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IMPORTANT INFORMATION

Please **consider the following aspects** in order to ensure the correct installation of READYSLATE[®] panels:

• Before installation check you local building codes for roof requirements.

• Membrane temperature should not exceed 122 °F during installation.

• Do not install on pitch less than 3/12 Pitch or 14 degrees. For installation under that level, please contact our Technical Department.

• The substrate must be properly prepared before starting any roofing job (see below).

• Remember to consider any possible interactions between READYSLATE® waterproof SBS membrane and any other waterproofing elements used, if any.

• Do not install while the temperature is less than -4 $^{\mathrm{o}}\mathrm{F}.$



RECEIVING AND CHECKING GOODS

Upon delivery, **please examine** the product for any possible damage.

Exhaustive quality controls are performed as we inspect each and every one of our READYSLATE® panels when they leave our factory. However, despite the protective wrapping, damages may be caused to READYSLATE® panels during transport.

Problems should be documented and reported immediately to the freight carrier or transport company.

CUPA PIZARRAS declines all liability for damage caused during transport unless notified within 48 hours of delivery.



HANDLING AND STORAGE INSTRUCTIONS

Outdoor storage is not recommended.

When no other option is available, READYSLATE[®] panels must be completely covered and protected by a waterproof canvas.

Store at a maximum temperature of 110 °F. Place the panels on a flat area, preventing them from bending, and with slates facing upwards at all times. Do not remove the packaging until they are about to be installed.

READYSLATE[®] panels must be stored in a dry place, protected from rain and extreme temperatures. This product is neither flammable nor toxic.

Before the installation, the self-adhesive membrane shouldn't be exposed to sun, to protect it against ultraviolet rays. Once the installation is completed, READYSLATE® panels are ready to withstand the sun's heat and powerful rays.



AVOID WALKING

It is not possible to walk on READYSLATE®, so foot traffic must be avoided if possible, especially on hot days. If it's absolutely necessary to walk on a READYSLATE® roof, please follow these recommendations:

• Wear soft-soled shoes or foam rubber sole boots to prevent damage.

• Step along the bottom of the panels, avoiding the middle and tops.

• Don't jump or move quickly to avoid additional pressure as you step that could break the slates.

• Walk on the balls of your feet to reduce the pressure.

• A roof walkway pad is recommend to distribute weight across multiple pieces of slate.

READYSLATE® PANELS



READYSLATE® panels are composed of two layers:

- Support layer: Waterproofing bituminous self-adhesive membrane.

- **Visible layer:** High quality hand-quarried natural slates with a density of of 81 lb/ft³. Individual slates are predrilled and marked with an overlapping reference in order to simplify the installation process

DESCRIPTION

Panel	2-layer construction	51.2"x 13"
Toplayer	6 x natural slates	12''x 8''
Bottomlayer	SBS waterproofing membrane	-
Natural slate	Tectonic natural slate	5/32" predrilled holes
Weight	5.5 lbs/sqft	72 lbs/box

INSTRUMENTS AND ACCESSORIES



ุถึ

Slate is a natural product and as such there are not two identical pieces. It's created by natural forces and it's composed of many different minerals that is impossible to recreate the same slate twice. Even in the same quarry, it can be variations in color and texture.

Each slate is handcrafted and goes through a rigorous classification process. In some cases, the top corners may be damaged or cut off but this does not affect the finished look for the roof or its its waterproof properties.

FIXING METHOD

STANDARD FASTENERS: COPPER

<code>READYSLATE®</code> panels must be installed with (at least) 1/4" flat head copper, 10 gauge and minimum 13/4 " long.

In hips, ridges, and other cuts it may be necessary to drill an additional hole to make sure every piece of slate is secured by 2 fasteners. Before nailing additional nails, it is necessary to pre-drill with a 5/32" drill bit.



CORRECT NAILING



*Install 12 nails per panel using the pre-punched holes

SPECIAL FASTENERS: HIP AND RIDGE SCREWS

Black lacquered stainless steel with neoprene bonded washer 6 gauge x 1.5"long for exposed elements. These screws are only used on the last hip and ridge panel and never in the field.

Before fixing the screw it is necessary to pre-drill with a 3/16" drill bit.



PREPARING THE ROOF DECK

a. The roof substructure must consist of one of the following options:

- $\frac{3}{4}$ " nominal sized timber boards, not less the $\frac{1}{2}$ " actual.
- ½" or greater APA plywood.
- 7/16" or greater APA OSB strand board.

