



ISITEEK  TM

INSTALLATION MANUAL

Thank you for choosing Isiteek!

We've created Isiteek to be a simple and straightforward decking system that you can put together yourself.

Tools you will require to get started:

- A workbench with a straight edge to work against
- Some weights
- Masking tape
- Sharp knife
- Metal ruler
- Stelmax glue for joining the planks
- Caulking gun
- Flat levelling trowel
- Roller
- Pair of compasses

UNPACKING

Congratulations on choosing Isiteek for your boat! Before unpacking, ensure your work environment is above 20 degrees Celsius for optimal handling. Roll the Isiteek with the top surface facing outwards.

Then let the material sit in a warm room for 24 hours before attempting any further steps. This is to expedite the removal of any structural "memory" from the material.

TEMPLATING

Design and Planning

Before templating your deck, determine the desired location and style you would like. This can affect the templating process or the materials needed.

For a deck based on the boat's centre line, like a swim platform or cockpit sole, fold the template in half to find the centre line and build the panel from there. Avoid having slivers of plank or caulking on the outer edges. If using margin boards, mark the template accordingly for a neat panel (see adding a margin).

For a deck with no centerline, for example as cockpit seats, work from the inside edge out. Start with a full plank on the inside edge, using a margin board if needed. Adjust the width of the first plank if necessary to avoid slivers on the back edge.

If building a deck leading from one area to another, like sports power boats, create reference lines on the template between areas. Build the swim platform first from the centre line, align it with the cockpit template, and mark caulking lines. Then, proceed to build the cockpit floor, ensuring alignment with the boat's centre line.

Check out our photo galleries at www.flexiteek.com for layout ideas. If in doubt, contact your nearest Isiteek/Flexiteek distributor for advice and assistance.

Start Templating

Creating an accurate template is crucial for your deck installation. Follow these concise steps:

Step 1: Clean the boat surface: Ensure the surface is clean and dry. Unroll your templating material and let it settle flat.

Step 2: Secure your templating material: Fully cover the area with the templating material, taping multiple pieces together if needed. Use tape along the perimeter to secure the material flat for accurate tracing.

Step 3: Trace the Perimeter: Use a pen or pencil to trace the shape of the surface area. Especially focusing on where the edge of the deck will be visible after installation.

Step 4: Mark hatches and hardware: Outline any hatch edges and hardware details using a pen. Ensure that hinges, pulls, cleats, pedestals, stanchions and any features that may affect the templating of your deck are accurately traced.

Step 5: Add notes and match lines: Make notes on the template, indicating Fore, Aft, the centre line, and where any potential margins would be placed. Add match lines if you have adjacent templated areas to ensure caulking lines match.

Step 6: Cut and dry fit: Remove the tape and cut the templating material according to the outlines. Lay the template on top of the area to confirm the fit - make adjustments if necessary. The template should now precisely match the desired deck coverage.

Final Checks: Double-check and make corrections as needed. Ensure notes are clear and cladding lines and adjacent pieces align.

PREPARING YOUR ISITEEK MATERIAL

Heat the Isiteek to ensure the material lies flat. This step not only enhances workability but also facilitates a smoother and more manageable installation process. By applying heat, you create optimal conditions for working with the Isiteek material, improving overall ease and efficiency in your project.

JOINING THE PLANKS

It is time to design your deck!

Cut your planks to extend over the template from 5mm from each edge of the outline, to ensure that you have plenty of material for the following steps. Make sure that the planks are cut according to the direction you want them to run when installed.

Step 1: Build on top of your template - Begin designing your deck by building the panels on top of your template. Place the first plank against a straight edge and apply weight on top.

Step 2: Adhesive application - Add adhesive to the edge of your first plank. Firstly, cut the Stelmax nozzle at an 8mm angle. Then gently squeeze the tube to apply an even and continuous bead of Stelmax along the product's edge.

Step 3: Joining planks - Put a new plank against the first one, ensuring that the planks are well aligned. Promptly, apply constant pressure by using some masking tape to hold the planks together and some weights to flatten the panel.

As you add more planks, use a straight edge to check the planks are still straight, and that there isn't a bend in the planks. A bend can be caused by there being too much pressure in one area.

With the right volume of glue used, you will have a small amount coming up between the planks. Let the glue dry for approximately 15 minutes, and then use a small sharp knife to remove the excess glue. Use 40-60 grit sandpaper to remove the remaining glue residue.

Always sand along the caulk lines, so the sanding follows the direction of the graining of the Isiteek.

If you are working at a temperature of approximately 20°C or above, you can move your panel after 15-20 minutes. If you are working at colder temperatures, wait at least an hour before moving your panel.

CUTTING

Once you have joined your planks to the size you require and they have dried, it is time to cut your deck.

- Move the template from underneath to on top of your assembled deck.
- Use weights to ensure the template lays flat and doesn't move.
- Use a pencil or pen, to mark out around your template onto the Isiteek.
- Trim your plank length to slightly larger than your template.

