

Thermoplastic Solutions

Fibreplast® &
Aquaplast RT™



Understanding Thermoplastic Materials

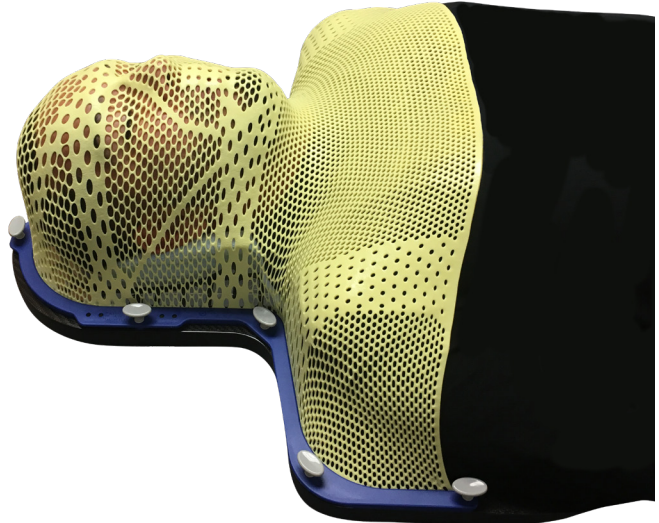
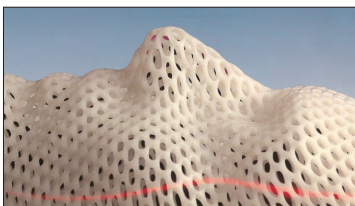


Aquaplast RT™

We are the inventors of Aquaplast RT™ which has become synonymous worldwide with superior thermoplastic for patient positioning. Its rigidity, resistance to shrinkage, and easy molding qualities are unparalleled in the industry.

We manufacture all our own thermoplastics and have done so for over 40 years. This allows us to maintain the highest levels of process control and ensures that our customers receive the most reliable products on the market.

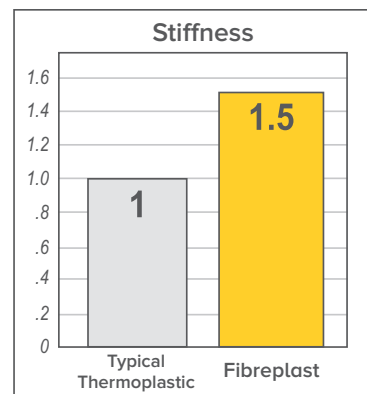
- Available in 2.4 mm and 3.2 mm and in three different perforation patterns: standard perforation, micro perforation, and Variable Perf™ patterns.
- Consistent perforation patterns without solid areas results in a uniform contour forming a snug but comfortable mask without the bolus effect often associated with solid thermoplastics.























Fibreplast®

Our premium proprietary thermoplastic, Fibreplast®, combines our world-renowned Aquaplast RT™ with high strength Kevlar®. Fibreplast® is not only more rigid than other thermoplastics, it shrinks less and therefore increases patient comfort.

- Available in 2.4 mm and 3.2 mm thicknesses. Both are offered in standard perforation, micro perforation, and Variable Perf™ patterns.
- Reinforced with Kevlar® to maximize stiffness while reducing the bolus effect associated with competing thermoplastics.
- Most rigid low-temperature thermoplastic available for use in radiotherapy and preferred for stereotactic and proton applications.



Which thermoplastic is right for my patient's treatment?

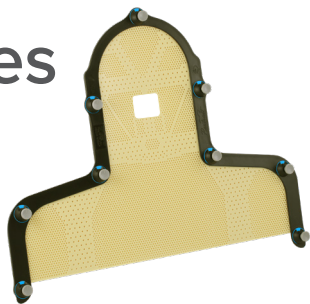
	Portrait™ S-frame	U-frame	ORF 3 & 5 Point Masks	PR 3 & 5 Point Masks	BoS™
Integrated Shim™ Allows for easy adjustments, tightening or loosening at each pin point with shims built directly into the mask.					
Assure™ Open View Open View is designed for use with optical tracking systems and enhances patient comfort					
Variable Perf™ Optimized perforation pattern provides strength where you need it most, while reducing the bolus effect					
Split-frame Split-frame reduces the stretching of the thermoplastic material, resulting in a more rigid mask, and accommodates patients with long hair					
Fibreplast® The most rigid thermoplastic material available					
Aquaplast RT™ The original and most widely recognized thermoplastic material available					

