

THE AIO SOLUTION® 3.0 BASE PLATES



Article No. : **38001, 38002, 38005, 38006, 38008, 38011, 38012 & 38018**

A. GENERAL PRODUCT INFORMATION

These products are medical devices used for patient positioning and immobilisation in radiation therapy. The products can be used during both the simulation and treatment stage, including MRI simulation for base plates 38002 & 38012.

These products may only be used in combination with immobilisation masks produced by Orfit. Orfit prohibits the use of unauthorised third-party products in conjunction with its own products.

B. PRODUCT DESCRIPTION

The AIO 3.0 base plates are the basic element of the AIO Solution 3.0. The base plates are used in combination with the AIO Solution 3.0 cushions and accessories, the Raycast® High Precision Head Supports and Blocks & Wedges, and with the Efficast® Pre-cuts 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.

Base plate 38005 has no leg separator insert which makes this base plate more homogeneous and low density in the pelvic area.

Base plates 38011 & 38012 are dedicated paediatric base plates. These base plates have an extra row of slots that allow the use of High Precision 3 points and 5 points paediatric masks and HP extracranial masks for children.

Base plates 38006 & 38008 have a cut-out which makes it compatible with the Elekta HexaPOD™ evo RT system. This cut-out is positioned at the height of the outer slots used to fix extracranial masks like 4-point pelvic masks, 5-point asymmetric breast masks and 6-point thorax and abdomen masks. Only the inner row of slots can be used to fix these masks to this base plate.

Base plate 38018 is a combination of a dedicated pediatric base plate, with an extra row of slots that allow the use of High Precision 3 points and 5 points paediatric masks and HP extracranial masks for children, and a cut-out to make it compatible with the Elekta HexaPOD™ evo RT system. This cut-out is positioned at the height of the outer slots used to fix extracranial masks like 4-point pelvic masks, 5-point asymmetric breast masks and 6-point thorax and abdomen masks. Only the inner row of slots can be used to fix these masks to this base plate.

C. PRODUCT RANGE

Art. No.	Description
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38001	AIO 3.0 – Base Plate CFL
38002	AIO 3.0 – Base Plate FGL – MR safe
38005	AIO 3.0 – Base Plate CFL – Without Leg Separator
38006	AIO 3.0 – Base Plate CFL – Hexapod™ Compatible
38008	AIO 3.0 – Base Plate CFL – Without Leg Separator – Hexapod™ Compatible
38011	AIO 3.0 – Base plate CFL – Without Leg Separator – Paediatric
38012	AIO 3.0 – Base plate FGL – Without Leg Separator – Paediatric – MR safe
38018	AIO 3.0 – Base Plate CFL - Hexapod™ Compatible - Without Leg Separator – Paediatric

D. 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 these base plates to a couch top can be found on our website <http://www.orfit.com/en/fixation-devices/>.

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

E. STORAGE

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

Store the base plates between +10°C (50°F) and 40°C (104°F).

F. PROPERTIES

38001 – AIO 3.0 – Base Plate CFL

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm

L 51.10" x W 21.26" x H 0.83"

Weight: 4.2 kg



This product is MR unsafe and cannot be used in a MRI scanner.

Mechanical properties:

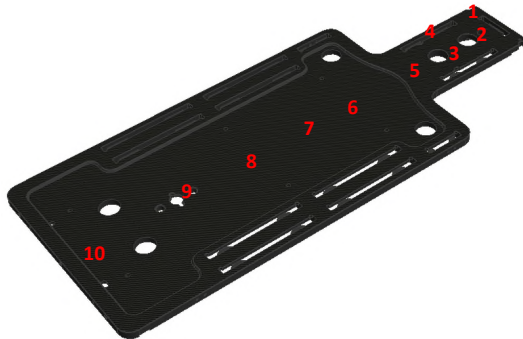
Maximum allowed patient weight: 200 kg

Maximum load on the head part when used in the maximum overhang position: 80 kg

Dosimetric properties:

Position	Attenuation (± 0.15 %) (6MV)	Attenuation (± 0.15 %) (15MV)	Skin build-up (± 0.1 mm) (15 MV)
	%	%	Mm H ₂ O equiv.
1	1.8	1.1	4.1
2	4.5	2.8	10.7
3	1.8	1.2	4.3
4	3.8	2.5	9.3
5	1.9	1.2	4.3
6	1.1	0.7	2.3
7	1.1	0.7	2.6
8	1.1	0.7	2.4
9	3.7	2.4	8.9
10	2.2	1.4	5.0

The drawing below shows the corresponding positions. The AIO 3.0 base plate CFL has areas where higher density materials have been used to reinforce parts like screw inserts and the leg separator insert. The base plate has low attenuation and skin build-up values in the treatment areas.



Note: Use these numbers as a guidance only. Perform the measurements again in your department according to applied treatment techniques and treatments systems.

