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VERSION 230223

# DualSun pannels Packaging INSTRUCTIONS for Shipping

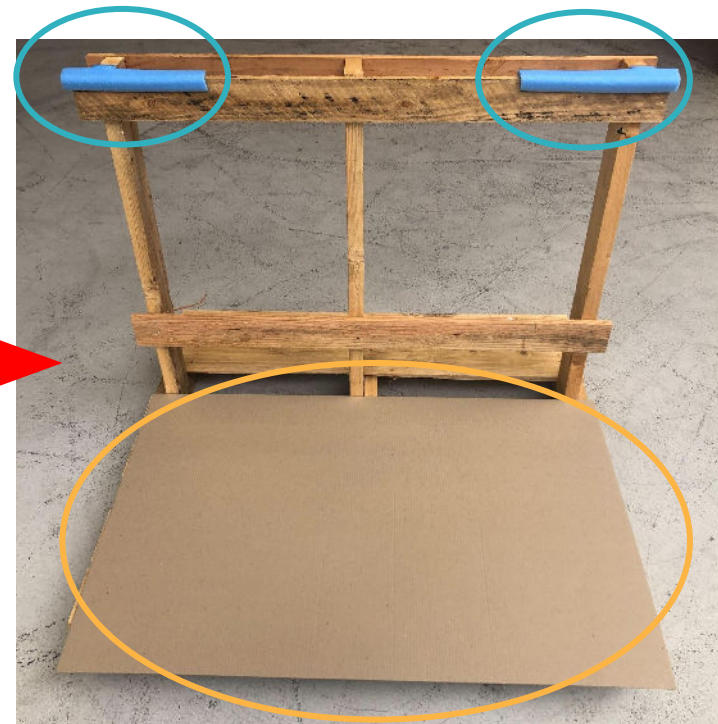
All models of solar panels are concerned (Spring, Wave, Flash of all powers)



# 1 - Packaging on easel pallet

STEP 1: Prepare an easel pallet with **cardboard protection** on the floor and pieces of **foam protective tube** cut from the easel.

*Easel pallet in the dimensions below.*

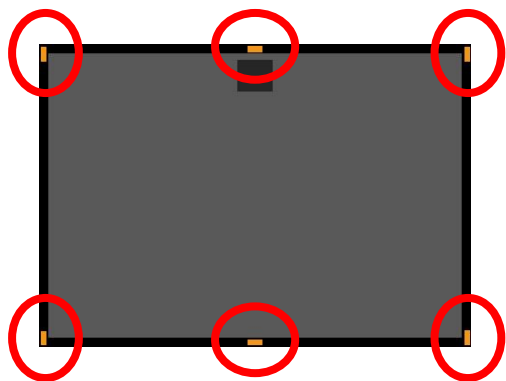




# 1 - Conditionnement sur palette chevalet

STEP 2: SPRING PANELS ONLY: Check the presence of the 4 cardboard corners with the 4 EPDM pads on them, and 2 pads in the middle of the two lengths of the frame.

- DualSun Spring 300 to 400: EPDM 65Sh, adhesive, 70x35x4mm
- DualSun Spring 425 : EPDM 65Sh, adhésivé, 60x30x5mm



If the wedges are missing, separate each panel with sheet(s) of cardboard

STEP 3: Set up the panels vertically on the easel pallet, at a maximum of 8 panels. Do not place them vertically but orient the panels at about 10-15 ° to prevent them from tipping forward.

