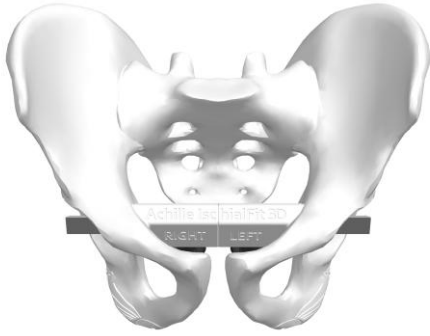


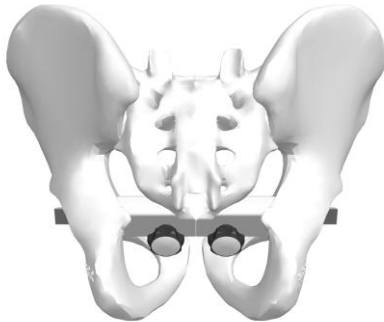
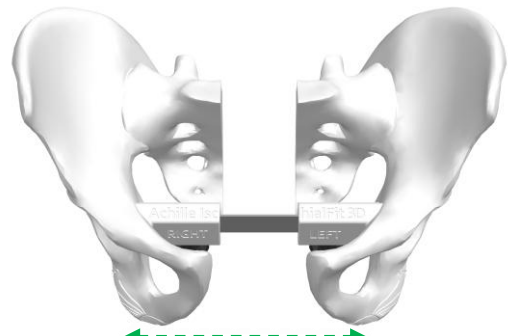
**Achille IschialFit 3D**  
**VISUAL SIMULATION OF ISCHIAL SUPPORT ON THE SADDLE**

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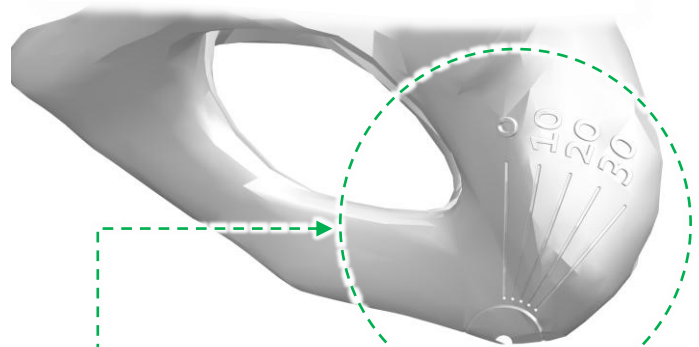
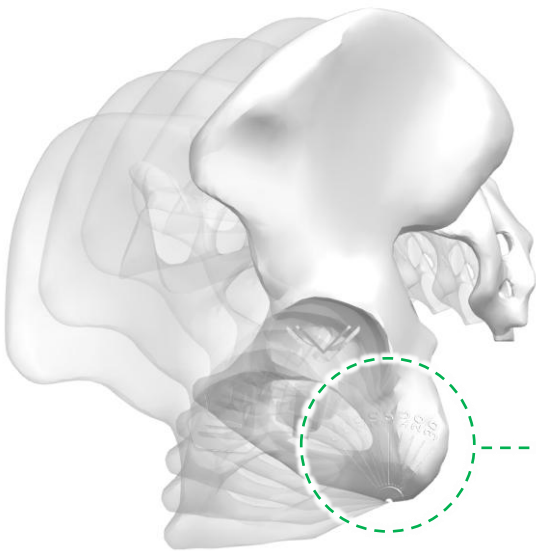
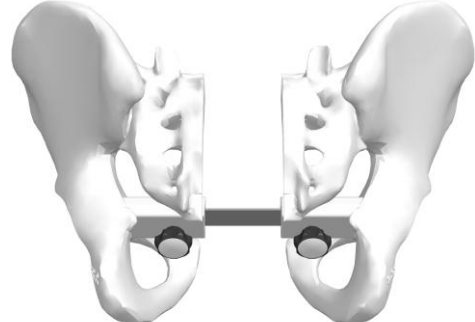
**TOOL CONFIGURATION**



