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.

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.

![Graph comparing stiffness of typical thermoplastic and Fibreplast](image-url)
### Which thermoplastic is right for my patient's treatment?

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

Silverman Head Supports and MOLDCARE® Cushions are also available at www.Qfix.com
Thermoplastic Styles

**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.

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.

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.

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.

**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.

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.
**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.

**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.

**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.

**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.

**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.

**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.

**Aquaplast RT™ Custom Bolus**

Ideal for the hard-to-bolus areas such as: chest wall, nose, partoid, 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.
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
Integrated Shim™ Offerings for Portrait S-frame

**Fibreplast® Variable Perf™**
- Portrait™ S-frame Head-Only with Integrated Shim™
  - RT-A889KYSDF 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-A892KYSDF 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-1776KYSDF: Fibreplast Head Only Split S-frame, 2.4 mm, Variable Perf, Extended
- RT-1876KYSDF: Fibreplast Head Only Split S-frame, 3.2 mm, Variable Perf, Long
- RT-1776KSDGF: Fibreplast Head Only Split S-frame, 2.4 mm, Micro Perf, Extended
- RT-1876KSDGF: 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-1889KYSDF: Fibreplast, Head Only S-frame, 3.2 mm, Variable Perf

**Head & Shoulder S-frame for Portrait™ – Variable Perf™**
- RT-1892KYSDF: Fibreplast, Head & Shoulder S-frame, 3.2 mm, Variable Perf

**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-1779KSDL: Fibreplast, Head Only S-frame, 2.4 mm, Standard Perf
- RT-1889KSDL: 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

**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

**Aquaplast RT™ Variable Perf™**
- Head Only Portrait™ S-frame – Standard
  - RT-1889YSD Aquaplast RT Variable Perf, Head Only Portrait S-frame, 3.2 mm

**Aquaplast RT™**
- Head & Shoulder 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 Only 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 & 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

**Slimline Split U-frame – 8 cm Gap, Long**

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

#### Assure™ Open View Series

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-1776KYGXF</td>
<td>Fibreplast Split U-frame, 2.4 mm, Variable Perf, Extended Length</td>
</tr>
<tr>
<td>RT-1889KYGSLF</td>
<td>Fibreplast Split U-frame, 3.2 mm, Variable Perf, Long Length</td>
</tr>
<tr>
<td>RT-1776KYGXF</td>
<td>Fibreplast Split U-frame, 2.4 mm, Micro Perf, Extended Length</td>
</tr>
<tr>
<td>RT-1876KYGSLF</td>
<td>Fibreplast Split U-frame, 3.2 mm, Micro Perf, Long Length</td>
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#### Fibreplast® Variable Perf™

<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>RT-1889KYS</td>
<td>Fibreplast Slimline U-frame, 3.2 mm, Variable Perf</td>
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#### Fibreplast®

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>RT-1779KS</td>
<td>Fibreplast Slimline U-frame, 2.4 mm, Standard Perf</td>
</tr>
<tr>
<td>RT-1889KS</td>
<td>Fibreplast Slimline U-frame, 3.2 mm, Standard Perf</td>
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</table>

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<tr>
<td>RT-1779KXS</td>
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<td>RT-1889KXS</td>
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<tbody>
<tr>
<td>RT-1779KSL</td>
<td>Fibreplast Slimline U-frame, 2.4 mm, Standard Perf</td>
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<tr>
<td>RT-1889KSL</td>
<td>Fibreplast Slimline U-frame, 3.2 mm, Standard Perf</td>
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</table>

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<tr>
<td>RT-1779KS-S3</td>
<td>Fibreplast Slimline Split U-frame, 2.4 mm, Standard Perf</td>
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<tr>
<td>RT-1889KS-S3</td>
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