








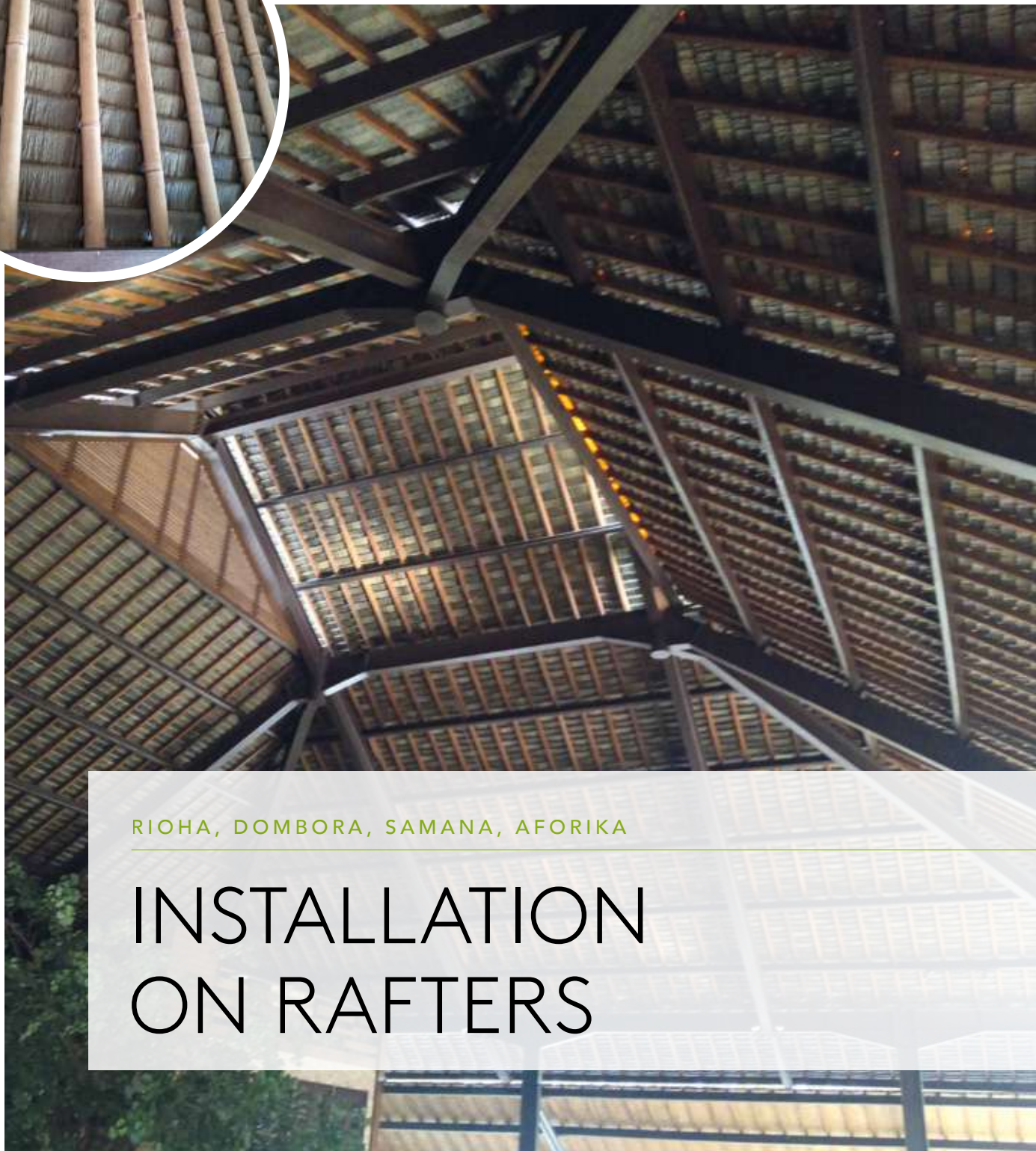
INSTALLATION GUIDELINES

OVERVIEW

INSTALLATION ON RAFTERS.....	03
Using Palmex Rails.....	04
Using Horizontal Battens.....	07
INSTALLATION OVER EXISTING ROOFS.....	08
On Top of Plywood Sheathing.....	09
On Metal Sheeting or Concrete Roofing.....	10
INSTALLATION OF ACCESSORIES.....	11
Pre-Moulded Hips/Valleys.....	12
Valleys.....	12
Custom Hips.....	13
Linear Ridges.....	14
Round Ridges.....	14
Wind Clips.....	15
EDGE FINISHES.....	16
ROOF ADD-ONS.....	18
Velux Skylights.....	19
Awnings.....	19
INSTALLATION OF OUR <i>FIJI</i> LEAVES.....	20
SOME OF OUR PROJECTS.....	22

LEGEND

				
Installation Steps	Demo	FYI	Option	Pro Tips (for information purposes only)



RIOHA, DOMBORA, SAMANA, AFORIKA

INSTALLATION ON RAFTERS

USING PALMEX RAILS

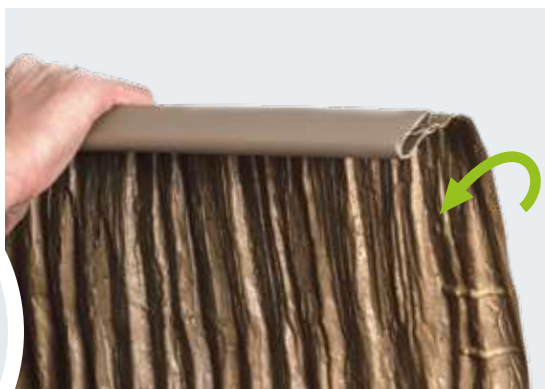
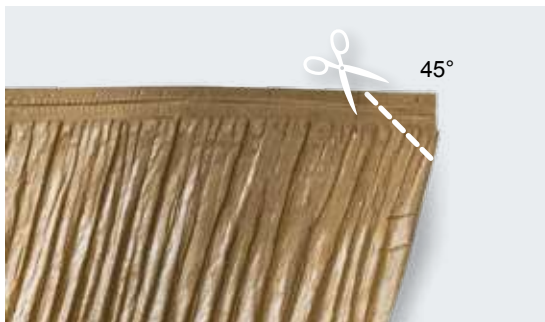
When installing Palmex products, you must do so in accordance with your roof slope.

30° – 40° Slopes: 11cm spacing between rows.

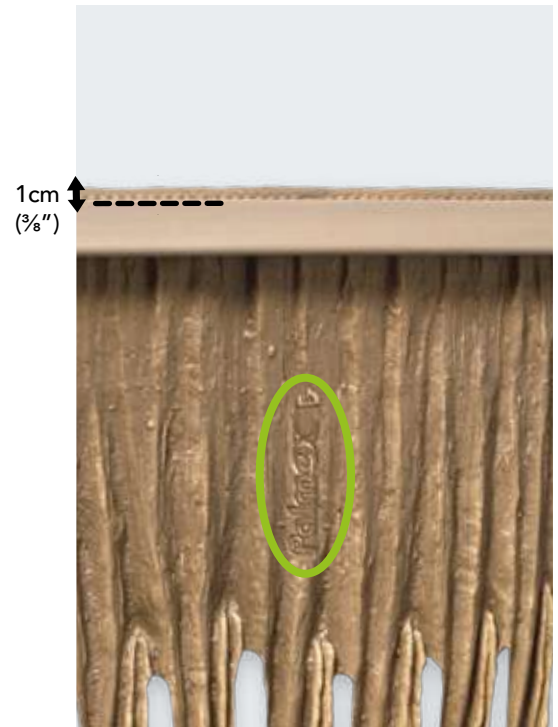
41°+ Slopes: 12.5cm spacing between rows.

