

- Special Instructions -

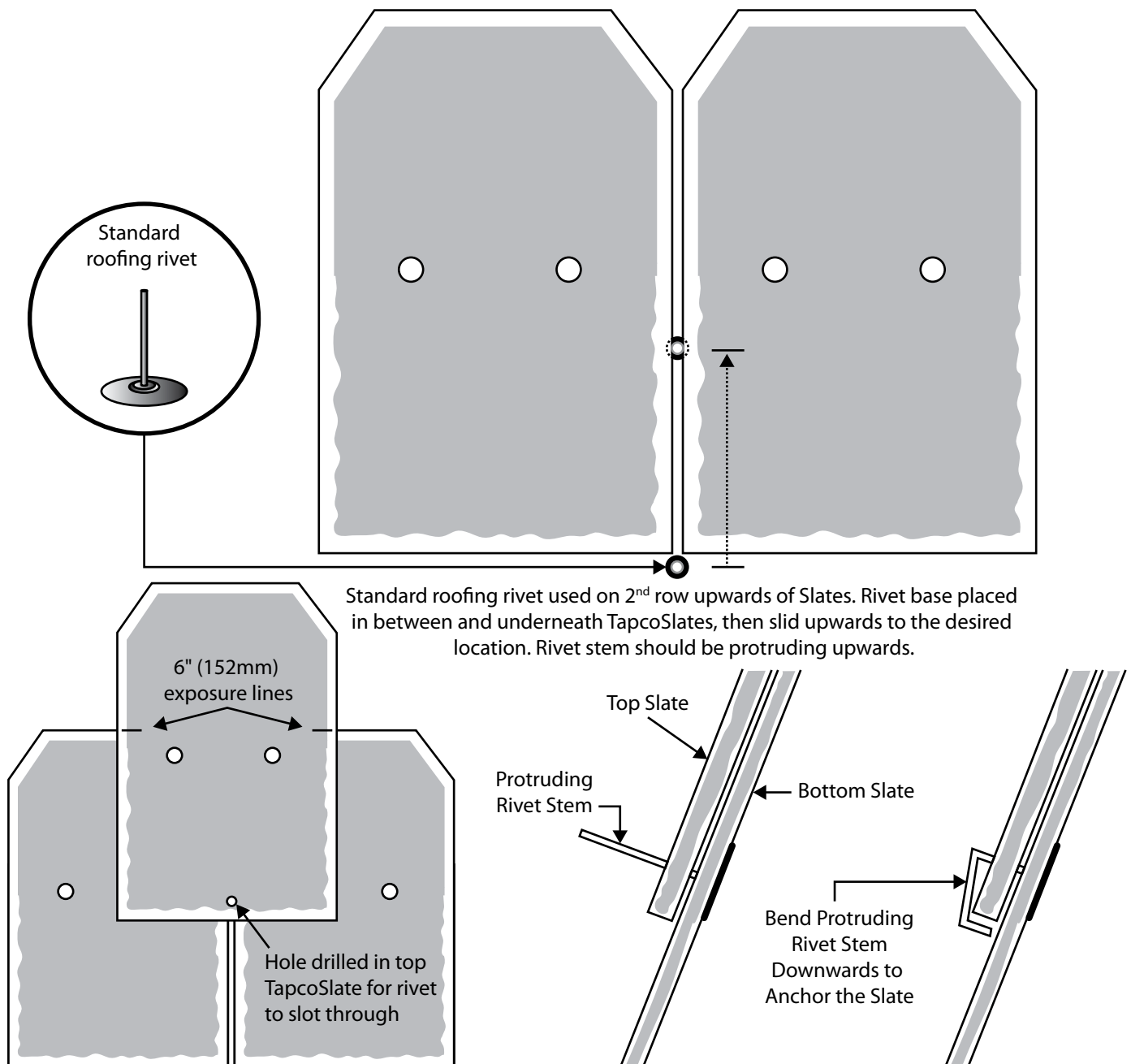
Installation in Exceptionally High Wind Areas

TapcoSlates are tested for resistance to wind driven rain/wind uplift, as follows:

- Miami Dade TAS-100: (110 mph wind-driven rain). No water infiltration through sheathing. No slate cracked, split or lifted.

