THE AIO SOLUTION® 3.0 SBRT COMPATIBLE BASE PLATES

Article No. : **38013, 38015, 38016, 38019, 38020, 38021 & 38023**

A. GENERAL PRODUCT INFORMATION

These products are medical devices used for patient positioning and immobilisation in radiation therapy. The product can be used during both the simulation and treatment stage, including MRI simulation for base plates 38015 and 38023.

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 SBRT compatible base plates are the basic elements of the AIO Solution 3.0. The base plate is used in combination with the AIO Solution 3.0 cushions and accessories, the AIO 3.0 SBRT bridges, the 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.

Pelvic mask slots on the AIO 3.0 SBRT compatible base plates have a different position compared to other AIO 3.0 base plates.
This makes these AIO 3.0 SBRT compatible base plates not interchangeable with other base plates for use with lung, breast and pelvic masks.

Base plates 38019, 38020, 38021 & 38023 have a cut-out which makes these base plates 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 these base plates. Base Plate 38021 is a paediatric version and has an extra row of slots on the inside that allow the use of High Precision 3-points and 5-points paediatric masks and HP extracranial masks for children.

SBRT pressure bridges 38218 & 38222 can be mounted on both edges of the AIO 3.0 SBRT compatible base plates 38013, 38015 & 38016. SBRT pressure bridge 38240 can be mounted on both edges of the AIO 3.0 SBRT HexaPOD™ compatible base plates 38019, 38020, 38021 & 38023. More information about the use and indexing of these pressure bridges can be found in the respective 'instructions for use'.

Hand holds (25000/17/A, 25000/17/B) can be mounted on both edges of all AIO 3.0 SBRT compatible base plate. More information about the use and indexing of these hand holds can be found in the respective 'instructions for use'.

Base plates 38016, 38020 & 38021 have no leg separator insert which makes these base plates more homogeneous and low density in the pelvic area.

C. PRODUCT RANGE

Art. No.	Description
38013	AIO 3.0 – Base Plate CFL – SBRT compatible
38015	AIO 3.0 – Base Plate FGL – SBRT compatible – MR compatible
38016	AIO 3.0 – Base Plate CFL – SBRT compatible – Without Leg Separator
38019	AIO 3.0 – Base Plate CFL – SBRT compatible – HexaPOD™ compatible
38020	AIO 3.0 – Base Plate CFL – SBRT compatible – HexaPOD™ compatible – Without Leg Separator
38021	AIO 3.0 – Base Plate CFL – SBRT compatible - HexaPOD™ compatible – Without Leg Separator – Paediatric
38023	AIO 3.0 – Base Plate FGL – SBRT compatible – HexaPOD™ compatible – MR compatible

D. PRECAUTIONS FOR USE

These are fragile products, 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 in the 'instructions for use' of the 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, 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.
Do not lean or sit on the outer edge of the base plate. Do not apply point loads on the base plate as this might damage the base plate.

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 plate when storing it in an upright position. Prevent hard objects from falling onto the base plate.

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

F. PROPERTIES

38013 – AIO 3.0 – Base Plate CFL – SBRT compatible

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 530 mm x H 21 mm
L 51.10" x W 20.87" 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

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_2O 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 SBRT compatible base plate 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.

38015 – AIO 3.0 – Base Plate FGL – SBRT compatible – MR compatible

Physical properties:

This plate is made of fibreglass laminate.

Dimensions: L 1298 mm x W 530 mm x H 21 mm
L 51.10" x W 20.87" x H 0.83"

Weight: 3.8 kg

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

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_2O 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

The drawing below shows the corresponding positions. The AIO 3.0 SBRT compatible base plate 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.

38016 – AIO 3.0 – Base Plate CFL – SBRT compatible – Without Leg Separator

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 530 mm x H 21 mm
L 51.10" x W 20.87" 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
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_2O 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
10	2.2	1.4	5.0

The drawing below shows the corresponding positions. The AIO 3.0 SBRT compatible base plate has areas where higher density materials have been used to reinforce parts like screw inserts. 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.

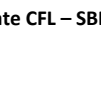
38019 – AIO 3.0 – Base Plate CFL – SBRT compatible – HexaPOD™ compatible

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 530 mm x H 21 mm
L 51.10" x W 20.87" 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
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_2O 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 SBRT compatible base plate 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.

38020 – AIO 3.0 – Base Plate CFL – SBRT compatible – HexaPOD™ compatible – Without Leg Separator

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 530 mm x H 21 mm
L 51.10" x W 20.87" 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
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_2O 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
10	2.2	1.4	5.0

The drawing below shows the corresponding positions. The AIO 3.0 SBRT compatible base plate has areas where higher density materials have been used to reinforce parts like screw inserts. 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.

38021 – AIO 3.0 – Base Plate CFL – SBRT compatible – HexaPOD™ compatible – Without Leg Separator - Paediatric

Physical properties:

This plate is made of carbon fibre laminate.

Dimensions: L 1298 mm x W 530 mm x H 21 mm
L 51.10" x W 20.87" 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
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_2O 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
10	2.2	1.4	5.0

The drawing below shows the corresponding positions. The AIO 3.0 SBRT compatible base plate has areas where higher density materials have been used to reinforce parts like screw inserts. 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.

38023 – AIO 3.0 – Base Plate FGL – SBRT compatible compatible – HexaPOD™ compatible – MR compatible

Physical properties:

This plate is made of fibreglass laminate.

Dimensions: L 1298 mm x W 530 mm x H 21 mm
L 51.10" x W 20.87" x H 0.83"

Weight: 3.8 kg

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

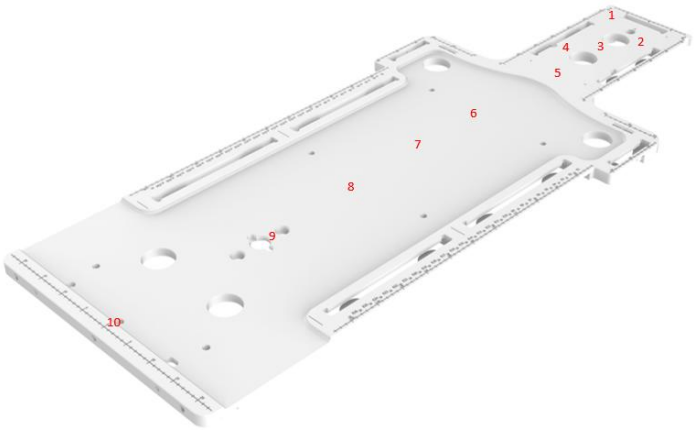
Mechanical properties:

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_2O equiv.
1	1.6	1.1	5.1
2	2.8	1.8	8.1
3	1.9	1.3	5.8
4	1.8	1.2	5.3
5	1.9	1.3	5.8
6	1.1	0.8	3.6
7	1.2	0.8	3.8
8	1.2	0.7	3.4
9	3.6	2.4	10.6
10	6.9	4.7	20.7

The drawing below shows the corresponding positions. The AIO 3.0 SBRT compatible base plate 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. AINTENANCE AND WASTE MANAGEMENT

This product 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.

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.

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