To insert the leaf effortlessly, you may cut the edge at a 45° angle or else use a soap or lubricant.

PRO TIP



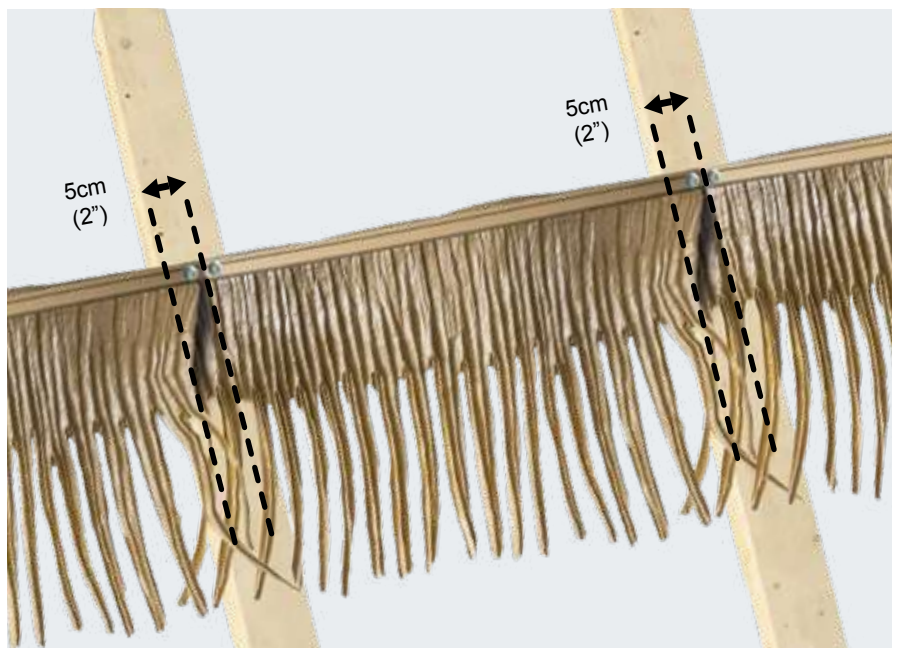
Once the leaf has been inserted into the rail, fold the rail back to leave a **1cm space** at the fold between the rail and topside of the leaf.



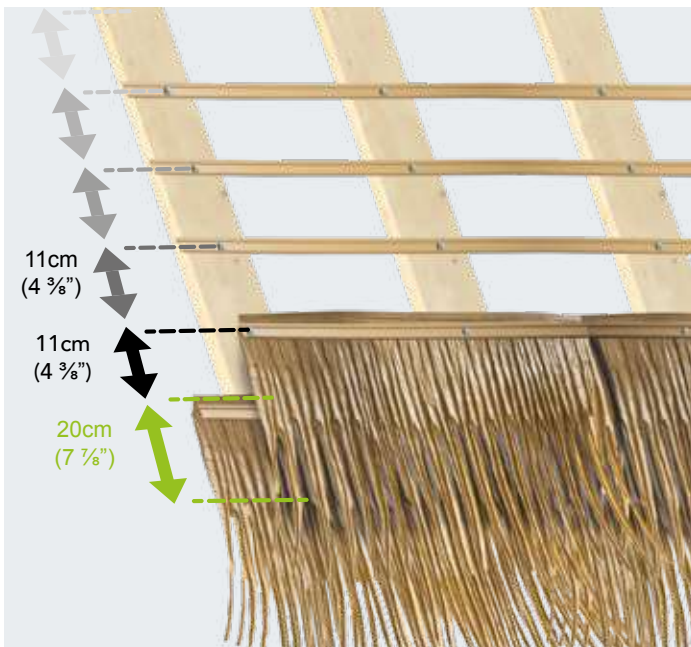
1 The Palmex logo should appear on the topside to indicate it is the right way up.



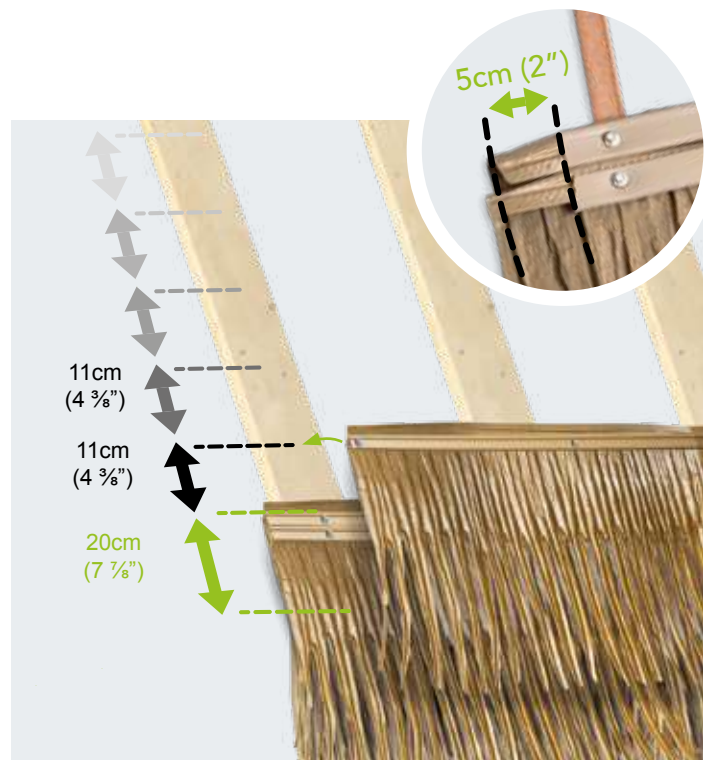
+ **Option:** For a clean look and finish, you may choose to fuse the leaves together at the junctions using a heat gun.