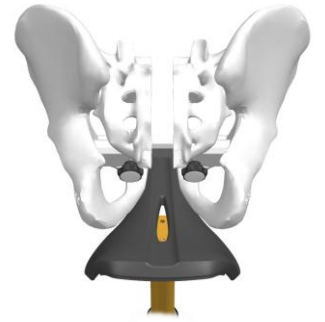
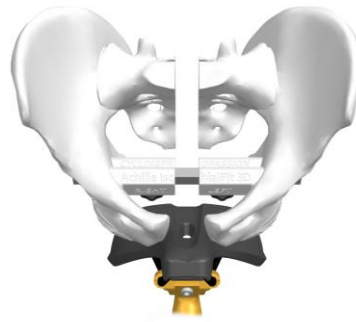
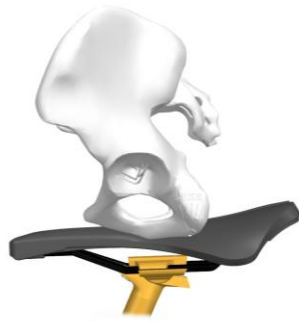
FRONT



REAR



ANGULAR REFERENCES  
0° - 10° - 20° - 30° - 40°

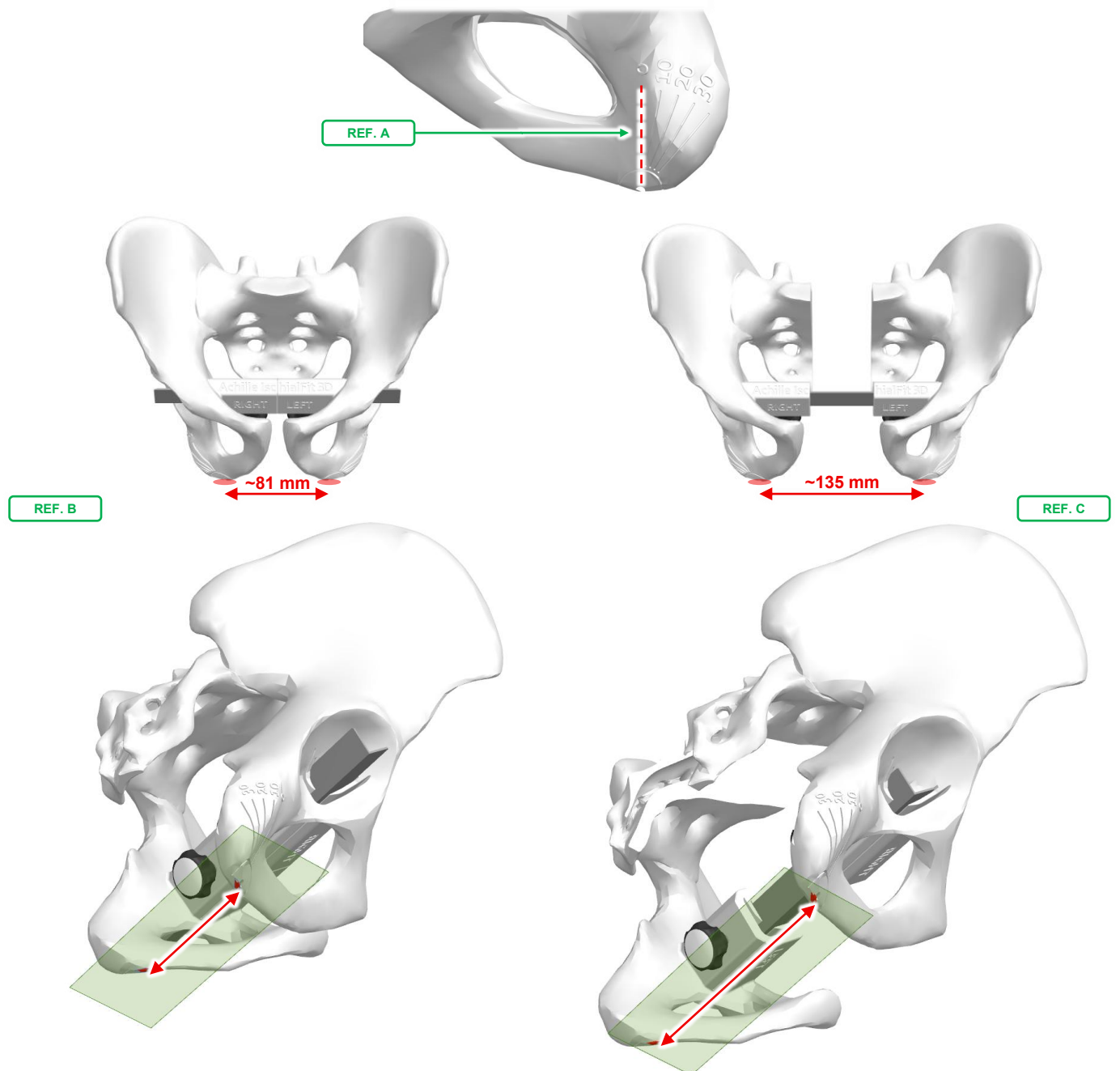


### GENERAL FEATURES

- 3D anatomical pelvic model designed for the visual simulation of the support area of the ischial tuberosities on the saddle. The system is equipped with sliding ischial tuberosities, adjustable from approximately 81 mm to 135 mm, in order to adapt to different anatomical conformations and provide an immediate representation of ischial distance. The structure allows a practical and intuitive observation of how the saddle contact area changes according to sit bone width and pelvic inclination adopted while riding the bicycle, making the tool particularly useful for demonstration, educational, and comparative purposes. Smart Tool Achille IschialFit 3D is intended as a visual aid to better understand the relationship between ischial conformation and saddle support;
- The two halves of the pelvis slide along an L-shaped rail and are equipped with two knobs for locking the two parts;
- The model integrates a progressive angular scale from 0° to 40°, printed directly on the structure, useful for setting and visualizing the simulated pelvic inclination according to the riding position adopted on the saddle.