There are certain areas, particularly on west-facing coasts and exposed islands, where wind speeds can exceed this level, and in order to reduce the risk of uplift, the following installation instructions should be followed:

1. TapcoSlates should be fixed directly to a solid substrate, such as sarking board, OSB or weather-grade ply.
2. The maximum overlap – slates set at the 6" (152mm) gauge – should be used.
3. Standard copper roofing rivets should be installed: a hole is drilled in the overlapping or top slate, and a rivet is slid up between the gap in the two bottom slates (see diagram below). The rivet should be put in a position where it can be inserted through the hole and bent over. After a length of time the rivets will naturally blend in with the slate.



Turret Installation

Turrets and cones need custom cut slates which change depending on the radius and pitch. They can be quite difficult to install; time and care must be taken during installation.

1. Determine the taper by chalking lines originating at the peak, extending to eave spaced 11.5" to 5/8" (292mm to 16mm) apart for Classic (the width of one slate).
2. Place the slate at the eave between the 2 lines, this will give you the proper taper for the first course.
3. Mark up from the top of your first slate your exposure. Repeat until you reach the top of the turret.
4. Each course will have a different taper as the pieces get smaller towards the top. You can now place a slate to each mark and determine the taper per course.
5. Be sure to pay attention to the size of the slates, If the slates get too small it may be necessary to use a larger slate and re-chalk lines at some point.
6. Make sure measurements are periodically taken from eave and peak to ensure straight courses.

Precautions

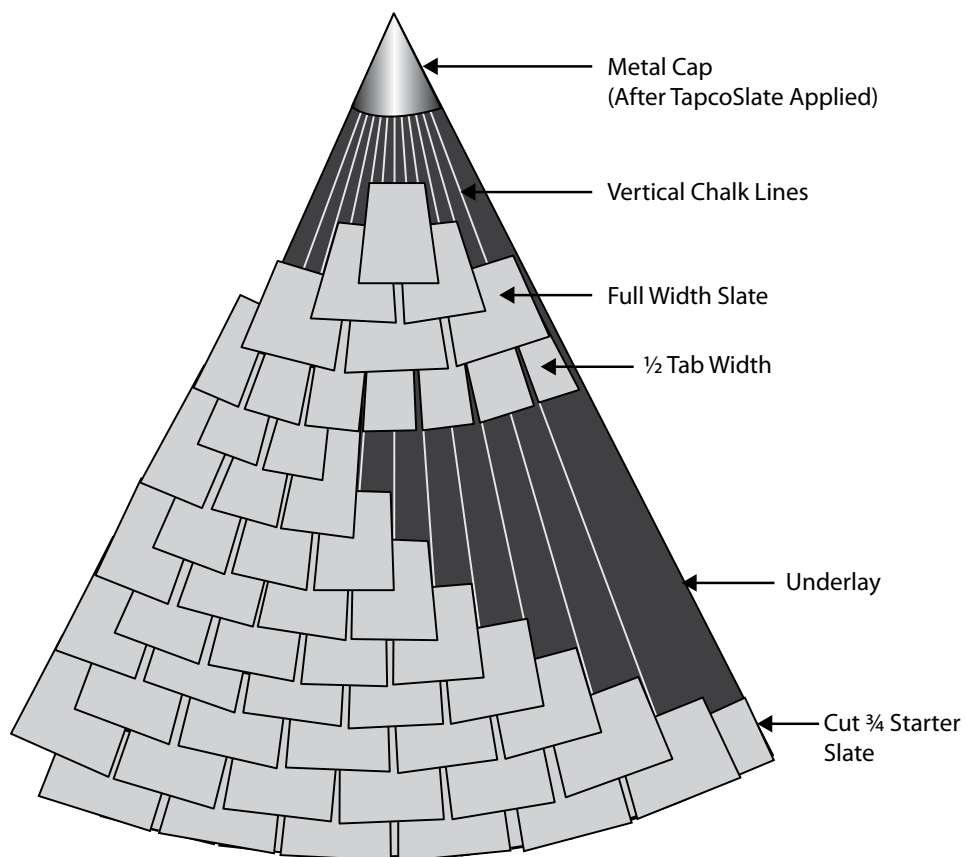
Roof slates may be slippery when wet or covered with frost. Fall protection equipment is required when working on a roof deck. The contractor may consider the use of toe boards. TapcoSlate roof slates should be stored in temperatures above 7°C and the ambient temperature of the product must be at a minimum of 7°C during installation in order to avoid webbing and/or cracking of the roof slates.

Do not leave debris under the roof slates while installing that will prevent the design of the roof slate from overlapping on the course below, thus allowing the potential for moisture build up from wind-driven rain and/or ice dams.

Use accessory products with a lifecycle as equally long-term as the roof slates.