Thermoplastic Styles

Portrait™

Portrait™ Series

The Portrait™ series of masks are compatible with the Qfix® Portrait™ device and other S-type Devices. Masks are available in Fibreplast® and Aquaplast RT™ in varying thicknesses, 2.4 mm and 3.2 mm. The Portrait™ series offers three perforation patterns: standard, micro, and Variable Perf™ patterns. Optional features include Assure™ Open View, and Split-frame designs.



Integrated Shim™ System

Innovative Integrated Shim™ System provides a 4 mm range of height adjustment utilizing discrete 0.5 mm increments to optimize immobilization. Independent height adjustments can be made for a completely customizable solution.

Assure™ Open View Masks

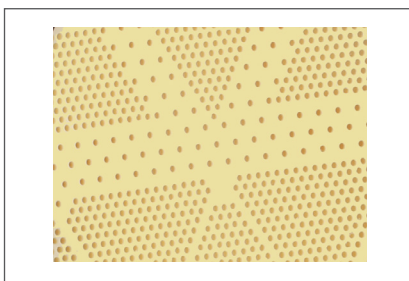
The perfect balance between rigid fixation and patient comfort. Assure™ Open View Masks reduce anxiety and increase patient comfort while allowing real time patient monitoring utilizing optical tracking systems.



Portrait™ Assure™ Open View Fibreplast, Head & Shoulder Mask

Variable Perf™

Variable Perf™ is the perfect balance between rigid fixation and patient comfort. These masks provide a whole new way to maximize the patient positioning performance of your devices. The optimal perforation pattern maximizes rigidity while minimizing the bolus effect.



Detail of Variable Perf™ Fibreplast® Mask

Split-frames

Split-frames reduce the stretching required of the thermoplastic, thus forming a more rigid mask. These masks also accommodate patients with long hair.



Portrait™ Split-frame Fibreplast®, Head Only Mask

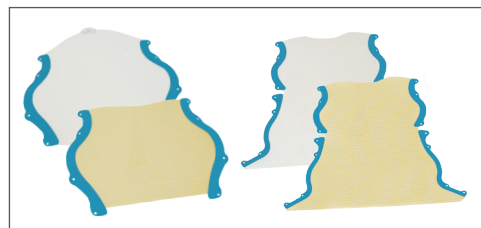
BoS™
Headframe

BoS Headframes

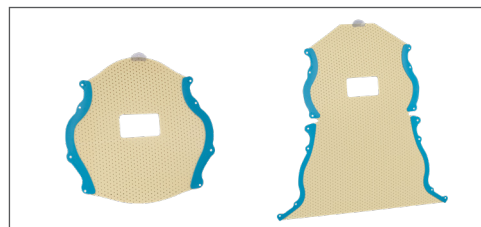
The BoS™ masks are specifically designed for use with the BoS™ device in Proton. They feature an innovative 3D shape that matches the contour of the BoS™ device. Masks are available in Fibreplast® and Aquaplast RT™ in 2.4 mm, and 3.2 mm thicknesses. BoS™ masks offer two perforation patterns, standard or micro patterns. BoS™ masks come in multiple sizes to accommodate different head sizes. Optional features include Assure™ Open View and cranial flap.

Assure™ Open View Masks

The perfect balance between rigid fixation and patient comfort. Assure™ Open View Masks reduce anxiety and increase patient comfort while allowing real time patient monitoring utilizing optical tracking systems.