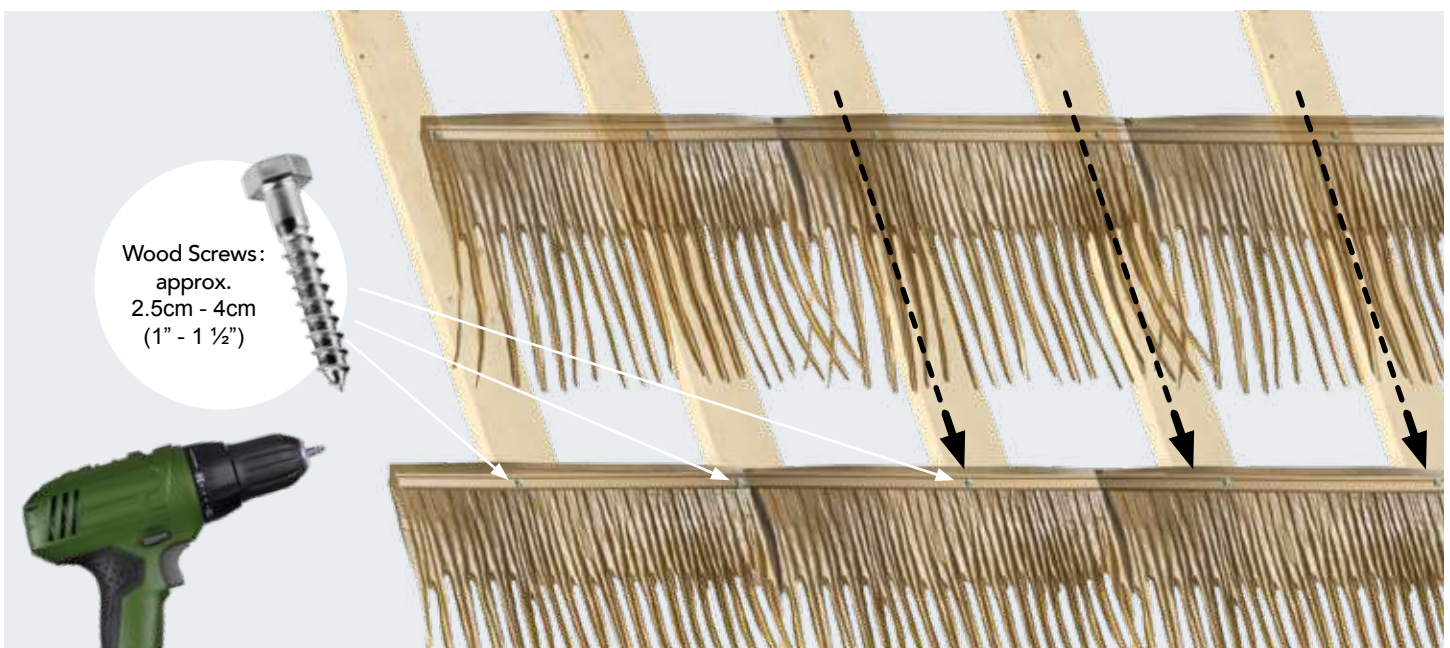
2 Where two rails intersect, place the first leaf underneath the next rail, creating a **5cm minimum overlap**.



- 3A Option 1:** Intertwining the leaves. You may choose to insert two leaves into the initial starter rail to create thickness and volume - carefully intertwining the leaf tips (fingers) so they overlap nicely. The very first row should be placed **20cm** from the bottom edge. The second, **11cm** from the first. All subsequent rows should be placed **11cm** apart.

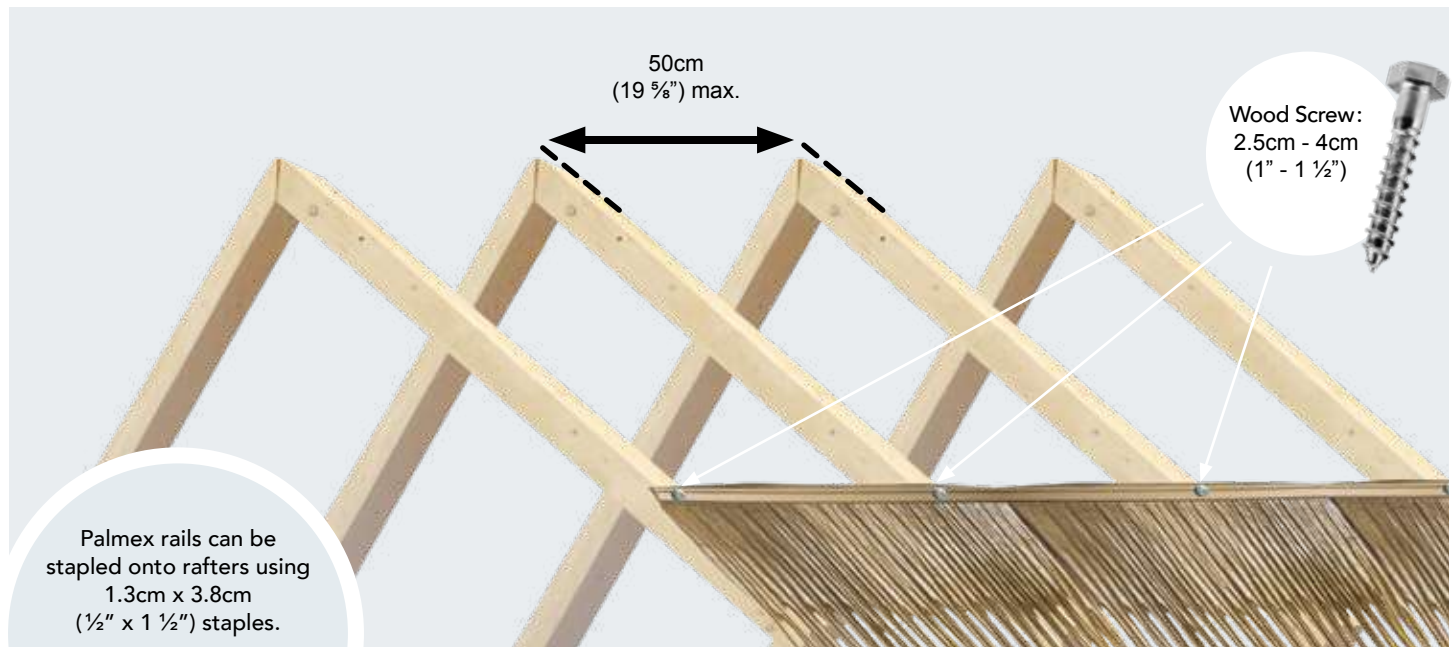


- 3B Option 2:** Place the first two rails (rows) very close together, one immediately after the other without a space - carefully intertwining the leaf tips (fingers) so they overlap nicely before placing the next row. These first two rows must be laid **20cm** from the bottom edge (eaves). Then, third and subsequent rows should be laid **11cm** apart.



- 4** Sheets must overlap in a **staggered/offset** pattern. This is done so that the joints (seams) between two leaves on a given row will be covered over (hidden) by the next row above them.

USING PALMEX RAILS



PRO TIP

- 5 The rail must be screwed onto wooden rafters, which should be **no more than 50cm apart**.

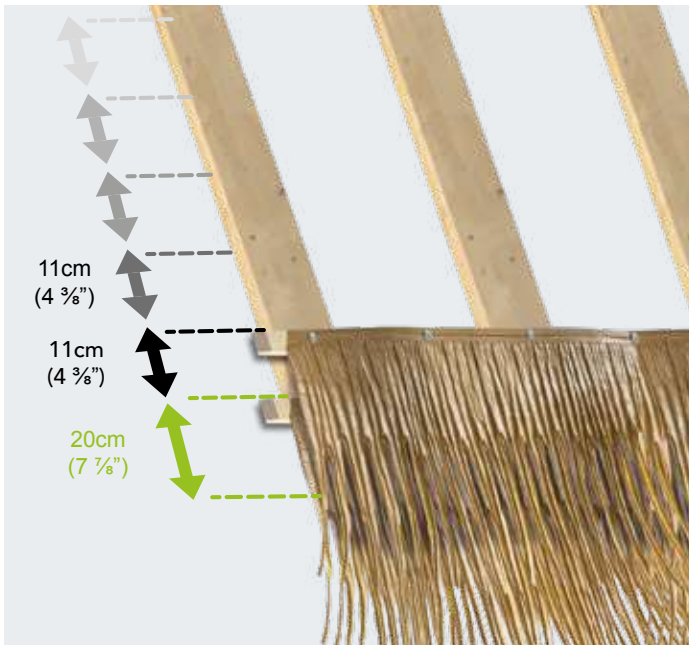


- + **Option:** To facilitate the eventual top ridge installation, as you are laying Palmex rails on rafters, you can also place a wooden batten **10cm – 13cm** from the top (ridge) of the roof.



