


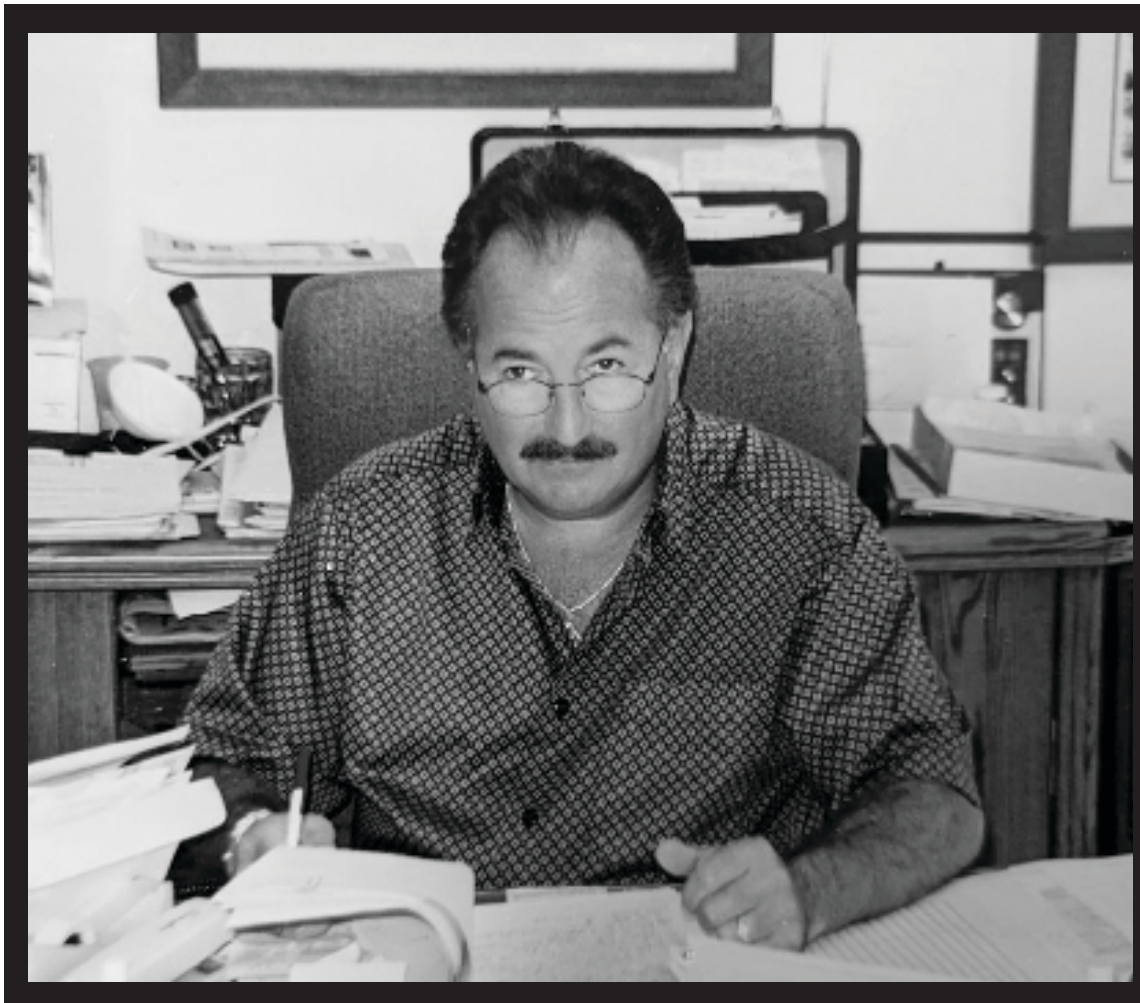
# PROTECH MEDICAL

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Radiation Safety  
Product Catalog



2024



IN LOVING MEMORY

# RON PARASMO

Sept. 1, 1953 - Jan. 22, 2022

We are deeply saddened by the passing of Protech's founder, Ron ParasmO. While reminding us not to take life too seriously, he inspired us through his generosity, passion and gifts of laughter. He will be greatly missed.



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WE ARE A FAMILY JUST LIKE YOURS.  
COMMITTED TO **MANUFACTURING IN THE USA**  
AND SOURCING LOCALLY.

Protech is a family-owned and operated manufacturer of high-quality radiation protective apparel in South Florida. We continue to innovate stylish and light-weight products all while maintaining our commitment to quality. Protech's customer-driven focus is backed by a comprehensive product portfolio and world-class customer service.

Thanks to your support, this small family business has become a global leader in radiation safety.

Our Italian heritage means one thing: it doesn't matter if you were born into our family, your support is all that matters. When you wear our product, you support many Protech families just like yours.

Together, we are family.

## OUR **MISSION** STATEMENT

Our mission is to keep you safe by reducing your exposure to ionizing radiation and its harmful effects while offering innovative, lightweight and stylish solutions. The Protech team is a dedicated group of professionals that takes great pride in its work.

Our entire team understands the importance of the products we manufacture and how they contribute to your wellbeing. By focusing on our core principles (Quality, Integrity and Service) we are able to offer high-quality, more protective products.

**Protech's passion is, and will always be, your safety.**







## WE ALL HAVE TO START SOMEWHERE. OUR SOMEWHERE BEGAN IN **1986**, WITH RON & LEADED EYEWEAR.

In 1986, Ronald Parasmio, a licensed optician in the state of Florida, was approached with an unusual request to repair leaded eyewear. The glasses belonged to a doctor and were used as protection against ionizing radiation. Ron quickly found the required materials to fix the eyewear and the gentleman who sent Ron the eyewear was so impressed with the quality of his work that he began referring additional jobs.

As repairs on lead glasses grew, Ron launched his own line of radiation protective eyewear and in 1994, Protech Leaded Eyewear was incorporated. In 1997, Protech developed one of the most popular gloves on the market today; the FDA 510k approved ProGuard radiation reducing gloves for fluoroscopic procedures.

In the early 2000s, with the success of gloves and eyewear inspiring further growth, Protech set out on a mission to become the one-stop-shop for radiation protection apparel by introducing its own line of high quality, light weight aprons. Through the efforts of many great employees, the apron business took root and Protech completed its transition from market disruptor to a mature, full-scale radiation apparel manufacturer.

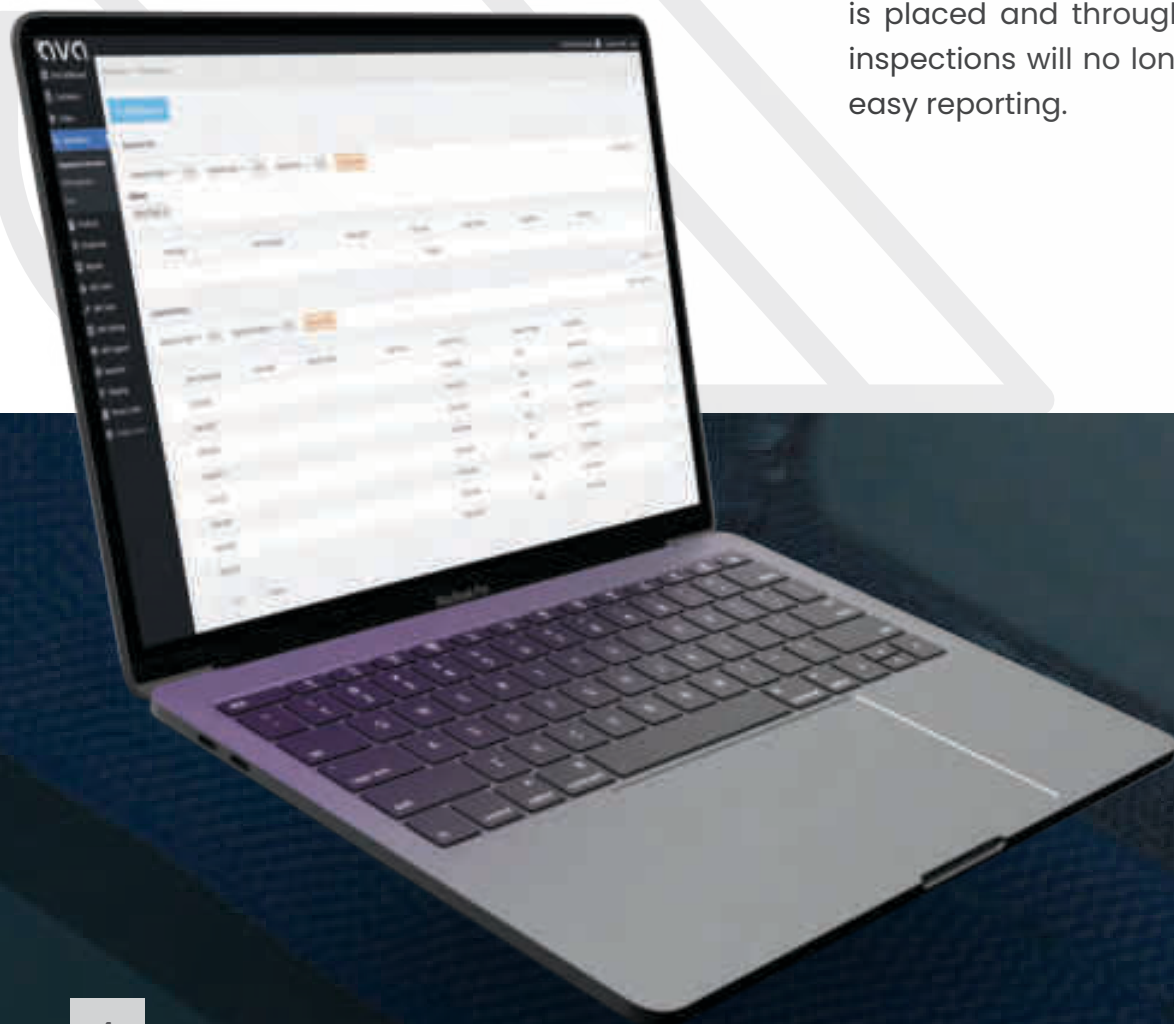
In 2014, Ron's son Jarrod joined Protech's team to modernize and revitalize the business with the introduction of new products and technologies. Joining Jarrod in 2016 was his longtime partner, Rachael. Together, Rachael and Jarrod have continued Protech's proud tradition of innovation and expanded the Protech family into over 50 countries.

Today, Protech is one of the most recognized manufacturers of radiation safety products in the world; known for its quality, service, and integrity.



## Cloud based inventory management tracking

Protech introduces AVA: The intelligent way to manage and inspect your apparel as well as critical inventory items. AVA is an enterprise level software designed to scale for your organizational needs with flexibility and efficiency. AVA offers RFID capabilities that enable you to quickly scan and inspect multiple garments at the same time. Your inventory items will be managed from the minute your order is placed and throughout their life cycle. Passing The Joint Commission (TJC) inspections will no longer be a burden with Ava's cloud based functionality and easy reporting.



### Subscription Options

	Basic Subscription	Enterprise subscription
Annual Cost	Free	Variable
Departments & Users	Limited	Unlimited
Multi-user Roles	✓	✓
Inspections & Inventory Reports	✓	✓
Multi-Facility Management	✓	✓
RFID Group Scan Inspections	-	✓
Migrations Services	-	✓
Technical Support	-	✓
Notification Settings	Limited	Advanced

**Free to use and no setup fees  
or contracts required!**



### RFID Inlay

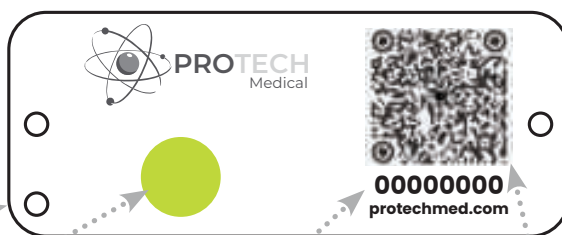
Where all the magic happens! Use your RFID Reader to bulk scan and inspect garments.

Optional Hole for Color Rings

### Velcro Color Indicator

A simple to use annual color indicator representing the year your garment was inspected.

## The Smart Tag



### Unique Garment ID

Every Smart Tag ID is unique. This number is a simple visual reference.

### QR Code

Scan the QR code with any device to quickly view your garment's info!

## RFID Reader

(Your Magic Wand)



Scan all of these aprons in seconds with your RFID reader!



## How to Retrofit



## Retrofitting Your Aprons

Didn't purchase your apron with Protech? Not to worry. AVA works with or without AVA's Smart Tags and can utilize old ID tags. However, Retrofitting your apron with an AVA Smart Tag is easy! We supply everything you need.

**Step 1:** Use the provided hole punch [1] to punch holes in the desired Smart Tag location on your apron.

**Step 2:** Thread male rivets [2a] through the newly punched holes and add Smart Tag [3] on the other side.

**Step 3:** Place female rivets [2b] on side with Smart Tag and close with Crimper [4].



# AVA Basic Subscription Features

AVA Basic Subscription is FREE to use



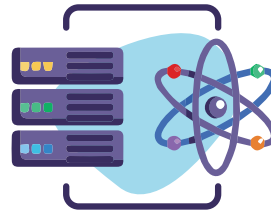
## MULTI-FACILITY ADMIN MANAGER

AVA's distinctive admin management system empowers you to scale and manage numerous hospital facilities, departments, and users together with 1 simple login.



## GROUP INSPECTION AND EDITING

Simplify inventory and inspection management with AVA's group editing features which allow you to record inspection results for large groups of aprons at one time.



## IT FRIENDLY

AVA's hassle free platform operates independently from your hospital's network, streamlining the implementation process.



## INVENTORY MANAGEMENT

Keep track of all your inventory items (whether we made them or not) in one convenient location. AVA streamlines data entry and improves reporting accuracy.



## SIMPLE INVENTORY MIGRATION

AVA is an open platform and can manage all vendors' garments. Use our bulk upload tools for easy inventory migration. You may use AVA without the need to re-tag your aprons!



## ACCESSIBLE FROM ANY DEVICE

AVA is a cloud-based solution that puts you in the driver's seat. As long as you have internet and a device (phone, computer, tablet etc), you have access to AVA.

## BACKED BY INDUSTRY LEADERS

"We were a part of AVA's initial development team. It was amazing seeing our recommendations being added to the software almost immediately. AVA's use of RFID technology vastly improved our inspection process and their reports made passing The Joint Commission inspections as simple as a push of a button."

--- Central Main Medical Center

"At first, AVA appeared to be overwhelming, but Jarrod helped us every step of the way. Whenever there was an issue, a brief call to AVA's professional team quickly helped resolve it. Thanks to AVA, managing our inventory is easy, and inspections are even easier."

--- Central Florida Regional Hospital

We wanted a software that could help manage apron inventory and improve inspection accuracy. We felt that the free softwares and apps were inadequate. Some of them even required employees to use their own personal devices. AVA was the only true enterprise software that delivered on what we were looking for."

--- Stamford Hospital

## BACKED BY INDUSTRY LEADERS

We have 1,000's of aprons to inspect on a tight budget and with limited time. Our old inspection software simply wasn't up to task. AVA's responsive staff imported our aprons in time for inspection and have ensured a smooth transition.

--- Lahey Hospital and Medical Center

We decided on AVA because of its emphasis on inventory management, not just inspections. AVA's intuitive software made learning it a breeze. We were able to quickly retrofit our existing aprons and take control of our inventory challenges.

-- Huntington Hospital

"Our existing tracking software was insufficient for our needs. AVA's time-saving features became apparent right away. Their RFID technology was great for scanning groups of aprons and the group inspections integrated perfectly into that process. We are happy with the software and look forward to AVA's many new innovations to come."

-- Northshore Medical

# AVA Premium Subscription Features

In addition to Basic features



## RFID TECHNOLOGY FOR RANGED SCANS

Use AVA's unique ranged RFID scanning technology to bulk scan & inspect garments (even through a locker).



## MANAGED INVENTORY MIGRATION

Enjoy peace of mind knowing Ava's professional team will assist with inventory migration from your existing service to the AVA Cloud!



## CUSTOM ITEM GROUPS

Embrace the freedom to create custom inventory groups which can meet a wide range of organizational and procedural needs.



## ORDER TRACKING

AVA's unique order management tools empower you with deep insight into the production of your aprons and when they will arrive to you.



## UNLIMITED DEPARTMENTS & USERS

Utilize the power of unlimited to scale your organization and meet any challenge.



## ADVANCED REPORTS

Generate custom reports for you and The Joint Commission. Can't find the report you're looking for? Our support team will gladly create it for you.

# 01

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**Lead Garments** are worn by healthcare professionals to protect them from the harmful effects of x-ray radiation during procedures requiring the use of x-ray and fluoroscopy. Lead aprons are usually worn in combination with other radiation protective products to provide complete protection from x-ray exposure.

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# APRONS

QUALITY. SERVICE. INTEGRITY.

Protech's aprons are proudly hand-stitched in the USA with one collective mission: perfection. Our light-weight designs and ergonomic styles are the result of decades of manufacturing experience. Seamless finishes, clean stitching, and elegant curves are what make our aprons best-in-industry.

Fulfilling our commitment to high quality, our Proguard Aprons are made in the USA from locally sourced materials whenever possible. Protech follows the strict guidelines of the ISO Quality Management System and is approved to sell in major markets throughout the world.

# MANUFACTURER

## FDA LISTING

**OWNER/OPERATOR #:** 10025412

**FDA LISTING NUMBER:** D048258

**PRODUCT CODE:** IWO

**DEVICE CLASS:** #1

**REGULATION #:** 892.6500

**OSHA REGULATION:** 1910.1096

## QUALITY SYSTEM

**ISO 9001:2015**

**EU 2016/425, MODULE D, B**

**CE**  
**2895**

**UK**  
**CA**  
**0338**



# COMPLIANCE

Protech has expertly crafted radiation protective garments for over 20 years. Our extensive product knowledge incorporates high-quality control systems as well as comprehensive regulatory testing.



**ISO**  
**9001:2015**

**EN 61331-1:2014: (EU)** Protective devices against Diagnostic Medical X-ray radiation. (Determination of attenuation properties of material)

**EN 61331-3:2014: (EU)** Protective devices against diagnostic medical X-radiation Part 3: Protective clothing, Eyewear and Protective Patient shields.

**ASTM 2547-18: (USA)** Standard test method for determining the attenuation properties in a primary x-ray beam of materials used against radiation.



# 2 YEAR WARRANTY

Protech's high quality garments ("Garments", aka PPE or Aprons) include; aprons, thyroid collars, gloves, dental aprons, reproductive aprons, and lead accessories. The Garments are warrantied to be free of defects in materials and workmanship to the original purchaser for 2 years.

Upon evaluation, Protech will either repair or replace the defective item or part without charge to the purchaser. This warranty is void when the product has been tampered with, when repairs or attempted repairs have been made by unauthorized persons, or when the item has been subject to misuse, abuse or damage in transit. No charges will be accepted or reimbursed for unauthorized parts, repairs or services.

## APRON RETURNS, REPAIRS AND DISPOSAL

Please contact your local representative for return instructions. All returns, repairs, recoveries, or exchanges, regardless of reason, must be accompanied by an authorized RMA. Customer should make available the Purchase Order # or relevant sales information.

For disposals, You must dispose of lead garments by complying with local, state, federal and/or international regulations where applicable.



# TAKING CARE OF YOUR APRON

It is important to establish a consistent, deep-cleaning schedule to mitigate the risk of pathogen transmission. Please clean the apron immediately **after each use**. You can clean most dirt and stains (blood, bodily fluids, barium contrast media) using room temperature water along with the following cleaning solutions: mild diluted soap, alcohol or ammonium-based wipes, and highly diluted Clorox hydrogen peroxide (not recommended for long term use as it results in degradation over time). To apply cleaning fluid, please use a cloth or wipe and always use room temperature water.

**Please Note: If you're dealing with biohazardous materials, we recommend using an additional barrier (such as SMS gowns) to protect the apron.**



## Examples of Approved Cleaners

- PDI Sani-Cloth® AF3 Germicidal Disposable Wipes
- PDI Super Sani-Cloth® Germicidal Disposable Wipes
- CaviCide® wipes
- Alcohol and Ammonium based cleaners are strongly recommended
- Sodium Hypochlorite (bleach) cleaners, while acceptable, result in minor degradation over time



## DO NOT

- Do not machine wash or dry your apron
- Do not use hot or warm water
- Do not iron or autoclave



# STORAGE

When not in use, garments should be placed on a hanger or stored using Protech's apron storage equipment. Best places to store your apron: Valet racks, peg racks, apron hangers and closets. If a hanger is not available, lay flat on a surface. For transportation, garments should be carefully rolled up, not folded, and placed into a box or Protech duffle bag.