Bos™ Headframe Aquaplast RT™ and Fibreplast® Masks, Head Only and Head & Shoulder



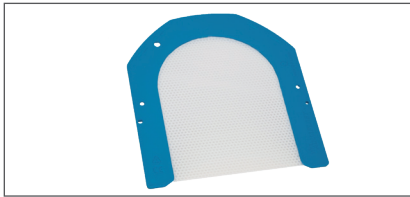
Bos™ Headframe Assure™ Open View Fibreplast® Masks, Head Only and Head & Shoulder

U-frames

U-frame masks are compatible with the Qfix® AccuFix™ Device and other U-type devices. Masks are available in Fibreplast® and Aquaplast RT™ in varying thicknesses, 2.4 mm and 3.2 mm. The U-frame masks offers three perforation patterns: standard, micro, and Variable Perf™ patterns. Optional features include Assure™ Open View, Variable Perf™, Slimline frames, and Split-frame Designs.

Traditional U-frames

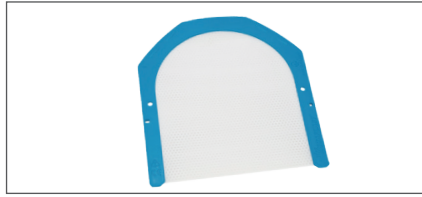
Traditional U-frame masks are available in head-only to provide a variety of patient positioning and immobilization solutions. These masks are especially useful for patients with smaller heads.



Traditional U-frame Mask

Slimline U-frames

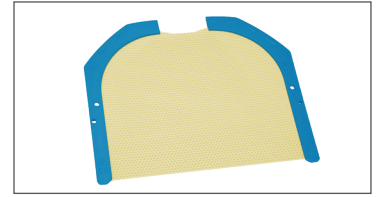
Slimline U-frame masks feature a thin frame that maximizes the usable area of the thermoplastic material. These masks are especially useful for patients with larger heads.



Slimline U-frame Mask

Split U-frames

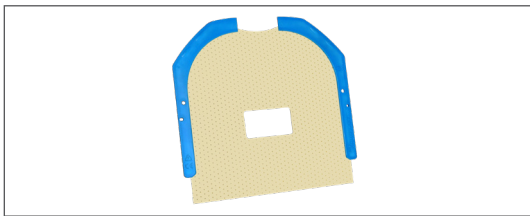
Split-frames reduce the stretching required of the thermoplastic, thus forming a more rigid mask. These masks also accommodate patients that have long hair.



Slimline Split U-frame Mask

Assure™ Open View U-frames

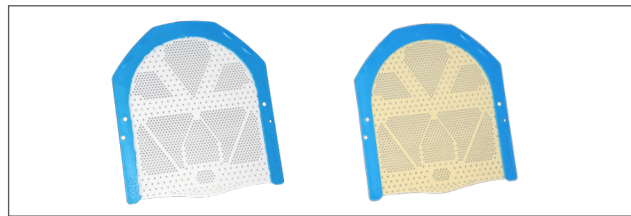
Assure™ Open View offers the ideal combination of immobility and patient comfort. Assure™ Open View Masks reduce anxiety and increase patient comfort while allowing real time patient monitoring utilizing optical tracking systems.



Assure™ Open View Split U-frame Mask

Variable Perf™ U-frames

Variable Perf™ is the perfect balance between rigid fixation and patient comfort. These masks provide a whole new way to maximize the patient positioning performance of your devices. The optimal perforation pattern maximizes rigidity while minimizing the bolus effect.



Variable Perf™ Slimline U-frame Masks in Aquaplast RT™ and Fibreplast®

Other Thermoplastics

Qfix® offers a variety of 2-, 3-, 4-, and 5-point masks for use with Qfix® PentaFix™ and other systems. Masks are available in Fibreplast® and Aquaplast RT™ in two thicknesses: 2.4 mm and 3.2 mm. The masks have three perforation patterns: standard, micro, and Variable Perf™ patterns. An optional feature is Assure™ Open View.



