

INSTALLATION MANUAL

Synthetic Palms

Moorea & Tropica

Our synthetic palm has been designed to be installed quickly and easily. The different palm components have been crafted to be installed on different roof structures, with a beautiful installation effect.



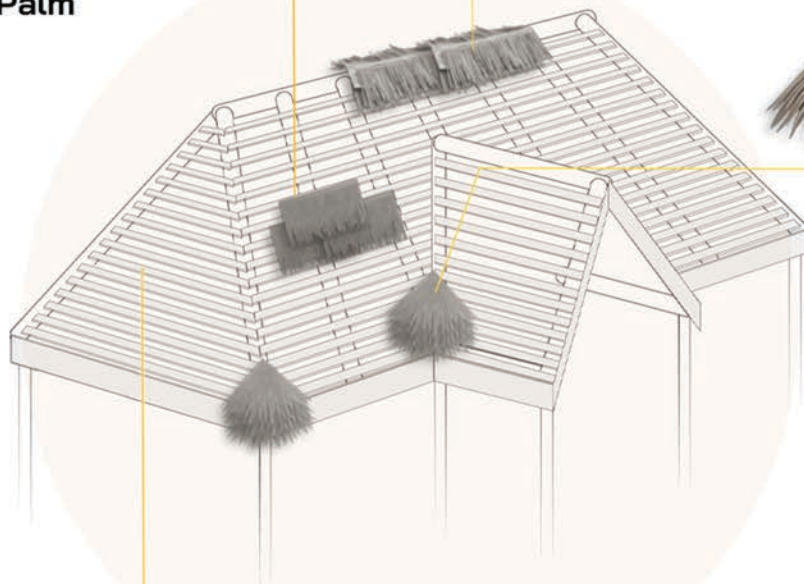
Main Palm



Ridge

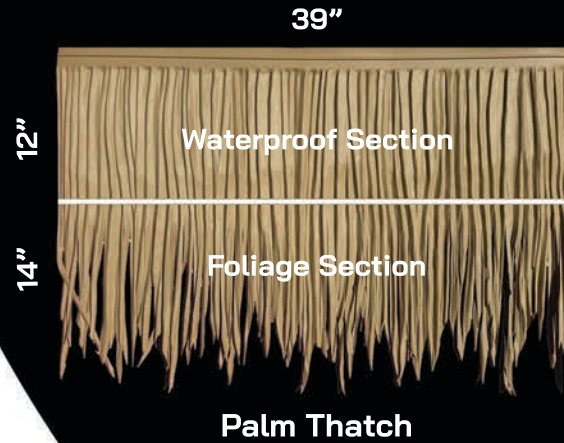


Hip

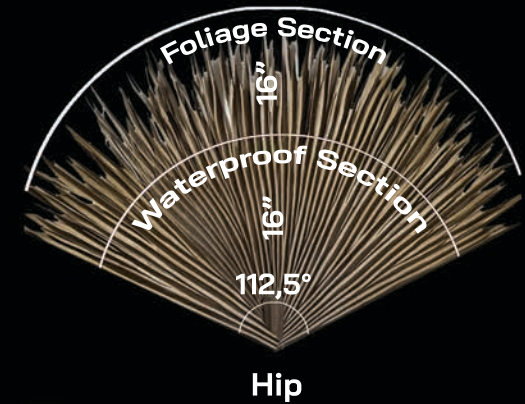


Wooden studs or rails
spaced every 8"