**All of our apron storage options can be found at the end of the apron section.**

Please do not fold the aprons for an extended period of time as this will increase the chances of the inner material creasing or cracking. Also, avoid contact with sharp objects since they may damage the garment's protective core material. Keep garment out of direct sunlight or prolonged exposure to high heat. Store at 70-80°F (21-27°C). Temperature limits approximately 60-100°F (16-38°C).



AVA's enterprise level technology can save you time and money by helping you effectively manage your inventory and annual inspections. For more information, refer to pages 4-7.



# APRON ORDERING GUIDE

## 1 STEP 1: CHOOSE YOUR APRON STYLE

***We offer two types of aprons: Frontal and Full Protection.***

As their names suggest, a Frontal apron only protects the front of your body, while a Full Protection apron offers both front, lateral, and back protection.

For a **lighter weight apron**, choose a Frontal style. Our most popular frontal apron is the Flexback apron but you can view all of our styles beginning on page 35.

For **greater protection**, choose a Full Protection apron. We recommend the Proguard Balance Vest and Skirt, which offers a balance of protection and comfort.

**Other important factors that should be considered in choosing your apron style:** procedure type, duration, body type and personal needs.





## FRONTAL APRONS

Frontal aprons only have protection in the front but are far more forgiving than full protection aprons. They contain less protective material, so they tend to be **lighter and more flexible** than full protection aprons. They are a fantastic option for **short procedures where risk of lateral exposure is low** or when a garment is required but you are not nearby the beam (over 6 feet or in another room).. If you're looking for a reliable, lightweight frontal apron we **recommend the Flexback** style as a clear customer favorite.



## WRAPAROUND APRONS

Our Wraparound full protection apron styles provide **maximum protection** from the front to the back and are **excellent for long procedures with high exposure**. They do contain more protective material and tend to be **heavier than frontal aprons**. Compared to other full protection styles (Vest Skirts), Wraparounds are usually **easier to don but do concentrate weight on the shoulders**. As a full protection apron, a **proper fit is crucial** for weight distribution and comfort. We offer a wide variety of customizations and add-ons to make your wraparound apron fit perfectly.



## VEST SKIRT APRONS

Vest Skirt Aprons are best suited for those wanting **maximum protection during prolonged procedures with lateral/back exposure**. While they contain more protective material due to overlapping between the vest and skirt, they **eliminate up to 50% of the weight burden on the shoulders and provide more maneuverability**. Our wide variety of Vest styles can be tailored according to your needs and are optimized to reduce weight by up to 15%. A **proper fit is critical** to ensure optimum protection, comfort, and longevity. Check out our customizations and add-ons to build your perfect apron.

# 2

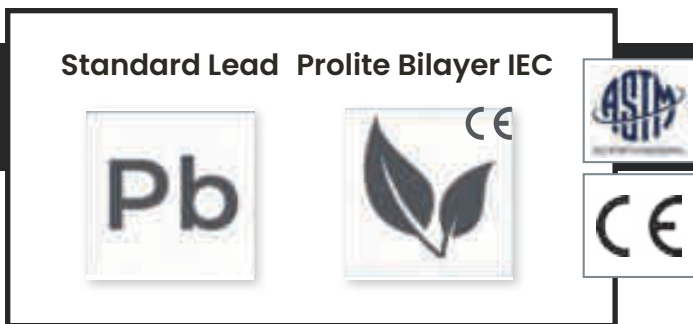
## STEP 2:

### CHOOSE YOUR CORE MATERIAL & THICKNESS

Each core material varies in composition, weight and level of protection. Higher core material thicknesses result in more protection but also increase weight. The protection thickness of your garment, expressed as lead equivalence (LE), should be determined by your duration of exposure to x-ray and the intensity of the beam. The most critical factor is duration. For short, simple procedures utilizing lower kV beam intensities, 0.35mm LE may be suitable. Whereas 0.50mm LE should be used during long procedures regardless of beam intensity.

Protech's thickness options are 0.25, 0.35, and 0.50mm LE with .50mm\* and .35mm\* LE being the most popular. We offer additional options upon request such as .75mm and 1.00mm. **Standard protection for lead garments is 0.50mm in the front and 0.25mm in the back.** For other product types such as dental aprons and some lead accessories, standard lead equivalences may vary.

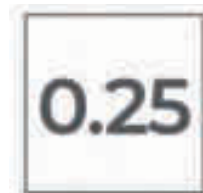
#### ASTM & IEC CERTIFIED



#### ASTM CERTIFIED

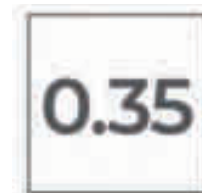


#### CORE MATERIAL THICKNESS OPTIONS



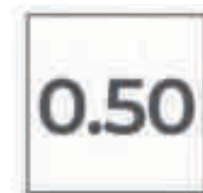
##### Lightest

Attenuates from  
86-91% @ 90kV



##### Optimal

Attenuates approx.  
94% @ 90kV



##### Standard

Attenuates approx.  
97% @ 90kV

\*Please be advised that some state or country requirements may be specific about what thicknesses are permitted.





3

## STEP 3:

### CHOOSE YOUR FABRIC COLORS

You will need to choose colors for the exterior, interior and binding thread of your apron. Need a fabric that performs? Consider our anti-microbial, Satinguard fabrics for an easy-to-clean option. You can view our fabric color options on pages 76-81.

*If you have your own fabric that you'd like to use, we can accommodate! Just take a look at this Louis Vuitton apron; a special request by one of our customers.*



4

## STEP 4:

### CHOOSE CUSTOMIZATIONS

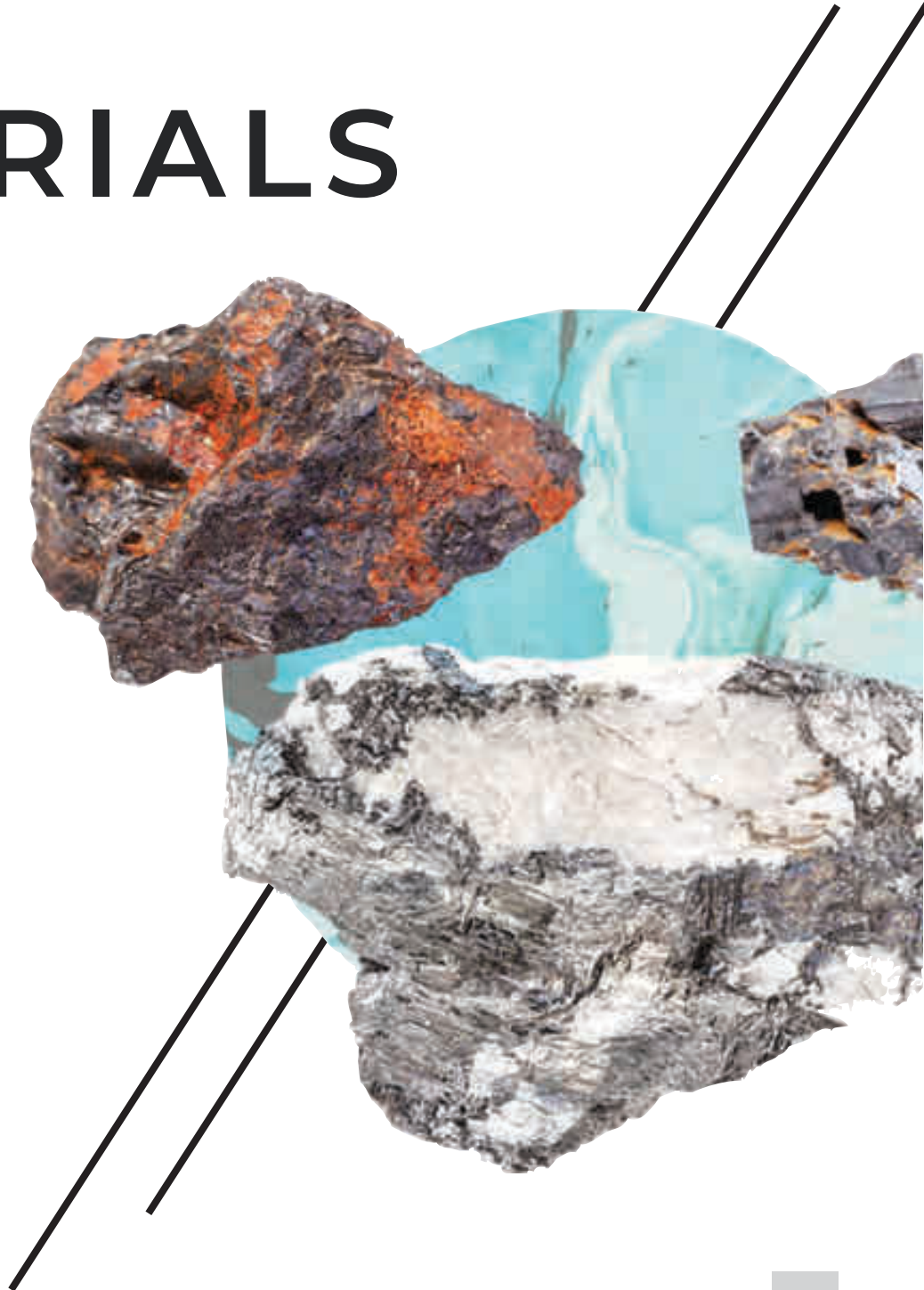
Depending on your apron style, you'll have a variety of customization options to choose from. Some examples: Embroidery, axillary wings, logos, extra pockets, etc.

# CORE MATERIALS

**Knowing what's inside your apron is as important as how that apron claims to protect you. So here comes the boring (but oh so necessary) part.**

Diagnostic imaging exposes personnel most prominently to x-ray energy in the 50 – 150kV range. Each metal used in your product to block x-ray provides specialized protection at certain kVs. Lead(Pb) has become the industry standard for radiation protection because it efficiently protects across the entire kV range (50kV – 150kV). The catch? It's heavy and toxic to the environment. Other common metals used for radiation protection are: Antimony, Barium, Cerium, Tungsten and Bismuth. The problem is, they protect at specific ranges. Antimony (Sb) and barium (Ba) provide more efficient attenuation of the photon spectrum below the K-edge window of lead (35 – 90kV), while higher Z elements like tungsten (W) and bismuth (Bi) are more efficient for stopping higher energy radiation (>90 kV).

Each Proguard core material is carefully formulated to more efficiently attenuate portions of the photon spectrum and limit "gaps" in protection due to over-reliance on individual x-ray protective elements. Protech utilizes proper elemental balance to address k-edge concerns for key diagnostic imaging ranges. Protech's advanced elastomers exhibit the best balance of toughness, flexibility, durability and cracking resistance.

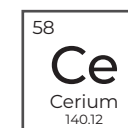


# CHOOSE YOUR CORE MATERIAL



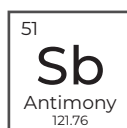
## PROLITE

- **Weight:** 2850 gsm (0.25mm) 19% lighter than lead
- **Key Components:** Cerium and Plasticizers
- **Optimal kV Range:** 80–110kV
- **Certifications:** ASTM Certified



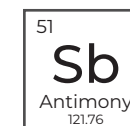
## PREMIER

- **Weight:** 2600 gsm (0.25mm), 26% lighter than lead
- **Key Components:** Antimony and Plasticizers
- **Optimal kV Range:** 70–110kV
- **Certifications:** ASTM Certified

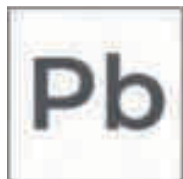


## NANO

- **Weight:** 2300 gsm (0.25mm), 34% lighter than lead
- **Key Components:** Antimony and Plasticizers
- **Optimal kV Range:** 80–100kV
- **Certifications:** ASTM Certified

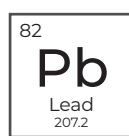






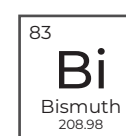
## STANDARD LEAD

- **Weight:** 3500 gsm (0.25mm)
- **Key Components:** Lead and Plasticizers
- **Optimal kV Range:** 50-150kV
- **Certifications:** ASTM & IEC Certified



## PROLITE BILAYER IEC

- **Weight:** 3000 gsm (0.25mm) 14% lighter than lead
- **Key Components:** Bismuth and Plasticizers
- **Optimal kV Range:** 60-150kV
- **Certifications:** ASTM & IEC Certified



### AVERAGE APRON WEIGHTS 0.50MM LE (LBS)

	STANDARD LEAD			PROLITE			PREMIER			NANO		
	Frontal	Vest & Skirt	Wraparound	Frontal	Vest & Skirt	Wraparound	Frontal	Vest & Skirt	Wraparound	Frontal	Vest & Skirt	Wraparound
X-Small	7.17	11.16	12.44	5.95	9.32	10.33	5.59	8.54	9.70	4.87	7.53	8.46
Small	7.68	12.74	14.40	6.37	10.64	11.95	5.99	9.75	11.23	5.22	8.60	9.79
Medium	8.63	14.75	15.95	7.16	12.32	13.23	6.73	11.29	12.44	5.87	9.96	10.84
Large	10.35	17.96	17.52	8.59	15.00	14.54	8.07	13.74	13.67	7.04	12.12	11.91
X-Large	11.74	19.56	19.08	9.74	16.33	15.84	9.16	14.96	14.89	7.98	13.20	12.98
2X-Large	12.28	21.46	22.00	10.20	17.92	18.26	9.58	16.42	17.16	8.35	14.48	14.96
3X-Large	14.21	23.84	-	11.79	19.91	-	11.08	18.24	-	9.66	16.09	-

Protech makes every effort to accurately record its apron weights. Because each category is averaged, the numbers we provide in the weight chart are subject to a +/- 15% weight variance. Minor length or width adjustments, including heavier fabrics, are not differentiated and instead, averaged together. Please consider this when referencing the weight chart. Weights are measured using a 0.50mm LE core material thickness.

# APOLLO

## QUICKSHIP APRONS

The Apollo Quickship line offers high quality, radiation safety apparel ready to ship within 24 hours. All Apollo aprons are made with our easy-to-clean, Satinguard antimicrobial fabrics on both the apron's exterior and interior. It also comes with a matching, velcro thyroid collar secured via buckle attachment.

**Apollo Quickship aprons are available in the following standard sizes:**

	Small	Medium	Large	XL
Height	5'4"	5'8"	5'11"	6'2"+
Chest	42"	45"	48"	53"
Waist	34	38	42	46
Hips	36	40	44	48
Front Length	34	37	40.5	42.5
Front Width	21	22	24	26
Vest Length	22	24	25	25
Skirt Length	20	20	21	21





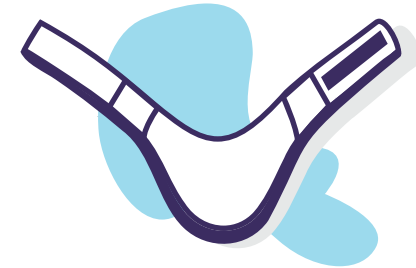
### READY TO SHIP IN 24 HOURS

Skip the lead times! Your Apollo apron will be ready to ship in as little as 24 hours.



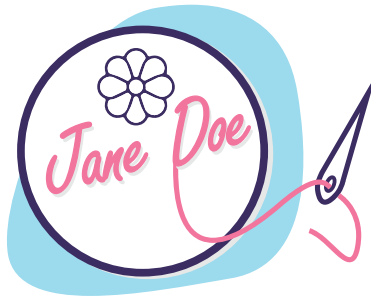
### ANTIMICROBIAL FABRICS

Apollo aprons are made from our premium, easy-to-clean, antimicrobial Satinguard performance fabric.



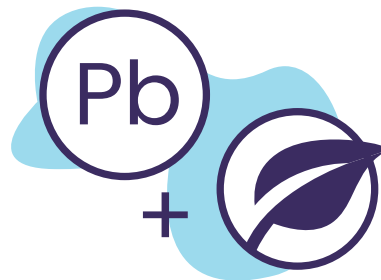
### THYROID COLLAR INCLUDED

Because having a matching thyroid collar to go with your apron is almost as important as protecting your thyroid.



### CUSTOM NAME TAG

Want to personalize your apron? A clear, vinyl sleeve on the apron shoulder holds an embroidered name tag.



### LEAD + LEAD FREE OPTIONS

Whether you need Light Lead or Lead Free core material, we've got you covered.



### NO ORDER FORMS REQUIRED

No complicated paperwork here. Just more free time.

**NOTE: To ensure you get your apron as quickly as possible, Apollo aprons are not available in “made-to-measure” sizing or other customizations (with the exception of a name tag).**





## FLEXBACK APRON

MODEL: APO-FB

0.50mm LE Protection in the Front  
Lead, Velcro Thyroid collar included

Available in Prolite and Lead

Features: Elastic Back, Extra Shoulder Padding, Pocket

Sizes: S, M, L, XL, 2XL



## VEST SKIRT APRON

MODEL: APO-VS

0.50mm LE Protection in the front  
0.25mm LE Protection in the back

Lead, Velcro Thyroid collar included

Available in Prolite and Lead

Features: Buckle sets, Extra Shoulder Padding, Pocket

Sizes: S, M, L, XL



## DENTAL APRON

MODEL: APO-DA

0.30mm LE Protection in the front  
 Thyroid collar included  
 Available in Lead  
 Features: Extra Shoulder Padding  
 Sizes: Adult (28" W x 31" L)



## THYROID COLLAR

MODEL: APO-TCS

0.50mm LE Protection  
 Available in Velcro or Magnetic Closure  
 Available in Lead  
 Sizes: S, M, L, XL

# #1 IN CUSTOM APRONS

Protech specializes in tailor-made aprons. You can choose from over 150 colors for your apron's exterior color, interior color, and binding. When you're finished, you can add embroidery, logos and other add-ons for a truly customized experience.

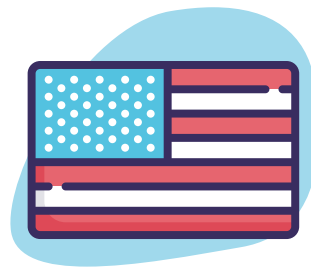
Hand-crafted and made with patented polymer technology, our Proguard Aprons are more light-weight, flexible and durable than the competition.

# PROGUARD





# PROGUARD



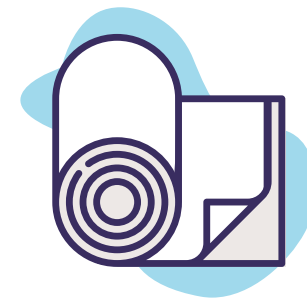
## PROUDLY MADE IN THE USA

With full time quality control staff and ISO certification, you are getting the best in American made protective apparel.



## IN-HOUSE EMBROIDERY & LOGOS

Don't let your apron "disappear." Our embroidery and logos are done in-house with modern monogram machines and the latest in digitization technology.



## ULTRA-FLEXIBLE CORE MATERIALS

Proguard's Core materials feature more flexibility and durability which provides superior, long lasting comfort.



## CUSTOM APRONS MADE TO MEASURE

Proguard aprons are made to order. More importantly, they can be highly customized according to size and various ergonomic needs by our highly trained staff.

# CUSTOMIZATION OPTIONS



## BACK STRAP

A Velcro backstrap keeps your apron shoulders secured and prevents slippage.



## ELASTIC BACK

Provides enhanced adjustability and lumbar support by shifting apron weight from shoulders to the hips.



## BACK MESH

Allows for maximum airflow in the back panels of your frontal apron and helps keep you cool.



## NON-SLIP FABRIC

A high friction, anti-slip fabric that is added to the back interior of your skirt or other key areas depending on style selection which reduces slippage and improves fit.





# CUSTOMIZATIONS: COMFORT OPTIONS

When it comes to designing your perfect custom apron, Protech is #1. Our great selection of apron add-ons can increase your protection and improve comfort. **We offer 3 types of apron customizations: Comfort, Protection and Design addons.** Each customization is clearly defined to ensure you make the right choices for yourself.



## APRON SUSPENDERS

Need a little extra help holding up your skirt? Try our apron suspenders to keep that apron skirt right where you want it.



