

# Standard White Thermoplastics

## CIVCO Technical Data Sheet



Standard White Thermoplastics feature standard perforation, combination of perforation and solid thermoplastic bands and other unique patterns that offer a more open feel yet maintain rigidity and reproducibility. These thermoplastics are available in a variety of lengths and thicknesses and are compatible with Type-S™ or Uni-frame® Patient Positioning Systems. For a full list of available thermoplastic part numbers, please visit [www.civcort.com](http://www.civcort.com).

## Product Configuration

### IMRT Reinforced™

#### Type-S IMRT Reinforced Style 18

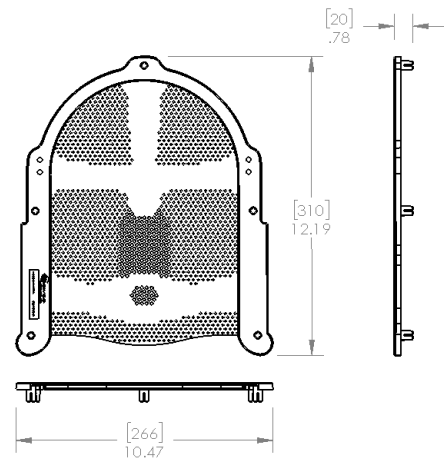
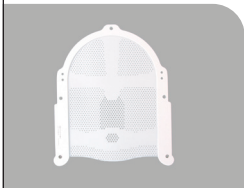
Head Only, 310 L x 266 W x 20 H (mm)

##### MTAPUID1824

2.4 mm thickness  
0.36 lbs (0.16 kg)

##### MTAPUID1832

3.2 mm thickness  
0.5 lbs (0.23 kg)



#### Type-S IMRT Reinforced Style 27

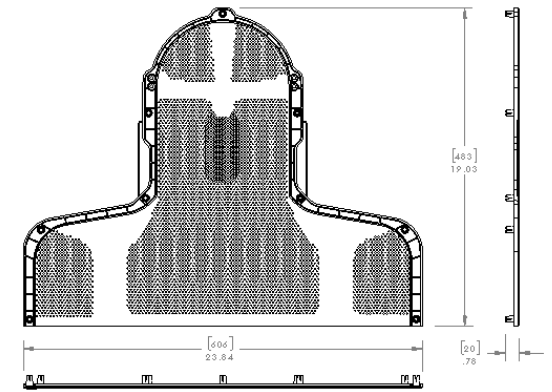
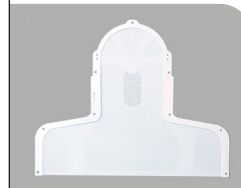
Head, Neck & Shoulders, 483 L x 606 W x 20 H (mm)

##### MTAPSID2724

2.4 mm thickness  
1.08 lbs (0.49 kg)

##### MTAPSID2732

3.2 mm thickness  
1.2 lbs (0.54 kg)



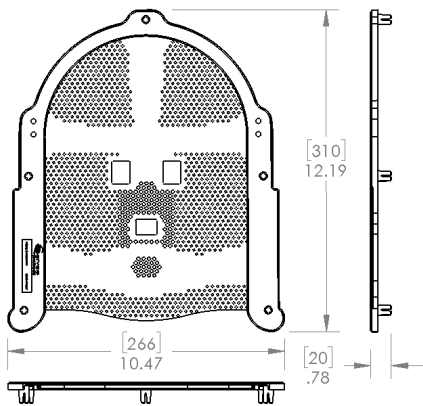
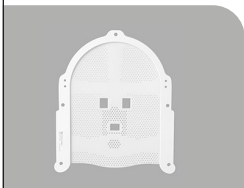
### FreedomView™

#### Type-S FreedomView IMRT Style 18

Head Only  
0.5 lbs (0.23 kg)  
310 L x 266 W x 20 H (mm)