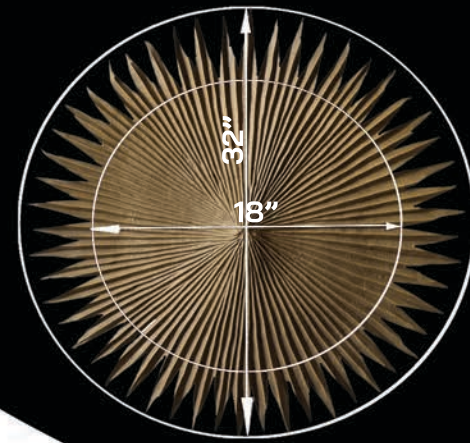
Palm Thatch Components



Palm Thatch



Hip



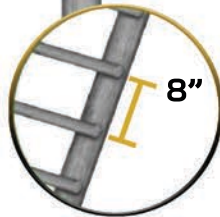
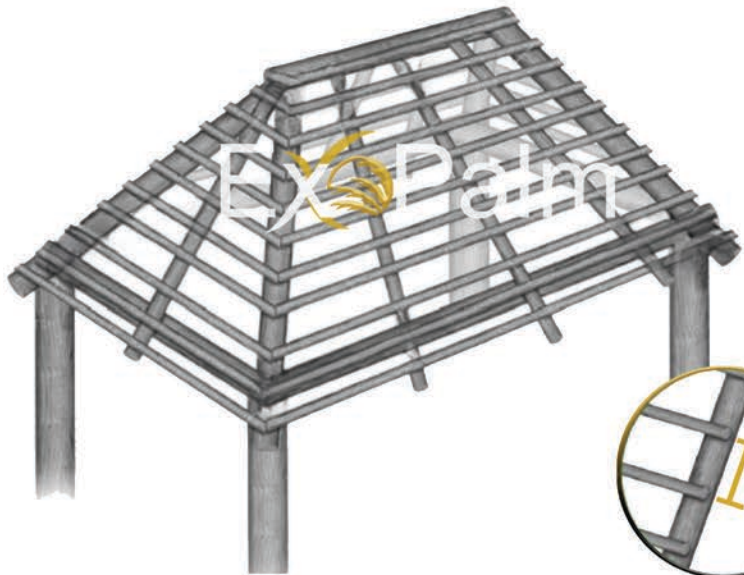
Cone Top

ExPalm

561-332-5598
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Structure Layout and spacing :

The frame of the structure should be constructed with wood that are able to endure major weather conditions. Our recommend choices are Eucalyptus, Cypress and pressure treated woods.



Batten spacing
center to center :
8" (200mm)

Rafter spacing : 18" (460mm) to 36" (920mm)

Batten spacing : 8" (200mm)

Batten size : min 2" (51mm)

Slope : Min. 4/12 (18.4 °), recommend 6/12 (26.5°) or greater.

Required Tools :



Roofing galvanized nails
1" 1/4 to 1" 1/2 length



Roofing screws with rubber washer
1" 1/4 to 1" 1/2 length

Nail Gun / Drill Driver
Hammer
Utility Knife
Ladder / Scaffold
Tape Measure

● Nails or screws Position

Minimum 3 nails or screws for each palm thatch



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Installation Eave :

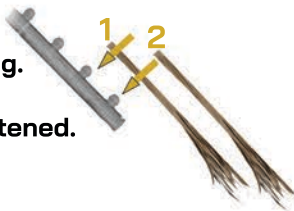
3" (76mm) Overlap



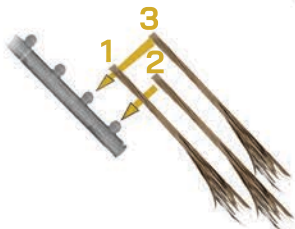
- 1 Install the 1st row of thatches on the 2nd purlin, leaving the right corner unfastened on all palm installations, which will be overlapped and fastened by the following palm installation.



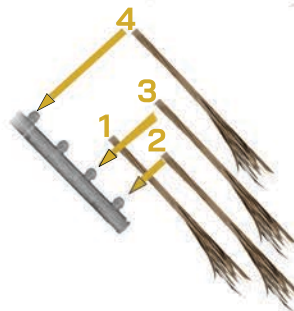
- 2 Install the 2nd row of thatches on the 1st purlin. Make sure to leave 3" (76mm) on the side unfastened.



- 3 The 3rd row will be attached to the same purlin as the first row. Make sure to install the palm thatches on the last row's overlap line.



- 4 The 4th row will be installed on the 3rd purlin, make sure is 3" (76mm) overlap between two palm thatches, and install the thatches on the last row's overlap line to make the better waterproof effect. All the next rows will be installed as the same way as the 4th row.



Installation Field 1 :

- 1 Begin field palm thatches installation, at the hip fasten field thatches to the purlin, leaving 3-4" from the hip unfastened.