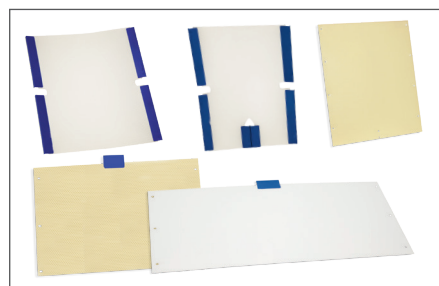
Multiple point masks for other systems



Custom Bolus and Thermoplastic Pellets

Aquaplast RT™ & Fibreplast® for the Pelvis

We offer a wide variety of pelvis thermoplastic sheets designed to fit the Qfix® pelvis board, as well as most third party devices.



Thermoplastics for the pelvis.

Aquaplast RT™ Custom Bolus

Ideal for the hard-to-bolus areas such as: chest wall, nose, parotid, groin, ears and any irregular surfaced anatomical feature.

Breast & Torso Thermoplastics

We offer a variety of sizes of Aquaplast RT™ and Fibreplast® solutions for securing the breast and torso.



Breast and Torso Thermoplastic

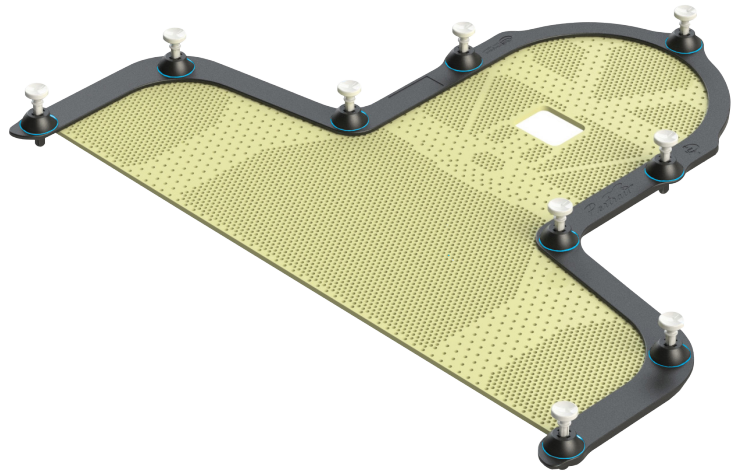
Portrait™

with



Integrated
Shim™ System

Patent(s) Pending



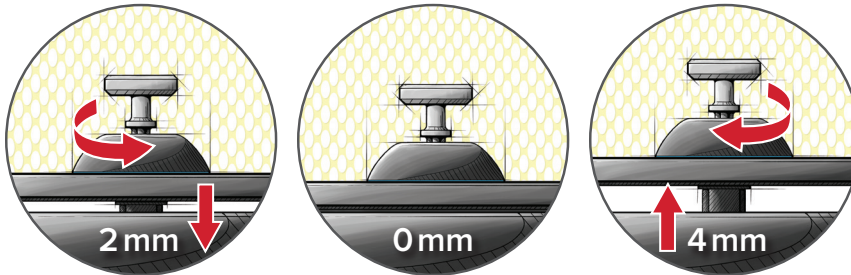
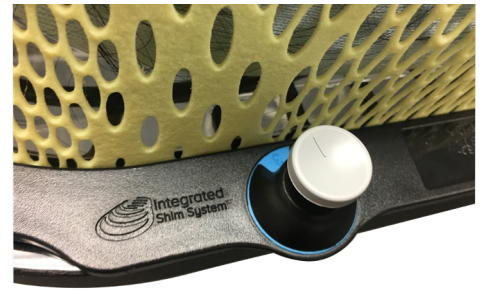
Integrated Shim™ for Portrait™ S-frame

Integrated Shim™ for Portrait™ S-frame advances patient positioning immobilization with thermoplastic masks. Integrated Shim allows for easy adjustments to the thermoplastic mask by tightening or loosening the mask at each pin point independently. The clinician can tighten or loosen the mask without removing the mask from the patient, increasing work flow efficiencies and patient comfort with easy rotation of each pin. The mask can be shimmed at each pin fixation point by discrete 0.5mm increments to tighten or loosen the mask. During the course of treatment if a patient's anatomy changes with weight loss or gain the mask is customizable to each patient without making a new mask and repeating the patient's simulation.