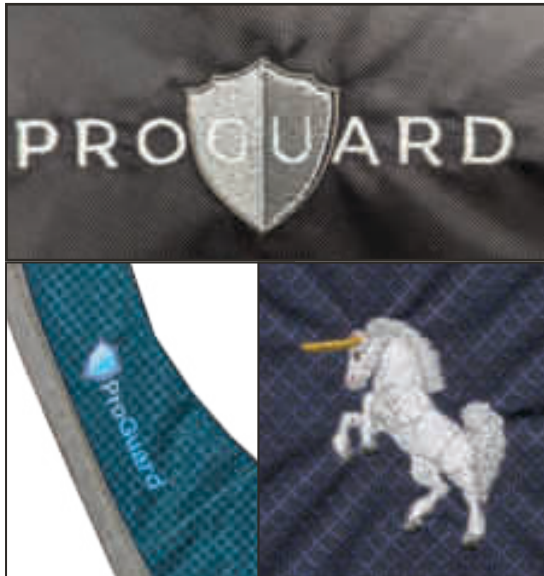
## SURGICAL DROP SHOULDERS

Specialty velcro tabs can be added to different apron styles allowing for easy removal of your apron to maintain sterile field.





# CUSTOMIZATIONS: DESIGN OPTIONS



## LOGO AND EMBROIDERY

---

Personalize your apron by placing your name or logo anywhere! We also have stock logos to choose from. Common locations include the pocket, just above the pocket, and on your thyroid.

## VELCRO PATCH

---

A velcro patch with custom embroidery can be added to a specific area on your apron. Typical locations are on the pocket, above pocket, or to the left of your pocket.



## LUXRAY PATTERNS

---

Have your apron tailored to perfection with LuxRay's patterned accents on the apron sides, pocket and thyroid collar. If you have a special fabric you'd like to use, we can incorporate that as well!



## EXTRA POCKETS

---

Need an extra pocket or two? Whether you need one on your skirt, inside your vest or even on your knees (yes, we did it), we can accommodate most requests. Shown here is a spacious L-shaped pocket which can be added to your skirt.



# CUSTOMIZATIONS: PROTECTION OPTIONS

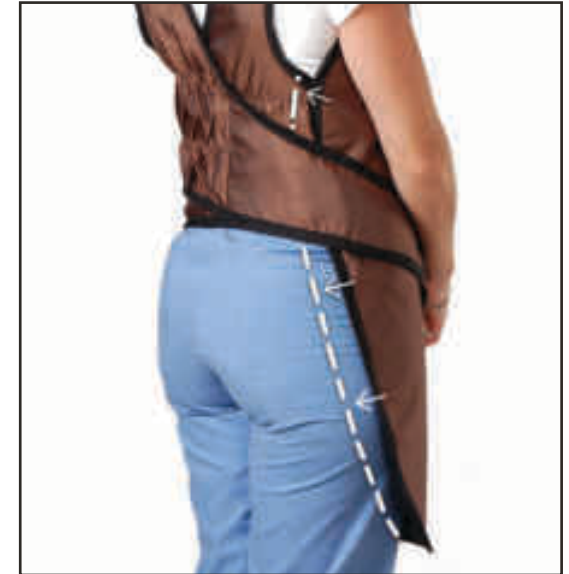


## AXILLARY WINGS

Axillary wings are a protective flap sewn-in or “snapped-on” to your apron and offer vital protection to vulnerable breast tissue and red bone marrow areas. Protection levels will match your apron specifications.

## SIDE EXTENSIONS

Side Extensions can provide an additional +2 inches of protection on both sides and provide important lateral protection. Protection levels will match your apron specifications.



## APRON SLEEVE

Apron sleeves wrap around your entire arm and offer comprehensive protection of vulnerable breast tissue and red bone marrow areas. Sleeves come standard in 0.25mm LE and can be sewn-in permanently or offered in our removable “Snap-on” option.

**Note:** To improve mobility, our apron sleeves are not sewn/attached at the armpit. For an upcharge, we can add a small “flap” which is tucked inside the apron armpit to ensure there are no gaps in protection.



## APRON INSPIRATION

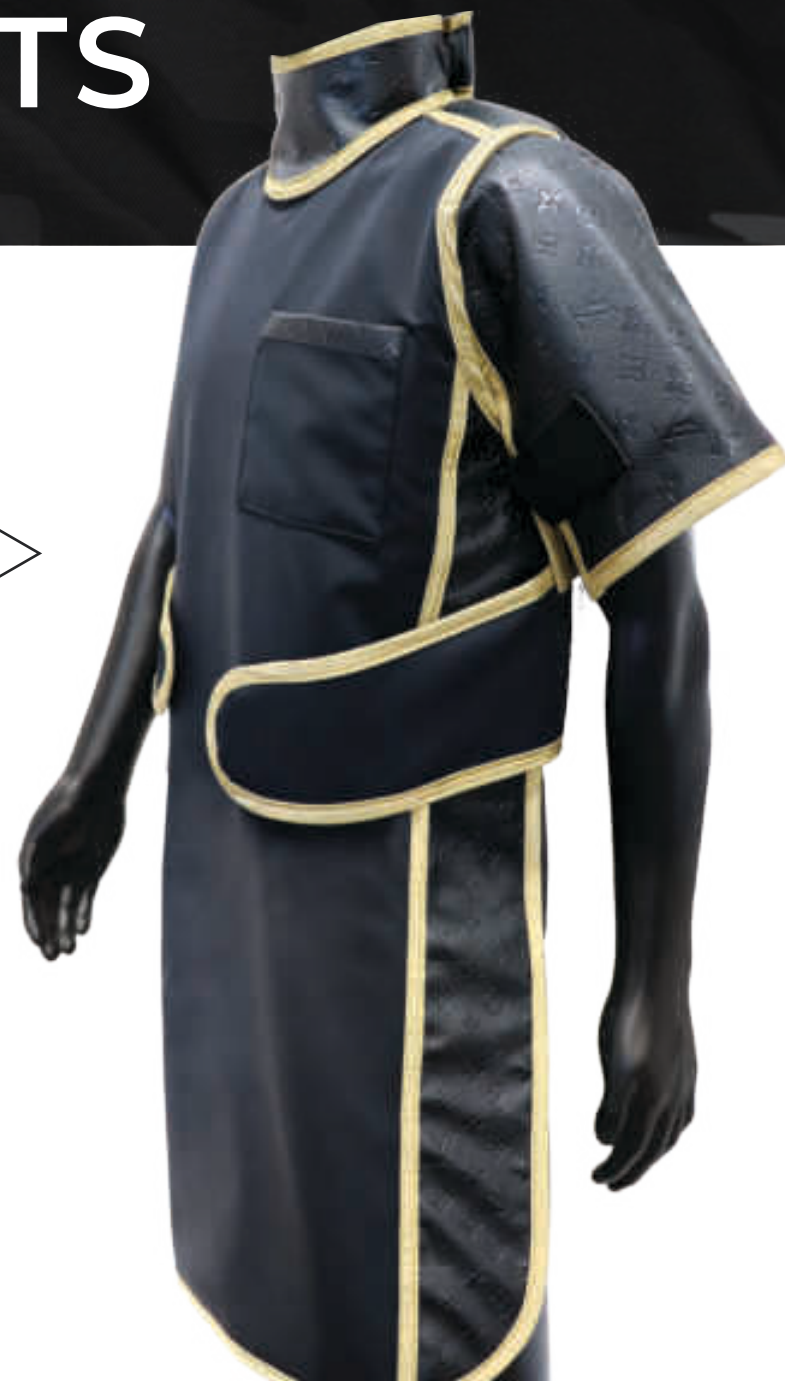
# CUSTOM PROJECTS



### LOUIS VUITTON MALE FLEXBACK APRON

---

One of our favorite custom apron projects was this LuxRay Flexback featuring Louis Vuitton accents. Custom from top to bottom, this apron boasted an attached thyroid collar and velcro-adjustable apron sleeve also made in the Louis Vuitton fabric.



### LOUIS VUITTON FEMALE FLEXBACK APRON

---

Not to be outdone, we had another request for an exquisite Louis Vuitton apron.





If you have a special fabric you want to use, send it our way! Our team loves a challenge.



### SWISS SOCCER CLUB SKIRT

This Swiss soccer club apron required great attention to detail to complete. The customer provided a special team Flag to be utilized as the actual apron fabric.



### THE DAWN OF JUSTICE APRONS

After custom flags and Louis Vuitton it was necessary that we honor the age of super heroes with our Special Edition DC Comics series. We hope Marvel and Avatar themes are next!



A grayscale photograph of a man wearing a lead apron, standing in a medical or laboratory setting. He is smiling and looking towards the camera. In the background, there is medical equipment, including a monitor and a keyboard on a desk. The image is used as a background for the text overlay.

COMMITTMENT ISSUES? TRY OUR

# RENTAL APRONS

For those needing temporary radiation protection, Proguard rental aprons are the perfect solution. Rental aprons are essential for continuous education courses, cadaver workshops, or any other event that requires the use of fluoro and radiation protective apparel. There is no need to purchase and hold all of that inventory. Protech has a large selection of in stock apron rentals available to ship year round.

Frontal and Full protection styles available in sizes:  
Small, Medium, Large, XL, 2XL.



## FRONT PROTECTION

### APRON FEATURES

**+** Backstrap  
Velcro backstrap securely fastens shoulder area.

**+** Back Relief Belt  
Wide, elastic belt provides lumbar support and maximum comfort.

Shoulder Padding  
Premium foam padding in the shoulders provides extra comfort.

Apron Pocket

Belt Buckle Closure

### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar	Drop Shoulder	Wings
Extra Pocket	Embroidery	Back Mesh
Logo	Sleeve	

Core Material	Weight (0.25mm)	Thickness Options
---------------	-----------------	-------------------

	Lead	3500 gsm	0.25, 0.50mm
	Prolite	2850 gsm	0.25, 0.35, 0.50mm
	Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
	Premier	2600 gsm	0.25, 0.35, 0.50mm
	Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.

# BACK RELIEF APRON

MODEL: [ AP-BR ]

Save yourself from back pain with Protech's Back Relief apron. This apron features a unique padded belt system constructed with a bonded elasticized panel that will not lose its shape. When engaged, the special back relief belt provides lumbar support while transferring the weight of the apron from your shoulders to your hips for increased comfort and back support throughout the life of the apron. A velcro backstrap is also included to secure the apron around your shoulder area and prevent sliding.





# BUCKLE APRON

MODEL: [ AP-BA ]

The Buckle Apron comes standard with an easy-release buckle allowing for quick removal of the apron. The belt is adjustable to accommodate different sizes. Criss-cross back straps provide a secure, comfortable fit.



## FRONT PROTECTION

### APRON FEATURES

- +

Wide Body Back Panels

The comfortable panels secure your apron and provides lumbar support.

Shoulder Padding

Premium foam padding in the shoulders provides extra comfort.

Apron Pocket

Durable Buckle Closure

#### ADDITIONAL CUSTOMIZATION OPTIONS

- Thyroid Collar






Extra Pocket

Logo
- Drop Shoulder

Embroidery

Sleeve
- Elastic Back

Backstrap

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm
 Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



*\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.*

## FRONT PROTECTION

### APRON FEATURES

**+** Backstrap  
Velcro backstrap securely fastens shoulder area.

**+** Elastic Back  
Provides enhanced adjustability and lumbar support. Shifts weight from shoulders & hips.






Shoulder Padding  
Premium foam padding in the shoulders provides extra comfort.

Apron Pocket

Velcro Closure

#### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar	Drop Shoulder	Wings
Extra Pocket	Embroidery	Back Mesh
Logo	Sleeve	

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm
 Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.



# FLEXBACK APRON

MODEL: [ AP-FB ]

Representing the gold standard of quality, the Flexback apron design provides enhanced back relief, comfort, and excellent weight distribution. Criss-cross back straps are specially designed with elastic to “flex” the apron’s weight burden off your shoulders to your hips, thereby providing support to your lower back. A velcro backstrap (shown below) is included and secures the apron around your shoulder area to prevent sliding.



MODEL: [ AP-SD ]



## FRONT PROTECTION

### APRON FEATURES

Shoulder Padding  
Premium foam padding  
in the shoulders  
provides extra comfort.






Apron Pocket

Tie Closure

#### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar	Embroidery	Wings
Logo	Sleeve	Backstrap

Core Material	Weight (0.25mm)	Thickness Options
---------------	-----------------	-------------------

	Lead	3500 gsm	0.25, 0.50mm
	Prolite	2850 gsm	0.25, 0.35, 0.50mm
	Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
	Premier	2600 gsm	0.25, 0.35, 0.50mm
	Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.

# TIE APRON

MODEL: [ AP-TA ]

The Tie Apron is an easy-to-use, affordable option for x-ray protection. Utilizing a tie closure, the Tie Apron's criss crossing straps ensure a secure and comfortable fit. See Pediatric options at the end of this section.



# UROLOGY APRON

MODEL: [ AP-UA ]

If you sit while performing procedures requiring x-ray, you may be unnecessarily exposing yourself to radiation. The Urology Apron features a three panel system at the bottom of the apron which enables the user to sit comfortably while maintaining maximum coverage from x-ray.



## FRONT PROTECTION

### APRON FEATURES

- Multi-Panel Design  
Allows for easy maneuvering and a comfortable fit.

Backstrap  
Velcro backstrap securely fastens shoulder area.

Shoulder Padding  
Premium foam padding in the shoulders provides extra comfort.

Apron Pocket  
Velcro Closure

### ADDITIONAL CUSTOMIZATION OPTIONS

- Thyroid Collar

Drop Shoulder

Wings
- Extra Pocket

Embroidery

Back Mesh
- Logo

Sleeve

### Core Material Weight (0.25mm) Thickness Options

	Lead	3500 gsm	0.25, 0.50mm
	Prolite	2850 gsm	0.25, 0.35, 0.50mm
	Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
	Premier	2600 gsm	0.25, 0.35, 0.50mm
	Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.

## FRONT PROTECTION

### APRON FEATURES



#### Wide Body Back Panels

The comfortable panels secure your apron and provides lumbar support.

#### Shoulder Padding






Premium foam padding in the shoulders provides extra comfort.

#### Apron Pocket

#### Velcro Closure

### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar	Drop Shoulder	Wings	Backstrap
Extra Pocket	Embroidery	Back Mesh	
Logo	Sleeve		

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm
 Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.

# VELCRO ADJUSTABLE APRON

MODEL: [ AP-VA ]

Do you need comfort and adjustability at an affordable price? The Velcro Adjustable apron has crisscrossing back straps that provide back support while securing the apron around your waist. Wide back straps prevent the apron from slipping around your shoulder and back area. Pediatric sizing available, see the end of the apron section.





# MATERNITY APRON

MODEL: [ AP-MA ]

The maternity apron features easy ties and a quick release buckle to secure the back and front panels; allowing complete adjustability during pregnancy. The maternity apron also includes an additional .50mm equivalent half apron for a total of 1.00mm Pb protection over the abdominal area and lower extremities.






## FULL PROTECTION

### APRON FEATURES

- Complete Coverage**  
The front & back panels ensure you are fully protected from beginning to end of your pregnancy.
- Half Apron Included**  
A Half apron is included for additional protection as you progress through your pregnancy.
- Tri-tab Closure**  
Ensures a proper fit and easy donning.
- Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket**
- Tie & Buckle Closures**

### ADDITIONAL CUSTOMIZATION OPTIONS

- Thyroid Collar
- Wings
- Extra Pocket
- Embroidery
- Logo
- Sleeve

Core Material	Weight (0.25mm)	Thickness Options
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.




## FULL PROTECTION

### APRON FEATURES

- Elastic Back**  
Provides enhanced adjustability and lumbar support. Shifts weight from shoulders & hips.
- Single Front Panel**  
Eliminates excess overlapping panels achieving a 15% weight reduction (compared to other wraparound and VS models).
- Tri-tab Closure**  
Ensures a proper fit and easy donning.
- Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket**
- Velcro Closure**

#### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar    Wings    Extra Pocket  
Embroidery      Logo      Sleeve

Core Material	Weight (0.25mm)	Thickness Options
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.

# WRAPAROUND FLEXBACK MATERNITY APRON

MODEL: [ AP-WAFBMA ]

The Wraparound Flexback Maternity apron combines the best qualities of our flexback apron with the full protection and back support of our wraparound back relief apron. The elastic stretch-back shifts weight from your shoulders to your hips while the tri-tab velcro closure system provides convenient, easy-on easy-off wearability. In addition, the 6" wide frontal velcro allows the wearer to adjust the crossties up or down to account for mom's growing belly. The Wrap Around Flexback eliminates excess overlapping lead and is up to **15% lighter than traditional wrap styles.**



# WRAPAROUND FLEXBACK APRON



MODEL: [ AP-WAFB ]

Want the ultimate in comfort and protection? The Wrap Around Flexback apron combines the best qualities of our flexback apron with the full protection and back support of our wraparound back relief apron. The elastic stretch-back shifts weight from your shoulders to your hips while the tri-tab velcro closure system provides convenient, easy-on easy-off wearability. The Wrap Around Flexback eliminates excess overlapping lead and is up to **15% lighter than traditional wrap styles.**



FULL PROTECTION

## APRON FEATURES

- Elastic Back**  
Provides enhanced adjustability and lumbar support. Shifts weight from shoulders & hips.
- Single Front Panel**  
Eliminates excess overlapping panels achieving a 15% weight reduction (compared to other wraparound and VS models).
- Tri-tab Closure**  
Ensures a proper fit.
- Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket**
- Velcro Closure**

## ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar    Extra Pocket  
Embroidery        Logo

Core Material	Weight (0.25mm)	Thickness Options
Lead	3500 gsm	0.25, 0.50mm
Prolite	2850 gsm	0.25, 0.35, 0.50mm
Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
Premier	2600 gsm	0.25, 0.35, 0.50mm
Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.








FULL PROTECTION

## APRON FEATURES

- +** Elastic Back  
Provides enhanced adjustability and lumbar support. Shifts weight from shoulders & hips.
- +** Single Front Panel  
Eliminates excess overlapping panels achieving a 10% weight reduction (compared to VS model).
- +** Tri-tab Closure Design  
Ensures a proper fit.
- +** Non-slip Backing  
(On skirt interior) Reduces slippage and improves fit.
- Shoulder Padding  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket
- Multi-tab Velcro Closure
- Hanging Tabs on Skirt

### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar    Extra Pocket    Suspenders (skirt)  
Embroidery      Logo

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm
 Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.