* Sheathing must meet minimum local codes. For other substructures please contact our Technical Department: readyslate@cupapizarras.com

b. The substrate must be clean and kept dry at all times during installation. Locate and fix any holes, wet or uneven areas that could affect the performance of READYSLATE[®].

c. A water resistant breathable roofing underlay is necessary. The underlay must be in accordance with local building codes and installed per manufacturer's requirements.

d. An Ice & Water barrier is recommended for low-pitch areas, valleys and other vulnerable roof areas and meeting points.

e. Readyslate has been classified as Class A – the highest rating against fire – following ASTM E108. To achieve a Class A fire rating, Readyslate must be installed in compliance with the following guidelines:

- Deck a Minimum 3/8" thick, A/C, APA rated plywood.
- Underlayment MSA QUIK-Stick HT Smooth

* check the our website for the latest testing results and other accepted underlayments.







a. Drip edge



DRY VERGE



A. 3" kick out drip edge- black alu/metal





B. 2" side edge flashing black alu/metal





C. 3/4" slate dry verge- black alu/metal





First row

Following rows



READYSLATE® INSTALLATION

a. First row: Start from the left to the right.



Lay the first READYSLATE® panel down and nail the 6 slates to the roof substructure (never to the wooden strip) ensuring there is an overhang of 2-3" over the edge of the eaves. Make it fit laterally in the dry verge flashing. Once fitted, peel back the protective film. All individual slate are predrilled to simplify the process.

Repeat for all READYSLATE[®] panels in the first row, covering the waterproof sheet area at the right of each panel. Remember to make all necessary measurements and markings to ensure the overhang distance is maintained. For the final slate panel on a row, measure the gap between the last slate of the panel and the edge of the roof and cut to size. Keep the remaining part of the slate panel for the installation of the next row.

b. Second and remaining rows.



Use a circular saw with an appropriate masonry blade to cut half of the first slate tile. Remaining rows must be always installed overlapping the joints of the preceding panel. All READYSLATE® modules are marked with an overlapping line. The lower edge of all panels must coincide with this line to ensure all panels are correctly laid.



Simply cutting a half of the first slate piece in alternate rows ensures the correct coverage of all joints of the preceding row. Follow the instructions in the former step for all remaining rows, cutting part of the modules when needed. Do not throw any remaining pieces; they will come in handy when adapting other panels.



A WARNING!

The first piece of slate from each panel must butt against the last piece of slate on the previous panel. An excessive gap in between panels can cause both pre-mature failure and a noticeable gap in the pattern from the ground. Contrarily, the first piece should not be installed over or on top of the last piece of slate on the previous panel. A proper installation between panels should be flush and mimic the distance between the pieces of slate on a full Readyslate panel.



a. Closed valley



Valley before installing READYSLATE® Valley after installing READYSLATE® Valley after installing READYSLATE® Valley after installing READYSLATE® Valley after installing READYSLATE® Roof gutter (if required)

Eave flashing

Closed valley details



Substructure covered with eave flashing and underlay. Starter stripwood fixed.



Installing an ice and water barrier is recommended in low pitch situations.

Installation of the 1^{st} valley flashing. Cut the flashing according to angle of the valley, allowing for a 2" overhang.





Place the first READYSLATE[®] panel and mark it according to the angle.



Cut the READYSLATE® panel to size.



Place the adjacent READYSLATE® panel and mark the angle.



Cut the READYSLATE® panel to size.



Cut the angle of the 2^{nd} flashing as per the 2 overlap lines and fix it.



Place of the 2nd row of READYSLATE[®] panel.



Cut it to size as previously indicated.



Continue with the remaining panels.



Continue the installation interweaving flashings and READYSLATE® rows.

*It may be necessary to drill an additional hole to make sure every piece of slate is secured by 2 fasteners. Always remember to pre-drill and avoid nailing the slates underneath.



a. Open valley



Valley after installing READYSLATE® Starter stripwood Roof gutter Roof gutter (if required) (if required) Roof underlay **READYSLATE®** Eave flashing

Open valley details



Substructure covered with eave flashing and underlay. Starter stripwood fixed.



Installing an ice and water barrier is recommended in low pitch situations.



Installation of the valley flashing: 2" overhang.

Valley before installing READYSLATE®







3/8

Cut the flashing according to the angle of the valley, allowing for a 2" overhang.

The metal flashing is fixed to the substructure using clips.

READYSLATE[®] overlaps 2.5", a mark a chalk line to be used as a reference. The panel must be installed following that marks.



Place the first READYSLATE[®] panel and mark it according to the angle.



Cut of the READYSLATE[®] panel to the overlap mark and place the adjacent panel on the other side of the valley.



Cut of the READYSLATE[®] panel to the overlap mark. Continue with the installation of the remaining panels as described before.



*It may be necessary to drill an additional hole to make sure every piece of slate is secured by 2 fasteners. Always remember to pre-drill and avoid nailing the slates underneath.

MARKING OUT LINES

Marking out chalk lines (or equivalent) is a great idea to guarantee a correct and straight installation of the READYSLATE® panels.