Features:

- Independent shimming at each pin point
- No need to remove the mask to tighten or loosen the mask
- Increased work flow efficiencies
- Increased patient comfort





Integrated Shim™ System

Innovative Integrated Shim™ System provides a 4 mm range of height adjustment utilizing discrete 0.5 mm increments to optimize immobilization. Independent height adjustments can be made for a completely customizable solution.

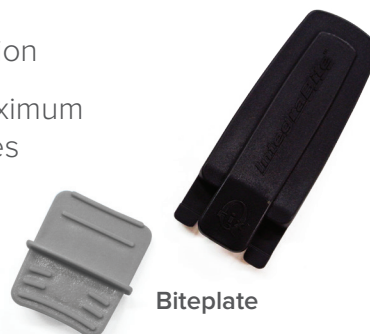
To adjust shim height, simply:

- Pull up to unlock the pin
- Rotate the pin to the desired height adjustment
- Depress the pin to lock
- Eliminates the need for mask removal to adjust shim height

IntegraBite™

Optional IntegraBite* easily molds into the Fibreplast mask; which conforms to the teeth or maxilla further decreasing head and neck rotation, flexion and extension.

- Provides rigid, non-invasive immobilization
- Ensures repeatable positioning and maximum access to the patient from various angles
- Simple, streamlined design makes application and insertion easy



Applicator

Biteplate

Integrated Shim[™] Offerings for Portrait S-frame



Fibreplast[®] Variable Perf[™]

Portrait[™] S-frame Head-Only with Integrated Shim[™]

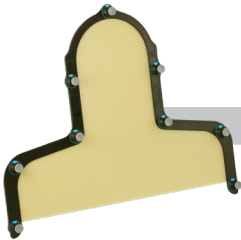
RT-A889KYSD Fibreplast, Portrait S-frame Head Only with Integrated Shim, 3.2 mm



Fibreplast[®] Open View

Portrait[™] S-frame Head-Only with Integrated Shim[™]

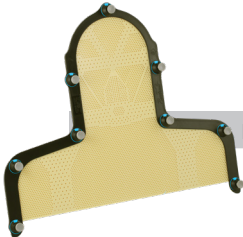
RT-A876KSDGLF Fibreplast, Portrait Split S-frame Micro Perf Head Only with Integrated Shim, 3.2 mm



Fibreplast[®]

Portrait[™] S-frame Head & Shoulder with Integrated Shim[™]

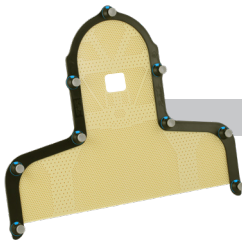
RT-A782KSD Fibreplast, Portrait S-frame Head & Shoulder with Integrated Shim, 2.4 mm



Fibreplast[®] Variable Perf[™]

Portrait[™] S-frame Head & Shoulder with Integrated Shim[™]

RT-A892KYSD Fibreplast, Portrait S-frame Variable Perf Head & Shoulder with Integrated Shim, 3.2 mm



Fibreplast[®] Variable Perf[™] Open View

Portrait[™] S-frame Head & Shoulder with Integrated Shim[™]

RT-A892KYSDF Fibreplast, Portrait S-frame Variable Perf Head & Shoulder with Integrated Shim, 3.2 mm



Aquaplast RT[™] Variable Perf[™]

Portrait[™] S-frame Head & Shoulder with Integrated Shim[™]

RT-A892YSD Aquaplast RT, Portrait S-frame Head & Shoulder with Integrated Shim, 3.2 mm