##### MTAPUID1832CL

3.2 mm thickness

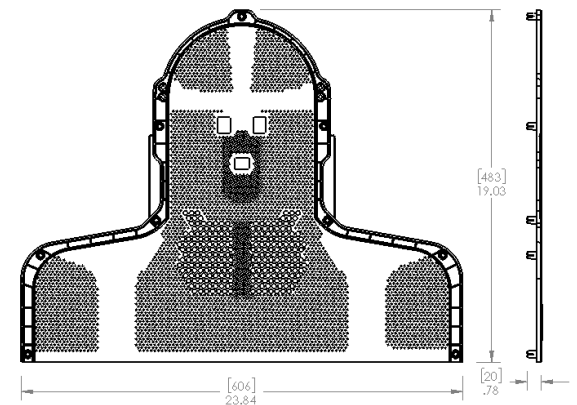
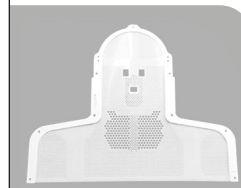


#### Type-S FreedomView IMRT Style 27

Head, Neck & Shoulders with Neck Relief  
1.3 lbs (0.59 kg)  
483 L x 606 W x 20 H (mm)

##### MTAPSID27NR32CL

3.2 mm thickness



# Product Configuration (cont'd)

## ClearVision™

### Type-S ClearVision

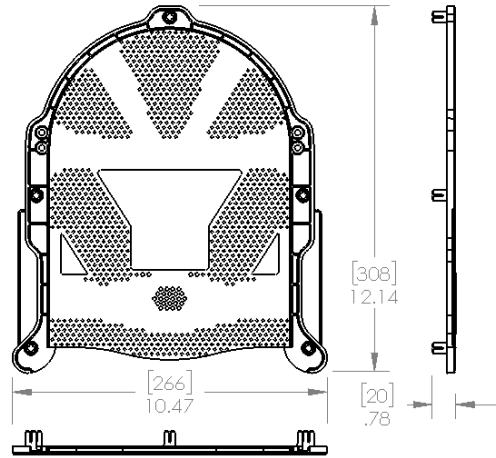
Head Only

0.5 lbs (0.23 kg)

308 L x 266 W x 20 H (mm)

### MTVRT20

3.2 mm thickness



## ClearVision 2

### Type-S ClearVision 2

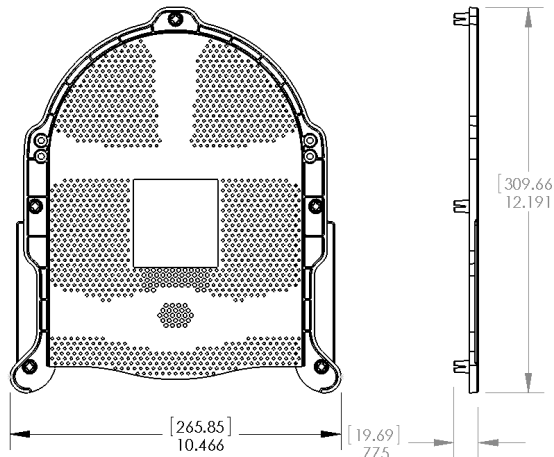
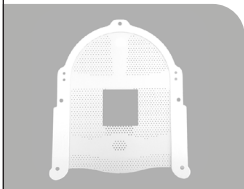
Head Only

0.5 lbs (0.23 kg)

310 L x 266 W x 20 H (mm)

### MTAPUID1832SG

3.2 mm thickness



### Type-S ClearVision 2

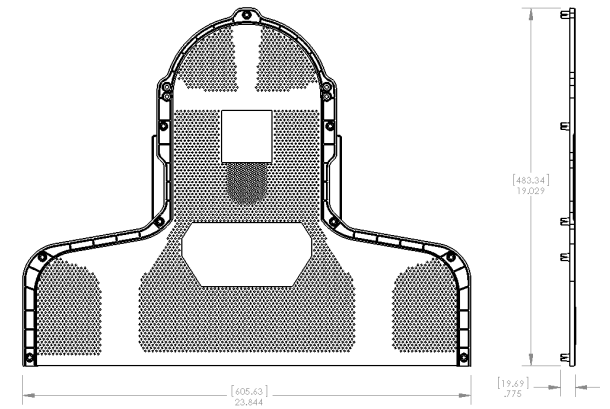
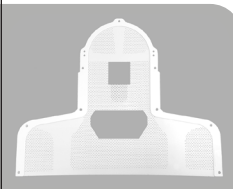
Head, Neck & Shoulders