HORIZONTAL LINES

To ensure the READYSLATE[®] panels are laid down correctly, mark horizontal chalk lines from the bottom starting in 8" from the eaves. READYSLATE[®] panels must overhang 2" from the edge of the building, if the overhang is more, the first line's distance will be calculated by subtracting 10" minus the desired overhang length. Then continue to mark the remaining lines every 10" to be in accordance with the overlapping line. **Horizontal lines are marked every 10" to indicate where the panels overlap.**

VERTICAL LINES

Vertical lines help to keep panels aligned. Marking out chalk lines every 4-6 slates should be sufficient.

RESTABLISHING THE STARTER COURSE

Marking out vertical lines becomes critical when your roof installation includes elements such as dormers or gables that interrupt the first row of installation. Install the READYSLATE® panels to a point past the obstruction, then place one panel on the top and use it as a reference to mark the new lines to the bottom.

Calculate the alternance of slates and halves (every 2 rows - 20" - there is a full slate in the same position) making sure the first slate from the bottom left side must be a full or a half.







a. Side: soakers + wall cladding



Install the soakers (nailing to the substructure) before every row of READYSLATE® and cover them with a strip of underlay before installing the cladding. 8"

b. Side: soakers + counterflashing



Install the soakers (nailing to the substructure) before every row of READYSLATE[®] and cover them with a strip of underlay before fixing the counterflashing. Then seal with a bead of continuous sealant.



c. Front



Install the flashing (nailing to the wall) after the last row of READYSLATE® panels and cover with the counterflashing. Then seal with a bead of continuous sealant. Continuous < bead of sealant

RIDGE AND HIP

a. Hip





Stripwood at both sides of the hip

Hip details



Substructure with gutter, eave flashing and underlay. Stripwood installed at eaves and at hip.



Disposition of the first READYSLATE® panel.





Cut the first READYSLATE® panel following the stripwood of the hip.



Optionally, fix a hip flashing before covering it with $\mathsf{READYSLATE}^{\circledast}.$



Place, cut and fix the READYSLATE[®] modules on the hip. The outside hole should be nailed after pre-drilling with a 5/32" drill bit to avoid cracking the slate underneath. 2 nails are required for each piece of slate.



Cover the roof with READYSLATE[®] panels, performing the cutting and installation of the panels as already explained.



Cut the panel to get 3 ridge modules of 2 slate piece each and cut off the corners of the membrane with a cutter.



Complete the covering of the hip with the READYSLATE[®] pieces. Use special fasteners with rubber washer to fix the last READYSLATE[®] piece.

RIDGE AND HIP

b. Ridge cap + READYSLATE®





Ridge details



Substructure with gutter, eaves flashing and underlay.



Disposition of the first READYSLATE® panel.





Cover the roof with the $\mathsf{READYSLATE}^{\circledast}$ panels up to the ridge.



Cut the panel to get 3 ridge modules of 2 slate piece each and cut off the corners of the membrane with a cutter.





Install the ridge flashing (6" at each side of the ridge).



Place and fix the READYSLATE® modules on the ridge.

Complete the covering of the ridge flashing with the READYSLATE[®]. Nail through the inside holes. The outside hole should be nailed after pre-drilling with a 5/32" drill bit to avoid cracking the slate underneath. 2 nails are required for each piece of slate.

Screws with rubber washers shall be used to fix the last pair of READYSLATE[®] pieces to the roof. A continuous bead of sealing mastic could be used on the lateral edge of these READYSLATE[®] pieces.

*It may be necessary to drill an additional hole to make sure every piece of slate is secured by 2 fasteners. Always remember to pre-drill and avoid nailing the slates underneath.

RIDGE AND HIP





MAINTENANCE

Regular maintenance and roof cleaning are **absolutely necessary** in order to prevent roof degradation. When properly maintained, the roof is more resistant to external aggressions, more beautiful and more efficient against water infiltrations.

There are some minimum requirements that you should carry out regularly:

- General inspection of the waterproofing elements, overview all the additional works (like chimneys, clerestories, gutters etc)

- Check and clean the water drainage systems, periodical removal of moss, mold and other sediments and residues...

How often you should do maintenance work really depends on several factors that affect the condition of your roof.

One of the best things you can do for your roof doesn't involve much work at all: pay attention to it! Keep an eye on your roof.

READYSLATE® ROOFING SYSTEM IS MANUFACTURED BY CUPA PIZARRAS

VIDEO INSTALLATION



We have produced a series of videos solving the most frequently asked questions when installing READYSLATE. You only have to scan the QR code with your phone to access the videos.

SUBSTRUCTURE REQUIREMENTS



DRY VERGE



READYSLATE® PANELS INSTALLATION



CHIMNEY INTEGRATION



EAVES



OPEN VALLEY



STEP FLASHING



READYSLATE[®] RIDGE APPLICATION



VENT EAVES & GUTTER



STARTING THE FIRST ROW



ROOF WINDOW



VENTED RIDGE







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