38002 – AIO 3.0 – Base Plate FGL – MR safe

Physical properties:

This base plate is made of fibreglass laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm
L 51.10" x W 21.26" x H 0.83"

Weight: 4.4 kg



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

Mechanical properties:

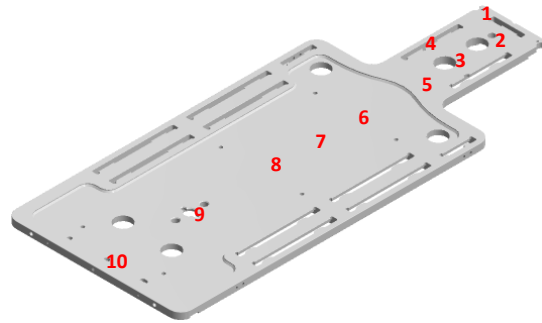
Maximum allowed patient weight: 200 kg

Dosimetric properties:

Position	Attenuation (± 0.15 %) (6MV)	Attenuation (± 0.15 %) (15MV)	Skin build-up (± 0.1 mm) (15 MV)
	%	%	Mm H ₂ O equiv.
1	2.9	1.9	7.0
2	5.6	3.6	13.7
3	3.0	1.9	7.1
4	5.0	3.2	12.0
5	3.0	1.9	7.0
6	1.9	1.2	4.3
7	1.9	1.2	4.4
8	1.9	1.2	4.4
9	4.3	2.8	10.6
10	3.0	1.9	7.0

1	2.9	1.9	7.0
2	5.6	3.6	13.7
3	3.0	1.9	7.1
4	5.0	3.2	12.0
5	3.0	1.9	7.0
6	1.9	1.2	4.3
7	1.9	1.2	4.4
8	1.9	1.2	4.4
9	4.3	2.8	10.6
10	3.0	1.9	7.0

The drawing below shows the corresponding positions. The AIO 3.0 base plate FGL has areas where higher density materials have been used to reinforce parts like screw inserts and the leg separator insert. The base plate has low attenuation and skin build-up values in the treatment areas.



Note: Use these numbers as a guidance only. Perform the measurements again in your department according to applied treatment techniques and treatments systems.

38005 – AIO 3.0 – Base Plate CFL – Without Leg Separator

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm
L 51.10" x W 21.26" x H 0.83"

Weight: 4.2 kg



This product is MR unsafe and cannot be used in a MRI scanner.

Mechanical properties:

Maximum allowed patient weight: 200 kg

Dosimetric properties:

Values can differ from the 38001 – AIO 3.0 – Base Plate CFL. Perform the measurements again in your department according to applied treatment techniques and treatments systems.



38006 – AIO 3.0 – Base Plate CFL – Hexapod™ Compatible

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm
L 51.10" x W 21.26" x H 0.83"

Weight: 3.8 kg



This product is MR unsafe and cannot be used in a MRI scanner.

Mechanical properties:

Maximum allowed patient weight: 200 kg

Dosimetric properties:

Values can differ from the 38001 – AIO 3.0 – Base Plate CFL. Use these numbers as a guidance only. Perform the measurements again in your department according to applied treatment techniques and treatments systems.



38011 – AIO 3.0 – Base Plate CFL – Without Leg Separator – Paediatric

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm
L 51.10" x W 21.26" x H 0.83"

Weight: 3.8 kg



This product is MR unsafe and cannot be used in a MRI scanner.

Mechanical properties:

Maximum allowed patient weight: 200 kg.

Dosimetric properties:

Values can differ from the 38001 – AIO 3.0 – Base Plate CFL. Use these numbers as a guidance only. Perform the measurements again in your department according to applied treatment techniques and treatments systems.



38008 – AIO 3.0 – Base Plate CFL – Without Leg Separator – Hexapod™ Compatible

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm
L 51.10" x W 21.26" x H 0.83"

Weight: 3.8 kg



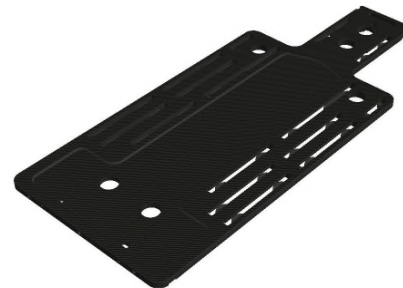
This product is MR unsafe and cannot be used in a MRI scanner.

Mechanical properties:

Maximum allowed patient weight: 200 kg

Dosimetric properties:

Values can differ from the 38001 – AIO 3.0 – Base Plate CFL. Use these numbers as a guidance only. Perform the measurements again in your department according to applied treatment techniques and treatments systems.



38012 – AIO 3.0 – Base Plate FGL – Without Leg Separator – Paediatric – MR safe

Physical properties:

This base plate is made of fibreglass laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm
L 51.10" x W 21.26" x H 0.83"

Weight: 4.4 kg



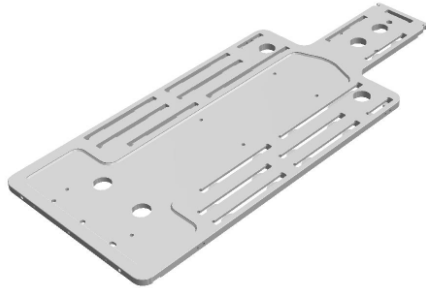
This product is made entirely of electrically non-conductive, non-metallic and non-magnetic materials and is MR safe.

Mechanical properties:

Maximum allowed patient weight: 200 kg.

Dosimetric properties:

Values can differ from the 38002 – AIO 3.0 – Base Plate FGL. Use these numbers as a guidance only. Perform the measurements again in your department according to applied treatment techniques and treatments systems.



38018 – AIO 3.0 – Base Plate CFL – Hexapod™ Compatible - Without Leg Separator – Paediatric

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 540 mm x H 21 mm
L 51.10" x W 21.26" x H 0.83"

Weight: 3.8 kg



This product is MR unsafe and cannot be used in a MRI scanner.

Mechanical properties:

Maximum allowed patient weight: 200 kg

Dosimetric properties:

Values can differ from the 38001 – AIO 3.0 – Base Plate CFL. Use these numbers as a guidance only. Perform the measurements again in your department according to applied treatment techniques and treatments systems.



G. MAINTENANCE AND WASTE MANAGEMENT

These products can be cleaned and disinfected by means of 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.** Further cleaning instructions can be found in the [Orfit Cleaning Guidelines](#).

Periodic checks of these products 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.

These products can be disposed of with household waste.

H. 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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