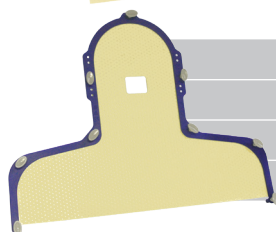
Portrait™ S-frame

Assure™ Open View Series



Head Only Split S-frame

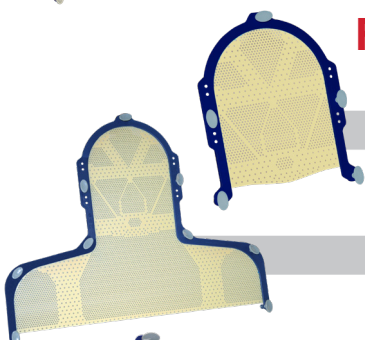
RT-1776KYSDGXF	Fibreplast Head Only Split S-frame, 2.4 mm, Variable Perf, Extended
RT-1876KYSDGLF	Fibreplast Head Only Split S-frame, 3.2 mm, Variable Perf, Long
RT-1776KSDGXF	Fibreplast Head Only Split S-frame, 2.4 mm, Micro Perf, Extended
RT-1876KSDGLF	Fibreplast Head Only Split S-frame, 3.2 mm, Micro Perf, Long



Head & Shoulder S-frame

RT-1782KYSDF	Fibreplast Head & Shoulder S-frame, 2.4 mm, Variable Perf
RT-1892KYSDF	Fibreplast Head & Shoulder S-frame, 3.2 mm, Variable Perf
RT-1778KSDF	Fibreplast Head & Shoulder S-frame, 2.4 mm, Micro Perf
RT-1878KSDF	Fibreplast Head & Shoulder S-frame, 3.2 mm, Micro Perf

Fibreplast® Variable Perf™



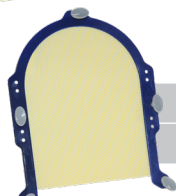
Head Only Portrait™ S-frame – Variable Perf™

RT-1889KYSD	Fibreplast, Head Only S-frame, 3.2 mm, Variable Perf
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Head & Shoulder S-frame for Portrait™ – Variable Perf™

RT-1892KYSD	Fibreplast, Head & Shoulder S-frame, 3.2 mm, Variable Perf
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Fibreplast®



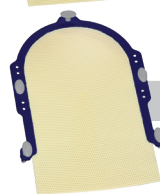
Head Only S-frame for Portrait™ & Other Systems – Standard Length

RT-1779KSD	Fibreplast, Head Only S-frame, 2.4 mm, Standard Perf
RT-1889KSD	Fibreplast, Head Only S-frame, 3.2 mm, Standard Perf



Head Only S-frame for Portrait™ & Other Systems – Extended Length

RT-1779KSDX	Fibreplast, Head Only S-frame, 2.4 mm, Standard Perf
RT-1889KSDX	Fibreplast, Head Only S-frame, 3.2 mm, Standard Perf



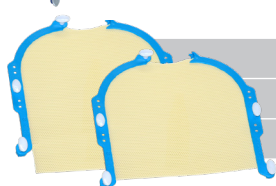
Head Only S-frame for Portrait™ & Other Systems – Long Length

RT-1889KSDL	Fibreplast, Head Only S-frame, 3.2 mm, Standard Perf
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Head & Shoulder S-frame Mask for Portrait™ & Other Systems

RT-1782KSD	Fibreplast, Head & Shoulder S-frame, 2.4 mm, Micro Perf
RT-1892KSD	Fibreplast, Head & Shoulder S-frame, 3.2 mm, Standard Perf



Head Only Split S-frame with 8 cm Gap for Portrait™

RT-1779KSD-S3	Fibreplast Head Only Split S-frame, 2.4 mm, Standard Perf
RT-1889KSD-S3	Fibreplast Head Only Split S-frame, 3.2 mm, Standard Perf
RT-1876KSDGL	Fibreplast Head Only Split S-frame, 3.2 mm, Micro Perf, Long Length

Portrait™ S-frame



Aquaplast RT™ Open Eye & Mouth

Head Only Portrait™ S-frame – Variable Perf™

RT-1889YSDR Aquaplast RT Open Eye & Mouth, Head Only Portrait S-frame, 3.2 mm



Head & Shoulder S-frame for Portrait™ & Other Systems

RT-1892YSDR Aquaplast RT Open Eye & Mouth, Head & Shoulder Portrait S-frame, 3.2 mm