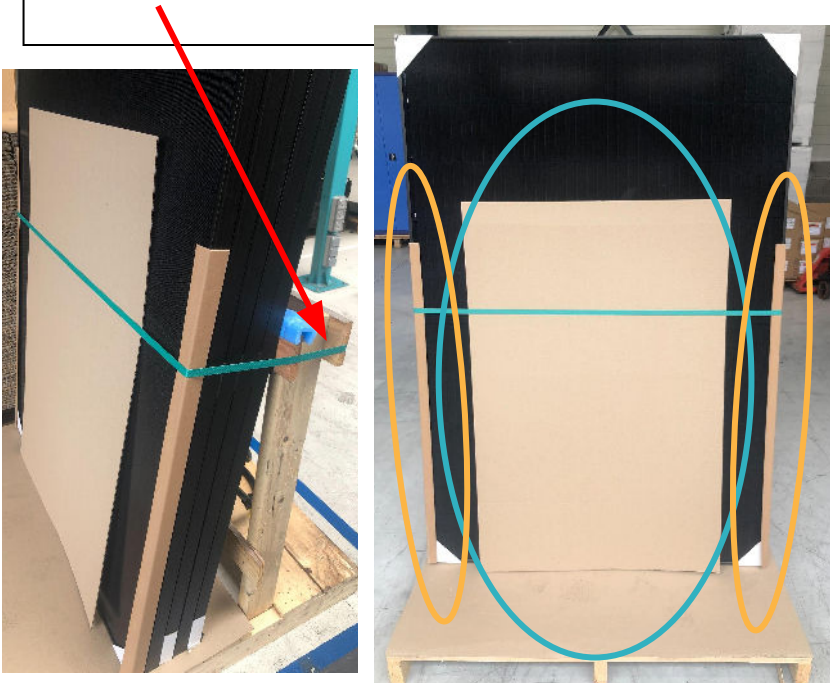




# 1 - Packaging on easel pallet

Recommended strapping tension: between 1500 and 1700 N.

STEP 4: Place two **cardboard protectors** in the corners of visible panel, a **cardboard sheet** on the front of the pallet, as well as a **horizontal strapping** at the height of the easel.



STEP 5: Set up the necessary **documentation (pallet specifications, list of serial numbers)** associated with the panels on the pallet, in two A4 size adhesive plastic sleeves glued to the cardboard sheet on the front of the pallet.





# 1 - Packaging on easel pallet

STEP 6: Film the easel pallet, with accessories (such as DualQuickFit links) in front and/or behind the easel if necessary.

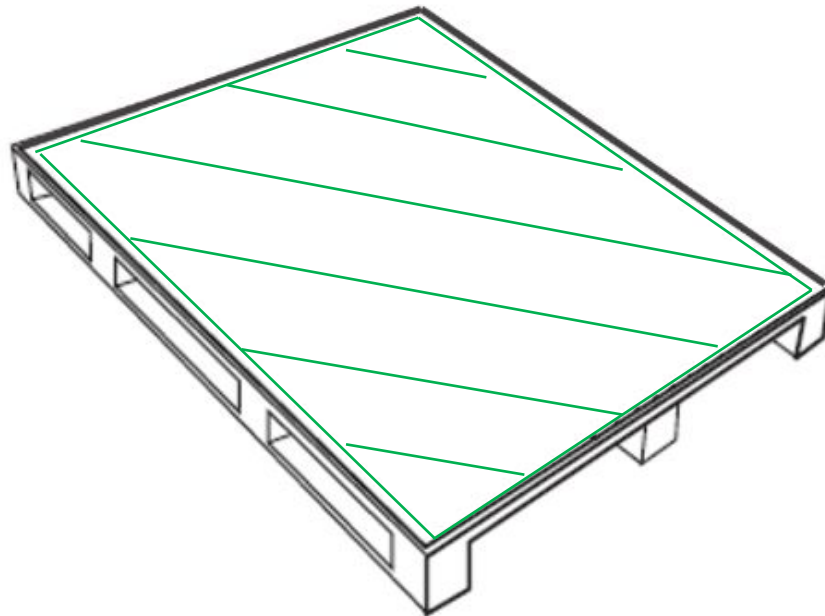
STEP 8: Affix the Delivery Note related to the shipment over the film.





## 2 - Packaging on flat pallet

STEP 1: Prepare a pallet with slats in the width, either perpendicular to the panels (or solid floor), with a **cardboard protection** on top:  
*The pallet must be long enough for the reference of the panels used.*  
*Refer to the DualSun catalog for pallet dimensions by reference.*

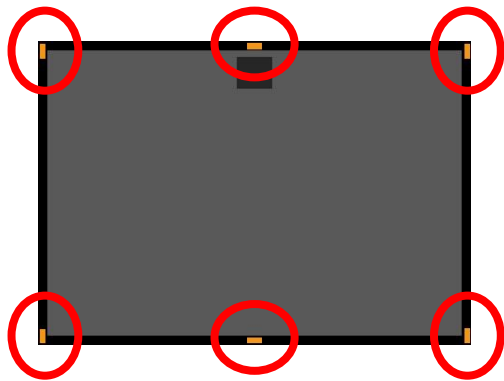




## 2 - Packaging on flat pallet

STEP 2: SPRING MODULES ONLY: Check the presence of the **4 cardboard corners** with the **4 EPDM pads** on them, and **2 pads** in the center of the two lengths of the frame.