# TRI-TAB VEST AND SKIRT APRON

MODEL: [AP-TVEST]<sub>(vest only)</sub> [AP-SKIRT]<sub>(skirt only)</sub> [AP-TVS]<sub>(vest and skirt combo)</sub>

With an easy-on, easy-off multi tab (velcro) closure design, the Tri-tab is a popular style for vest and skirt combinations. Velcro closures are located on the left shoulder and around the hips. An elastic back allows for a flexible fit while providing premium comfort and back support. The Tri-tab Vest Skirt reduces excess overlapping lead and is **up to 10% lighter than traditional vest models.**

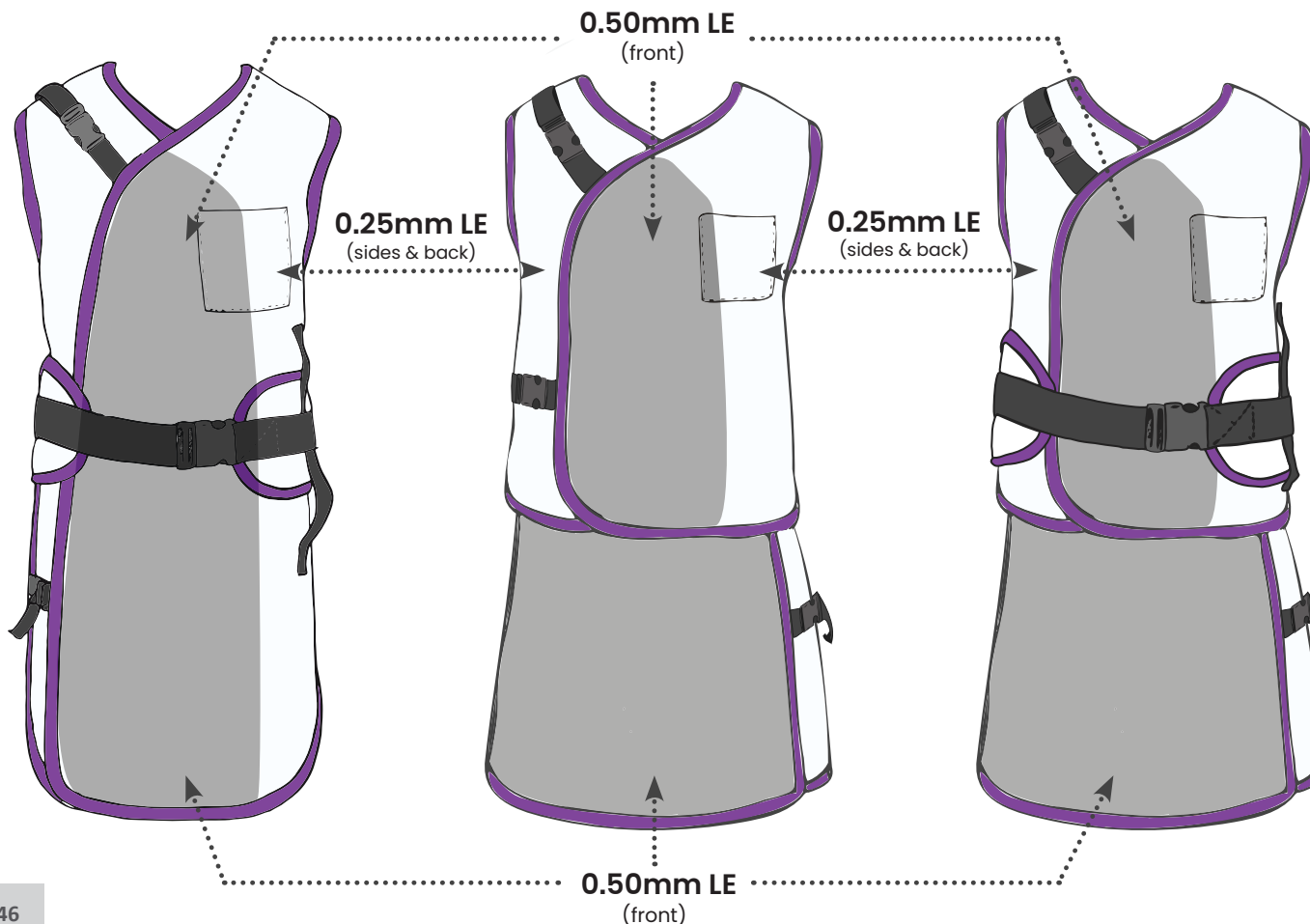


# LEAD CONFIGURATION FOR PROGUARD

# ESSENTIAL

# VS

## 0.50MM LE LEAD CONFIGURATION EXAMPLE



- 3/4 Overlapping Panel

- Desired protection at overlap where most sensitive organs are – helps with weight reduction

- Standard 0.25mm LE in back of skirt

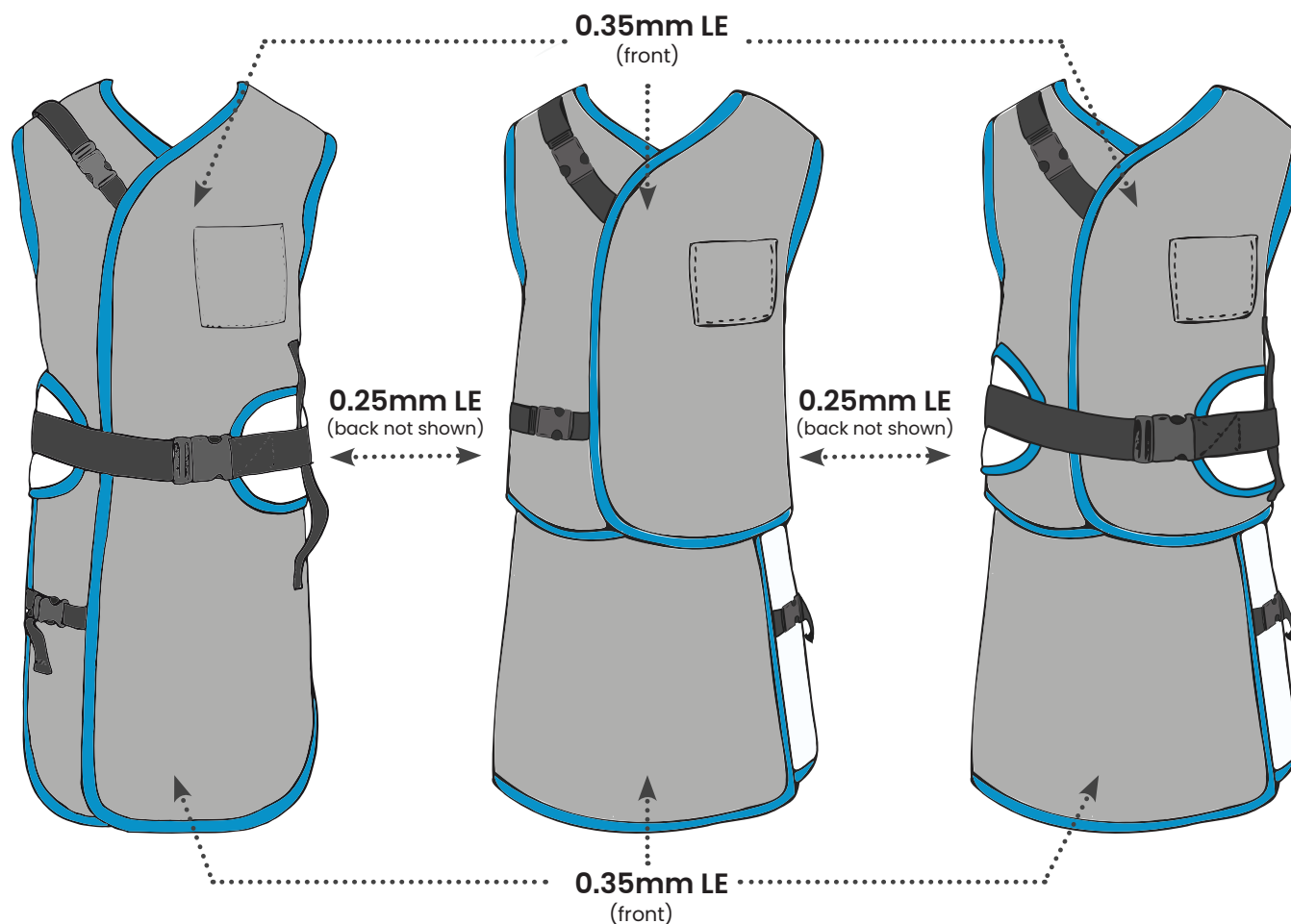
- Standard Sizing Only

Dark gray areas indicate where vest panels overlap to create desired protection. In this example, two 0.25mm vest panels overlap to create 0.50mm LE protection over the body's most sensitive organs. White areas indicate 0.25mm protection.

# LEAD CONFIGURATION FOR PROGUARD

# BALANCE

## 0.35MM LE LEAD CONFIGURATION EXAMPLE



- Standard Overlapping Panel
- Seam-to-seam, single LE protection
- Standard 0.25mm LE in back (vest, skirt and wraparound)
- Custom and Standard Sizing available

Dark gray areas indicate where panel(s) are placed to create desired protection. In this example, there is uniform 0.35mm LE protection from seam to seam (no protection changes at overlap). This is achieved through the use of additional, internal layers of lead. **White areas** indicate 0.25mm protection.



# ESSENTIAL™ WRAPAROUND BACK RELIEF APRON



MODEL: [ AP-WAQ ]

Offering full protection, this back relieving design transfers the weight from your shoulders to your hips with the aid of a 6" lumbar support belt. The Wrap Around Back Relief apron features velcro and buckle closures to ensure a proper fit. The Essential apron configuration **features extended front panels to achieve a 3/4 overlap (where protection is doubled) which allows for a lighter weight apron without compromising protection. The Essential Wraparound is available in standard sizing only.** For a made-to-measure Wraparound apron, see the Balance Wraparound on the next page.



FULL PROTECTION

## APRON FEATURES

- Adjustable Buckle Set**  
Adjustable buckle closures ensure a secure fit.
- Back Relief Belt**  
Elastic lumbar support belt with buckle closure system.
- Extended Front Panels**  
Front panels are extended to 3/4 overlap coverage where LE protection is doubled
- Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket**
- Velcro and Buckle Closures**

## ADDITIONAL CUSTOMIZATION OPTIONS

- Thyroid Collar
- Wings
- Extra Pocket
- Embroidery
- Logo
- Sleeve

Core Material      Weight (0.25mm)      Thickness Options

	Lead	3500 gsm	0.25, 0.50mm
	Prolite	2850 gsm	0.25, 0.35, 0.50mm
	Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
	Premier	2600 gsm	0.25, 0.35, 0.50mm






FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.

## FULL PROTECTION

### APRON FEATURES

-  **Adjustable Buckle Set**  
Adjustable buckle closures ensure a secure fit.
-  **Back Relief Belt**  
Elastic lumbar support belt with buckle closure system.
-  **Seam-to-seam Protection**  
Seam-to-seam, standardized protection in Front (no change in protection at overlap)






**Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.

**Apron Pocket**

**Velcro and Buckle Closures**

#### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar    Wings    Extra Pocket  
Embroidery      Logo      Sleeve

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm
 Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.

# BALANCE™ WRAPAROUND BACK RELIEF APRON

MODEL: [ AP-WABR ]

Offering full protection, this back relieving design transfers the weight from your shoulders to your hips with the aid of a 6" lumbar support belt. The Wrap Around Back Relief apron features velcro and buckle closures to ensure a proper fit. The Balance configuration **features seam-to-seam, single LE protection with standard overlapping panels** (see below for lead configuration).



# ESSENTIAL™ VEST AND SKIRT APRON

MODEL: [AP-VQ]<sub>(vest only)</sub> [AP-SKIRT]<sub>(skirt only)</sub> [AP-VSQ]<sub>(vest and skirt combo)</sub>

Be prepared for prolonged procedures with the Vest Skirt apron. The two piece design shifts 70% of the weight directly to the hips, reducing back fatigue. The Essential apron configuration **features extended front panels to achieve a 3/4 overlap (where protection is doubled) which allows for a lighter weight apron without compromising protection.** The skirt comes standard with a premium non-slip fabric in the back. **Essential aprons are only available in standard sizes.** For a made-to-measure Vest Skirt, see the Balance Vest Skirt Apron.







## FULL PROTECTION

### APRON FEATURES

- Adjustable Buckle Set**  
Adjustable buckle closures ensure a secure fit.
- Non-slip Backing**  
(On skirt interior) Reduces slippage and improves fit.
- Extended Front Panels**  
Front panels are extended to 3/4 overlap coverage where LE protection is doubled
- Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket**
- Velcro Closure**
- Hanging Tabs on Skirt**

### ADDITIONAL CUSTOMIZATION OPTIONS

- Thyroid Collar
- Wings
- Extra Pocket
- Suspenders (skirt)
- Embroidery
- Logo
- Sleeve

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.








## FULL PROTECTION

### APRON FEATURES

- Adjustable Buckle Set  
Adjustable buckle closures ensure a secure fit.
- Non-slip Backing  
(On skirt interior) Reduces slippage and improves fit.
- Seam-to-seam Protection  
Seam-to-seam, standardized protection in Front (no change in protection at overlap)
- Shoulder Padding  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket
- Velcro Closure
- Hanging Tabs on Skirt

#### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar    Wings    Extra Pocket    Suspenders (skirt)  
Embroidery    Logo    Sleeve

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm
 Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.



# BALANCE™ VEST AND SKIRT APRON

MODEL: [AP-V]<sub>(vest only)</sub> [AP-SKIRT]<sub>(skirt only)</sub> [AP-VS]<sub>(vest and skirt combo)</sub>

Be prepared for prolonged procedures with the Vest Skirt apron. The two piece design shifts 70% of the weight directly to the hips, reducing back fatigue. The Balance configuration **features seam-to-seam, single LE protection with standard overlapping panels** (see pages 34-35 for lead configuration information). The skirt comes standard with a premium non-slip fabric in the back.



# ESSENTIAL™ FLEXBACK VEST AND SKIRT APRON



MODEL: [AP-VFBQ]<sub>(vest only)</sub> [AP-SKIRT]<sub>(skirt only)</sub> [ AP-VSFBQ ]<sub>(vest and skirt combo)</sub>

The Essential Vest Skirt Flexback shifts 70% of the weight directly to the hips with added support of an adjustable, elastic back relief belt. The Essential apron configuration **features extended front panels to achieve a 3/4 overlap (where protection is doubled) which allows for a lighter weight apron without compromising protection.** The skirt comes standard with an anti-slip fabric in the back (interior) to keep your skirt in place. **Essential aprons are only available in standard sizes.** For a made-to-measure Vest Skirt Flexback, see the Balance Vest Skirt Flexback Apron.



FULL PROTECTION

## APRON FEATURES

- Adjustable Buckle Set**  
Adjustable buckle closures ensure a secure fit.
- Flexback Belt**  
Wraps internally around your back and securely fastens in the front.
- Non-slip Backing**  
(On skirt interior) Reduces slippage and improves fit.
- Extended Front Panels**  
Front panels are extended to 3/4 overlap coverage where LE protection is doubled
- Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket**
- Velcro Closure**
- Hanging Tabs on Skirt**

### ADDITIONAL CUSTOMIZATION OPTIONS

- Thyroid Collar
- Wings
- Extra Pocket
- Suspenders (skirt)
- Embroidery
- Logo
- Sleeve

Core Material	Weight (0.25mm)	Thickness Options
Lead	3500 gsm	0.25, 0.50mm
Prolite	2850 gsm	0.25, 0.35, 0.50mm
Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
Premier	2600 gsm	0.25, 0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.






## FULL PROTECTION

### APRON FEATURES

- Adjustable Buckle Set**  
Adjustable buckle closures ensure a secure fit.
- Flexback Belt**  
Wraps internally around your back and securely fastens in the front.
- Non-slip Backing**  
(On skirt interior) Reduces slippage and improves fit.
- Seam-to-seam Protection**  
Seam-to-seam, standardized protection in Front (no change in protection at overlap)
- Shoulder Padding**  
Premium foam padding in the shoulders provides extra comfort.
- Apron Pocket**
- Velcro Closure**
- Hanging Tabs on Skirt**

#### ADDITIONAL CUSTOMIZATION OPTIONS

Thyroid Collar    Wings    Extra Pocket    Suspenders (skirt)  
Embroidery    Logo    Sleeve

Core Material	Weight (0.25mm)	Thickness Options
 Lead	3500 gsm	0.25, 0.50mm
 Prolite	2850 gsm	0.25, 0.35, 0.50mm
 Prolite IEC	3000 gsm	0.25, 0.35, 0.50mm
 Premier	2600 gsm	0.25, 0.35, 0.50mm
 Nano	2300 gsm	0.35, 0.50mm



FOR SIZING AND COLOR OPTIONS SEE PAGES 76-81.



\*CE applies to Lead and Prolite IEC from 0.25mm to 1.00mm.



# BALANCE™ FLEXBACK VEST AND SKIRT APRON

MODEL: [AP-VFB]<sub>(vest only)</sub> [AP-SKIRT]<sub>(skirt only)</sub> [AP-VSFB]<sub>(vest and skirt combo)</sub>

The Vest Skirt Flexback shifts 70% of the weight directly to the hips with added support of an adjustable, elastic back relief belt. The Balance configuration **features seam-to-seam, single LE protection with standard overlapping panels** (see below for lead configuration). The skirt comes standard with an anti-slip fabric in the back (interior) to keep your skirt in place.







## DENTAL PANORAMIC PONCHO

<b>MODEL</b>	AP-DP
<b>CORE MATERIALS</b>	All Core Types (see page 20)
<b>THICKNESS</b>	0.50, 0.35, 0.25mm (standard) LE
<b>CLOSURE</b>	Velcro
<b>SIZING</b>	Adult: 24" W x 27" L (front) 16" L (back) Pediatric: 18"W x 22"L (front) 12"L (back)
<b>CUSTOMIZATIONS</b>	Embroidery and Logo
<b>ADD-ONS</b>	Thyroid Collar
<b>COLORS</b>	See fabric colors on pages 76-81
<b>CE</b>	Yes

Drapes over the body to provide front and back protection. Similar to the dental cape but the velcro closure is on the shoulder area. The Dental Panoramic Poncho comes in two sizes.



## DENTAL APRON

<b>MODEL</b>	AP-DA
<b>CORE MATERIALS</b>	Lead - 0.25mm
<b>AND THICKNESSES</b>	Prolite - 0.30mm Prolite Bilayer IEC - 0.30mm
<b>CLOSURE</b>	None
<b>SIZING</b>	Adult: 28" W x 23.5" L (from neckline) Pediatric: 23.5" W x 18" L (from neckline)
<b>CUSTOMIZATIONS</b>	Embroidery and Logo
<b>ADD-ONS</b>	Thyroid Collar, Anti-slip fabric
<b>COLORS</b>	See fabric colors on pages 76-81
<b>CE</b>	Yes

The Dental apron provides optimal protection during dental procedures and x-rays. Available in both lead and lead-free options, the dental apron comes with large hanging straps for easy storage. Optional upgrades like thyroid collar and anti-slip interior are also available.



## ORIGINAL THYROID COLLAR



MODEL	AP-TCO
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro (shown), Magnets or Buckle
SIZING	Small: 13-14" (neck circ.)
	Medium: 15-16" (neck circ.)
	Large: 17"+ (neck circ.)
	X-Large: Custom (neck circ.)
CUSTOMIZATIONS	Embroidery and Logo
ATTACHMENTS	Loose, Clip, Keyring, Tethered
COLORS	See fabric colors on pages 76-81
CE	Yes

The original style thyroid collar fits lower on the neck, offering coverage of the thyroid against scatter radiation. Velcro strips on the end allow for neck size adjustability. This streamlined style is our most popular.



## BIB THYROID COLLAR



MODEL	AP-TCB (reg.) / AP-TCBL (oversized)
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro (shown) or Magnets
SIZING	One size fits all
DIMENSIONS	Regular - 24" L x 7.5" H (4.5" bib)
	Oversized - 24" L x 9" H (6" Bib)
CUSTOMIZATIONS	Embroidery and Logo
ATTACHMENTS	Loose, Clip, Keyring, Tethered
COLORS	See fabric colors on pages 76-81
CE	No

The Bib thyroid's streamlined design provides a comfortable fit as well as complete coverage to the neck area. For those wanting a little extra coverage, we also offer an oversized Bib option (6" in length).





# PROGUARD THYROID COLLAR

MODEL	AP-TCG
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	Small: 21" (neck circ.)
	Medium: 22" (neck circ.)
	Large: 23" (neck circ.)
	X-Large: 24" (neck circ.)
CUSTOMIZATIONS	Embroidery and Logo
ATTACHMENTS	Loose, Clip, Keyring, Tethered
COLORS	See fabric colors on pages 76-81
CE	Yes

Featuring a form-fitting design and velcro closure, the Proguard thyroid collar provides front and back protection.



# VISOR THYROID COLLAR

MODEL	AP-TCV
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro (shown) or Magnets
SIZING	Small: 25" (neck circ.)
	Large: 27" (neck circ.)
CUSTOMIZATIONS	Embroidery and Logo
ATTACHMENTS	Loose, Clip, Keyring, Tethered
COLORS	See fabric colors on pages 76-81
CE	No

Ergonomically designed for a snug fit, the Visor thyroid is optimized for comfort and maximum protection. The neck piece provides additional front and lateral protection.





## STANDARD THYROID COLLAR



MODEL	AP-TCS
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro, Magnets or Buckle (shown)
SIZING	Small: 13-14" (neck circ.)
	Medium: 15-16" (neck circ.)
	Large: 17"+ (neck circ.)
	X-Large: Custom
CUSTOMIZATIONS	Embroidery and Logo
ATTACHMENTS	Loose, Clip, Keyring, Tethered
COLORS	See fabric colors on pages 76-81
CE	Yes

The standard radiation thyroid collar is designed to fit higher along the neck while providing complete coverage of the thyroid against x-ray radiation.



## MAMMOGRAPHY THYROID COLLAR



MODEL	AP-TCM
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro (shown) or Buckle
SIZING	One Size: 29" L, 4" Bib
CUSTOMIZATIONS	Embroidery and Logo
ATTACHMENTS	Loose, Clip, Keyring, Tethered
COLORS	See fabric colors on pages 76-81
CE	Yes

Don't let the standard or original thyroid collar get all the attention. The mammography's sleek profile provides a detachable alternative to "sewn-in" thyroid collars while allowing for adjustability. Additionally, the mammography thyroid collar serves as a valuable option for patient protection.



## THYROID COLLAR COVERS

MODEL	SG-TCCD
CORE MATERIALS	None
MATERIAL	Blue SMS
SIZING	One size fits all
FEATURES	Disposable
UOM QTY	50 per box

Our disposable thyroid collar covers do not provide protection against x-ray, but are a useful way to encourage the use of thyroid collars by keeping them clean. The thyroid collar covers fit a wide variety of thyroid collar styles, will prevent damage from make-up and prevent the build-up of filth. Extend the life of your thyroid collars by covering them with ScatterGuard's hygienic, disposable thyroid collar cover.