- 6 Place the ridge cover over the very top of the roof. Screw the ridge onto the rafters or onto the wooden batten shown in the image to the left (for further ridge installation details, see Accessories section).

USING HORIZONTAL BATTENS



- 1 Place two layers of leaves on the first batten to create thickness and volume. Carefully intertwining the leaf tips (fingers) so they overlap nicely. This first row must be placed **20cm** from the bottom edge (eaves). The second and subsequent rows can then be laid at **11cm** spacing intervals, using nails, screws or staples.



PRO TIP

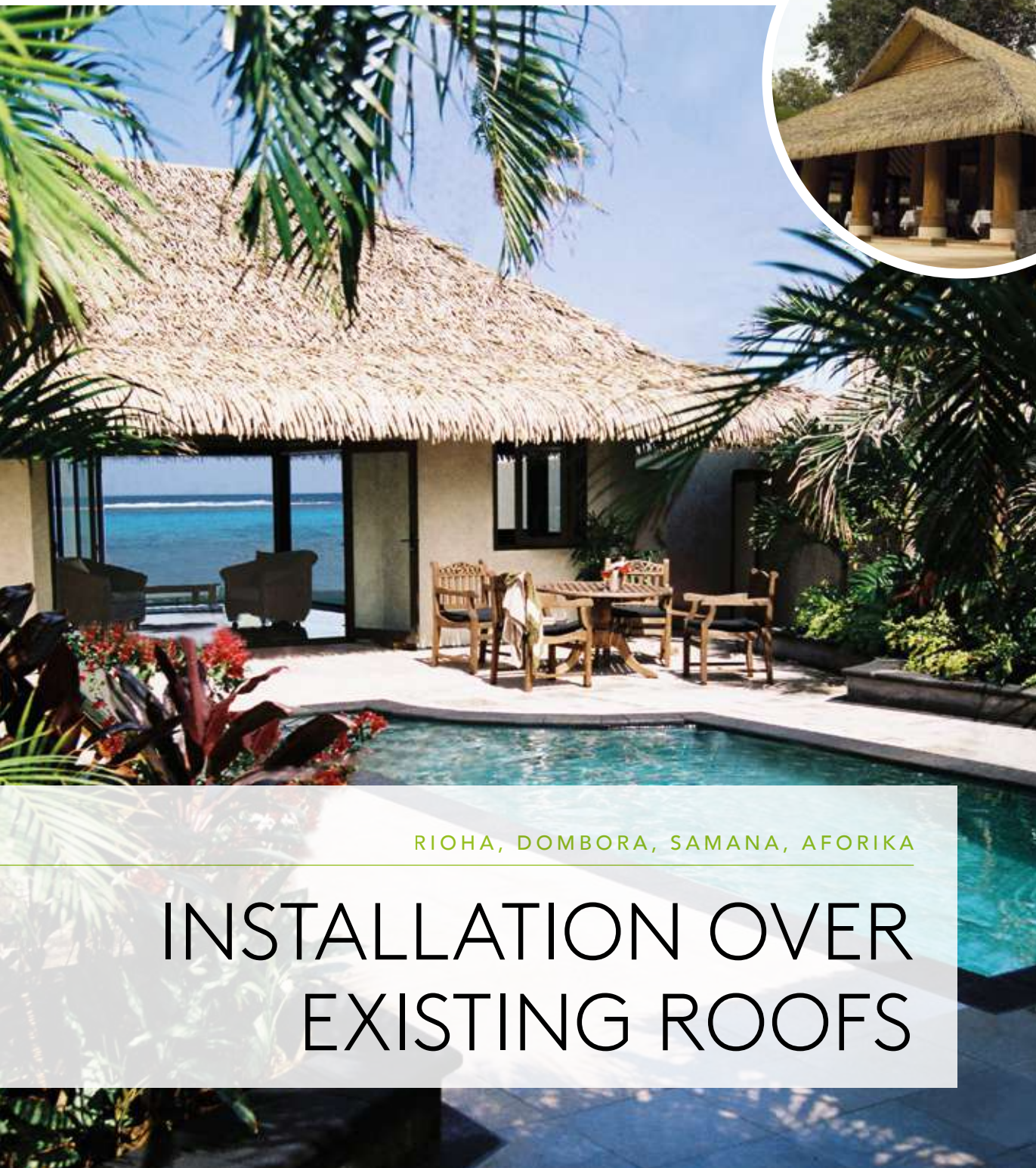
Palmex products can be stapled onto rafters using 2cm x 2.4cm staples ($\frac{3}{4}$ " x $\frac{15}{16}$ ")



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- 2 Install the ridge cover once every row of leaves has been fully laid.



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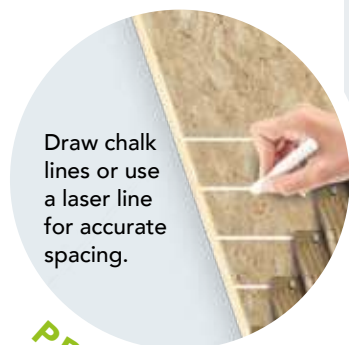
INSTALLATION OVER EXISTING ROOFS

ON TOP OF PLYWOOD SHEET

When installing Palmex products, you must do so in accordance with your roof slope.

30° - 40° Slopes: 12.5cm spacing between rows.

41°+ Slopes: 14.3cm spacing between rows.