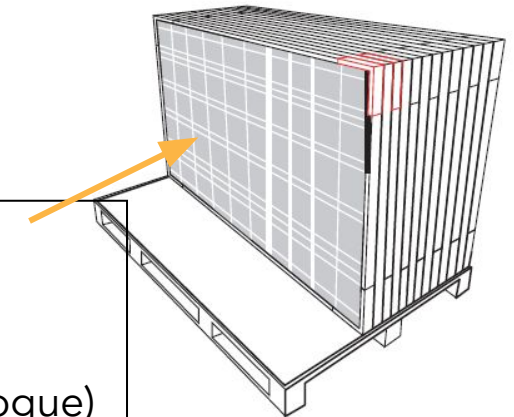
- DualSun Spring 300 to 400: EPDM 65Sh, adhesive, 70x35x4mm
- DualSun Spring 425 : EPDM 65Sh, adh siv , 60x30x5mm



If the wedges are missing,  
separate each panel with  
sheet(s) of cardboard

STEP 3: Set up the panels horizontally on the pallet :

- DualSun Spring 300 to 400: 28 modules per pallet
- DualSun Spring 425: 32 modules per pallet
- DualSun Flash (PV): 30 to 32 modules per pallet (see DualSun catalogue)

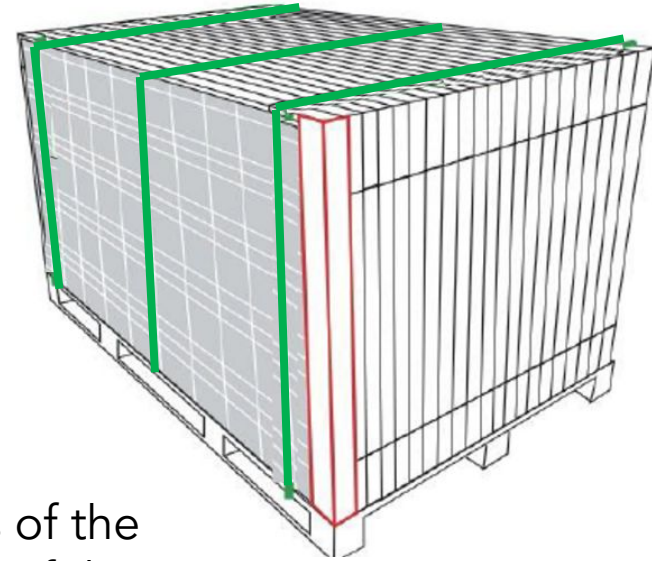




## 2 - Packaging on flat pallet

STEP 4: Place three horizontal straps on the height of the pallet, passing under the floor.

Recommended strapping voltage: between 1500 and 1700 N.



On the cardboard corners of the panels for the 2 strapping of the ends.



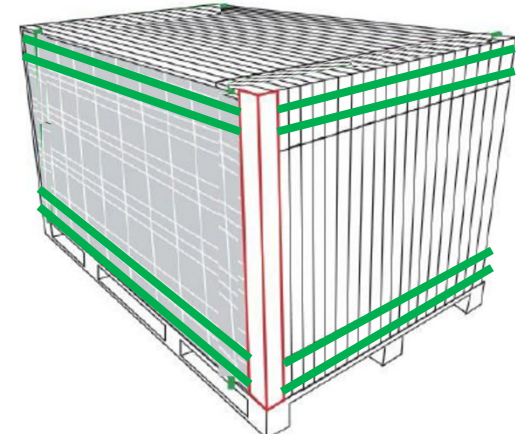
Add cardboard corners for strapping in the center, at the contacts of the strapping with the panels.



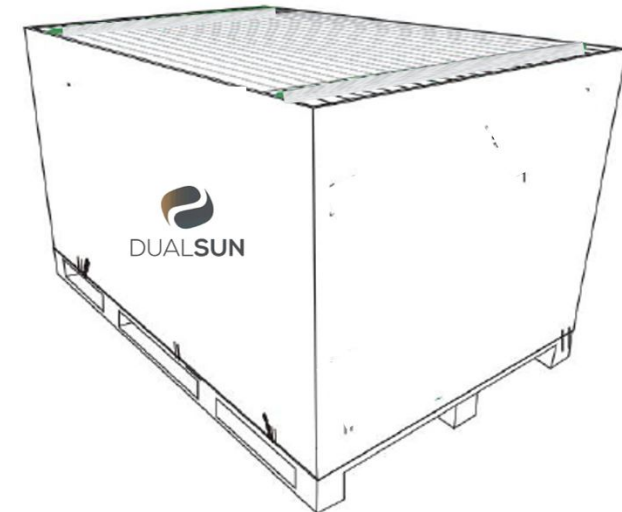


## 2 - Packaging on flat pallet

STEP 5: Place **four cardboard protectors** in the corners then two **horizontal straps** at the top and two at the bottom.



