

Solstice™ SRS Immobilization System

TECH DATA SHEET

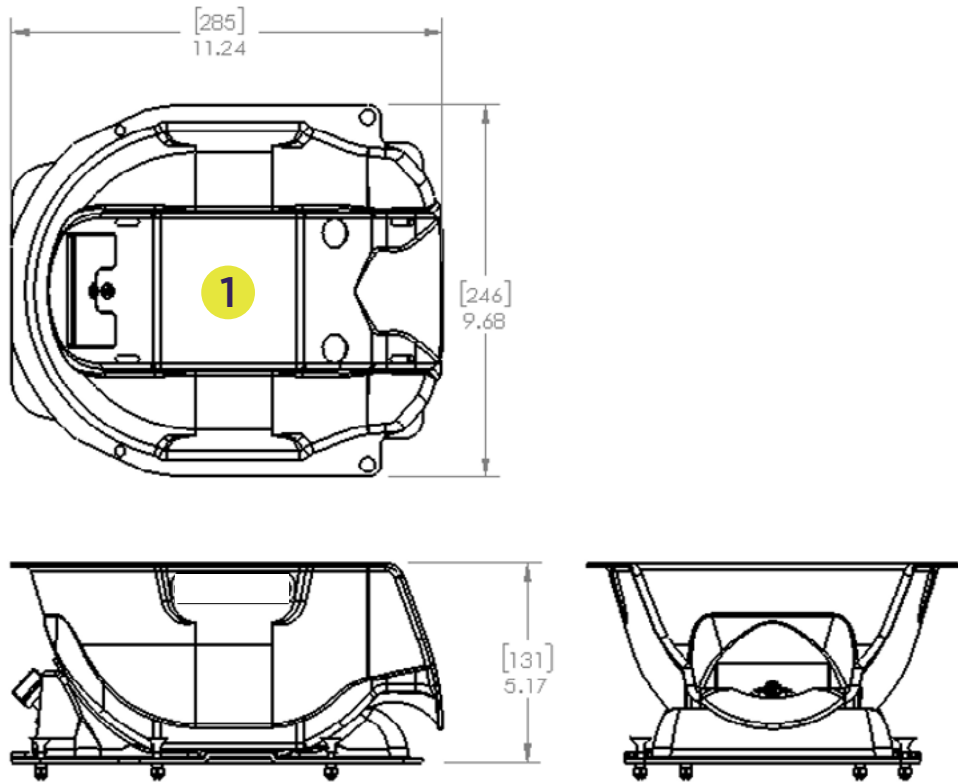


PRODUCT NAME	Solstice SRS Immobilization System
PRODUCT NUMBER	CHS03 Solstice, Posifix® CHS04 Solstice, Type-S™
KITS THAT INCLUDE THIS PRODUCT	CHS03SGK, CHS04SGK, CHS03K, CHS04K
GENERAL DESCRIPTION	The Solstice system provides unique corrective pitch capability and positioning flexibility. The system is comprised of a carbon fiber head support, customizable cushion and dedicated thermoplastic that create a highly customizable and comfortable head and neck immobilization system for precise treatment to improve patient outcomes.
INDICATIONS FOR USE	Solstice SRS with AccuForm™ The device is indicated to position and/or immobilize adult and pediatric patients undergoing radiation therapy of the head, brain, and neck, including Stereotactic Radiosurgery (SRS), Stereotactic Radiotherapy (SRT), Surface Guided Radiation Therapy (SGRT) and electron, photon, and proton treatments. The device is also used during image acquisition, including Computed Tomography (CT), to support treatment planning. Solstice SRS with Headrest The device is indicated to position and/or immobilize adult and pediatric patients undergoing radiation therapy of the head, brain, and neck, including Surface Guided Radiation Therapy (SGRT) and electron, photon, and proton treatments. The device is also used during image acquisition, including Computed Tomography (CT), to support treatment planning.
INTEGRATION	For use with Posifix or Type-S extensions, baseplates and overlays
FDA CLEARANCE	Yes
CE MARKED (EU DOC)	Yes
OTHER COUNTRY REGISTRATIONS	Available upon request
COUNTRY OF MANUFACTURE	USA

TECHNICAL DETAILS

PRODUCT NAME	CHS03			
PRODUCT NUMBER	Solstice, Posifix			
PRIMARY MATERIALS	Bowl: Carbon Fiber Base: Kydex-T			
WEIGHT (APPROX)	1.5 lbs (0.68 kg)			
DIMENSIONS (MM)	285 L x 246 W x 131 H (max)			
DOSIMETRIC PROPERTIES	LOCATION	FIELD SIZE	ATTENUATION 6 MV	ATTENUATION 18 MV
	1-Bottom of bowl base	8 cm x 8 cm	1.64%	1.08%
	Performance Specifications are for reference only, values may vary based on setup and equipment.			