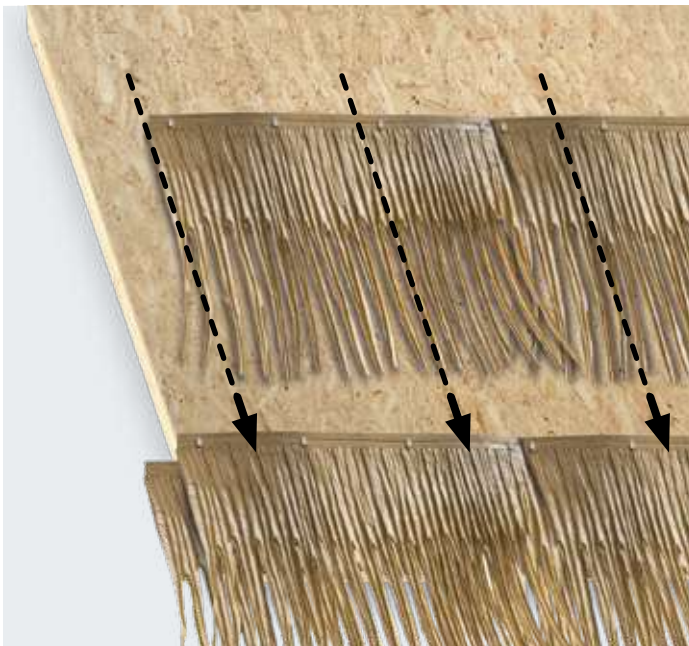


PRO TIP

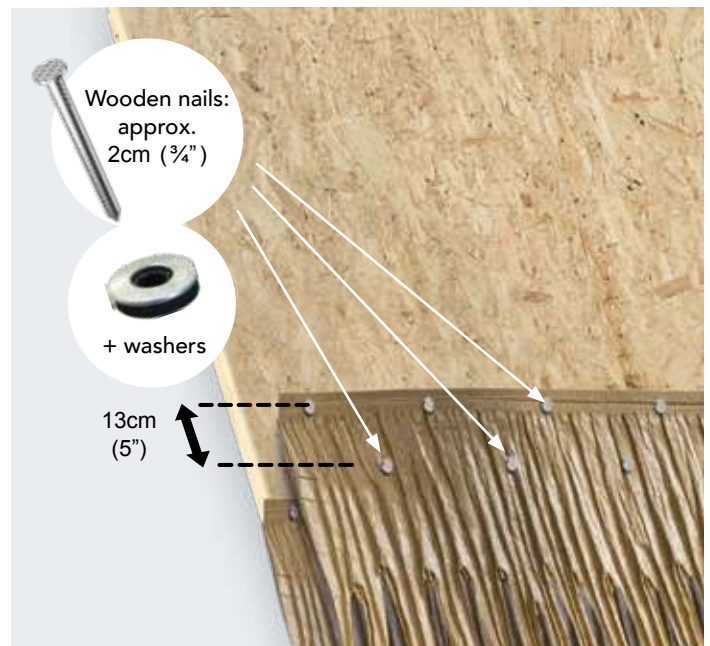


- 1** **Row 1:** Lay the first row of leaves **20cm** from the roof's bottom edge (eaves). Lay a second row **5cm** above the first. Lay the third row **12.5cm** from the second.

Starting from the third row, lay all subsequent rows **12.5 cm** from the previous row for consistency.



- 2** Sheets must overlap in a **staggered/offset** pattern. This is done so that the joints (seams) between two leaves on a given row can be covered over (hidden) by the next row above them.



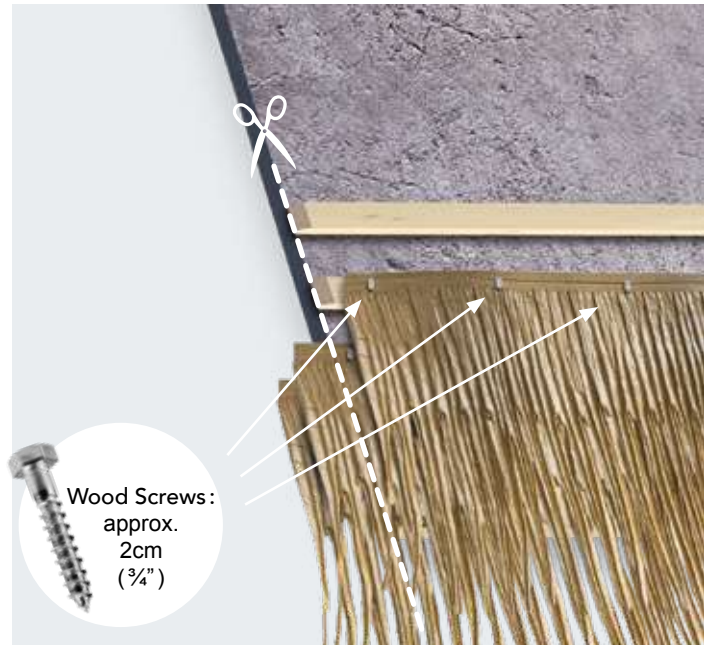
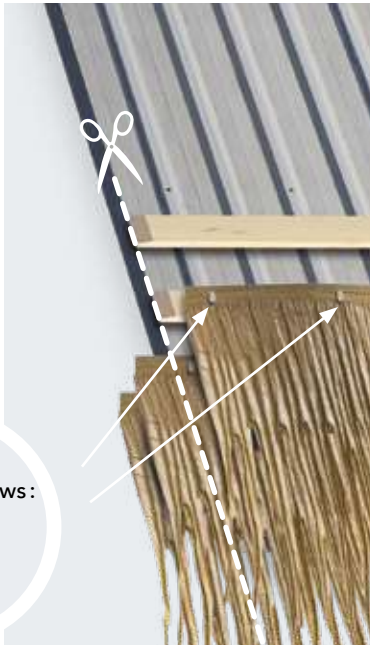
- 3** You may choose to nail (or staple with **2.4cm x 2cm** or **15/16" x 3/4"** staples) staggering each fixture **13cm** apart.

ON METAL SHEETING OR CONCRETE ROOFING

When installing Palmex products, you must do so in accordance with your roof slope.

30° - 40° Slopes: 12.5cm spacing between rows.

41°+ Slopes: 14.3cm spacing between rows.



- 1 We recommend placing horizontal wooden battens over existing metal and concrete roofing structures to allow air circulation. This will lower indoor (under-roof) temperatures. Your Palmex leaves can then be nailed directly onto the wood.

- 2 For further installation details, see Page 7 (horizontal batten techniques).



Installation underway



Installation complete



HIPS, VALLEYS, RIDGES, CLIPS

INSTALLATION OF ACCESSORIES

PRE-MOULDED HIPS/VALLEYS

Hips and Valleys are used over all angular roofing joints for a waterproof and esthetic finish.