STEP 6: Put on a DualSun cardboard belt.  
*For the dimensions of the cardboard belt, refer to the DualSun catalog*

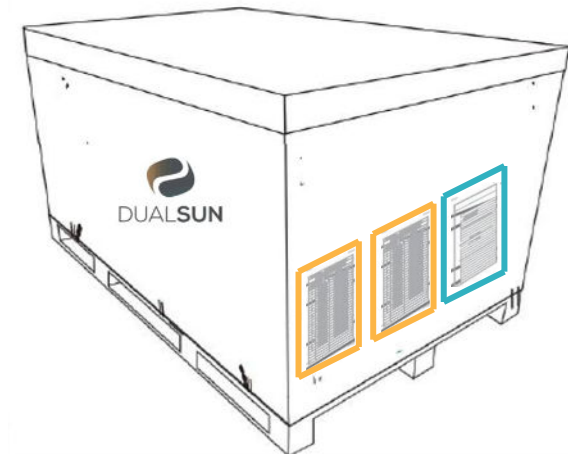




## 2 - Packaging on flat pallet

STEP 7: Position the cardboard lid on top of the pallet.

*For the dimensions of the cardboard cap, refer to the DualSun catalog*



STEP 8: Set up the **serial number sheet** associated with the panels on the pallet (in 2 pages), as well as the **unconditioning instructions** in three A4 adhesive plastic pouches, in the dedicated places of the carton marked by black rectangles.





## 2 - Packaging on flat pallet

STEP 10: Position **two straps lengthwise** and **two strapping widthwise**, over the cartons.

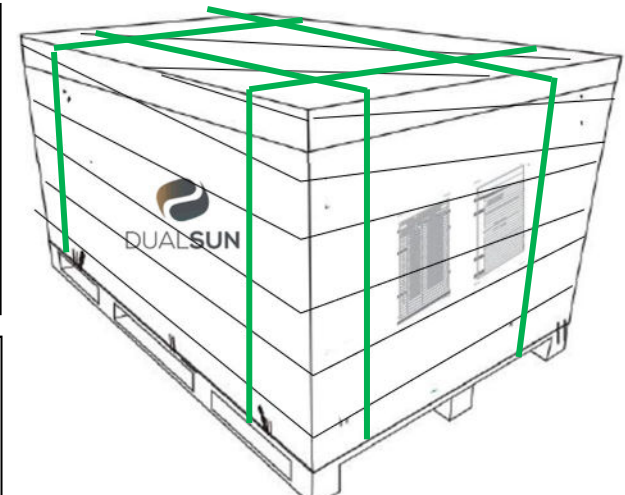
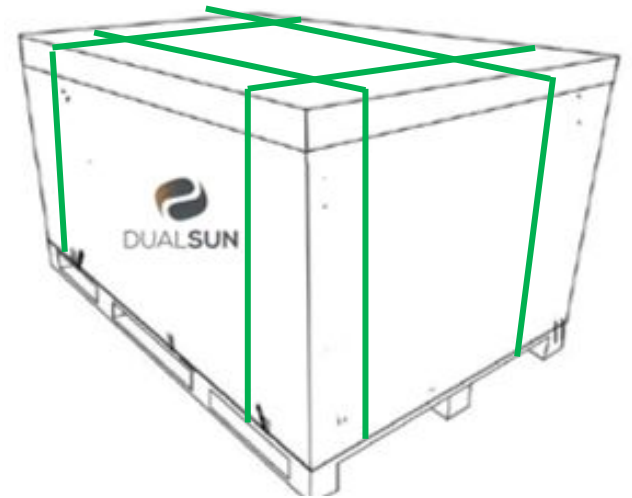
Be careful, it is not recommended to stack 2 pallets of Spring modules to transport them, because the inter-panel wedges make the pallets less rigid.

On the other hand, there is no contraindication to stack the pallets of Flash modules in pairs. Instructions for this can be found on the next page.

STEP 10: Position a film on top and film the contours of the palette.

It is possible to film accessories (such as DualQuickFit links) on top of the pallet.

STEP 11: Affix the Delivery Note related to the shipment over the film.





## 2 - Packaging on flat pallet

When two Flash module pallets are stacked on top of each other

STEP 9b: After circling the 2 pallets individually in step 9 of the previous page, use 3 vertical straps along the length of the pallets to secure the 2 pallets.

STEP 10b: Position a film and film the contours of the 2 stacked pallets.  
It is usually possible to strap accessories (such as DualQuickFit links) on top of the pallet, being careful not to exceed the maximum permissible height depending on type of transport.

STEP 11b: Affix the Delivery Note related to the shipment over the film of the double pallet.