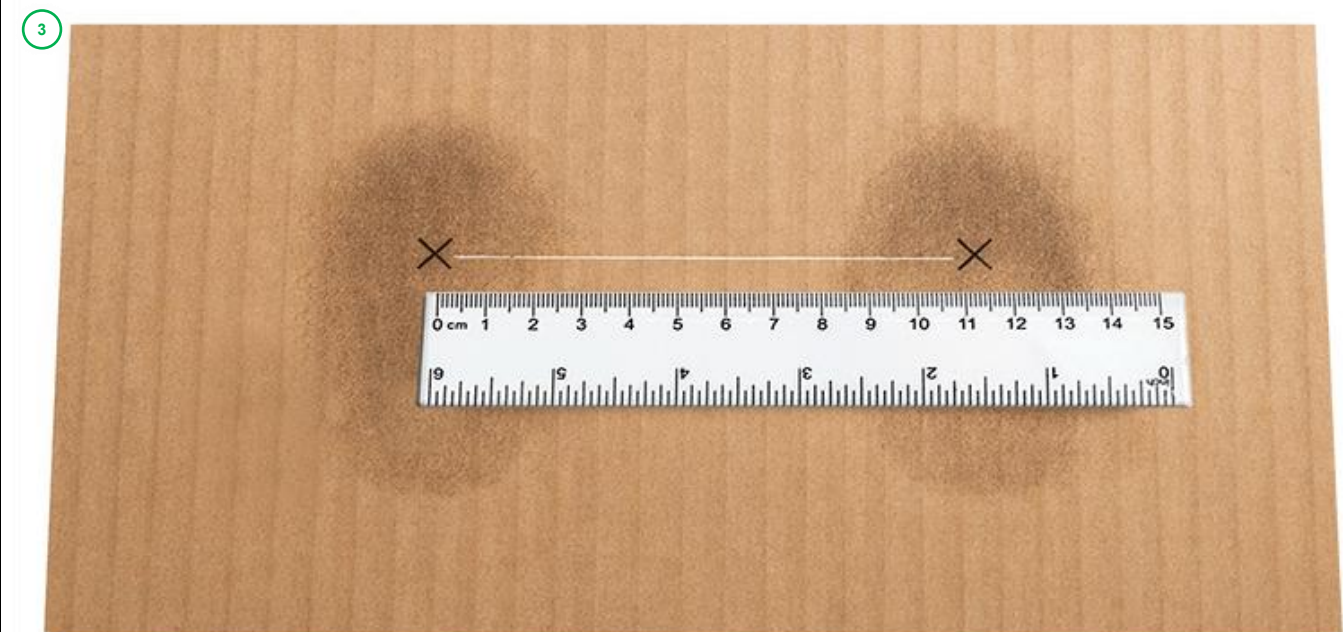
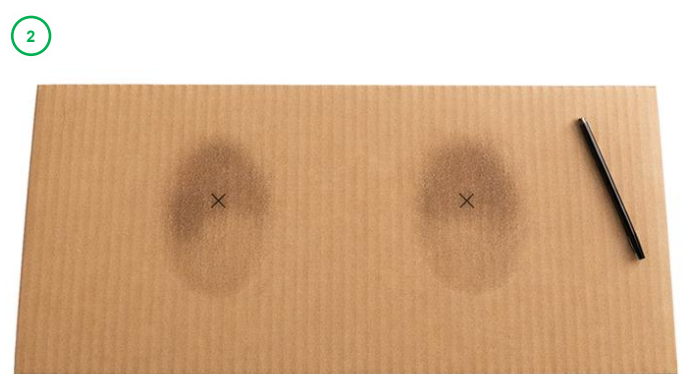
### INSIGHTS

- The model is produced to a reference scale broadly corresponding to a size L, with an ischial distance of approximately 105 mm and a maximum iliac wing width of approximately 325 mm;
- With the pelvis positioned at 0° (REF. A), and with the two halves of the model fully closed and in contact with each other (REF. B), the distance between the two ischial support points is approximately 81 mm. When the two halves of the model are instead brought to their maximum opening (REF. C), the resulting distance reaches approximately 135 mm.