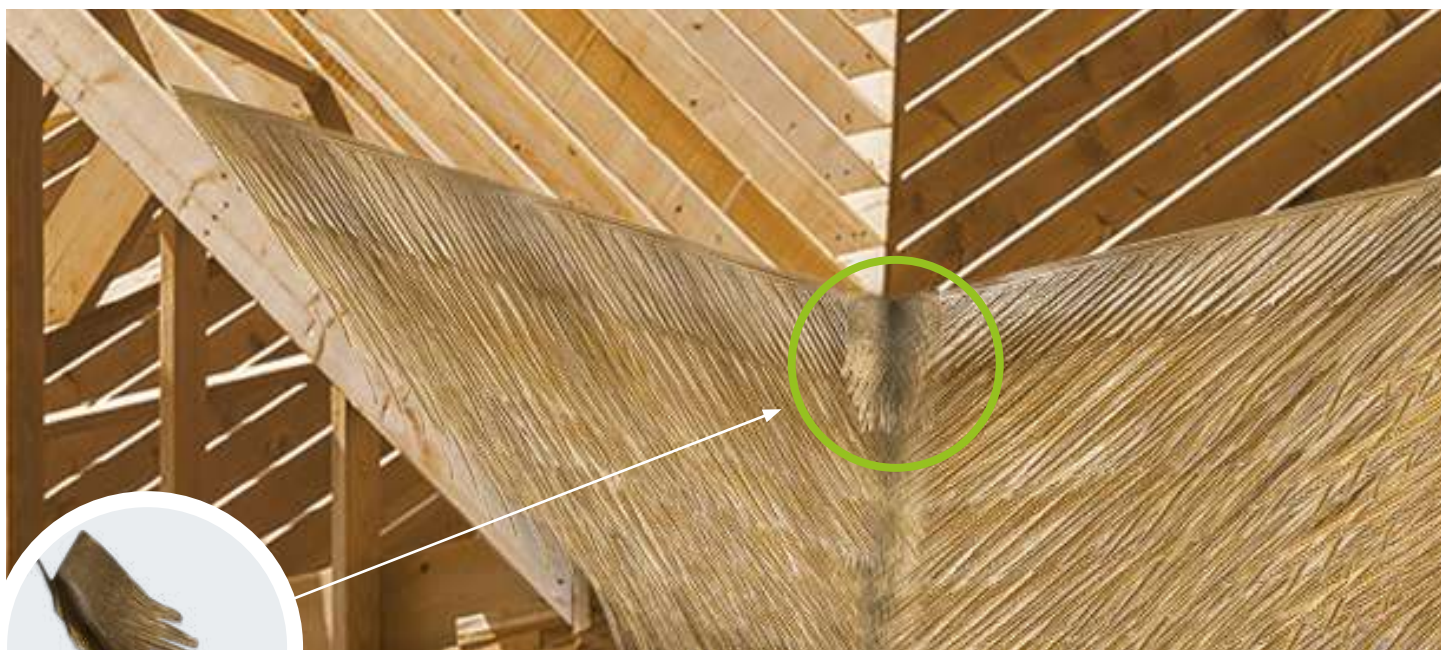
- 1 Trim the Palmex leaf diagonally along the rafter at the corner where you wish to install a hip or valley covering.



- 2 Trim the leaf of the adjoining row so it overlaps the first leaf. Lay the pre-moulded hip over the joint – but only every second row.

Note: Hips must be inserted in between the rows/leaves.

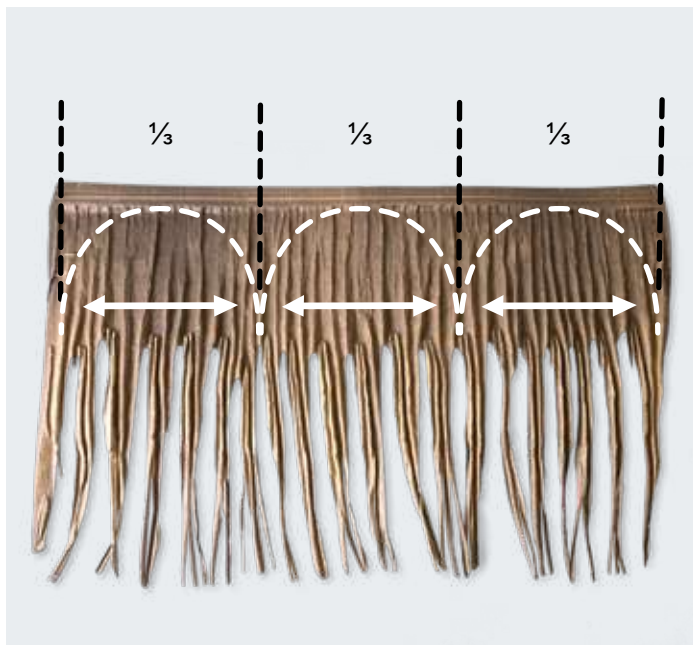
VALLEYS



- 3 Valleys are installed at the intersection where two roof slopes meet and form a valley. To properly finish a V intersection, add a Palmex valley on each row.

CUSTOM-CUT HIPS (3 PIECES)

Hand-made hip.

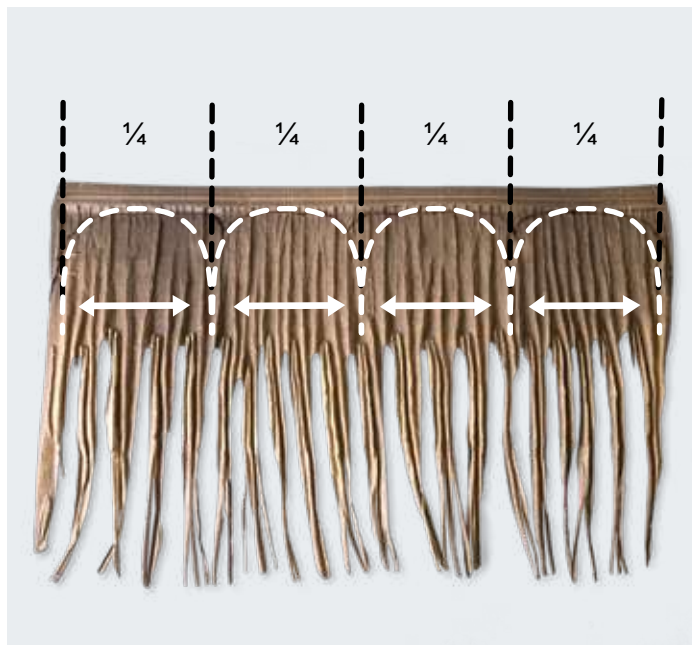


1A You can use a Palmex leaf – cut into 3 pieces – to make your own small hips.

Note : Lay one small hip per row.

CUSTOM-CUT HIPS (4 PIECES)

Hand-made hip.



1B You can use a Palmex leaf – cut into 4 pieces – to make your own small hips.

Note : Lay two small hips per row, placing them in a fan formation.

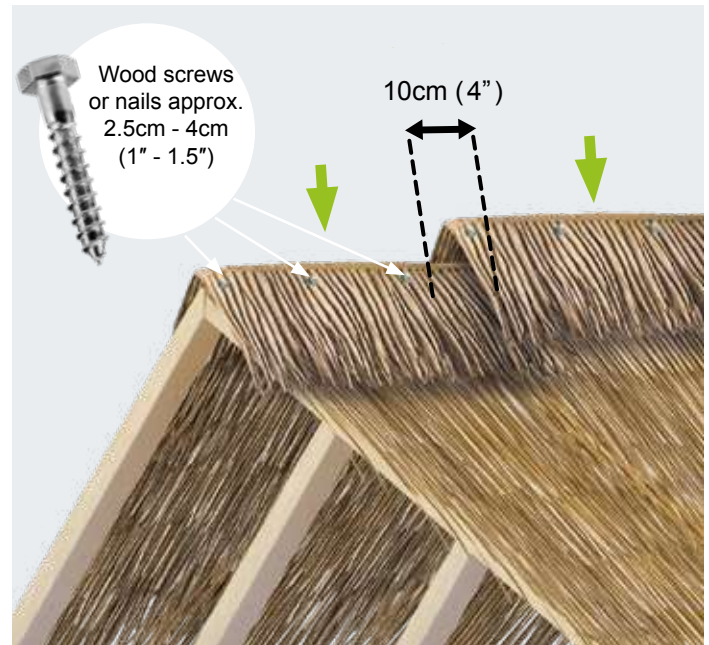


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LINEAR RIDGES



- 1 Put at least 4 screws on either side of each ridge, positioned **10cm - 13cm** below the crest or directly on the rafters for open structures.
- 2 When multiple ridges are required, be sure there is a **10cm overlap**.