Aquaplast RT™ Variable Perf™

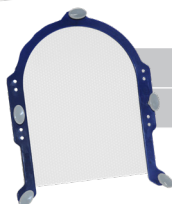
Head Only Portrait™ S-frame – Standard

RT-1889YSD Aquaplast RT Variable Perf, Head Only Portrait S-frame, 3.2 mm



Head & Shoulder S-frame for Portrait™ & Other Systems

RT-1892YSD Aquaplast RT Variable Perf, Head & Shoulder Portrait S-frame, 3.2 mm



Head Only S-frame for Portrait™ & Other Systems – Standard

RT-1779SD Aquaplast RT Head Only Portrait S-frame, 2.4 mm, Standard

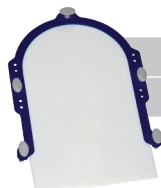
RT-1889SD Aquaplast RT Head Only Portrait S-frame, 3.2 mm, Standard



Head Only S-frame for Portrait™ & Other Systems – Extended

RT-1779SDX Aquaplast RT Head Only Portrait S-frame, 2.4 mm, Extended

RT-1889SDX Aquaplast RT Head Only Portrait S-frame, 3.2 mm, Extended



Head Only S-frame for Portrait™ & Other Systems – Long

RT-1779SDL Aquaplast RT Head Only Portrait S-frame, 2.4 mm, Long

RT-1889SDL Aquaplast RT Head Only Portrait S-frame, 3.2 mm, Long



Head & Shoulder S-frame Mask for Portrait™ & Other Systems

RT-1782SD Aquaplast RT Head & Shoulder Portrait S-frame, 2.4 mm

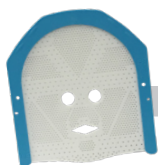
RT-1892SD Aquaplast RT Head & Shoulder Portrait S-frame, 3.2 mm



Head Only Split S-frame with 8 cm Gap for Portrait™

RT-1889SD-S3 Aquaplast RT Head-Only Split S-frame, 3.2 mm, Standard, 8 cm Gap

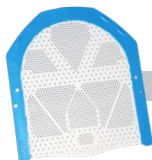
U-frames



Aquaplast RT™ Open Eye & Mouth

Slimline U-frame – Variable Perf™

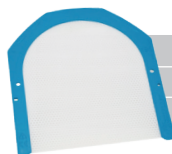
RT-1889YSR Aquaplast RT Open Eye & Mouth Slimline U-frame, 3.2 mm, Variable Perf



Aquaplast RT™ Variable Perf™

Slimline U-frame – Variable Perf™

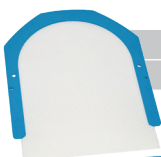
RT-1889YS Aquaplast RT Slimline U-frame, 3.2 mm, Variable Perf



Aquaplast RT™

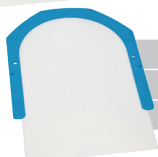
Slimline U-frame – Standard

RT-1779S	Aquaplast RT Slimline U-frame, 2.4 mm, Standard
RT-1889S	Aquaplast RT Slimline U-frame, 3.2 mm, Standard
RT-1989S	Aquaplast RT Slimline U-frame, 4.8 mm, Standard



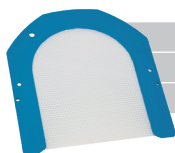
Slimline U-frame – Extended

RT-1779SX	Aquaplast RT Slimline U-frame, 2.4 mm, Extended
RT-1889SX	Aquaplast RT Slimline U-frame, 3.2 mm, Extended



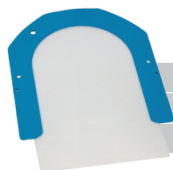
Slimline U-frame – Long

RT-1779SL	Aquaplast RT Slimline U-frame, 2.4 mm, Long
RT-1889SL	Aquaplast RT Slimline U-frame, 3.2 mm, Long
RT-1989SL	Aquaplast RT Slimline U-frame, 4.8 mm, Long



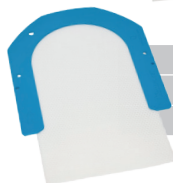
Traditional U-frame – Standard

RT-1779	Aquaplast RT U-frame, 2.4 mm, Standard
RT-1889	Aquaplast RT U-frame, 3.2 mm, Standard
RT-1989	Aquaplast RT U-frame, 4.8 mm, Standard