## DISPOSABLE THYROID COLLAR



MODEL	SG-DTHY
CORE MATERIALS	Prolite
THICKNESS	0.125, 0.25*, or 0.375mm LE
CLOSURE	Velcro
SIZING	Regular: 13-16" (neck circ.) Large: 17-20" (neck circ.)
CUSTOMIZATIONS	None
FABRIC	Blue SMS
CE	Yes* (only 0.25mm LE)

ScatterGuard's disposable Thyroid Collars are designed to provide essential protection against scatter radiation. Light-weight and available in 2 sizes, our disposable thyroid collar is made with a premium lead-free material and may be disposed of through normal waste procedures. The disposable Thyroid Collar blocks up to 95% of radiation.



## DISPOSABLE SMART CAP



MODEL	SG-DCAP
CORE MATERIALS	Prolite
THICKNESS	0.125, 0.25*, or 0.375mm LE
CLOSURE	Ties
SIZING	Small - 20.5" (head circ.)
	Medium - 22" (head circ.)
	Large - 23" (head circ.)
CUSTOMIZATIONS	None
FABRIC	Blue SMS
CE	Yes* (only 0.25mm LE)

ScatterGuard's disposable Smart Caps are designed to provide essential protection against scatter radiation. Smart Caps feature a cotton inner-liner to absorb perspiration and ensure a comfortable fit. Light-weight and adjustable, our Smart Cap is available in 3 sizes. The Cap is made with a premium lead-free material and may be disposed of through normal waste procedures. The disposable Smart Cap blocks up to 95% of radiation.

Cotton  
Inner-liner





## PROGUARD SMART CAP



MODEL	AP-PGCAP
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Beaded Adjustable Strap
SIZING	SM-M: 21-22" (head circ.) L-XL: 23-25" (head circ.)
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

Need head protection that is breathable, light-weight, and comfortable? The Proguard Smart Cap features breathable CoolGuard spandex fabric on the top while providing protection around the sides of your head.



## PAGE CAP



MODEL	AP-PAGE
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	Small: 21" (head circ.) Medium: 22" (head circ.) Large: 23" (head circ.) X-Large: 24" (head circ.)
CUSTOMIZATIONS	Embroidery and Logo
PROTECTION	Side Protection
COLORS	See fabric colors on pages 76-81
CE	Yes

The Page Cap is designed to provide protection around the sides of your head, while the top contains no lead. Alternatively, similar to a scrub cap, the Head Cap provides x-ray protection around the entire head. Velcro tab closures allow for an adjustable fit on both styles. \*Sizes based on head circumference.



## HEAD CAP



MODEL	AP-CAP
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	Small: 21" (head circ.)
	Medium: 22" (head circ.)
	Large: 23" (head circ.)
	X-Large: 24" (head circ.)
CUSTOMIZATIONS	None
PROTECTION	Top and Side Protection
COLORS	See fabric colors on pages 76-81
CE	Yes

Similar to a scrub cap, the Head Cap provides x-ray protection around the entire head. Velcro tab closures allow for an adjustable fit on both styles.  
\*Sizes based on head circumference.



## SCOLIOSIS STOLE



MODEL	AP-STOLE
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Buckle
SIZING	Pediatric: 15" x 4.75"
	Medium: 18.5" x 6.75"
	Large: 23.5" x 8"
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

The scoliosis stole is primarily used for spinal imaging. The shield features velcro panels and an adjustable belt for proper positioning. The neck area does not contain lead, allowing complete visibility of the spine during x-ray, while offering protection to the breast area. This shield is great for scoliosis studies.



## GONAD/OVARIAN SHIELD



MODEL	AP-GONAD/GONAD-SET
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro (standard) or Buckle
SIZING	Small - 5.75" x 4.5" Medium - 7.6" x 6.4" Large - 9.5" x 7.8" Pediatric sizing available (pg 68)
CUSTOMIZATIONS	Embroidery and Logo
SPECIAL	Available as a set of 3 or individually
COLORS	See fabric colors on pages 76-81
CE	Yes

This unique gonad/ovarian shield belt system comes complete with four interchangeable sizes which provide coverage from x-ray for a variety of needs. The adjustable Velcro or buckle also allows the user to fit almost any waist size. The gonad/ovarian belt system comes as a set of 3 sizes (adult or pediatric sets). They can also be purchased individually.

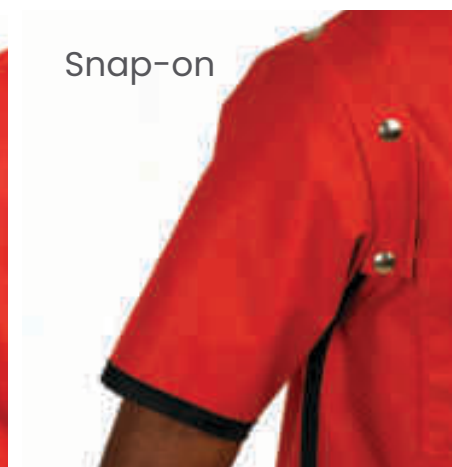


## APRON SLEEVE



MODEL	AP-SLV (sewn-in) / SLV2 (snap-on)
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50, 0.35, 0.25mm (standard) LE
CLOSURE	Snap-on or Sewn-in
SIZING (FEMALE)	Small, Medium, Large, XL, 2XL
SIZING (MALE)	Small, Medium, Large, XL, 2XL Length (reg.): 11"   Length (short): 8.5" Circumference: see size charts
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

This optional sleeve is available for many apron styles and protects the upper arm and shoulder from direct beam and scatter radiation. It can be attached as a snap-on or directly sewn-on. Please note that the apron sleeve is not fully attached at the armpit. An optional flap is available for additional protection/coverage (see customizations page for more info). Price is per (1) sleeve.





## SHIN GUARDS

MODEL	AP-SG
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	SM: 13" x 9"
	M: 14" x 10"
	L: 16" x 12"
	XL: 18" x 24"
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes



When being exposed to ionizing radiation, all forms of radiation protection are necessary. Shin Guards protect against beam scatter when no table drapes are present. Optional foot covers may be added (AP-FOOT).



(AP-FOOT)

## HALF APRON

MODEL	AP-HA
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	SM (pediatric): 10" x 10"
	MD: 18" x 16"
	LG: 24" x 20"
	XL: 24" x 24"
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81



The half apron can provide extra radiation protection. Selling it separate also allows you to mix and match a smaller bottom half with a larger top piece or vice versa.



## CORSET BELT

MODEL	AP-CORSET
PROTECTION	None
SIZING (FEMALE)	Small - 4XL (Use apron waist measurement)
SIZING (MALE)	XS - XL (Use apron waist measurement)
COLORS	Black

Our corset belt is a great apron accessory for added back support when wearing a radiation protective apron. The finger pull tab and pulley system along the spine provides for simple adjustment and even tension.

**\*The corset belt is worn under the apron.**

**\*\*Use apron waist measurements on page 59 to determine your size.**



## BACK RELIEF BELT

MODEL	AP-BLT
PROTECTION	None
CLOSURE	Buckle
SIZING (FEMALE)	XS: 24-26"   S: 26-28" M: 28-31"   L: 31-33" XL: 34-38"
SIZING (MALE)	XS: 30-33"   S: 33-36" M: 37-40"   L: 41-44" XL: 44-48"
CUSTOMIZATIONS	None
COLORS	See fabric colors on pages 76-81

The back relief belt is constructed of neoprene bonded elastic. It features high quality components that do not lose elasticity. The belt also features a non-slip adjustable buckle to ensure a secure fit. The back relief belt attaches separately from the apron.



# PEDIATRIC PROTECTION





## PEDIATRIC TIE APRON



MODEL	AP-TA-CH
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Tie
SIZING	Small: 12 x 24" (Ages 1-3)
	Medium: 14 x 26" (Ages 4-6)
	Large: 16 x 28" (Ages 7-10)
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

The Tie Apron is an easy-to-use, affordable option for x-ray protection. Utilizing a tie closure, the Tie Apron's criss crossing straps ensure a secure and comfortable fit. Premium foam padding in the shoulders provides extra comfort.



## PEDIATRIC VELCRO ADJUSTABLE APRON



MODEL	AP-VA-CH
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	Small: 12 x 24" (Ages 1-3)
	Medium: 14 x 26" (Ages 4-6)
	Large: 16 x 28" (Ages 7-10)
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

The Velcro Adjustable apron has crisscrossing back straps that provide back support while securing the apron around your waist. Wide back straps prevent the apron from slipping around your shoulder and back area.



## PEDIATRIC HALF APRON



MODEL	AP-HA-CH
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	10" x 10"
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

The half apron can provide extra radiation protection. Selling it separate also allows you to mix and match a smaller bottom half with a larger top piece or vice versa.



## PEDIATRIC DENTAL APRON



MODEL	AP-DA-CH
CORE MATERIALS	Lead - 0.25mm
& THICKNESS	Prolite - 0.30mm
	Prolite Bilayer IEC - 0.30mm
CLOSURE	None
SIZING	Pediatric: 23.5" W x 18" L (from neckline)
CUSTOMIZATIONS	Embroidery and Logo
ADD-ONS	Thyroid Collar, Anti-slip Fabric
COLORS	See fabric colors on pages 76-81
CE	Yes

The Dental apron provides optimal protection during dental procedures and x-rays. Available in both lead and lead-free options, the dental apron comes with large hanging straps for easy storage. Optional upgrades like thyroid collar and anti-slip interior are also available.





### PEDIATRIC THYROID COLLAR

MODEL	AP-TCP
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Velcro
SIZING	Infant: 10" (Ages 2-4) Pediatric: 12" (Ages 5-10)
CUSTOMIZATIONS	Embroidery and Logo
ATTACHMENTS	Loose, Clip, Keyring, Tethered
COLORS	See fabric colors on pages 76-81
CE	Yes

Available in either the standard or original style thyroid collars, our Pediatric Thyroid collar is designed to protect children ages 2 to 10 from harmful x-ray.



### PEDIATRIC GONAD SHIELD SET

MODEL	AP-GONADSET2
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Veciro (standard) or Buckle
SIZING	1 Pediatric: 3.75" x 3.75" 1 Child: 5" x 4" 1 Small: 5.75" x 4.5"
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

This unique pediatric gonad/ovarian shield belt system comes complete with three interchangeable sizes which provide coverage from x-ray for a variety of needs. The adjustable Velcro or optional buckle (shown) also allows the user to fit almost any waist size. The gonad/ovarian belt system comes as a set of 3 sizes, or can be purchased individually.





## PEDIATRIC SCOLIOSIS STOLE



MODEL	AP-STOLE-CH
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
CLOSURE	Buckle
SIZING	Pediatric: 15" x 4.75"
CUSTOMIZATIONS	Embroidery and Logo
COLORS	See fabric colors on pages 76-81
CE	Yes

The scoliosis stole is primarily used for spinal imaging. The shield features velcro panels and an adjustable belt for proper positioning. The neck area does not contain lead, allowing complete visibility of the spine during x-ray, while offering protection to the breast area. This shield is great for scoliosis studies.



## TUGGA BABY



MODEL	RE-BABY
FRAME TYPE	Goggles
FRONT LENS	0.75mm Pb Glass
WEIGHT	42g
FRAME SIZE	46-18
MATERIAL	N/A
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Shiny Pink, Shiny Blue, Shiny Green

Protech's Tugga Baby pediatric glasses provide essential protection during medical fluoroscopy and feature a universal fit with its adjustable headband.



# APRON STORAGE

EXTEND THE LIFE OF YOUR APRON

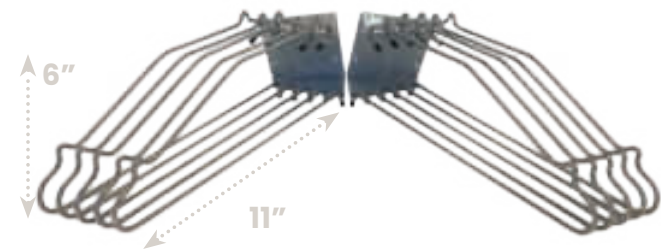
When not in use, garments should be placed on a hanger or stored using Protech's apron storage equipment. Avoid contact with hot surfaces or exposure to direct sunlight. Also avoid contact with sharp objects, as these may damage the garment's protective core material. For transportation, garments should be carefully rolled up, not folded, and placed into a box or Protech duffle bag.

## WALL RACK

MODEL: [ AS-WALL-L/R ]

CAPACITY: 5 APRONS PER CONSOLE

Prolong the life of your radiation protective garment with our apron wall rack console. Each console holds up to 5 protective aprons with the combined left and right consoles storing up to 10 aprons. The wall console features hooks on the top of the hangers for lead skirts. \*Does not include mounting hardware.



## PEG RACK

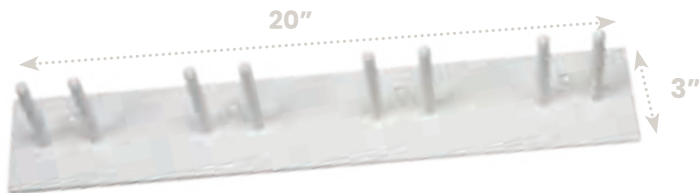
MODEL: [ AS-PEG ]

CAPACITY: 1-10 APRONS

The apron Peg rack is made of steel construction and easily screws into wall studs. It can store up to 10 aprons but comes in a variety of sizes that accommodate a range of lead aprons. This affordable wall storage for aprons is essential to prolong the life of your protective aprons. \*Mounting hardware is not included.

Model	# of Pegs	# of Aprons	Dim.
PEG-2	2	1	5 x 3"
PEG-4	4	2	10 x 3"
PEG-6	6	3	15 x 3"
PEG-8	8	4	20 x 3"
PEG-10	10	5	25 x 3"
PEG-14	14	7	35 x 3"
PEG-18	18	9	45 x 3"
PEG-20	20	10	50 x 3"

Example configuration shown below: PEG-8

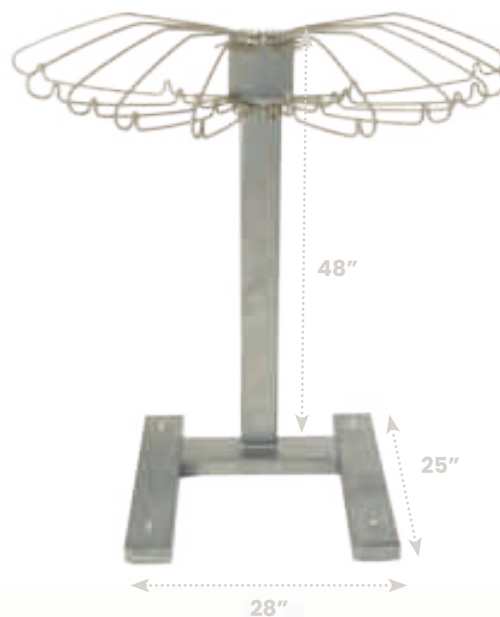


## MIGHTY MAX RACK

MODEL: [ AS-MAX-MOB ]

CAPACITY: 10 APRONS

The Mighty-Max mobile apron rack's solid steel design holds up to 10 aprons. The pedestal base has rolling wheels for easy portability. Convenience hooks on each hanger can hold lead skirts.



## APRON DUFFLE BAG

MODEL: [ AS-DUFFLE ]

CAPACITY: UP TO 2 APRONS

Our duffle bag protects your aprons while traveling between facilities or out of the country. Protect and store your aprons for transport now with our affordable, high quality duffle bag. Features: 10" Velcro Opening, Carrying Handle & Shoulder Strap. **For all color options, refer to pages 76-81.**



## PORTA RACK

MODEL: [ AS-PORTRK ]

CAPACITY: 8 APRONS

Ideal for use in the O.R., Specials, and Cath Labs, this portable apron storage unit is great quality and affordable. The 24" wheel base with double casters allows this completely loaded rack to glide smoothly while being moved. The porta rack features moving hanger arms that swing forward and backwards for easy apron selection.



## APRON HANGER

MODEL: [ AS-HANGER ]

CAPACITY: 40LBS

Constructed out of aluminum for durability and longevity this apron hanger is used for the storage of radiation protection aprons. It features hook style ends that are designed to hold lead skirts.



## 2-TIER VALET RACK

MODEL: [ AS-VALET2 ]

CAPACITY: UP TO 10 APRONS

Industrial quality steel construction and medical-grade casters makes the 2-tier apron racks an excellent portable storage option. The rack provides storage capacity for up to 10 aprons.  
\*Includes 4 screws for quick assembly



## Z-RACK

MODEL: [ AS-VALET3 ]

CAPACITY: UP TO 20 APRONS

Our Z-Rack is made with heavy duty construction and can hold up to 500 pounds. Large, swivel casters (2 with locking mechanisms) and convenient, nesting design make the Z-rack an excellent portable storage option. The rack provides storage capacity for up to 20 aprons!



## VALET RACK

MODEL: [ AS-VALET1 ]

CAPACITY: UP TO 15 APRONS

Industrial quality steel construction and easy roll casters make these mobile apron racks an excellent portable storage option. The rack provides storage capacity for up to 15 aprons.  
\*Includes 4 screws for quick assembly





# APRON MEASUREMENTS & SIZING



## CHEST MEASUREMENT

Measure around the largest circumference of the bust area, keeping the tape parallel to the floor with the client's arms at their sides.



## WAIST MEASUREMENT

Measure around the smallest circumference of the torso. If you measure at waist level it may be inaccurate.



## HIP MEASUREMENT

Measure around the largest circumference of the hips and buttocks with the tape parallel to the floor: generally 8-9 inches down from the waist.



## FRONT APRON LENGTH MEASUREMENT

Measure from the top of the shoulder over the bust to the desired length. Do not contour the tape measure in under the bust.



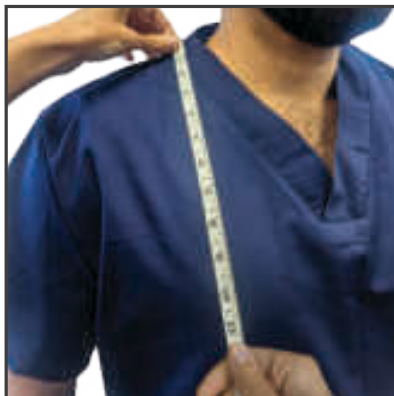
## VEST LENGTH MEASUREMENT

Measure from the top of the shoulder over the bust to the desired length. Do not contour the tape measure under the bust.



## SKIRT LENGTH MEASUREMENT

Measure from the top of the pant line (waist) and over the outside of the hip down to the desired length.



## APEX ADJUSTMENT

Measure from the top of the shoulder (towards the neck) over the bust to the nipple. The apex measurement determines whether adjustments need to be made to the shoulder area. This helps to avoid shoulder gapping or tight arm holes in your apron. For example, a male large height of 5'10" may be fitted into a 3X due to their measurements. This would likely result in excessive shoulder material. Therefore, an apex adjustment of -1" would be applied.