ROUND RIDGES

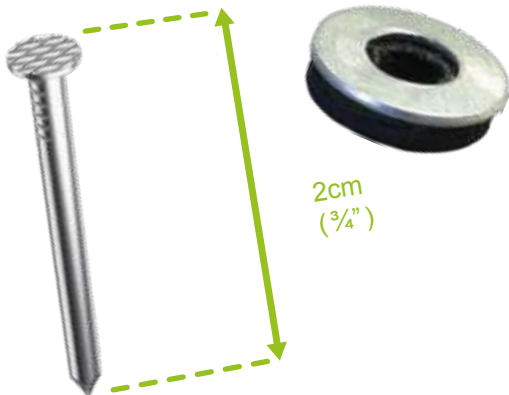


- 1 Lay the ridge cover once all other leaves have been laid. Screw or nail the ridge cap to each of the wooden rafters.
- D Example of a round ridge cap on a parasol.

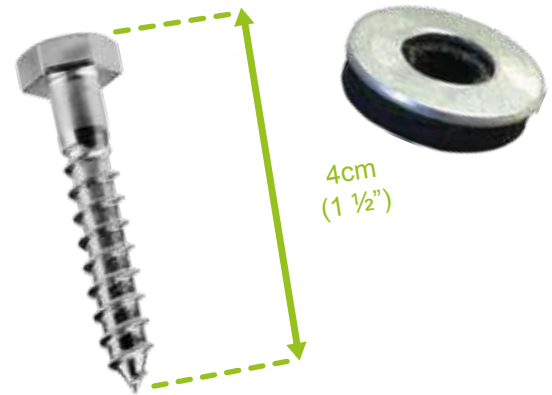
WIND CLIPS



- + To protect more effectively against winds, **wind clips** should be added.



- i All nails used must be appropriately galvanized for the country's specific climate. Be sure to add a washer so it remains sealed and watertight.



- i All screws used must be appropriately galvanized for the country's specific climate. Be sure to add a washer so it remains sealed and watertight.

FYI: Palmex International Inc.'s nail and screw sizes are only suggestions. Needs may vary in accordance with your specific roof structures.



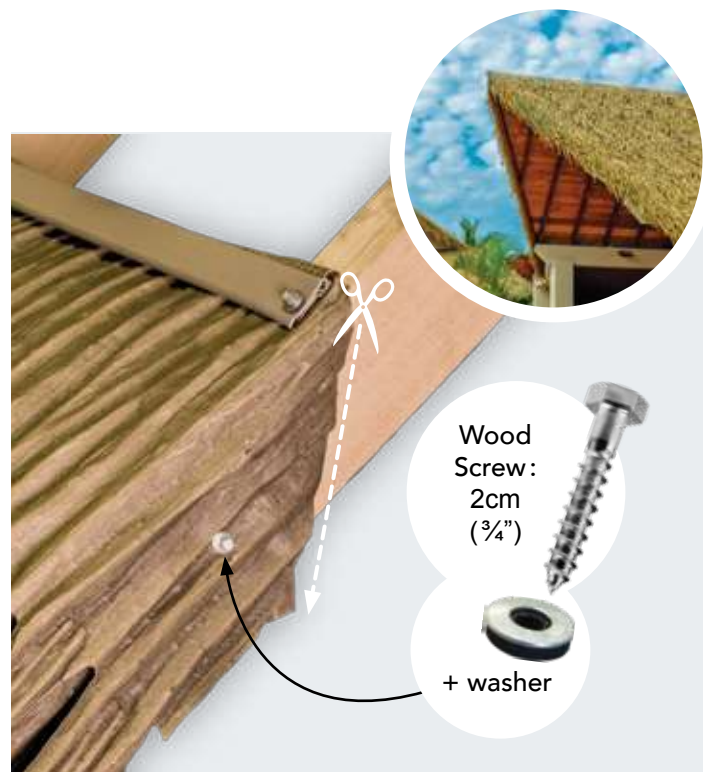
FINISHING TOUCHES

EDGE FINISHES

FINISHING TOUCHES



- + Scissors can be used to trim, straighten or stylize your edges.



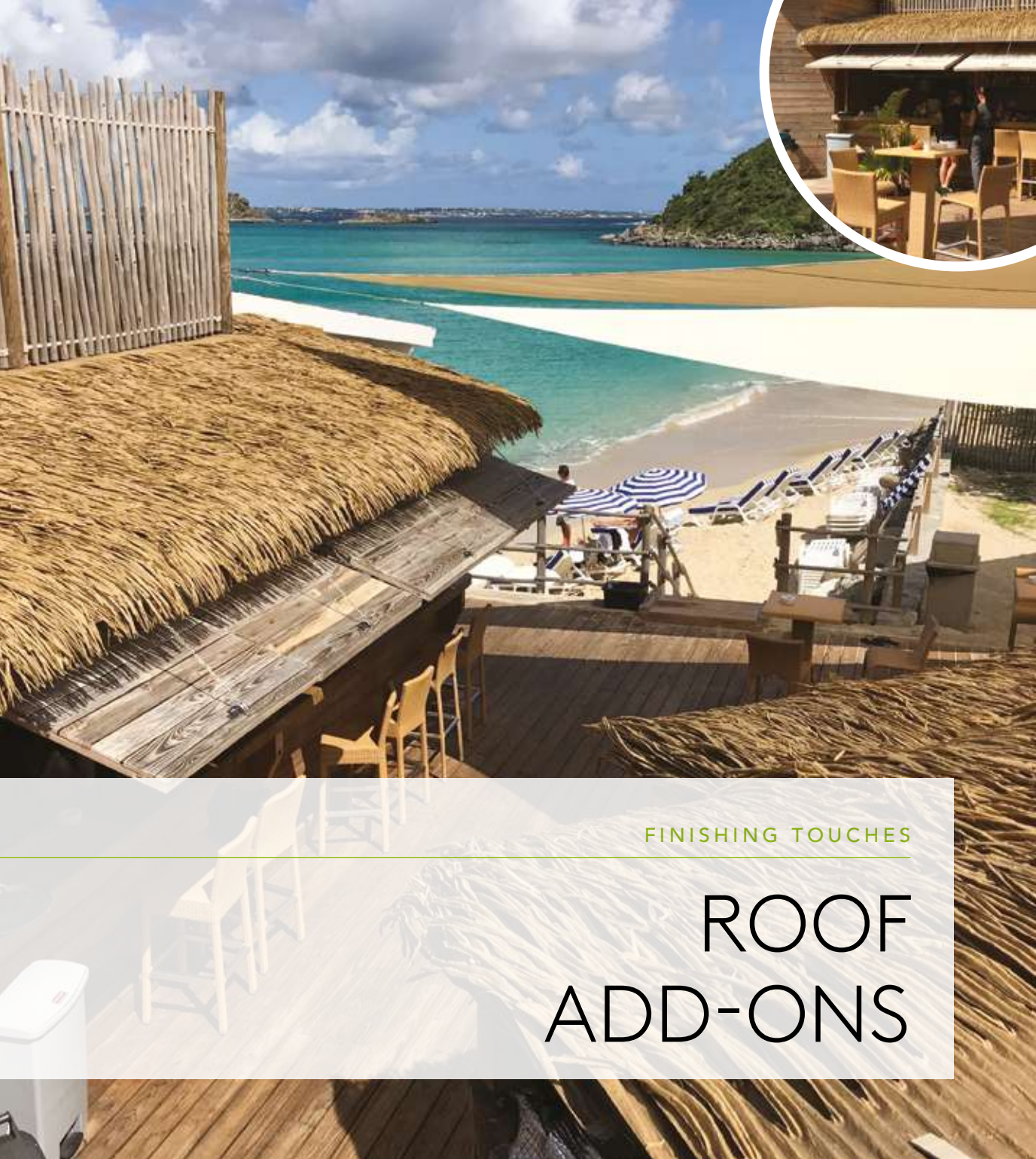
- + Cut diagonally into the flaps that extrude beyond the rafters for a clean finish. Fold down and affix with a screw. Do uniformly along roof for each row.