1.4 lbs (0.63 kg)

483 L x 606 W x 20 H (mm)

### MTAPSID2732SG

3.2 mm thickness



# Product Configuration (cont'd)

## Standard Perforation

### Type-S Standard Perforation

Head Only

310 L x 266 W x 20 H (mm)

#### MTAPUD2.4

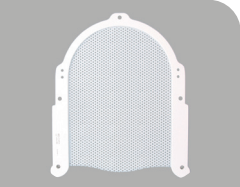
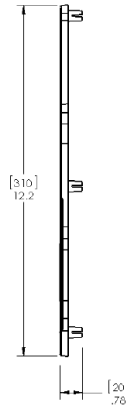
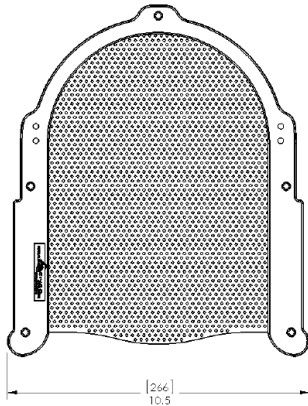
2.4 mm thickness

0.37 lbs (0.17 kg)

#### MTAPUD

3.2 mm thickness

0.45 lbs (0.20 kg)



### Type-S Standard Perforation

Head, Neck & Shoulders

483 L x 606 W x 20 H (mm)

#### MTAPSD2.4

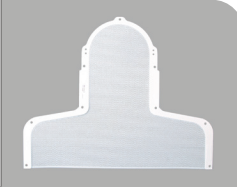
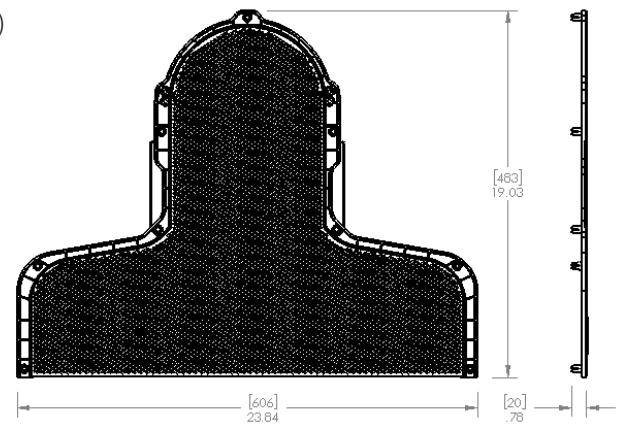
2.4 mm thickness

1.05 lbs (0.48 kg)

#### MTAPSD3.2

3.2 mm thickness

1.05 lbs (0.48 kg)