When building multiple panels where the caulking seams need to line up, these panels need to be made in one piece where possible and then cut to the size of the template after.

ADDING A MARGIN

Looking to add a margin?

Step 1: Firstly, mark your panel 60mm from the template edge - use a compass or an off-cut (Picture 1 & 2).

Step 2: Using a sharp knife cut your Isiteek panel slightly over the length of each edge (Picture 3).

Step 3: Sand the edge of your cut panel to ensure it is even.

Step 4: Cut the margin boards to the correct length for each edge. Ensure that they fit nicely without any gaps or unevenness (Pictures 4, 5 and 6).

Step 5: Apply glue to straight edged margin pieces and join to the edge of the Isiteek panel. Maintain even pressure until they have dried. Ensure that the margin boards do not connect to each other yet.

Step 6: Once dry remove any excess glue, with a knife or 60-grit sandpaper.

Step 7: Draw a straight line extended from the midpoint of the corner/bend across to the opposite edge of the margin board.

Step 8: Lay one of the unglued planks against an unoccupied panel edge, it should overlap on top of a glued margin board, angled against the line drawn in step 7. Draw the desired bend outline on the margin board by extending the natural curve of the panel.

Step 9: Cut around your outline, slightly over the line to ensure it remains the same size when sanding the edge.

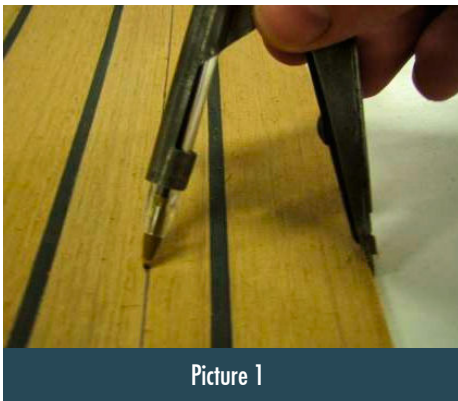
These margins, when cut to size, will be glued in place during installation.

For margin boards where the average margin won't bend round, use the 125mm plank.

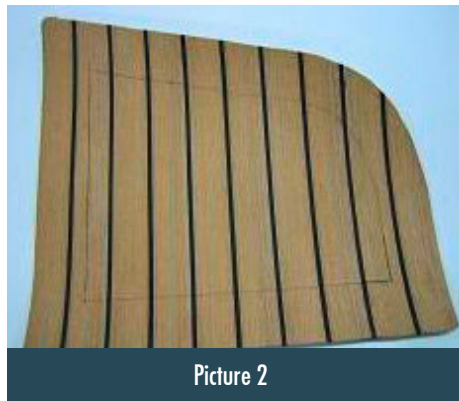
- Put the panel on top of the 125mm plank, and mark the curve of the Isiteek panel onto the large plank.
- Then, use the drawing compass or piece of margin board and mark 60mm from the Isiteek panel edge to outline the full panel size.
- Alternatively, place your template back on top and mark the outside edge.
- Trim the king plank to the shape of the bend and the perimeter line and sand to ensure a good fit.
- On the external edge of the margin board, cut slightly over this line.

Regardless of how the margins are created, cut off 5mm from the inner line of the margin so you can easily fill it up with caulk-type adhesive, see pictures 7 and 8. Remove any excess glue with a sharp knife. Sand the panel, for an even finish.

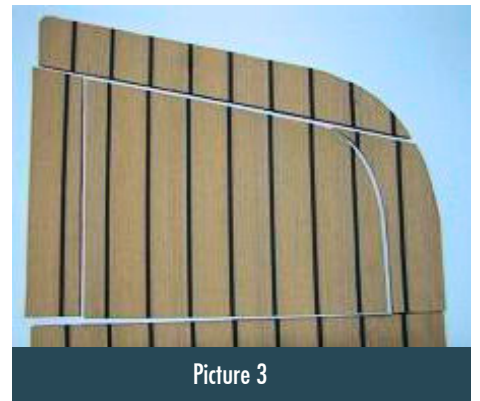
The next step is the installation.



Picture 1



Picture 2



Picture 3



Picture 4



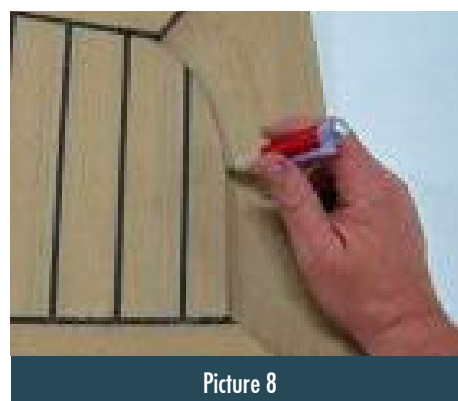
Picture 5



Picture 6



Picture 7



Picture 8

INSTALLATION WITHOUT MARGINS

Once you have completed all the pieces for your new deck it is time to start the installation.