- + Palmex rails can also be trimmed (or left slightly protruding) along rafter edges. Trim the leaves to line up with the rail edges.



The finished look



FINISHING TOUCHES

ROOF ADD-ONS

VELUX SKYLIGHT



1

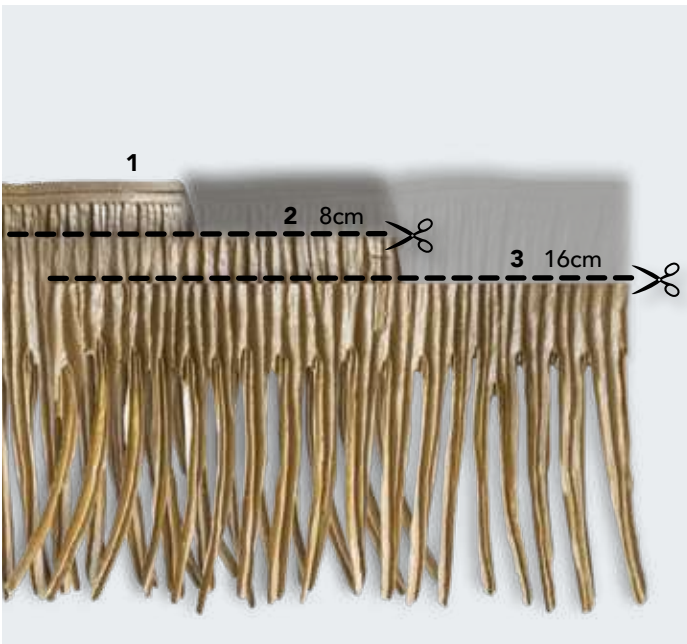
Palmex thatch can be laid around skylights by inserting a roof flashing either side of the window for water-tightness.

Note: Various types of skylight are available on the market. It is hence important to be fully aware of each retailer's or manufacturer's installation guidelines. Palmex cannot be held responsible for the overall installation.

Good news: Palmex thatch wrapping materials can serve as flashing too!

Nails
approx.
2cm
($\frac{3}{4}$ ")

AWNINGS



1

To nicely finish the last row on an awning, cut one leaf at an **8cm indent** from the top edge and another at a **16cm indent**. These specially cut leaves can be installed at the intersection where the awning meets an adjacent vertical wall.

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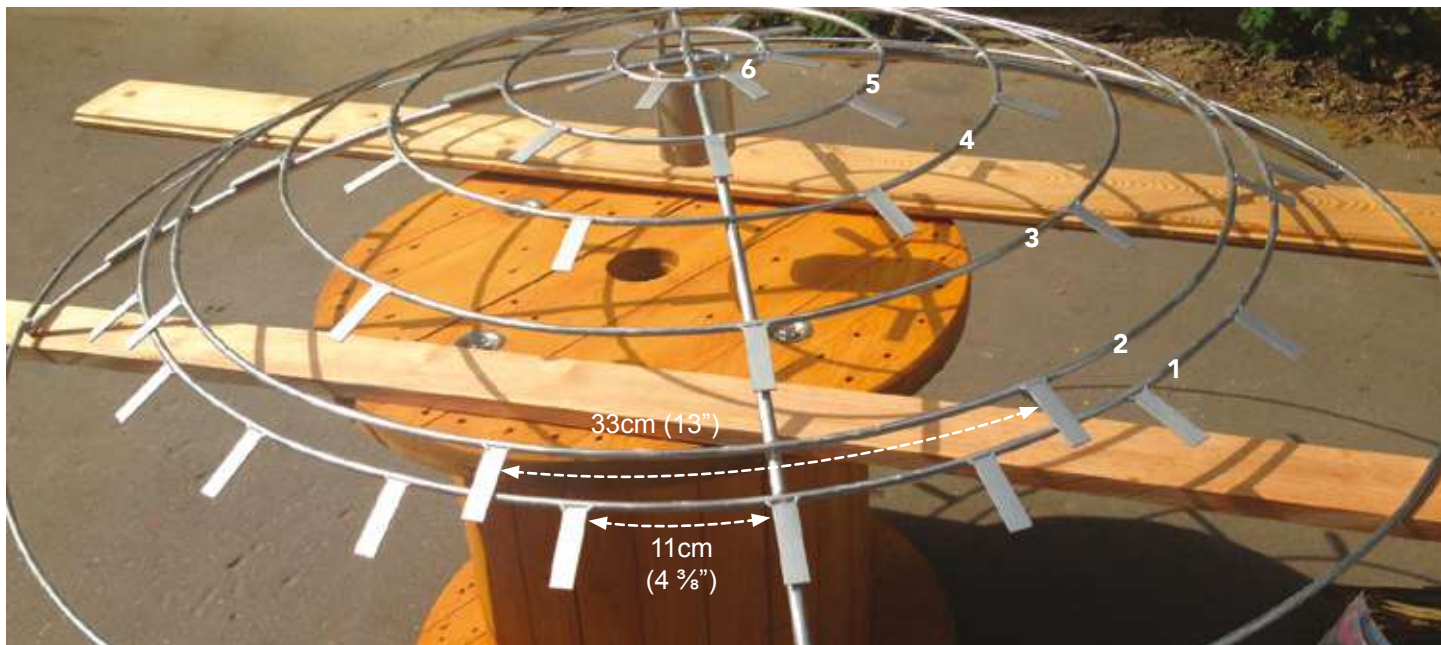


UMBRELLAS

INSTALLATION OF OUR *FIJI* LEAVES



UMBRELLAS



1 *Fiji* umbrella with a 2.2m diameter.

Note: On the metal ring structure, the number of leaves to lay per ring from bottom to top would be as follows: **Ring 1** (35*), **Ring 2** (33*), **Ring 3** (27*), **Ring 4** (20*), **Ring 5** (14*), **Ring 6** (9*).

**Sample guidelines only; will vary in accordance with base structure dimensions.*



2 The *Fiji* umbrella clip helps hold the leaf firmly in place on the metal structure. Clips should be installed from the top of the structure and facing the bottom. Note that the indented groove on the *Fiji* leaf remains visible (below the clip) from the outside of the parasol.



i Required spacing between clips is 11cm.

SOME OF OUR PROJECTS



Costa Rica



Fiji



Gabon



Indonesia



Indonesia



Malaysia



Mexico



St-Martin



Thailand



USA



USA



Vietnam



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