- 2 Continue fastening from right to left, leaving the top corner unfastened,



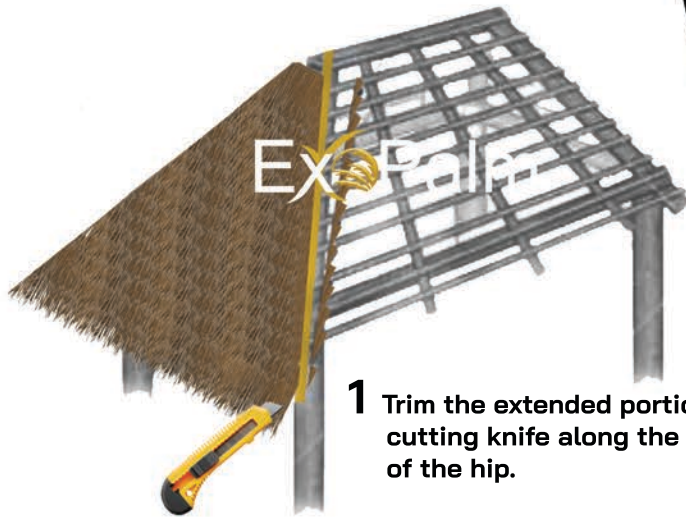
- 3 Overlap the next field of thatches over the first by min. 3" (76mm). Fasten through both thatches on the overlap at the corner.



- 4 As you installed the field of thatches, be sure to off-set each row from the previous row, at a minimum of 8" (200mm)



Installation Field 2 :



- 1 Trim the extended portion with a cutting knife along the center line of the hip.



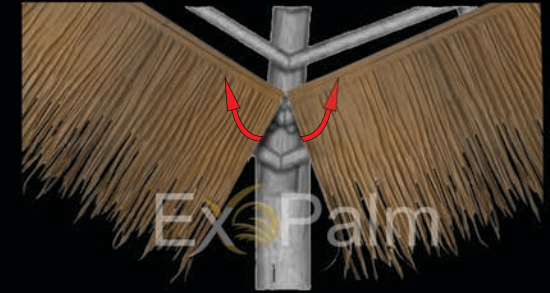
- 2 After cutting the field of thatches left side, continue to cut the field of thatches that intersects on the other side along the center line of the hip.



- 3 Install another field of thatches to cover the exposed leaf pattern. Trim the upper part of the field of thatches nearly along the center of the ridge line.

Installation hip :

- 1 Start the hip by stacking hip thatches and inserting under the field of thatches corner.



- 2 Start from the 1st purlin, nail location (see yellow mark).



- 3 Continue installing the hip on the 2nd purlin



- 4 Fasten the corner of the field thatches over the top of the hip thatches, (see red marks). Then same way continue installing hip thatches 1 piece per row to reach the entire hip.



Installation ridge :

When you finished to install the hip you can start the installation of the top ridge.



Install ridge thatches to cover the entire ridge of the tiki.



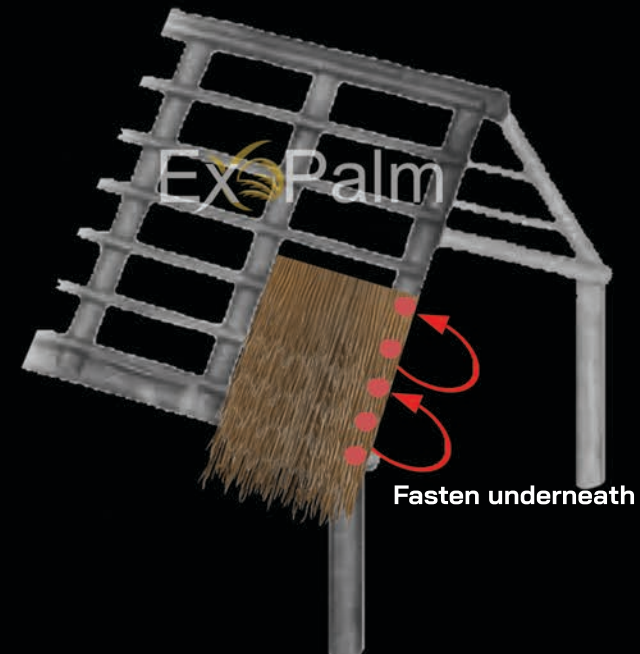
Placed a minimum of 4 nails or roofing screws on each side of the ridge thatches. (see red marks)
Make sure the top rows of the ridge thatches are overlapping the top of the tiki ridge and make sure there is 3" (76mm) overlap between two ridge thatches, this ensures the waterproofing for the ridge.

Installation Gables End :

Always left the palm thatches extend past the gable with sufficient length to completely cover the fascia. This will enable the wrapping of the palm thatches around the fascia, to achieve the appropriate gable thickness.