Step 1: First ensure your working temperature is above 18°C. If the temperature isn't above 18, it could cause problems in the future such as bubbles. This is due to the tensions in the material.

Step 2: Clean the surface(s) you will be installing your Isiteek deck onto. The surface must be free of dirt. The recommended way to do this is to pour some ethanol onto a cloth and wipe the installation area. Also, wipe the back of the Isiteek to ensure no dirt is present. Ensure both areas are dry before beginning.

Do not use Acetone.

Step 3: Once washed, lay the Isiteek panel in place to check it fits.

Step 4: Mark the edges with a pencil and place masking tape around the edges. This is to avoid excess glue/adhesive being squeezed out onto the boat deck when using the roller.

Step 5: Squeeze the glue directly onto the surface of the deck.

Step 6: Use a levelling trowel to spread the glue evenly. Hold the trowel against the surface at a 90° angle for best results.

Step 7: If the panel is large, glue half the panel at a time.

Step 8: Place the Isiteek on top of the glued area and "roll out" all the air. Ensure the panel is completely flat with no bumps or trapped air.

Step 9: Add weights to all corners and allow the glue to harden for 24 hours.

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Step 8: Add the pre-cut margin boards that are not already glued to the panel and press/roll them down with a 5mm gap to the panel, using spacers if necessary (Picture 9).

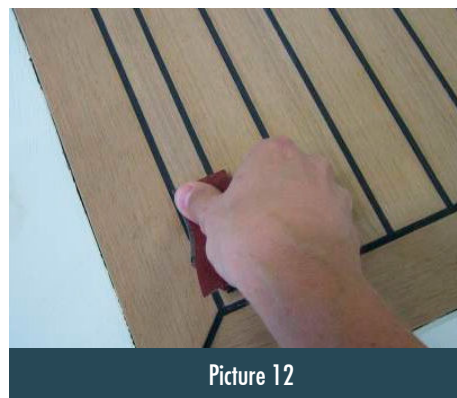
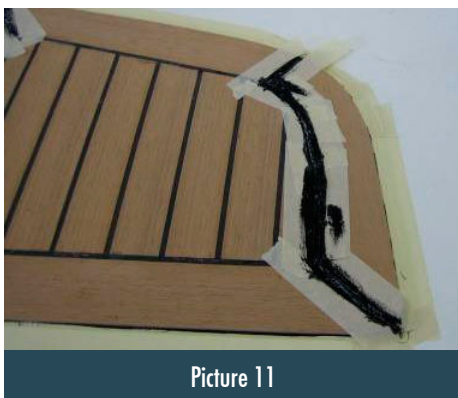
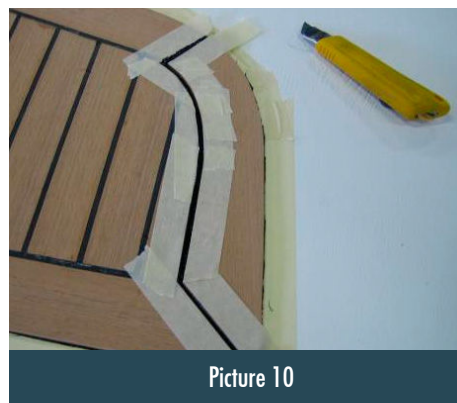
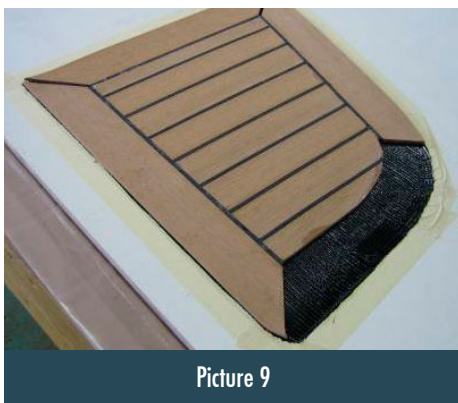
Step 9: When rolled down place weights at all corners and on margin boards and allow the glue to harden for 24 hours.

Step 10: Mask both sides of your 5 mm openings left at mitres and margin boards. Carefully trim using a ruler or a straightedge and a knife (Picture 10).

Step 11: Fill the seam with caulking compound (See picture 11) smooth it level with the masking tape using an old chisel, knife, end of steel ruler, wet finger etc. Be careful not to spread the caulking onto the panel. Work quickly as the caulking skins over in 15 to 20 minutes.

Step 12: Leave your panel for several hours or overnight to cure.

Step 13: Remove the tape and clean up any excess or unevenness in the caulking using sandpaper. Once the caulking has fully cured, ensure you sand in the direction of the grain (see picture 12).





A Flexiteek Group Product.

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The logo for FLEXITEEK, featuring the word "FLEXITEEK" in a bold, white, sans-serif font. A large, stylized red "X" is superimposed over the "L" and "E" in "FLEX".

FLEXITEEK

Beautifully engineered synthetic decking
and marine products.