# APRON MEASUREMENTS

## APRON SLEEVE SIZING

	Small	Med	Large	XL	2XL
Length (Regular)	11"	11"	11"	11"	11"
Length (Short)	8.5"	8.5"	8.5"	8.5"	8.5"
Circumference (Female)	15"	15"	16-17"	16-17"	17-18"
Circumference (Male)	15"	16-17"	18-19"	19-20"	19-20"

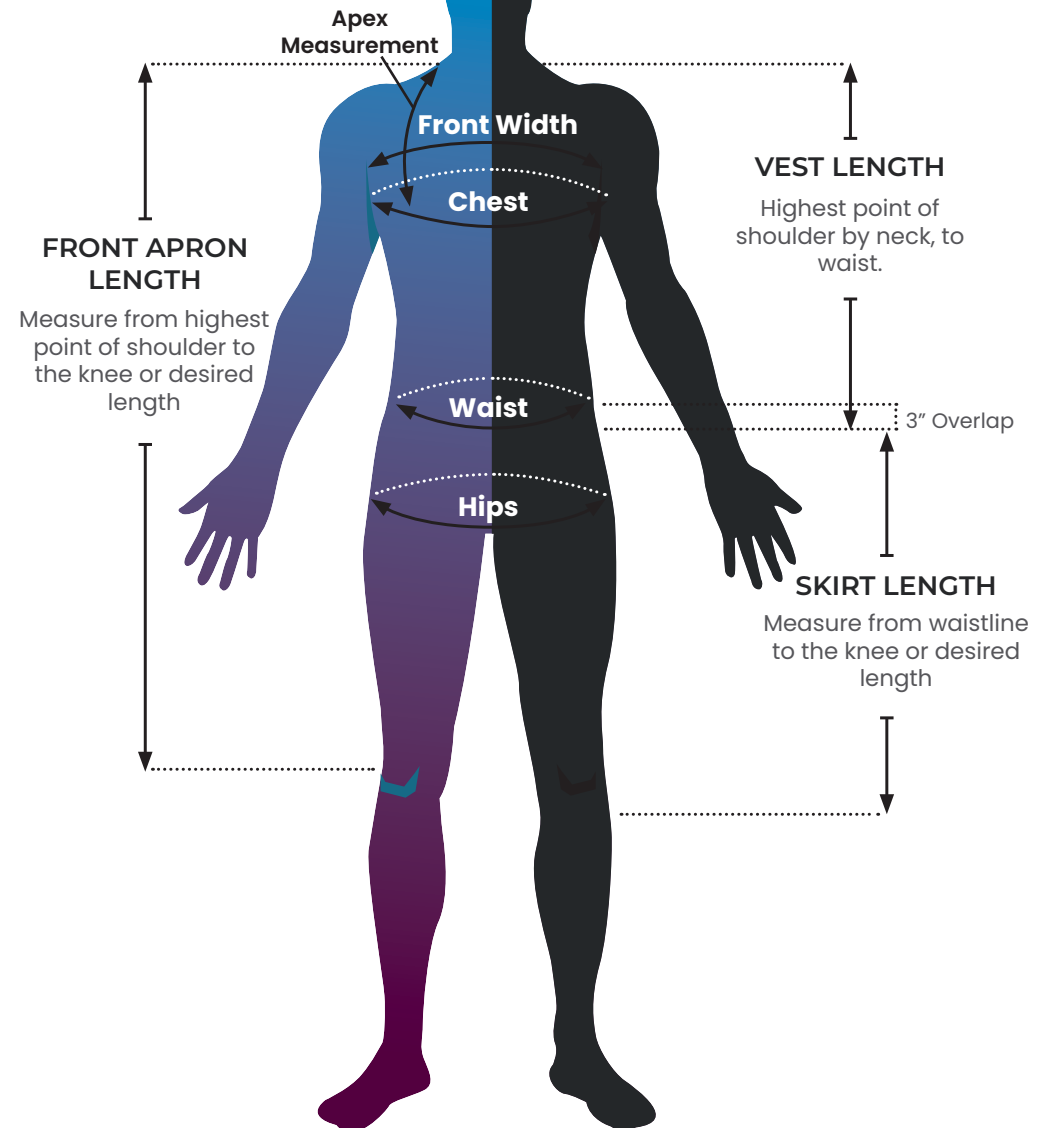
## KIDS\*

	Small	Medium	Large
Dimensions	12 x 24"	14 x 26"	16 x 28"
Ages	Ages 1-3	Ages 4-6	Ages 7-10

\*Velcro Adjustable & Tie Aprons

## ALL FRONTAL & WRAP APRONS

## TWO-PIECE VEST & SKIRT APRONS



# WOMEN

## GENERAL APRON SIZING

	XS	Small	Med	Large	XL	2X	3X
Height	5'1"	5'2"	5'5"	5'8"	5'10"	5'11"	
Chest	36"	38"	40"	43"	46"	49"	52"
Waist	25	27	29	32	35	40	44
Hips	35	37	39	42	46	48	52
Front Length	33	34	36	38.5	40.5	42.5	42.5
Front Width	18	19	20	21	23	24	26
Vest Length	19	22	22	22	22	23	23
Skirt Length	20	20	22	22.5	22.5	22.5	24
WABR Length	33	34	37	40.5	42.5	42.5	44.5

## TRI-TAB APRON SIZING

	Small	Med	Large	XL
Chest	35"	37"	41"	44"
Length	22"	22"	22.5"	23"

# MEN

## GENERAL APRON SIZING

	XS	Small	Med	Large	XL	2X	3X
Height	5'2"	5'4"	5'8"	5'11"	6'2"+		
Chest	39"	42"	45"	48"	53"	57"	60"
Waist	32	34	38	42	46	50	54
Hips	34	36	40	44	48	52	56
Front Length	34	34	37	40.5	42.5	42.5	45.5
Front Width	19	21	22	24	26	28	30
Vest Length	22	22	24	25	25	25	28
Skirt Length	20	20	20	21	21	22	22
WABR Length	36	36	38	40.5	42.5	42.5	45.5

## TRI-TAB APRON SIZING

	Small	Med	Large	XL
Chest	39"	42"	46"	49"
Length	25"	27"	27.5"	28.5"

**Please Note:** Length adjustments vary depending on your height and the required length adjustment to ensure your apron reaches around your knee cap. Any additional inches (up to 6") incur extra fees.

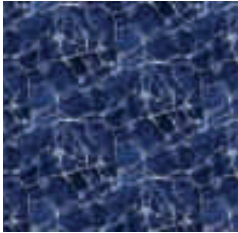


# FABRIC COLORS

## LIMITED EDITION PRINTS\*



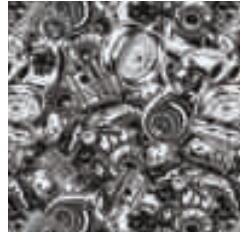
Ankara Cloth  
#2000



Blue Marble  
#2010



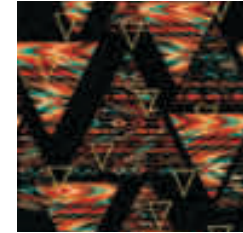
Body Positivity  
#2015



Exhaust-ed  
#2020



Galactic Kitties  
#2025



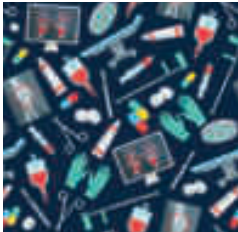
Geo Tribe  
#2030



Grind my Gears  
#2035



Hex Yeah!  
#2040



Medically Necessary  
#2045



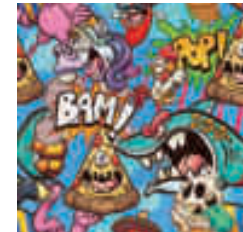
Midnight Jungle  
#2050



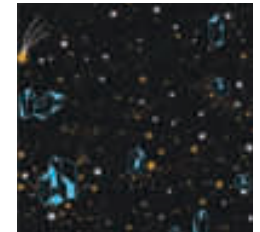
Party 'Till You're  
Dead #2070



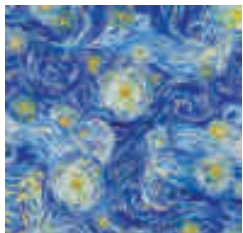
Reel Time  
#2075



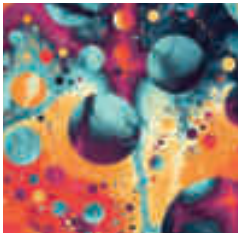
Stable Genius  
#2080



Stardate: 2022  
#2022



Starry Night  
#2090



Supernova  
#2095



This Lead is  
Bananas #2005



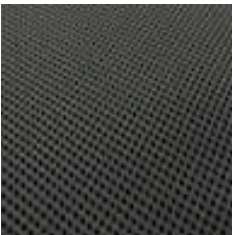
Tropical Smoothie  
#2100

\*Upcharge applies



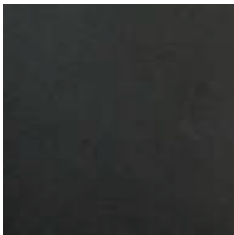


## COOLGUARD PERFORMANCE FABRICS\*



**Coolguard Air**  
#900

A cushiony mesh material that enables natural air ventilation. Interior only.



**Coolguard Spandex**  
#915

Sweat wicking, breathable microfiber with quick dry technology.



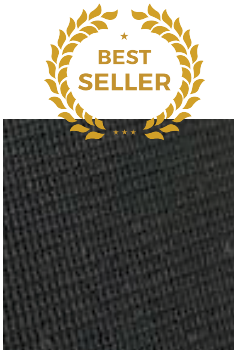
**Coolguard Mesh**  
#910

Increases air flow on back closure of apron. For frontal apron back closures only.



**Indigo**  
#925

A soft, PVC nylon that is fluid-proof, stain resistant, bacteria & fungus resistant. Our lightest-weight fabric!



**"Black Silk"**  
#920

Ultra-soft & breathable polyester that is fluid proof & stain resistant.

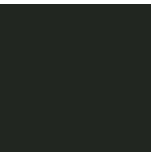
**Anti-slip fabric**  
#950

A high-quality, textured fabric placed on the inside of your apron to prevent slippage.

## SATINGUARD ANTI-MICROBIAL FABRICS\*



Featuring stain resistant and anti-microbial technology only available from Protech. Our soft poly material will resist a wide variety of bacteria for several years.



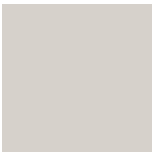
**Matte Black**  
#800



**Matte Bordeaux Red**  
#824



**Matte Cyan**  
#805



**Matte Light Gray**  
#815



**Matte Dark Gray**  
#813



**Matte Lilac**  
#817



**Matte Navy**  
#820



**Matte Fuschia**  
#810



**Matte Red**  
#825



**Matte Royal**  
#802



**Matte Dark Teal**  
#828



**Matte Light Teal**  
#830


\*Upcharge applies

## NYLONS

Unless specified otherwise, nylons come standard 210 denier.

								
Black #100	Burgundy #105	Forest Green #110	Gray #115	Green #120	Hot Pink #125	Marine Blue #135	Navy #140	Neon Green #145
								
Orange #150	Purple #155	Raspberry #160	Red #165	Rose #170	Royal #175	Tan #180	Teal #185	Yellow #190

## BINDING COLORS

								
Black	Gray	Tan	Burgundy	Red	Orange	Yellow	Neon Green	Green
								
Forest Green	Dark Teal	Light Teal	Marine Blue	Royal	Navy Blue	Purple	Raspberry	Hot Pink

RIPSTOP



Black  
#200



Brown  
#205



Burgundy  
#210



Chocolate  
#215



Forest Green  
#220



Green  
#225



Navy  
#230



Purple  
#235



Red  
#240



Royal Blue  
#245



Silver  
#250

WIPE-AWAY VINYL\*



Black  
#300



Silver  
#320



Burgundy  
Starlight  
#305

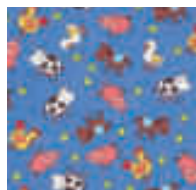
\*Upcharge applies



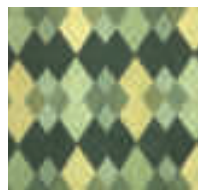
## CLASSIC PRINTS



70's Flowers  
#400



Animal Farm  
#405



Argyle Green  
#410



Asian Garden  
#415



Black Lace  
#417



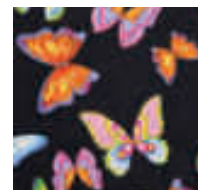
Blue Animal  
River #420



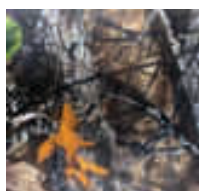
Blue Flame  
#425



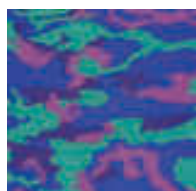
Brown Animal  
Spots #435



Butterfly  
#440



Camo - Back-  
woods #443



Camo - Cosmo  
#450



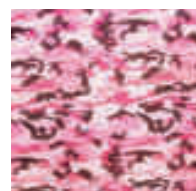
Camo - Digital  
Grey #455



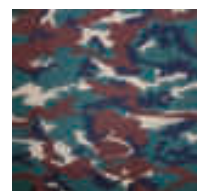
Camo - Pink  
#465



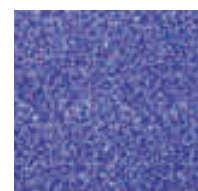
Camo - Small  
Blues #470



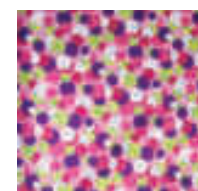
Camo - Small  
Pinks #475



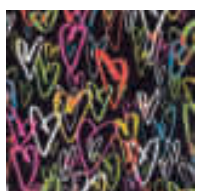
Camo - Yellow  
#480



Chicklets Blue  
#490



Circles  
#495



Crayon Hearts  
#500



Divebar  
#502



Dog Paw  
#505



Fire Tongues  
#510



Fleur De Lis  
#512



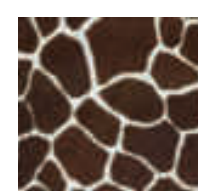
Fruity Pebbles  
#515



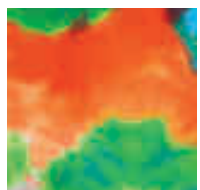
Galaxy - Multi  
#520



Galaxy - Royal  
#525



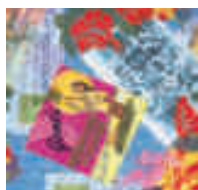
Giraffe - Brown  
#530



Green Neon  
Tie-Dye #540



Hawaiian  
#545



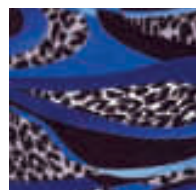
Hawaii Post-  
card #550



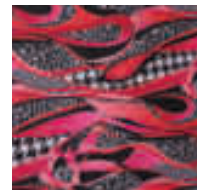
Leopard  
Print #560



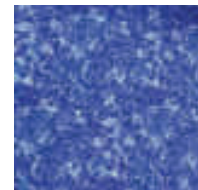
Lu Lu Grape  
#565



Mamba - Blue  
#575



Mamba - Pink  
#580



Marble Splash  
#585



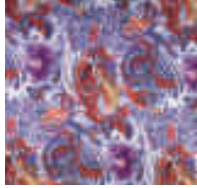
Mardi Gras  
#590



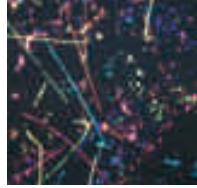
## CLASSIC PRINTS



Mystery - Multi  
#595



Painted Dragon  
#600



Paint Splash  
#605



Paw Prints  
#610



Plaid - Blue  
#615



Plaid - Green  
#620



Plaid - Light Pink  
#625



Plaid - Purple  
#630



Plaid - Tan  
#635



Plaid - Teal  
#640



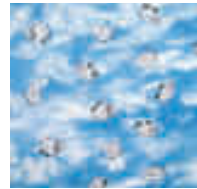
Purple Neon Tie-Dye  
#645



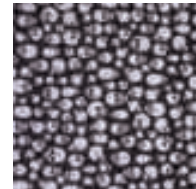
Rainbow  
#650



Red Dalmatian  
#655



Sheep  
#665



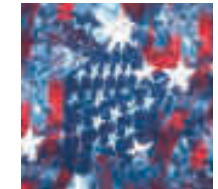
Skulls - Gray  
#670



Skulls - Red  
#675



Snake Skin  
#680



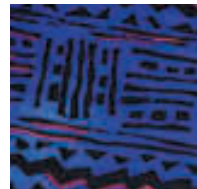
Star Gazer  
#685



Stars  
#690



Steel  
#695



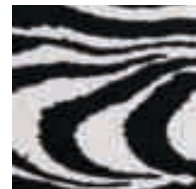
Surf Wax  
#705



Teal Splash  
#710



Tiger  
#715



Zebra  
#720

\*Upcharge applies

# 02

---

**Your eyes are 4 times more sensitive to radiation than other parts of your body. Leaded eyewear are intended to be worn by persons who are present in the operating room during medical procedures requiring the use of fluoroscopy. They are intended protect the eyes of the operator from x-ray radiation.**

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# EYEWEAR

## QUALITY. SERVICE. INTEGRITY.

Protech Medical is one of the largest US-based leaded eyewear manufacturers in the world. Our licensed opticians handcraft each frame, which are meticulously assembled and inspected with care.

Experience expert craftsmanship with Protech's leaded glasses, goggles, fitovers, faceshields, and prescription eyewear available in a variety of affordable and brand name options.

## WHO USES PROTECTIVE GLASSES?

Not too long ago, few doctors used leaded eyewear. With the increase in occurrences of early onset cataracts and other x-ray induced complications, lead glasses are now a staple in fluoroscopic procedures. Protective leaded eyewear is used by roughly **95% of physicians** and staff in the following vocations:



CARDIAC CATH



EP LABS



UROLOGY



INTERVENTIONAL  
RADIOLOGY



PAIN  
MANAGEMENT



ORTHOPEDIC  
SURGERY



## PROTECTION SUMMARY

Lead Equivalence - 0.50 or 0.75mm Pb  
X-ray Tube Voltage - 50 kV - 150 kV

IEC 61331-1:2014 Regulation (EU) 2016/425  
CE 2895



# OUR EYEWEAR BRANDS

Ray-Ban

OAKLEY



WILEY X<sup>TM</sup>

ABACO  
POLARIZED

**"The typical interventional cardiologist is exposed to 20 and 30 mSv each year. This level of exposure is nearly 10 times greater than the level of exposure received by the entire body."**

*-- US National Library of Medicine*

# FRAME SIZING

## THE BREAKDOWN

### Example frame size: Centrist (55-17-140)\*

In the above frame size, the 55 corresponds to "A" (Lens size), the 17 represents "B" (Bridge Size), and 140 is the length of "C" (Temple size). \*"B" Size not specified. NOTE: Not all frame sizes are representative of how a frame will fit. It is always best practice to try a frame on when possible. For instance, the Nike Brazen is a "large frame" based on its frame size, yet it fits a majority of men and women's faces.

**A**

#### EYE SIZE

Horizontally measured from outermost edges of the lens. Approx 40-62mm.

**B**

#### TEMPLE SIZE

Measurement of the distance between two lenses usually measured at the nose bridge.

**C**

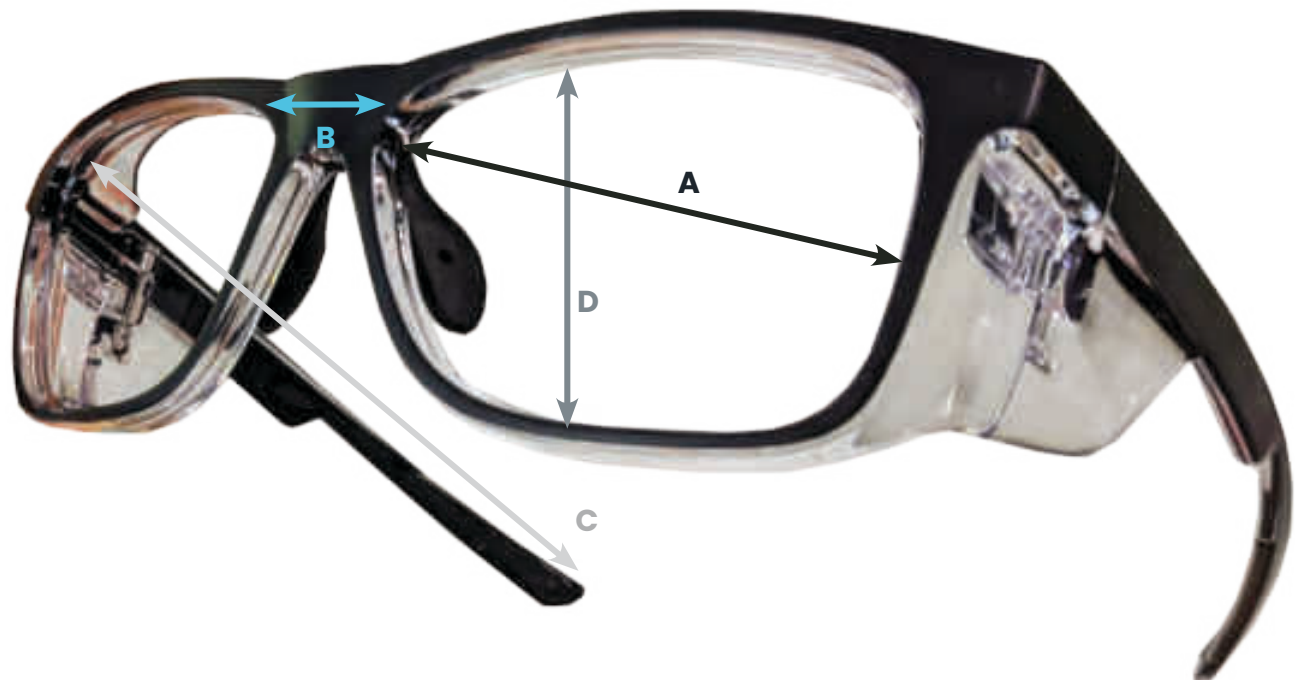
#### BRIDGE SIZE

Measurement of the temple arms that extend from the front of the frame over your ears. The length of your frame's temples is important to ensure stability and comfort.