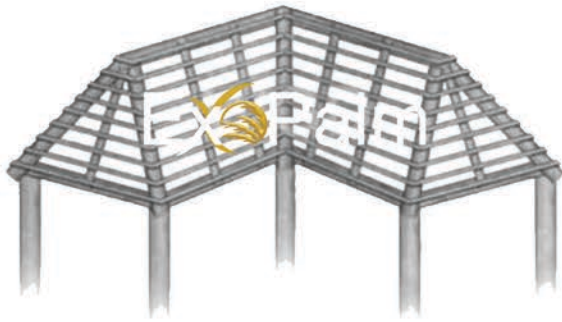


Begin by wrapping the palm thatches around the fascia and trim the length if necessary. Cut and fold the fond portions as needed, or use as aesthetic pieces.



Installation Valley :

Typical valley framing details

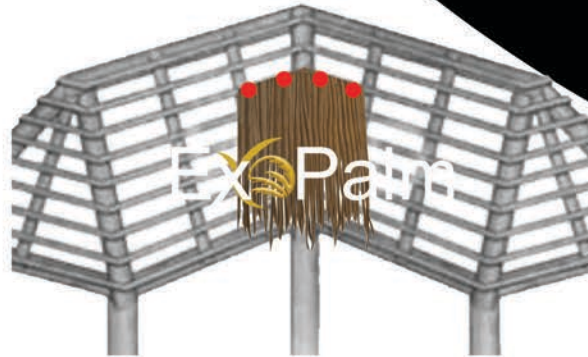


- 1 Cut a palm thatch in half



- 2 Trim the extended portion of the palm thatch above on purlin line with a cutting knife.

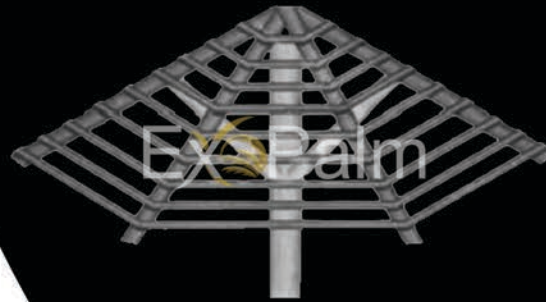
- 3 Begin valley installation, install half palm thatch from the eave up, one half palm thatch per purlin. Placed a minimum of 2 nails or roofing screws on each side of the hip thatches. (see red marks)



- 4 Then, main palm thatches will be installed over the valley, trimmed 2" (50mm) to 3" (70mm) off the center line of the valley.



Installation Round / Octagonal Structures & Parasols :

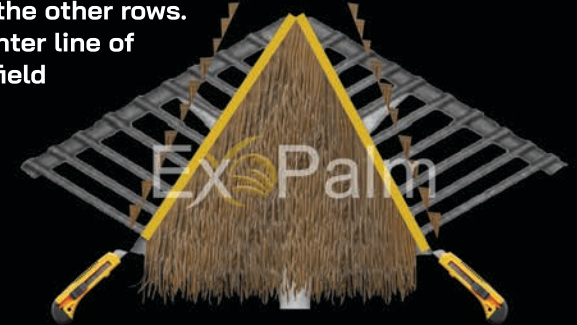


Typical round / umbrella framing

- 2 Then, do the eave installation of the other rows. Trim the palm thatches to the center line of the roof segment. (See eave and field installation (See page 3 and 4).



- 1 Begin with the first row eave installation, followed by the field. Trim the palm thatch (see drawing above).



- 3 Cut field palm thatch in 3 pieces or use hip and install them over the center line of the roof segment (See hip installation on page 4).



Installation Round / Octagonal Structures & Parasols :

- 4** Complete the installation of the round structure by placing the cone at the top of the structure.



- 5** Fasten with the roofing screws or nails the top cone on the 8 roof segments, and cover them with sealant.



Hurricane Protection Upgrades :



Rails with removable hooks (120" length X 1" X 1"). The rails can replace the tiki horizontal wooden studs spaced every 8" or can be screwed on the wooden studs.

- 1 :** Hook used without rail. The hook is placed on top of the palm thatch and screwed or nailed directly into the horizontal studs.



Hurricane hooks. Prevent palm thatch from lifting in high winds.

- 2 :** Removable hook that clips or inserts into the rails, and then are screwed or nailed in the wooden studs



First, slide the palm thatch in the rail.



Second, twist the palm thatch with the rail.



Third, insert the hook into the rail. Minimum 3 hooks per palm thatch is required.



Fourth, screw or nail the hook in the wooden studs. (See red mark).