Traditional U-frame – Extended

RT-1779X	Aquaplast RT U-frame, 2.4 mm, Extended
RT-1889X	Aquaplast RT U-frame, 3.2 mm, Extended
RT-1989X	Aquaplast RT U-frame, 4.8 mm, Extended



Traditional U-frame – Long

RT-1779L	Aquaplast RT U-frame, 2.4 mm, Long
RT-1889L	Aquaplast RT U-frame, 3.2 mm, Long
RT-1989L	Aquaplast RT U-frame, 48 mm, Long



Slimline Split U-frame – Standard – 8 cm Gap

RT-1779S-S3	Aquaplast RT Slimline Split U-frame, 2.4 mm, Standard
RT-1889S-S3	Aquaplast RT Slimline Split U-frame, 3.2 mm, Standard



Slimline Split U-frame – 8 cm Gap, Extended

RT-1889SX-S3	Aquaplast RT Slimline Split U-frame, 3.2 mm, Extended
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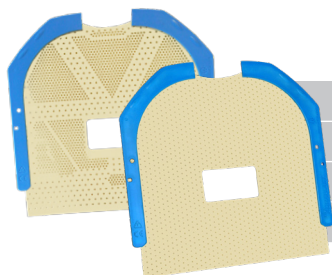


Slimline Split U-frame – 8 cm Gap, Long

RT-1889SL-S3	Aquaplast RT Slimline Split U-frame, 3.2 mm, Long
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U-frames

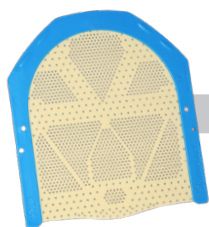
Assure™ Open View Series



Split U-frame

RT-1776KYSGXF	Fibreplast Split U-frame, 2.4 mm, Variable Perf, Extended Length
RT-1889KYSGLF	Fibreplast Split U-frame, 3.2 mm, Variable Perf, Long Length
RT-1776KSGXF	Fibreplast Split U-frame, 2.4 mm, Micro Perf, Extended Length
RT-1876KSGLF	Fibreplast Split U-frame, 3.2 mm, Micro Perf, Long Length

Fibreplast® Variable Perf™

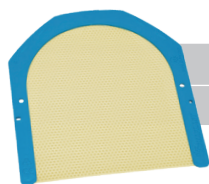


Slimline U-frame – Variable Perf™

RT-1889KYS	Fibreplast Slimline U-frame, 3.2 mm, Variable Perf
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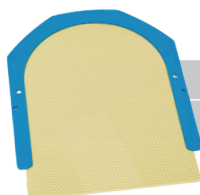
Fibreplast®

Slimline U-frame – Standard Length



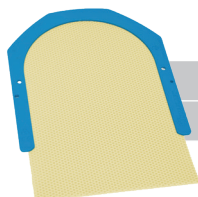
RT-1779KS	Fibreplast Slimline U-frame, 2.4 mm, Standard Perf
RT-1889KS	Fibreplast RT Slimline U-frame, 3.2 mm, Standard Perf

Slimline U-frame – Extended Length



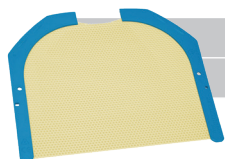
RT-1779KSX	Fibreplast Slimline U-frame, 2.4 mm, Standard Perf
RT-1889KSX	Fibreplast Slimline U-frame, 3.2 mm, Standard Perf

Slimline U-frame – Long Length



RT-1779KSL	Fibreplast Slimline U-frame, 2.4 mm, Standard Perf
RT-1889KSL	Fibreplast Slimline U-frame, 3.2 mm, Standard Perf

Slimline Split U-frame – 8 mm Gap – Standard Length



RT-1779KS-S3	Fibreplast Slimline Split U-frame, 2.4 mm, Standard Perf
RT-1889KS-S3	Fibreplast Slimline Split U-frame, 3.2 mm, Standard Perf

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