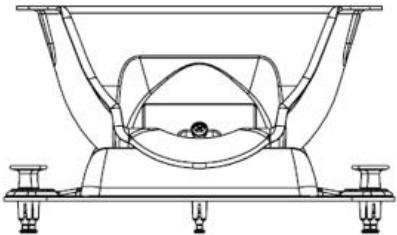
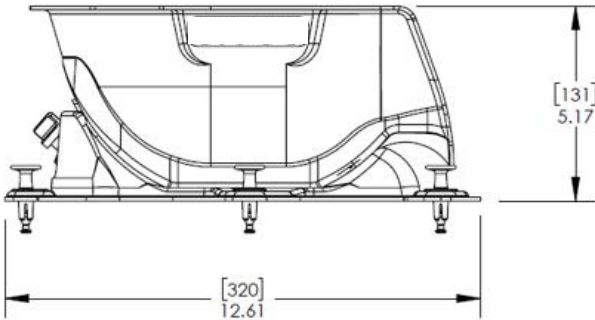
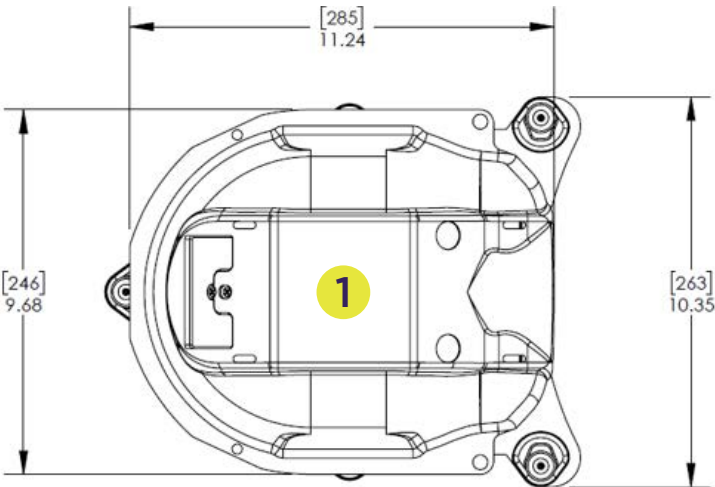
TECHNICAL DRAWING



TECHNICAL DETAILS

PRODUCT NAME	CHS04			
PRODUCT NUMBER	Solstice, Type-S			
PRIMARY MATERIALS	Bowl: Carbon Fiber Base: Kydex-T			
WEIGHT (APPROX)	1.5 lbs (0.68 kg)			
DIMENSIONS (MM)	320 L x 263 W x 131 H (max)			
DOSIMETRIC PROPERTIES	LOCATION	FIELD SIZE	ATTENUATION 6 MV	ATTENUATION 18 MV
	1-Bottom of bowl base	8 cm x 8 cm	1.64%	1.08%
	Performance Specifications are for reference only, values may vary based on setup and equipment.			