**D**

#### "B" MEASUREMENT

Measurement of the height of the lenses. \*For Bifocal and Progressive lenses, a B measurement of at least 25mm is recommended.



# YOUR PERFECT FRAME

## WHAT TO LOOK FOR

### TEMPLES

The length and curvature of your frame's temples is important to ensure stability and comfort.

### TEMPLE GRIPS

Available with several eyewear styles, temple grips can provide comfort and stability for the wearer.

### LEAD GLASS

Lead glass lenses provide the main protection against x-ray. The lenses greatly influence weight so it is important to balance maximizing coverage with the need for comfort.

### SIDE SHIELDS

Side shields are essential for lateral protection. Some frames come standard with side shields and others are optional

### NOSE BRIDGE

A well-designed nose bridge is necessary for a proper fit. Flat nose bridges enable drilling for the addition of loupes.

### VENTILATED NOSE PADS

Ventilated nose pads keep the frame comfortably gripped on your face and can reduce fogging.



## 98 SUPERLITE



MODEL	RE-98
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	63g
FRAME SIZE	63-15-120
MATERIAL	Nylon
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Brown

The 98 Superlite is an ultra light-weight frame designed for comfort. Its high curvature provides enhanced lateral/side protection against x-ray. Rubberized temples provide a secure, comfortable fit.

### Features:

- **Rubberized nose pads and temple**
- **Lightweight Nylon Frame**
- **Highly curved lenses for optimal x-ray protection**



## 99 ULTRALITE



MODEL	RE-99/99SM/99R
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	67g   59.5g (SM)
FRAME SIZE	61-18-140   56-17-140 (SM)
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	64   58 (SM)
CE	Yes
COLORS	Brown (gold), Black, Blue, Silver, Fuschia

The 99 Ultralites provide a wide area of protection against x-ray. Their high curvature provide adequate lateral protection which eliminates the need for side shields. The 99 comes in 2 sizes and an optional soft rubber nose bridge for additional support and comfort (99R). (Blue only available in regular size; Fuschia available only in small size).

### Features:

- **Rubberized temples for added comfort**
- **Optional rubberized nosebridge (99R)**
- **Wide field of view**





## 9941 ULTRALITE



MODEL	RE-9941/9941A/994153
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	64g   60g (994153)
FRAME SIZE	55-22-130   53-22-130 (994153)
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Strips (optional for regular size)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	64   58 (994153)
CE	Yes
COLORS	Silver, Black, Red, Blue, Matte Black

The 9941 Ultralites come standard with a rubberized nose bridge. They are designed to offer comfort and provide protection for the entire eye area without the need of additional lead side shields. The 9941 is a popular frame and ideal for those who have a high power prescription. Available in 2 sizes and optional adjustable nose bridge for regular sized frame (9941A).

### Features:

- **Adjustable nose pads**
- **Rubberized temples for added comfort**
- **Ideal for high prescriptions**



## AIRBORNE



MODEL	RE-AIRB
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	74.7g
FRAME SIZE	57-21-145
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	62
CE	Yes
COLORS	Clear/Black

The Airborne is fully loaded with an Asian fit nose bridge, removable facial cavity, and curved lenses for optimal lateral x-ray protection.

### Features:

- **Removable facial cavity foam insert**
- **Rubberized Asian Fit Nose Bridge**
- **Highly curved lenses for optimal x-ray protection**



## CENTRIST



MODEL	RE-CENT
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	88g
FRAME SIZE	55-17-140
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Strips (included)
	Extended Side Shields (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Black Crystal

The Centrist is a rectangular style safety frame made from high quality nylon and has permanent extended side shields for added x-ray protection. The sleek black with clear insert frame has an adjustable nosepiece that provides comfort and a secure fit.

### Features:

- **Rubberized & adjustable Asian Fit Nose Bridge**
- **Extended Side Shields**



## CIRCUIT



MODEL	RE-CIRC
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	79g
FRAME SIZE	60-18-135
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Silver/Black, Red/Gray, Black/Gray

The Circuit frame features wrap-around lenses which maximize lateral protection without the use of side shields. Rubberized temples and nose pads provide excellent comfort and grip. The Circuits modern style combined with its optimized functionality ensure long lasting quality and protection.

### Features:

- **Rubberized temples for grip and comfort**
- **Versatile fit for all face types**
- **Wide field of view**



## MAKO



MODEL	RE-MAKO
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	69.3g
FRAME SIZE	65-15-130
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (included)
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Gray/Green

The Mako frame has highly curved lenses which maximize radiation protection coverage. Integrated side shields equipped with lead strip side shields provide essential lateral x-ray protection.

### Features:

- **Rubberized nose pads and temples for grip and comfort**
- **Highly curved frame for optimal x-ray protection**
- **Integrated lateral side shields**



## MALIBU



MODEL	RE-MALIB
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	68.1g
FRAME SIZE	54-20-155
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Matte Blue, Matte Black, Matte Brown, Shiny Black

The Malibu frame modernizes the classic wayfarer design and is offered in several tasteful color selections.

### Features:

- **Affordable and fashion forward**



## ONYX



MODEL	RE-ONYX
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	71.8g
FRAME SIZE	68-19-135
MATERIAL	Polycarbonate
SIDE SHIELDS	None
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black, Shiny White

Deep stylistic curves and wide angle lenses combine style with maximum x-ray protection. The Onyx frame features a ventilated nose bridge for better grip, increased comfort, and reduced fogging.

### Features:

- **Highly curved lenses for optimal x-ray protection**
- **Rubberized, ventilated nose bridge**



## RAZER



MODEL	RE-RAZER
FRAME TYPE	Wraparound
FRONT LENS	0.75mm Pb Glass
WEIGHT	62.5g
FRAME SIZE	58-17-135
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb (attached side shield included)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	59
CE	Yes
COLORS	Matte Green, Matte Black, Matte Gray, Matte Blue, Matte Red

The Razer blends a sleek design into a lightweight and durable frame. Its premium features such as a ventilated nose bridge, rubberized temples, and wide-angle lenses maximize comfort and protection from x-ray. The modern style and use of light-weight materials make the Razer an excellent choice for long-procedures.

### Features:

- **Ventilated, rubberized nose bridge**
- **Rubberized Temples for grip and comfort**
- **Removable 0.50mm LE side shield inserts**
- **Lightweight frame**





## 53 WRAP



MODEL	RE-53/53A
FRAME TYPE	Classic
FRONT LENS	0.75mm Pb Glass
WEIGHT	84g
FRAME SIZE	58-16-135
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Glass (included) or 0.75mm Pb Glass (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	62
CE	Yes
COLORS	Matte Black, Glossy Black, Tortoise

The 53 wrap is constructed of durable nylon that exhibits superior flexibility while minimizing potential breakage. Its full saddle bridge provides maximum comfort and evenly distributes weight over the nose. Available with adjustable nose pads (53A).

### Features:

- **Optional adjustable nose pads (53A)**
- **Spring Hinge Temples**
- **Built-in, glass side shields**



## MODERN METAL



MODEL	RE-002
FRAME TYPE	Metals
FRONT LENS	0.75mm Pb Glass
WEIGHT	73g
FRAME SIZE	48-20-135
MATERIAL	Optical Steel
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Gold, Light Gunmetal

The ultra light-weight model 002 features a thin wire frame with optional contoured side shields. Non-slip, silicone nose pads offer easy adjustability and allow the frame to fit a wide variety of face types.

### Features:

- **Optional 0.50mm LE side shields**
- **Adjustable silicone nose pads**
- **Versatile fit for all face types**



## METAL AVIATOR



MODEL	RE-003
FRAME TYPE	Metals
FRONT LENS	0.75mm Pb Glass
WEIGHT	82g
FRAME SIZE	54-17-150
MATERIAL	Optical Steel
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	64
CE	Yes
COLORS	Gold

The Aviator frame is a bold edition to our leaded eyewear lineup. Non-slip, silicone nose pads offer easy adjustability and allow the frame to fit a wide variety of face types.

### Features:

- **Optional 0.50mm LE side shields**
- **Adjustable silicone nose pads**
- **Versatile fit for all face types**



## PETITE METAL



MODEL	RE-007
FRAME TYPE	Metals
FRONT LENS	0.75mm Pb Glass
WEIGHT	63g
FRAME SIZE	52-22-150
MATERIAL	Optical Steel
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Gold, Light Gunmetal

The model 007 is a classic style made of optical steel with bronze electroplate. Non-slip, silicone nose pads offer easy adjustability and allow the frame to fit a wide variety of face types.

### Features:

- **Optional 0.50mm LE side shields**
- **Adjustable silicone nose pads**
- **Versatile fit for all face types**



## CLASSIC METAL



MODEL	RE-008
FRAME TYPE	Metals
FRONT LENS	0.75mm Pb Glass
WEIGHT	64g
FRAME SIZE	54-19-140
MATERIAL	Optical Steel
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Gold

Available in a beautiful light-blue color, this retro style frame is an aesthetically pleasing option for metal wire frames. The classic metal frame come standard with 0.50mm LE side shields for maximum lateral coverage. Non-slip, silicone nose pads offer easy adjustability and allow the frame to fit a wide variety of face types.

### Features:

- **0.50mm LE side shields included**
- **Adjustable silicone nose pads**
- **Versatile fit for all face types**



## 553S METALITE



MODEL	RE-553S
FRAME TYPE	Metals
FRONT LENS	0.75mm Pb Glass
WEIGHT	62g
FRAME SIZE	50-18-140
MATERIAL	Optical Steel
SIDE SHIELDS	0.50mm Pb Strips (included)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Silver

The model 553 is a metal frame featuring custom fitted 0.50mm lead strip side shields that create a seal to the front lenses for complete lateral coverage. Its silver color and retro style offer a classic look while non-slip, silicone nose pads provide easy adjustability and allow the frame to fit a wide variety of face types.

### Features:

- **0.50mm LE side shields included**
- **Adjustable silicone nose pads**
- **Versatile fit for all face types**



## 557S METALITE



MODEL	RE-557S
FRAME TYPE	Metals
FRONT LENS	0.75mm Pb Glass
WEIGHT	63g
FRAME SIZE	48-20-135
MATERIAL	Optical Steel
SIDE SHIELDS	0.50mm Pb Strips (included)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Gold

The model 557 is a metal frame featuring custom fitted 0.50mm lead strip side shields that create a seal to the front lenses for complete lateral coverage. Its gold color and retro style offer a classic look while non-slip, silicone nose pads provide easy adjustability and allow the frame to fit a wide variety of face types.

### Features:

- **0.50mm LE side shields included**
- **Adjustable silicone nose pads**
- **Versatile fit for all face types**



## 661/662S METALITE



MODEL	RE-661/662S
FRAME TYPE	Metals
FRONT LENS	0.75mm Pb Glass
WEIGHT	54g   70g (662S)
FRAME SIZE	52-18-144   52-18-145 (662S)
MATERIAL	Optical Steel
SIDE SHIELDS	0.50mm Pb Strips (included - 662S)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	62
CE	Yes
COLORS	Gold

The model 662 is a metal frame featuring custom fitted 0.50mm lead strip side shields that create a seal to the front lenses for complete lateral coverage. Its gold color and modern shape provide a refreshed look while non-slip, silicone nose pads provide easy adjustability and allow the frame to fit a wide variety of face types.

### Features:

- **0.50mm LE side shields included**
- **Adjustable silicone nose pads**
- **Versatile fit for all face types**





## 90 FITOVER



MODEL	RE-90
FRAME TYPE	Fitovers
FRONT LENS	0.75mm Pb Glass
WEIGHT	112g
FRAME SIZE	66-14-120
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Glass (included) or 0.75mm Pb Glass (optional)
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black

Designed to fit over prescription eyewear, model 90 fitovers are an excellent choice for those requiring protection against x-ray and liquid splashes. The large, clear side shields protect the user from lateral exposure while eliminating the “tunnel” effects of look-alikes.

### Features:

- **Wide angle field of view**
- **Large glass side shields help eliminate “tunnel effect”**



## FITGUARD ALPHA



MODEL	RE-FGUARDA
FRAME TYPE	Fitovers
FRONT LENS	0.75mm Pb Glass
WEIGHT	91g
FRAME SIZE	69-17-145
MATERIAL	Rubberized Matte Black Finish
SIDE SHIELDS	0.50mm Pb Strips (included)
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black

The Fitguard Alpha fitover is a versatile, high quality nylon frame with blacked-out side shields and a streamlined look. Featuring Flexfit technology, the fitover’s temples can be easily adjusted for a secure, comfortable fit. The Alpha (XL) model is ideal for covering wide, rectangular shaped prescription eyewear. With balanced weight distribution and the most coverage, the Alpha is our most popular fitover model.

### Features:

- **Adjustable temples**
- **Highly durable frame**
- **Ideal for wide prescription eyewear**



## FITGUARD BETA



MODEL	RE-FGUARDB
FRAME TYPE	Fitovers
FRONT LENS	0.75mm Pb Glass
WEIGHT	108g
FRAME SIZE	64-18-150
MATERIAL	Rubberized Matte Black Finish
SIDE SHIELDS	0.50mm Pb Strips (included)
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black

The Fitguard Beta fitover is a versatile, high quality nylon frame with blacked-out side shields and a streamlined look. Featuring Flexfit technology, the fitover's temples can be benched (adjusted) easily for a secure, comfortable fit. The Beta (LG) model is ideal for covering taller, more square shaped prescription eyewear.

### Features:

- **Adjustable temples**
- **Highly durable frame**
- **Ideal for fitting over eyewear with square or rounded lenses**



## FULL FACE SHIELD



MODEL	450FPM
FRAME TYPE	Face Shields
FRONT LENS	0.10mm Pb Acrylic
WEIGHT	350g
FRAME SIZE	Adjustable 20" - 25" circumference
MATERIAL	N/A
SIDE SHIELDS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Black/Clear

The Full Face Shield uses a lead impregnated protective acrylic shield suspended from a dual adjustable headpiece. The Full face shield provides maximum x-ray protection due to its larger lead impregnated shield. Because of the multi-adjustable headpiece, you can angle the mask to protect from radiation in many different positions as well as adjust the size to comfortably fit your head. \*Mask should be worn with leaded eyewear protection.



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## PANORAMIC FACE SHIELD

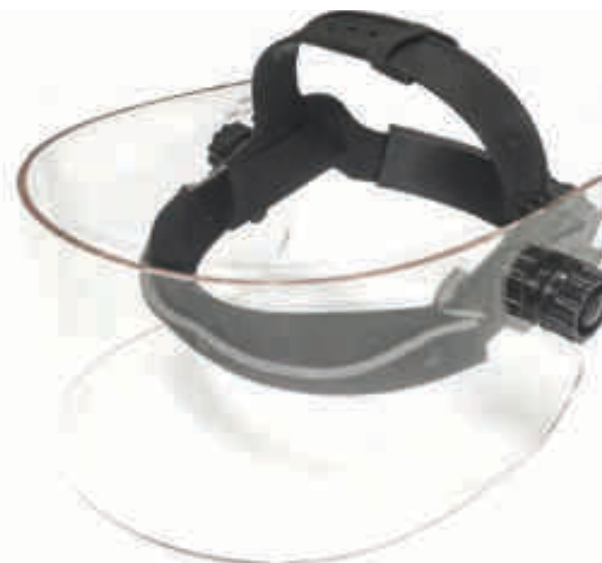


MODEL	400PSM
FRAME TYPE	Face Shields
FRONT LENS	0.10mm Pb Acrylic
WEIGHT	425g
FRAME SIZE	Adjustable 20" - 25" circumference
MATERIAL	N/A
SIDE SHIELDS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Black/Clear

The Panoramic Face Shield utilizes a lead impregnated acrylic shield suspended from a dual adjustable headpiece. This lead face shield provides additional x-ray protection around the sides of the head while sacrificing some front protection. Because of the multi-adjustable headpiece, you can angle the mask to protect from radiation in many different positions as well as adjust the size to comfortably fit your head. \*Mask should be worn with leaded eyewear protection.



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## 70 ASTROFLEX



MODEL	RE-70S
FRAME TYPE	Goggles
FRONT LENS	0.75mm Pb Glass
WEIGHT	88g
FRAME SIZE	54-19-Adjustable
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (included)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	62
CE	Yes
COLORS	Clear/Blue

Impact resistance and flexibility come together in this high quality goggle. The frame features molded side shielding and is fitted to the brow for increased splash protection. The temple length and frame angle are adjustable for a uniform custom fit. Model 70S comes with leaded side shields for necessary lateral x-ray coverage.

### Features:

- Adjustable temples
- Wide field of view



## COMET ECONOMY



MODEL	RE-COM
FRAME TYPE	Goggles
FRONT LENS	0.75mm Pb Glass
WEIGHT	65g
FRAME SIZE	50-19-117
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (included) Extended Side shield Seal (optional)
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Orange/Black, Yellow/Black, Black

The Comet Economy is an affordable option providing excellent coverage against x-ray. The side shield configuration allows for lead shielding to be placed on the frame exterior and wrap around the entire lens area, providing a complete seal from scatter radiation.

### Features:

- **Rubberized nose-fit bridge and temples for grip and comfort**
- **Foam top bar for added comfort**
- **Optional Extended side shields**
- **Wide field of view**



## COMET



MODEL	RE-COMET
FRAME TYPE	Goggles
FRONT LENS	0.75mm Pb Glass
WEIGHT	78.3g
FRAME SIZE	59-19-114
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (included) Extended Side shield Seal (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	64
CE	Yes
COLORS	Blue, Gray/Orange, Pink

A sleek and versatile relative to the Proguard LeadR's frame, the Comet provides excellent coverage against x-ray. Its unique side shield configuration allows for lead shielding to be placed on the frame exterior and wrap around the entire lens area, providing a complete seal from scatter radiation.

### Features:

- **Rubberized nose-fit bridge and temples for grip and comfort**
- **Foam top bar for added comfort**
- **Optional Extended side shields**
- **Wide field of view**





## LEAD'R



MODEL	RE-OG220
FRAME TYPE	Goggles
FRONT LENS	0.75mm Pb Glass
WEIGHT	76.7g
FRAME SIZE	58-15-135
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (included)
	Extended Side Shields (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	66
CE	Yes
COLORS	Black, Gray/Pink, Green/Yellow, White/Purple

The LeadR's feature a soft, ventilated nose bridge with rubberized temples for premium comfort. Each LeadR's frame comes with the added protection of 0.50mm leaded side shields and the ability to extend that side protection into an additional panel.

### Features:

- **Wide field of view**
- **Rubberized, ventilated nose bridge**
- **Rubberized, curved temples**
- **Foam top bar for added comfort**
- **Optional Extended side shields**



## X-GUARD



MODEL	RE-XGUARD
FRAME TYPE	Goggles
FRONT LENS	0.75mm Pb Glass
WEIGHT	81.8g
FRAME SIZE	58-18-135
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (included)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	62
CE	Yes
COLORS	Black/Woodgrain, Matte Black

Tired of the basic goggle selections for radiation protection? So are we! The X Guard goggle features a premium, clear insert, lead strip side shields for lateral coverage (shown in black model below), and tasteful color options.

### Features:

- **Wide field of view**
- **Removable side shield insert**



## ABACO DOCKSIDE



MODEL	AB-DOCK
FRAME TYPE	Brand - Abaco
FRONT LENS	0.75mm Pb Glass
WEIGHT	72g
FRAME SIZE	58-19-135
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	60
CE	Yes
COLORS	Black, Crystal Clear

Dockside glasses have a bold square style in an impact-resistant polycarbonate frame featuring premium metal hinges. These fashion forward frames are both durable and lightweight.

### Features:

- **Lightweight frame**
- **Versatile fit for all face types (unisex)**



## ABACO JESSE



MODEL	AB-JES
FRAME TYPE	Brand - Abaco
FRONT LENS	0.75mm Pb Glass
WEIGHT	68g
FRAME SIZE	56-18-142
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	60
CE	Yes
COLORS	Matte Black

These unisex, universally flattering eyewear are made of soft, lightweight polycarbonate. They feature characteristic rivets at the temples and extremely flexible spring hinges for a snug, comfortable fit.