Technical Bulletins should be reviewed and considered prior to the start of any project.

Turret Installation



Removing/Re-fitting TapcoSlates

The removal and re-installation of individual slates can be achieved quite easily when the slates have been nailed into place, but more difficult if screws have been used to install the product.

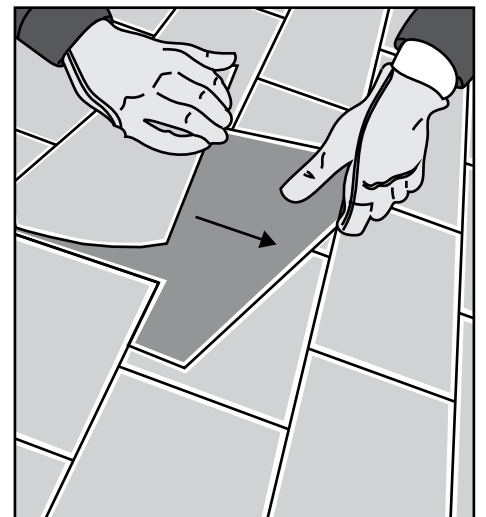
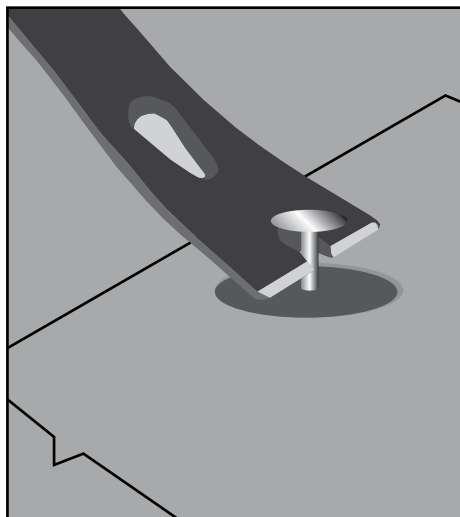
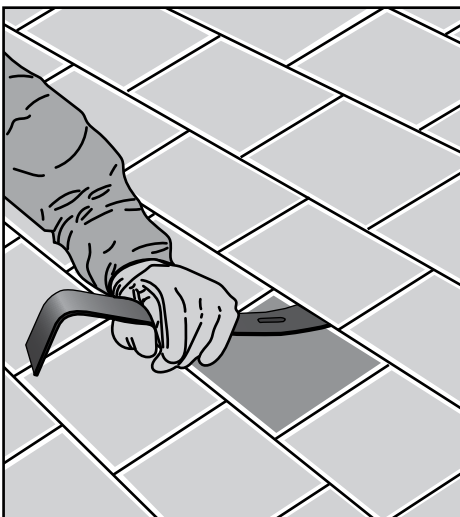
Removal/Re-fitting: Nailed Install

Tools

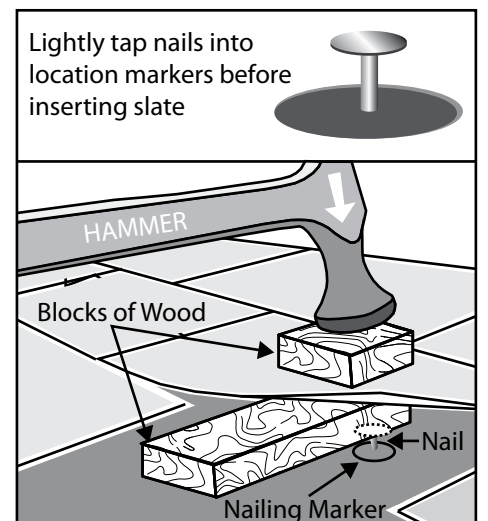
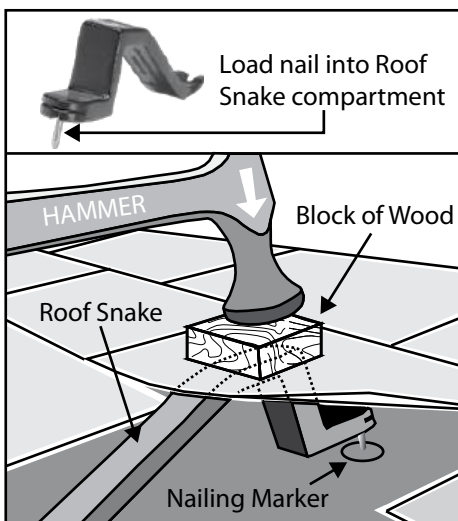
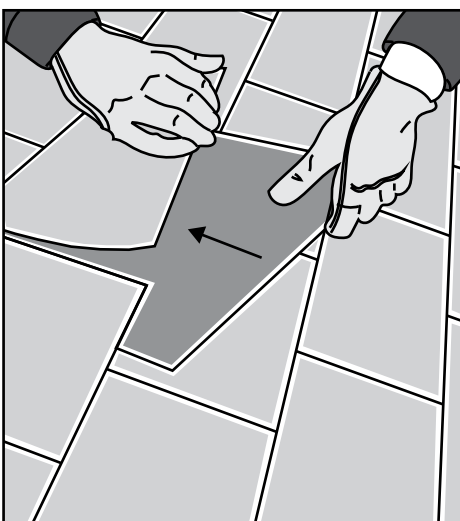
The correct tools should be used for the removal and re-installation of the slates, we recommend a Vaughan SuperBar and/or a Roof Snake, a hammer and nails and a block of wood.