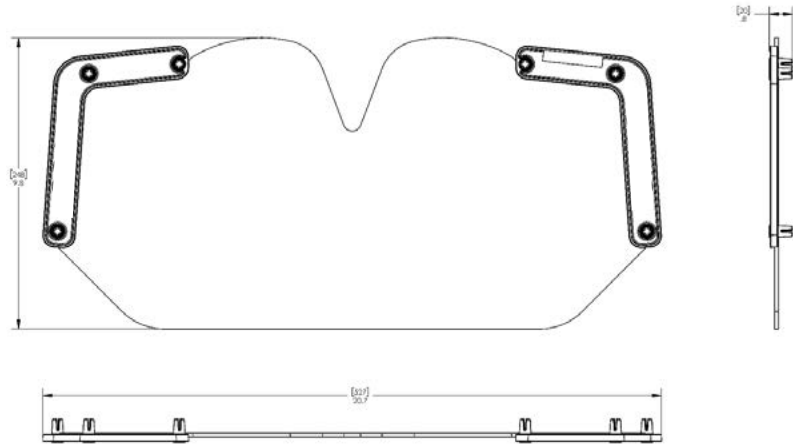
TECHNICAL DRAWING



TECHNICAL DETAILS

PRODUCT NAME	Shoulder Thermoplastic, Aquaplast RT Solid, Type-S
PRODUCT NUMBER	MTAPSSTS
PRIMARY MATERIALS	Polycaprolactone, Polycarbonate, Delrin
WEIGHT (APPROX)	0.46 kg/ 1.02 lbs
DIMENSIONS (MM)	248 L x 527 W x 20 H

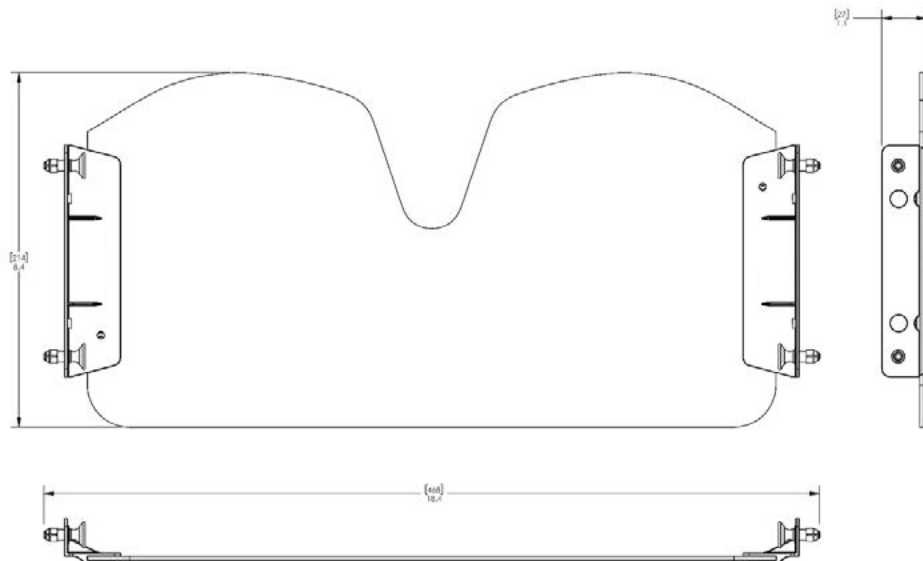
TECHNICAL DRAWING



TECHNICAL DETAILS

PRODUCT NAME	Shoulder Thermoplastic, Aquaplast RT Solid, Posifix
PRODUCT NUMBER	MTAPSSPF
PRIMARY MATERIALS	ABS - Black, Polycaprolactone, Polycarbonate, Nylon
WEIGHT (APPROX)	0.29 kg/ 0.65 lbs
DIMENSIONS (MM)	214 L x 468 W x 27 H

TECHNICAL DRAWING



AQUAPLAST RT™ IMRT REINFORCED™ STYLE 18

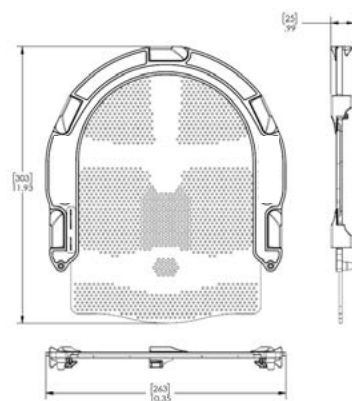
Standard Frame

Head Only, 303 L x 263 W x 25 H (mm)

MTAPCID1832

3.2 mm thickness

0.5 lbs (0.23 kg)



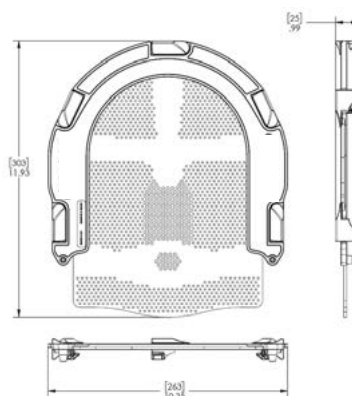
Narrow

Head Only, 303 L x 263 W x 25 H (mm)

