in a minimally penetrated membrane while the Single Line Ties interlock the tiles together to resist wind damage, earth quake damage, or shifting of tile from other causes.

The STORM-LOCK Single Line System consists of a series of interconnected preformed wire ties through the holes of the tile to provide a continuous anchorage against sliding off. STORM-LOCK Single Line is anchored to the deck using either the STORM-LOCK U-Nails or the Double Plate Anchor method. Besides being anchored at the ridge and eave lines, the STORM-LOCK Single Line is anchored at 5 foot intervals as required to avoid overstressing the individual fasteners, but in no case longer than 10 feet. For added protection in designated high wind areas, and seismic zones 3 and 4, use the appropriate size STORM-LOCK Nose Hook for all covers or at least the first three courses of the slope.

STORM-LOCK INSTALLATION TIP

Use the STORM-LOCK Tile Nail System to provide electrical and gas service lines (1/2 inch) with fasteners. 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 spiles. When using copper or brass fastening systems, use copper, brass or stainless steel fasteners. When anchoring to steel decks, use stainless steel or carbon steel satisfying screws.

For further information refer to the STORM-LOCK Single Line Specifications.
ALSO AVAILABLE

Copper and Stainless Steel Roofing Nails
Screws for Roof Tile and STORM-LOCK System

These types of systems have been used for over 80 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 multipurpose roof tile fastening system.

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