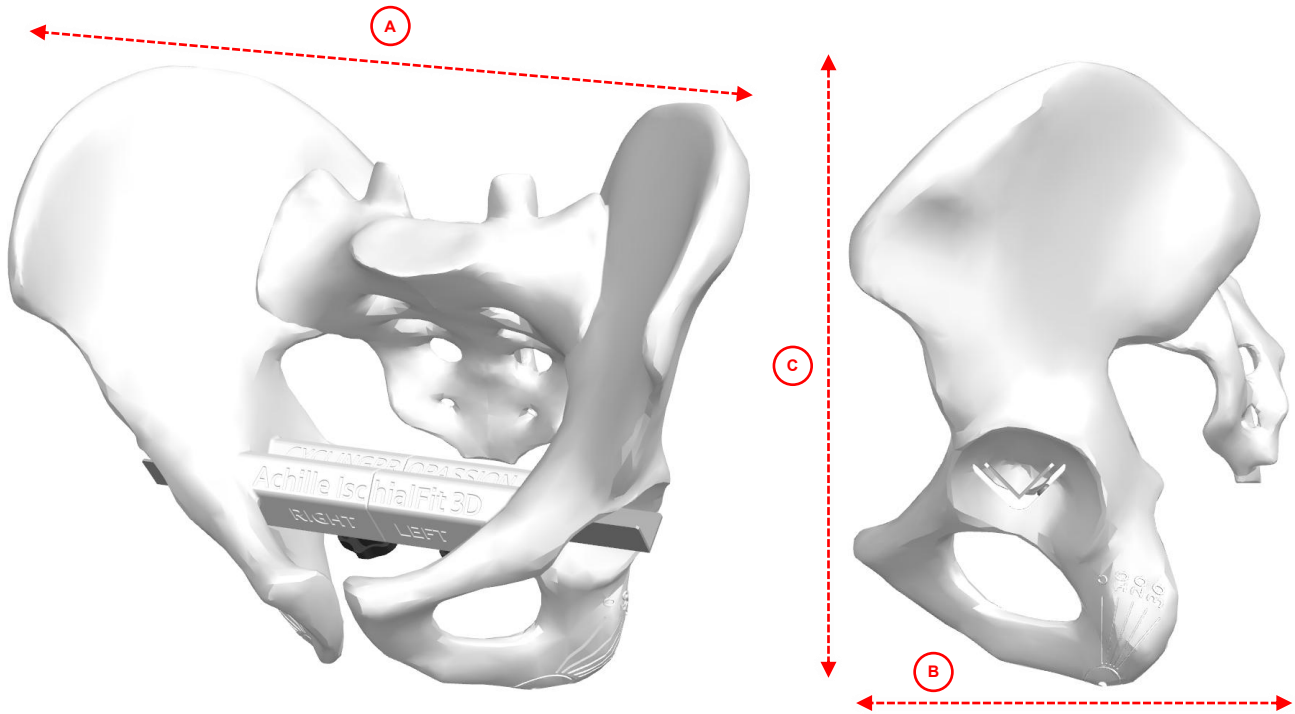
### HOW TO REPLICATE ISCHIAL WIDTH ON THE MODEL

- Ischial distance can be measured using dedicated tools specifically designed to identify the support area of the ischial tuberosities (for example impression-based supports, gel pads, deformable material bases or pressure-mapping systems), or by using a traditional impression method. To obtain a simple, practical, and sufficiently repeatable measurement, a piece of corrugated cardboard can be placed on a rigid, flat surface while maintaining an upright seated position with the hip and knee at approximately 90°. This setup helps reduce postural variables and provides a consistent reference to be replicated on the model.
- TRADITIONAL METHOD:
  1. Place a piece of corrugated cardboard on a rigid, flat, and stable surface;
  2. Sit on the cardboard wearing thin clothing without significant padding, keeping the torso upright and the hip-knee angle at approximately 90°;
  3. Slightly reduce the load on the feet, or slightly lift the lower limbs, in order to make the impression left by the ischial tuberosities on the cardboard more evident;
  4. Maintain the position for a few seconds, then stand up carefully;
  5. Identify the two most visible impressions left by the sit bones and mark the center of each;
  6. Measure the distance between the two marked centers in millimeters;
  7. Transfer the measured value to the model by adjusting the distance between the two halves of the pelvis accordingly;
  8. For greater reliability, repeat the measurement at least three times and consider the resulting average value.