MTAPCIN1832

3.2 mm thickness

0.5 lbs (0.23 kg)



AQUAPLAST RT CLEARVISION™

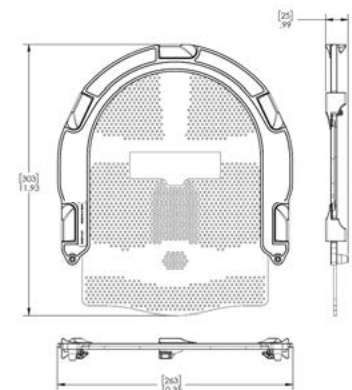
Standard Frame

Head Only, 303 L x 263 W x 25 H (mm)

MTAPCID1832SG

3.2 mm thickness

0.5 lbs (0.23 kg)



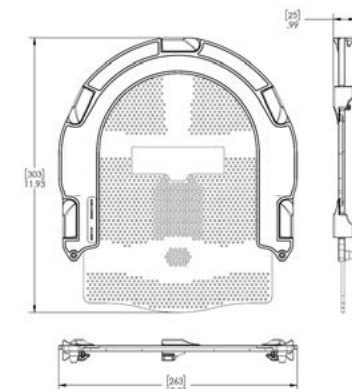
Narrow

Head Only, 303 L x 263 W x 25 H (mm)

MTAPCIN1832SG

3.2 mm thickness

0.5 lbs (0.23 kg)



TECHNICAL DETAILS

3.2 IMRT REINFORCED, CLEARVISION

PRIMARY MATERIALS	Polycaprolactone, Polycarbonate	
ATTENUATION (UNSTRETCHED MASK)**	SOLID REGIONS: 6MV: 1.03% 18MV: 0.21%	
THICKNESS	3.2 mm (.125)	
PERFORATION (SURFACE)	Varies (IMRT Pattern)	
DENSITY	1.145 g/cm ³	
SURFACE FEELING	Smooth	
COLOR	White	
ODOR	None	
BIOCOMPATIBLE	Yes	
TRANSPARENT WHEN ACTIVATED	Yes	
	WATERBATH	DRY HEAT OVEN*
ACTIVATION TEMPERATURE	75° C / 165° F	75° C / 165° F
ACTIVATION TIME, HEAD-ONLY	5 min	8-11 min
ACTIVATION TIME, SHOULDER	7-9 min	8-11 min
MOLDING TIME (MAXIMUM)*A	1 min 30 sec	N/A
HARDENING TIME*B	8 min 30 sec	N/A
TIME TO COMPLETION (MINIMUM)*C	10 min	10 min

*NOTE: Temperatures and times for dry heat oven may vary depending on model

TEST PROCEDURES USED TO ACQUIRE DATA

Definitions*

- A 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.
- B 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.
- C 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**

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

PACKAGING

UNIT PACK	Each
UNITS / BOX	One
SHELF LIFE	n/a
WARRANTY	See CQ Medical website for Product Warranty Statement
STERILIZATION	Non-Sterile
LAUNCH DATE	September 2018

ACCESSORIES

SYSTEM CUSTOMIZATION	Thermoplastic MTAPCID1832 Solstice Thermoplastic IMRT Reinforced Style 18 MTAPCIN1832 Solstice Thermoplastic IMRT Reinforced Style 18, Narrow MTAPCID1832SG Solstice Thermoplastic ClearVision MTAPCIN1832SG Solstice Thermoplastic ClearVision, Narrow AccuForm Cushions MTACL2035 20 x 35 cm Chamfered MTACL2035HF 20 x 35 cm Chamfered Half Fill Headrests CHS40K Headrest Kit (includes B,C & F), Qty 3 CHS40 Headrest B, Qty 1 CHS41 Headrest C, Qty 1 CHS42 Headrest F, Qty 1 Precise Bite™ MTCBPBITE Standard, Qty 5 MTCBPBITES Small, Qty 5 MTCBPBITETD Standard with Tongue Depressor, Qty 5 MTCBPBITETDS Small with Tongue Depressor, Qty 5
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