On both the SuperBar and the Roof Snake, the forked end is used to slip under the tile above the one being removed to lift up the nail and remove – the SuperBar's eye hole can be used to better effect to accomplish the nail removal as it will keep the tile above as flat as possible and avoid any distortion.



To replace the slate, it is handy to use a Roof Snake as it allows the installer to insert a new nail into the tool and use a hammer on the tool neck or a block of wood (which helps protect the slate surface) to drive the nail home. Alternatively, if not using a Roof Snake a second block of wood can be used in a similar way.

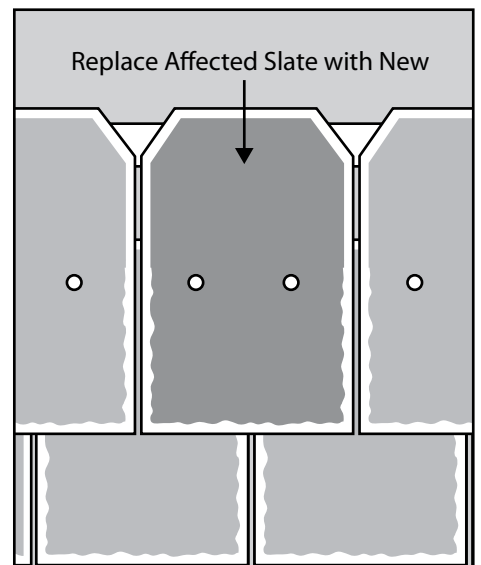
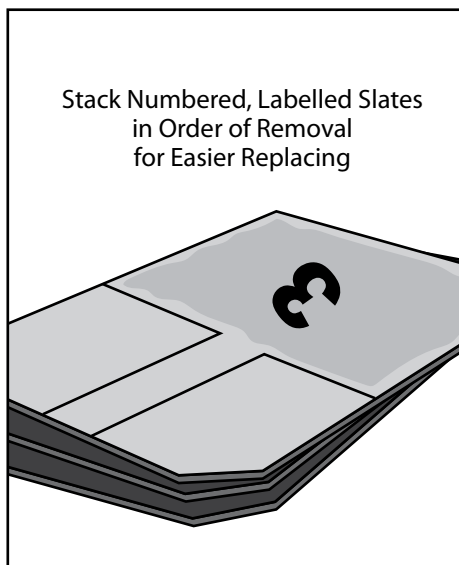
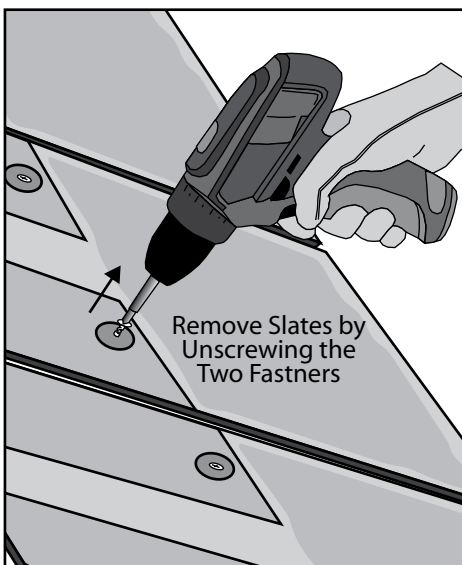
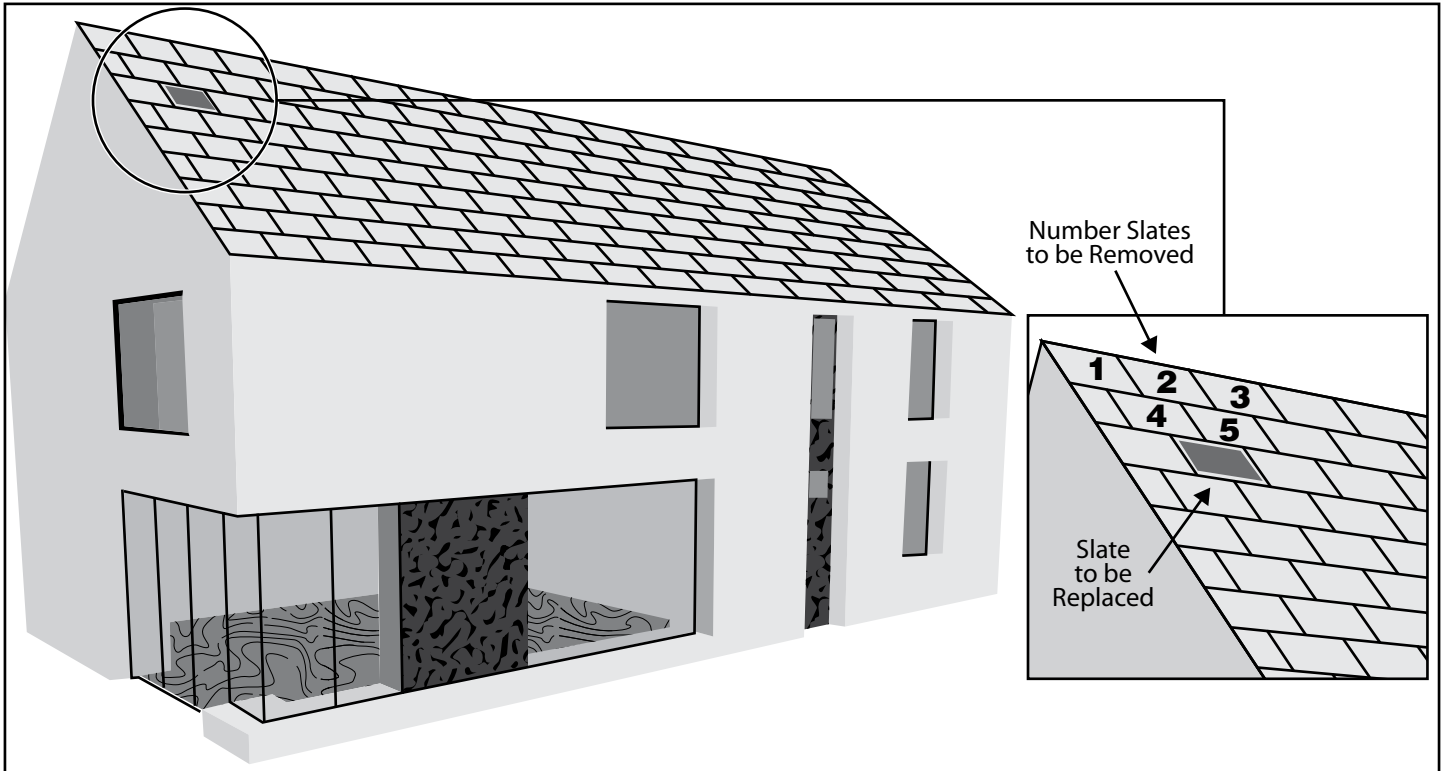


Removal/Re-fitting: Screwed Install

Tools

Hand screwdriver and/or powered screwdriver/drill.

To remove a TapcoSlate that has been fixed by screws, the only way to achieve this is to remove a certain amount of other slates by unscrewing from the top of the roof downwards to the affected slate that you wish to remove. This will also involve removing ridge caps in the affected area unless the slate screws are easily accessible by lifting the caps with a pry bar. Prior to removing the slates, it would be best to label/number them in order of removal using masking tape and a pen/pencil. Always carefully and systematically stack the slates in order of removal so that they can be placed back in the same place. Please note that over time there will be a certain amount of uniform weathering on the roof slates, and so a brand-new slate will never completely match the older ones at first until this too has weathered-in over a period of time.



Replacement of the removed slates is the same process in reverse, replacing the carefully stacked and labelled slates in the order they were taken off, taking care not to over tighten the screws and replace any other slate tiles or ridge/hip that may have been damaged during the strip-down process.