# Technical Details

	2.4 Standard Perforation		3.2 Standard Perforation		2.4 IMRT Reinforced		3.2 IMRT Reinforced (includes FreedomView™, ClearVision™ and ClearVision 2)	
<b>Primary Materials</b>	Polycaprolactone, White ABS		Polycaprolactone, White ABS		Polycaprolactone, White ABS		Polycaprolactone, White ABS	
<b>Attenuation (Unstretched Mask)**</b>	<b>6MV:</b> 0.53% <b>18MV:</b> 0.03%		<b>6MV:</b> 0.72% <b>18MV:</b> 0.12%		<b>6MV:</b> 0.81% (solid region) <b>18MV:</b> 0.21% (solid region)		<b>6MV:</b> 1.09% (solid region) <b>18MV:</b> 0.21% (solid region)	
<b>Thickness</b>	2.4 mm (.094)		3.2 mm (.125)		2.4 mm (.094)		3.2 mm (.125)	
<b>Perforation (surface)</b>	38% (Standard)		38% (Standard)		Varies (IMRT Pattern)		Varies (IMRT Pattern)	
<b>Density</b>	1.145 g/cm <sup>3</sup>		1.145 g/cm <sup>3</sup>		1.145 g/cm <sup>3</sup>		1.145 g/cm <sup>3</sup>	
<b>Surface feeling</b>	Smooth		Smooth		Smooth		Smooth	
<b>Color</b>	White		White		White		White	
<b>Odor</b>	None		None		None		None	
<b>Biocompatible</b>	Yes		Yes		Yes		Yes	
<b>Transparent when activated</b>	Yes		Yes		Yes		Yes	
	<b>Waterbath</b>	<b>Dry Heat Oven</b>	<b>Waterbath</b>	<b>Dry Heat Oven</b>	<b>Waterbath</b>	<b>Dry Heat Oven</b>	<b>Waterbath</b>	<b>Dry Heat Oven</b>
<b>Activation temperature</b>	75° C / 165° F	75° C / 165° F	75° C / 165° F	75° C / 165° F	75° C / 165° F	75° C / 165° F	75° C / 165° F	75° C / 165° F
<b>Activation time</b>	4 min (Head-only) 6 min (H, N & S)	4–7 min (Head-only) 4–8 min (H, N & S)	4 min (Head-only) 6 min (H, N & S)	4–7 min (Head-only) 4–8 min (H, N & S)	5 min (Head-only) 7–9 min (H, N & S)	8–11 min (Head-only and H, N & S)	5 min (Head-only) 7–9 min (H, N & S)	8–11 min (Head-only and H, N & S)
<b>Molding time (maximum)*<sup>a</sup></b>	1 min 15 sec	N/A	1 min 30 sec	N/A	1 min 30 sec	N/A	1 min 30 sec	N/A
<b>Hardening time*<sup>b</sup></b>	8 min 45 sec	N/A	8 min 30 sec	N/A	8 min 30 sec	N/A	8 min 30 sec	N/A
<b>Time to completion (minimum)*<sup>c</sup></b>	10 min	10 min	10 min	10 min	10 min	10 min	10 min	10 min

## Product Details

<b>Indications for use</b>	Head & Neck Immobilization
<b>Contraindications</b>	None
<b>MRI Compatible</b>	MR Safe
<b>Integration</b>	Connects to Universal Couchtop™ and Baseplates with Type-S™ or Uni-frame® connection
<b>FDA Clearance</b>	Yes
<b>CE Marked (EU DOC)</b>	Yes
<b>Other Country Registrations</b>	Available upon request
<b>Country of Manufacture</b>	USA

## Packaging Details

<b>Unit Pack</b>	1 Piece
<b>Units / Box</b>	5 Pieces
<b>Shelf Life</b>	N/A
<b>Warranty</b>	<a href="#">See CIVCORT website for Product Warranty Statement</a>
<b>Sterilization</b>	Non-Sterile

## Test Procedures used to Acquire Data

### Definitions\*

- Molding Time** - the time frame available from when the mask is removed from the waterbath to the time that the mask can no longer be molded or formed.
- Hardening Time** - the time between the molding and completion time where the mask should be cooling and hardening on its own without being manipulated or molded.
- Time to Completion** - the total time from when the mask is taken out of the waterbath or dry heat oven to when the mask can be removed from the patient.

### Attenuation Test Conditions\*\*

- 100 cm SAD
- 10 x 10 cm Field Size
- 6 MV Dmax = 1.5 cm  
18 MV Dmax = 3.0 cm

### Global Sales Office

Orange City, Iowa, USA  
800.842.8688 | +1 712.737.8688

info@CivcoRT.com  
www.CivcoRT.com