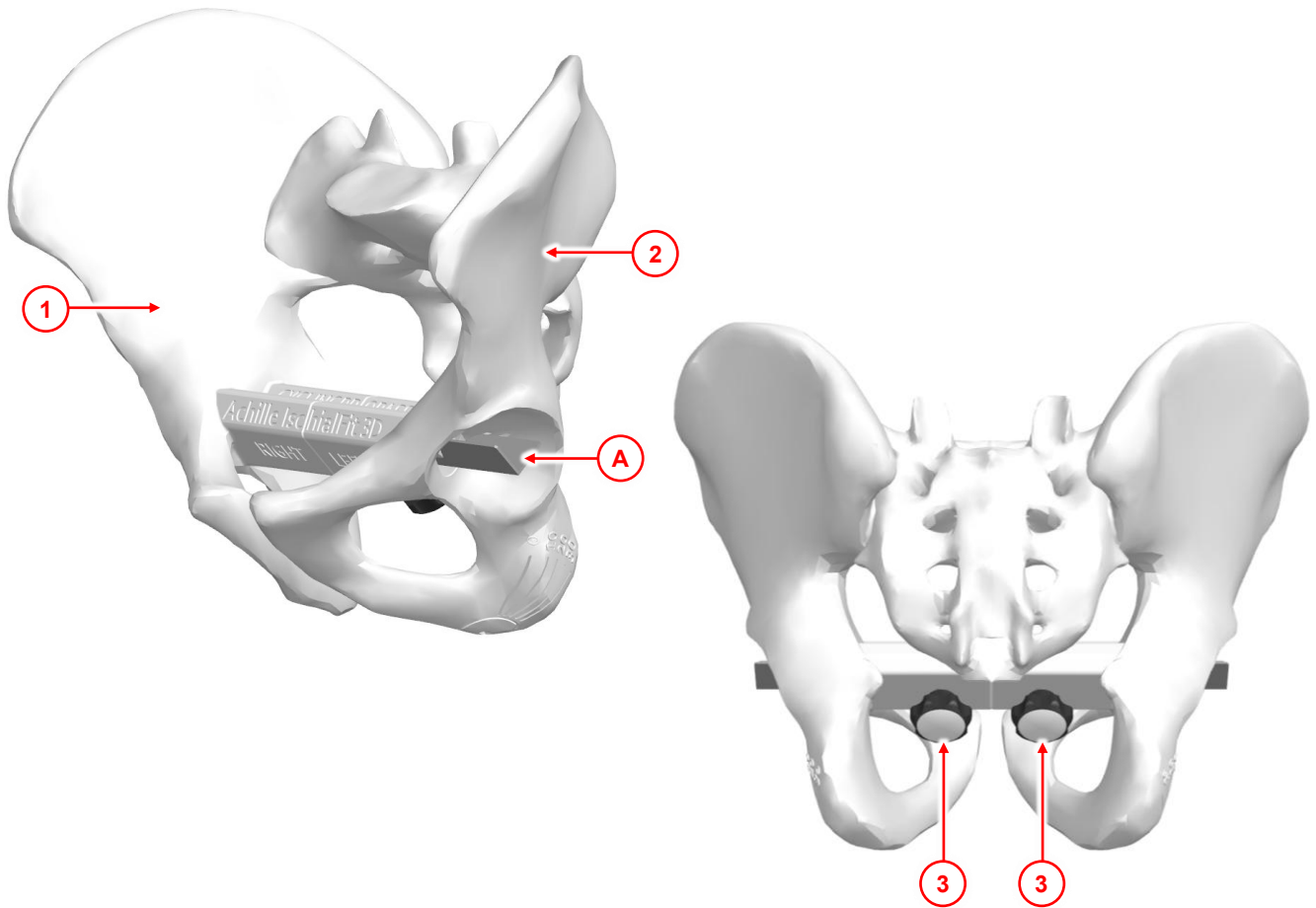


**TECHNICAL DETAILS**

- Length dimension: 261 mm (A);
- Width dimension: 145 mm (B);
- Height dimension: 209 mm (C);
- Made of PETG printed at a 0.2 mm layer height, with an aluminum rod and plastic locking knobs;
- Total weight: 370 grammi.



## COMPONENTS



## BILL OF MATERIALS

A - Aluminium rod 15x15x190mm	Parte_002: Left hemipelvis
Parte_001: Right hemipelvis	Parte_003: Locking knobs (2 pcs)

## WARNINGS FOR PRODUCT USE AND STORAGE

- Tighten the locking knobs (**part 3**) lightly: excessive tightening may compromise the functionality of the threaded hole.
- Do not expose the object directly to UV rays, as it may deform and lose its mechanical properties.
- Do not store the tool in humid environments, as moisture may lead to water absorption and material degradation.
- It is recommended to store the tool indoors at a temperature between 10-35 °C to prevent deformation and maintain dimensional stability.
- In case of prolonged storage in non-climate-controlled environments, it is recommended to monitor that the temperature does not exceed 35 °C and that humidity remains below 50%.