

SBRT SOLUTION LONG SBRT BASE PLATE



Article No. : 32317/1

A. GENERAL PRODUCT INFORMATION

This product is a medical device used for patient positioning and immobilisation of several anatomical regions in radiation therapy. This low density plate can be used during both the simulation and the treatment stage, including MRI simulation.

B. PRODUCT DESCRIPTION

This glass fibre BASE PLATE is the basic element of the SBRT package. It is used in combination with the SBRT RESPIRATORY SYSTEM, the INDEXABLE KNEE and FOOT SUPPORT, the ARM REST, the RAYCAST HIGH PRECISION HEAD SUPPORTS and BLOCKS & WEDGES, the EFFICAST® PRE-CUTS and the VACUUM BAGS to form a reproducible patient positioning and immobilisation device in the field of radiotherapy. Information on these other parts and instructions on how to make the masks can be found in the respective 'instructions for use' and on www.orfit.com.

C. PRECAUTIONS FOR USE

This is a fragile product, please handle with care. Always place the base plate on a flat surface. Clear the treatment table of any debris before positioning the base plate. Always fix the base plate securely to the treatment couch before positioning a patient. More information on how to fix this base plate to a couch top can be found on our website <http://www.orfit.com/en/fixation-devices/>.

The glass fibre base plate is constructed to be light in weight and to have superb dosimetric properties. When handled roughly, it may get damaged and fibres may come off. When this happens, stop using the base plate to prevent fibres from getting in contact with the patient's or user's skin. Contact your distributor.

A patient set-up form is available on the Orfit website.

D. STORAGE

Always store the product in a safe place to prevent it from getting damaged or falling onto other objects. Take care not to damage the edges of the plate when storing it in an upright position. Prevent hard objects from falling onto the plate.

Store the base plate between +10°C (50°F) and 40°C (122°F).

E. PROPERTIES

E.1. Physical Properties

Dimensions : L 2273 mm x W 540 mm x H 30 mm
Weight : 10.5 kg
Average density : 0.327 g/cm³

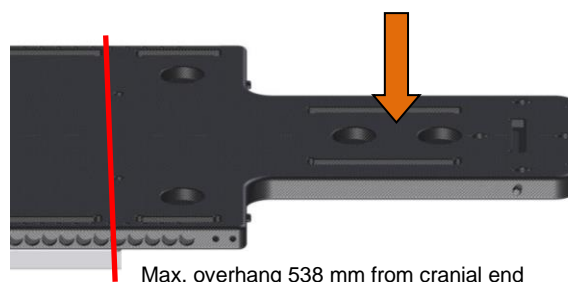
Made from a foam core with glass fiber top and bottom surfaces. Edges are epoxy resin. Other inserts made from hardwood/epoxy.

This product is made entirely of electrically non-conductive, non-metallic and non-magnetic materials and is MRI safe.



E.2. Mechanical Properties

Max. load 100 kg (220 lbs.)
In the middle between the 2 head support indexing holes



Max. overhang 538 mm from cranial end

Below sag and creep results at conditions of maximum overhang, force at cranial end and 21°C.

Sag examples are 0,53 mm/5 kg and 3,7 mm/35 kg

Sag = 0,1046 x load (kg) + 0,0136 (21°C, 30 min.)

Creep examples are 0,018 mm/5 kg/30 min and 0,074 mm/35 kg/30 min.

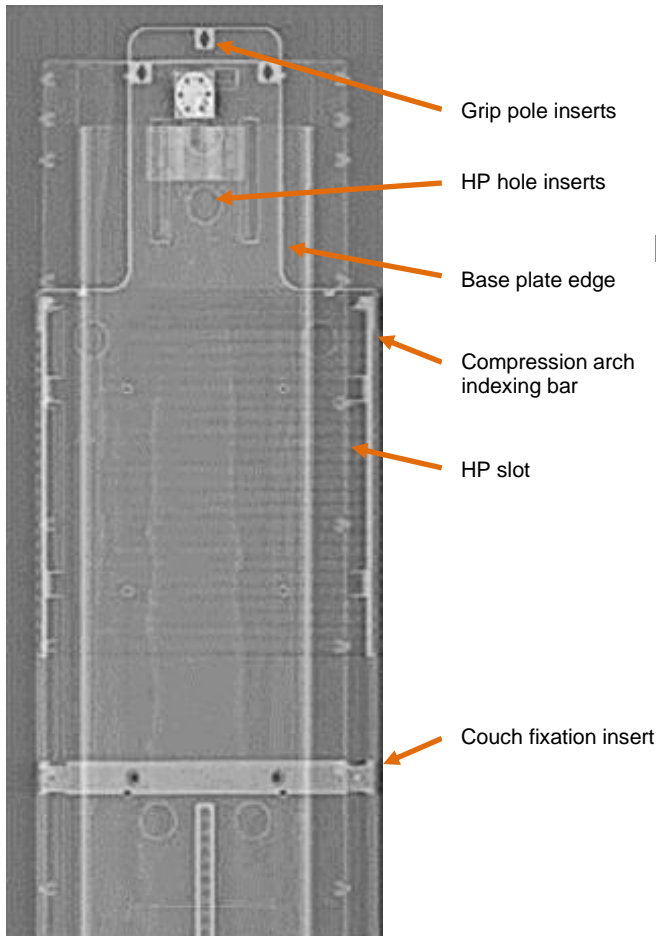
Creep = 0,0018 x load (kg) + 0,0099 (21°C, 30 min.)

E.3. Dosimetric Properties

The general attenuation factor (± 0,15 %) for the Base Plate is as follows:

6 Mv	1.4 %
15 Mv	1.2 %
Skin build-up	4 mm H ₂ O equiv.
Absorption	0,19 %/cm

The Base Plate has areas where higher density ($\pm 1.4 \text{ g/mm}^3$) materials have been used to reinforce parts like screw inserts, grip pole inserts, leg cushion rail, etc. The following CT image shows these areas. Attenuation factors at 6MV of these insert is 8 to 10 %.



This is a CT rendering.

Note: Use these numbers as a guidance only. Perform the measurements again in your department to verify these results.

F. MAINTENANCE AND WASTE MANAGEMENT

This product can be cleaned and disinfected by means of soapy water or an isopropanol based disinfectant, applied with a soft cloth. If unsure about the cleaning fluid, do not use. **Never use aerosol sprays, corrosive cleaning agents, solvents or abrasive detergents.**

Periodic checks of the product should be done to insure the parts are not worn and require repair or replacement. **Do not attempt to make repairs yourself.** Contact your distributor if there are any questions or concerns.

The product can be disposed of with household waste.

G. ADDITIONAL INFORMATION

For additional information such as distributor contact information, product brochures, Safety Data Sheets and regulatory information, please visit our website www.orfit.com.

Note:

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