### Features:

- **Lightweight frame**
- **Versatile fit for all face types (unisex)**



## ABACO KAI



MODEL	AB-KAI
FRAME TYPE	Brand - Abaco
FRONT LENS	0.75mm Pb Glass
WEIGHT	65g
FRAME SIZE	56-18-135
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	60
CE	Yes
COLORS	Crystal Clear, Matte Black

Made of shatter-resistant, lightweight polycarbonate, the frames feature premium metal hinges and are molded around the ears to provide a comfortable fit. These unisex sunglasses complement a variety of facial shapes, and they fit virtually all faces from small to large.

### Features:

- **Lightweight frame**
- **Versatile fit for all face types (unisex)**



## ABACO TIKI



MODEL	AB-TIKI
FRAME TYPE	Brand - Abaco
FRONT LENS	0.75mm Pb Glass
WEIGHT	70g
FRAME SIZE	54-21-140
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	60
CE	Yes
COLORS	Dark Wood

This classic style frame is made of a wood inspired, strong and lightweight polycarbonate. They feature characteristic rivets at the temples, standard hinges, and they are molded around the ears for added comfort. These unisex, universally flattering eyewear fit all faces from small to large.

### Features:

- **Lightweight frame**
- **Versatile fit for all face types (unisex)**



## ABACO WAIKIKI



MODEL	AB-WAI
FRAME TYPE	Brand - Abaco
FRONT LENS	0.75mm Pb Glass
WEIGHT	68g
FRAME SIZE	54-21-140
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	60
CE	Yes
COLORS	Tortoise, Gloss Black

This revived version of an iconic classic features a lightweight polycarbonate frame to provide durability and a comfortable fit. These sunglasses feature characteristic rivet details on the front, premium metal hinges, and they are molded around the ears for added comfort. These eyewear look good on virtually everyone.

### Features:

- **Lightweight frame**
- **Versatile fit for all face types (unisex)**



## NIKE 7118



MODEL	N-7118
FRAME TYPE	Brand - Nike
FRONT LENS	0.75mm Pb Glass
WEIGHT	71.5g
FRAME SIZE	55-14-140
MATERIAL	Bioplastics
SIDE SHIELDS	0.50mm Pb Removable Side Shields (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	55
CE	No
COLORS	Matte Midnight Navy, Matte Black/Blue

The Nike 7118 lead glasses are a retro-chic, gender-neutral frame made of lightweight, bio-plastic. Featuring rubberized nose pads and temple tips, the 7118 protective eyewear are a comfortable "all-day-wear" option.

### Features:

- **Rubberized nose pads and temple tips**
- **Temporary Removable Side Shields (optional)**
- **Lightweight and durable plant-based frame (bioplastics)**





## NIKE BRAZEN



MODEL	N-BR
FRAME TYPE	Brand - Nike
FRONT LENS	0.75mm Pb Glass
WEIGHT	75g
FRAME SIZE	60-16-140
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	66 (Min. Single Vision PD: 64)
CE	Yes
COLORS	Matte Black with Blue, Shiny Black

The Nike Brazen features an advanced ventilated nose bridge for grip, comfort, and reduced fogging. Its lightweight nylon design combines streamlined style with enhanced comfort. The premium Nike Brazen frame offers versatility with its superior coverage and protection and fits a wide range of people.

### Features:

- **Rubberized, ventilated nose bridge**
- **Lightweight frame**
- **Superior coverage for optimal x-ray protection**



## NIKE BRAZEN FURY



MODEL	N-BRF
FRAME TYPE	Brand - Nike
FRONT LENS	0.75mm Pb Glass
WEIGHT	-
FRAME SIZE	60-17-130
MATERIAL	Bioplastics
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	64
CE	No
COLORS	Matte Black with Green, Matte Gray/Blue

The Nike Brazen Fury features rubberized nose pads and temple tips for added grip and comfort. With super-comfortable features in a lightweight frame, they're an ideal pair for active and everyday wear.

### Features:

- **Rubberized nose pads and temple tips**
- **Lightweight and durable plant-based frame (bioplastics)**



## NIKE MAVERICK



MODEL	N-MAV
FRAME TYPE	Brand - Nike
FRONT LENS	0.75mm Pb Glass
WEIGHT	70.3g
FRAME SIZE	59-15-145
MATERIAL	Nylon
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	64
CE	No
COLORS	Matte Black

Utilizing Nike's unique nose bridge design, the Maverick frame reduces fogging and maximizes comfort during long fluoroscopic procedures.

### Features:

- **Unique nose bridge design for fog reduction**
- **Lightweight frame**



## NIKE PREMIER



MODEL	N-PRMR
FRAME TYPE	Brand - Nike
FRONT LENS	0.75mm Pb Glass
WEIGHT	67.8g
FRAME SIZE	60-13-135
MATERIAL	Nylon
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	64
CE	No
COLORS	Matte Tortoise, Matte Anthracite, Matte Black

The Nike Premier is reborn with a diverse selection of colors and tasteful design elements. The Premier's large rectangular lenses provide adequate x-ray protection and coverage.

### Features:

- **Large, rectangular lenses**
- **Lightweight**



## NIKE RABID



MODEL	N-RABID
FRAME TYPE	Brand - Nike
FRONT LENS	0.75mm Pb Glass
WEIGHT	63g
FRAME SIZE	63-14-145
MATERIAL	Nylon
SIDE SHIELDS	N/A
RX OPTIONS	None
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black/White

The Rabid is a high-curvature sports frame providing superior wraparound coverage and protection. Its lightweight nylon design and wide lenses provides clarity at all angles during any procedure. Secure Wrap Technology features grip zones throughout the frame for a better overall fit, comfort, and stability.

### Features:

- **High curvature frame for wraparound coverage and optimal x-ray protection**
- **Lightweight frame**
- **Superior grip for stability and comfort**



## LIBERTY MAXX 30



MODEL	LBT-MAX30S (small)   LBT-MAX30 (reg.)
FRAME TYPE	Brand - Liberty
FRONT LENS	0.75mm Pb Glass
WEIGHT	60g (small)   69g (reg.)
FRAME SIZE	53-17-130 (small)   55-20-130 (reg.)
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	56
CE	Yes
COLORS	Shiny Black, Shiny Blue, Shiny Red, Shiny Silver

The Liberty Maxx's hingeless temples are ultra-sturdy while the head strap keeps these glasses fitting securely during long procedures. Soft padding inside the temples and bridge ensures maximum comfort and the best possible fit.

### Features:

- **Available in 2 sizes**
- **Hingeless temples for a secure fit**
- **Can accommodate wide range of prescriptions**
- **Versatile fit for all face types (unisex)**
- **Rubberized nose bridge and temples for added comfort and fit**



## LIBERTY MAXX 31



MODEL	LBT-MAX31S (small)   LBT-MAX31 (reg.)
FRAME TYPE	Brand - Liberty
FRONT LENS	0.75mm Pb Glass
WEIGHT	60g (small)   64g (reg.)
FRAME SIZE	53-17-130 (small)   55-20-130 (reg.)
MATERIAL	Polycarbonate
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	56
CE	Yes
COLORS	Shiny Blue, Shiny Black, Shiny Silver

The Liberty Maxx's head strap keeps these glasses fitting securely during long procedures. Soft padding inside the temples and bridge ensures maximum comfort and the best possible fit.

### Features:

- Available in 2 sizes
- Shortened temples with a fitted head strap
- Can accommodate wide range of prescriptions
- Versatile fit for all face types (unisex)
- Rubberized nose bridge for comfort



## OAKLEY CROSSLINK ZERO



MODEL	OA-CROSS
FRAME TYPE	Brand - Oakley
FRONT LENS	0.75mm Pb Glass
WEIGHT	61.6g
FRAME SIZE	58-16-138
MATERIAL	Durable O Matter™
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	56
CE	Yes
COLORS	Matte Black, Polished Gray Shadow

The Crosslink Zero has fixed temples with a three-Point Fit to ensure lenses are aligned for visual correction. Wire cores hidden inside the temples of this lightweight frame offer adjustability for a perfect fit.

### Features:

- Rubberized nose pads and ear socks for added comfort
- Lightweight frame





## OAKLEY FIVE SQUARED



MODEL	OA-FIVESQ
FRAME TYPE	Brand - Oakley
FRONT LENS	0.75mm Pb Glass
WEIGHT	71g
FRAME SIZE	54-20-135
MATERIAL	Durable O Matter™
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Polished Black, Gray Smoke

Oakley Five Squared leaded glasses uses Condensed Cranial Geometry for a tapered architecture that feels as good as it looks and it's a look that soaks sophistication in adrenalin. Dimensional reliefs, metal icons and sculpturally integrated hinges take the whole idea of streetsmooth style and amp it with attitude.

### Features:

- Lightweight frame



## OAKLEY HOLBROOK



MODEL	OA-HOL
FRAME TYPE	Brand - Oakley
FRONT LENS	0.75mm Pb Glass
WEIGHT	66.5g
FRAME SIZE	56-18-135
MATERIAL	Durable O Matter™
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	60
CE	No
COLORS	Polished Clear, Satin Black, Matte Brown Tortoise

The Oakley Holbrook frame combines traditional design with modern style and flare.

### Features:

- Lightweight frame



## OAKLEY JUPITER SQUARED



MODEL	OA-JUP
FRAME TYPE	Brand - Oakley
FRONT LENS	0.75mm Pb Glass
WEIGHT	74.1g
FRAME SIZE	56-18-135
MATERIAL	Durable O Matter™
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	66
CE	Yes
COLORS	Matte Black - USA Flag

A customer favorite, the sporty Jupiter Squared is attitude with refinement. The handles of switchblade knives inspired the earstems and their metal bands and rivets. The Matte Black frames of the Flag Collection are highlighted with American flag emblems.

### Features:

- **Rubberized ear socks for added grip and comfort**
- **American flag on Oakley "O" Logo**



## OAKLEY LITEBEAM



MODEL	OA-LITE
FRAME TYPE	Brand - Oakley
FRONT LENS	0.75mm Pb Glass
WEIGHT	59.6g
FRAME SIZE	55-18-140
MATERIAL	Durable O Matter™
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	60
CE	No
COLORS	Satin Black

Smooth details and streamlined design provide a timeless look with the Oakley Litebeam. Composed of lightweight materials, the Litebeam features adjustable temples and comes with several nosebridge sizes to ensure maximum comfort.

### Features:

- **Lightweight frame**
- **Adjustable temples for a perfect fit**



## OAKLEY STRAIGHTLINK



MODEL	OA-STRGHT
FRAME TYPE	Brand - Oakley
FRONT LENS	0.75mm Pb Glass
WEIGHT	77.2g
FRAME SIZE	61-19-130
MATERIAL	Durable O Matter™
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black

Unobtainium® earsocks and nosepads increase grip with perspiration for a no slip grip. Three-Point Fit holds lenses in precise optical alignment while eliminating pressure points. O Matter™ stress-resistant frame material is both lightweight and durable for all-day comfort and protection.

### Features:

- **Lightweight frame**
- **Optimised weight distribution and alignment**
- **Rubberized ear socks and nose pads for comfort and grip**



## OAKLEY TRILLBE X



MODEL	OA-TRILL
FRAME TYPE	Brand - Oakley
FRONT LENS	0.75mm Pb Glass
WEIGHT	64g
FRAME SIZE	52-18-140
MATERIAL	Durable O Matter™
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	58
CE	Yes
COLORS	Polished Clear, Matte Black

Designed for small to medium faces, this comfortably lightweight addition to the Trillbe™ Collection has a softly rounded front with a sculptured keyhole bridge, and its stem architecture takes vintage style into modern territory.

### Features:

- **Lightweight frame**
- **Designed for small to medium faces**



## RAY BAN 2016 DADDY-O



MODEL	RB-2016
FRAME TYPE	Brand - Ray Ban
FRONT LENS	0.75mm Pb Glass
WEIGHT	61g
FRAME SIZE	59-17-125
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Strips (optional)
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	65
CE	Yes
COLORS	Matte Black

Go 100% classic Ray-Ban with the laid back, classic style of Daddy-O.

### Features:

- **Lightweight frame**
- **Excellent coverage for maximum x-ray protection**



## RAY BAN 3534



MODEL	RB-3534
FRAME TYPE	Brand - Ray Ban
FRONT LENS	0.75mm Pb Glass
WEIGHT	63g
FRAME SIZE	59-20-135
MATERIAL	Metal
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Gunmetal, Black

Originality and style come together with the 3534. The hardened metal frame is tough and sporty with a classic finish.

### Features:

- **Rubberized ear socks for added comfort and grip**
- **Adjustable, silicone nose pads for personalized fit**





## RAY BAN 4105



MODEL	RB-4105
FRAME TYPE	Brand - Ray Ban
FRONT LENS	0.75mm Pb Glass
WEIGHT	62g
FRAME SIZE	50-23-140
MATERIAL	Nylon
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	65
CE	Yes
COLORS	Matte Black

The Ray-Ban Classic Wayfarer look with a twist: the glasses are foldable. Modeled after Ray-Ban's iconic design, the 4105 was reconstructed into a compact, folding, light weight frame.

### Features:

- **Impact resistant, durable nylon**
- **Compact folding style for ease of portability**



## RAY BAN 4165F JUSTIN



MODEL	RB-4165
FRAME TYPE	Brand - Ray Ban
FRONT LENS	0.75mm Pb Glass
WEIGHT	73g
FRAME SIZE	55-18-145
MATERIAL	Nylon
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	65
CE	Yes
COLORS	Matte Black

Bold, Fun and Unforgettable, the 4165F glasses may just be one of the coolest looks in the Ray-Ban collection. Inspired by the iconic Wayfarer sunglasses, this style has been redesigned with slightly larger rectangle lenses, fresh new frame colors, and a rubberized frame finish to really give it that extra edge.

### Features:

- **Rubberized frame finish for no-slip grip and comfort**
- **Durable nylon**





## RAY BAN 4181

MODEL	RB-4181
FRAME TYPE	Brand - Ray Ban
FRONT LENS	0.75mm Pb Glass
WEIGHT	71.4g
FRAME SIZE	57-16-145
MATERIAL	Injected Plastic
SIDE SHIELDS	N/A
RX OPTIONS	Single Vision, Bifocal, Progressive
MIN PRG PD	65
CE	No
COLORS	Tortoise

The stylistically distinct and unassuming Ray Ban model 4181 serves as a timeless option for radiation protection with class.

**Features:**

- **Versatile fit for all face types (unisex)**



## RAY BAN 7047

MODEL	RB-7047
FRAME TYPE	Brand - Ray Ban
FRONT LENS	0.75mm Pb Glass
WEIGHT	63g
FRAME SIZE	54-17-140
MATERIAL	Injected Plastic
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	No
COLORS	Black, Blue, Brown

A sharper more self assured Ray Ban style, the model 7047 is full of confidence and style. Composed of light-weight materials, the 7047 provides comfortable, long lasting protection against x-ray.

**Features:**

- **Wide fit temples for a comfortable fit**



## WILEY-X AIRRAGE

MODEL	WX-AIRR
FRAME TYPE	Brand - Wiley-X
FRONT LENS	0.75mm Pb Glass
WEIGHT	67.5g
FRAME SIZE	61-18-124
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	No
COLORS	Matte Black

The Wiley X Airrage frame features a facial foam cavity seal and high curved lenses for maximum comfort and protection against x-ray.

### Features:

- **Facial foam cavity for added comfort**
- **Highly curved lenses for optimal x-ray protection**
- **Durable frame**



## WILEY-X BOSS

MODEL	WX-BOSS
FRAME TYPE	Brand - Wiley-X
FRONT LENS	0.75mm Pb Glass
WEIGHT	84.5g
FRAME SIZE	68-18-125
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black



Featuring highly curved lenses, the Wiley X Boss provides excellent x-ray protection.

### Features:

- **Removable facial foam cavity seal for added comfort**
- **Highly curved lenses for optimal x-ray protection**
- **Durable frame**
- **Maximum splash protection**



**Facial Cavity Seal**



## WILEY-X BRICK



MODEL	WX-BRICK
FRAME TYPE	Brand - Wiley-X
FRONT LENS	0.75mm Pb Glass
WEIGHT	74g
FRAME SIZE	63-18-120
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black

The Wiley X Brick is part of a long line of military inspired frames with sleek, modern designs. The Wiley X Brick's highly curved 8 base lenses provide excellent coverage against x-ray and feature a removable facial cavity seal to protect against debris and splash exposure.

### Features:

- Removable facial foam cavity seal for added comfort
- Highly curved lenses for optimal x-ray protection
- Durable frame
- Rubberized, flexible temple arms



Facial Cavity Seal



## WILEY-X CONTOUR



MODEL	WX-CON
FRAME TYPE	Brand - Wiley-X
FRONT LENS	0.75mm Pb Glass
WEIGHT	62.3g
FRAME SIZE	54-17-140
MATERIAL	Nylon
SIDE SHIELDS	0.50mm Pb Inserts (included)
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Matte Black, Gloss Black/Brown Stripe

With the move to branded lead glasses, the Wiley X Contour is the whole package. Its retro style and modern color palette deliver on appeal, while optional premium side shield inserts are also available for maximum coverage against x-ray.

### Features:

- Removable 0.50mm side shield inserts
- Durable, lightweight frame





## WILEY-X P-17



MODEL	WX-P17
FRAME TYPE	Brand - Wiley-X
FRONT LENS	0.75mm Pb Glass
WEIGHT	68g
FRAME SIZE	60-18-125
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Gloss Black, Matte Black, Brown

The Wiley X P-17 is a frame inspired by the military. Its sleek design and lightweight comfort provide unparalleled performance. The Wiley X P-17 is ideal for medium to large facial structures and comes standard with high curvature 0.75mm LE lenses.

### Features:

- Ideal for medium to large face types
- Highly curved lenses for optimal x-ray protection
- Durable frame



## TUGGA BABY



MODEL	RE-BABY
FRAME TYPE	Goggles
FRONT LENS	0.75mm Pb Glass
WEIGHT	42g
FRAME SIZE	46-18
MATERIAL	Polycarbonate
SIDE SHIELDS	N/A
RX OPTIONS	N/A
MIN PRG PD	N/A
CE	Yes
COLORS	Shiny Pink, Shiny Blue, Shiny Green

Protech's Tugga Baby pediatric glasses provide essential protection during medical fluoroscopy and feature a universal fit with its adjustable headband.

### Features:

- Adjustable headband for universal fit



# EYEWEAR ADDONS

## LATERAL SIDE SHIELDS

Many of our frames come with side shields for maximum protection. There are two types of side shields - glass and vinyl strips. **For both the vinyl strips and glass side shields, the standard protection is 0.50mm Pb.** Some frames are able to accommodate a 0.75mm Pb glass, such as the 53 Wrap shown here (Fig A.).



Fig A - Side shield example - 0.75mm Pb Glass



Side shield example - 0.50mm Pb strip



**All eyewear purchases come with a hard case, pouch and cleaning cloth.**

## AR COATING

An anti-reflective coating eliminates the reflection produced by light on eyewear lenses. **Once an AR coat has been applied, 99.5% of available light will be able to pass through your lenses (compared to 85%) which enhances visual acuity and reduces eye strain.** During procedures, an anti-reflective coating is particularly important to reduce the reflections and light disturbances caused by operational and lighting equipment.

# ACCESSORIES



RE-CLEAN

RE-CLOTH



RE-CASE-LG-S

RE-CASE



RE-STRAP



RE-STRAP2

ITEM CODE	DESCRIPTION
RE-CASE	Honeycomb Hard Case
RE-CASE-LG-S	Soft Neoprene Case - Large
RE-STRAP	Simple Square Slider Eyewear Strap
RE-STRAP2	Lobster Claw Eyewear Strap
RE-CLEAN	Anti-fog Eyewear Lens Cleaner 1 fl. oz
RE-CLOTH	Soft Eyewear Cloth Wipe

								Prescription (Rx) Options					Included Accessories	
Model	Size	Base Curve	Weight (g)	Side Shields	CE	Material	Frame Type	Single Vision	Bifocal	Progressive	Min. PRO PD	Powers		
Protech Frames														
Fitovers														
90 Fitover	66-14-120	4BC 80	112	Incl	Y	Nylon	Fitover	-	-	-	-	-	OEM: C, ST, CL	
FitGuard Alpha	69-17-145	4BC 80	91	Incl	Y	Nylon	Fitover	-	-	-	-	-	OEM: C, ST, CL	
FitGuard Beta	64-18-150	4BC 80	108	Incl	Y	Nylon	Fitover	-	-	-	-	-	OEM: C, ST, CL	
Goggles														
70s Astroflex	54-19-ADJ	4BC 65	88	Incl	Y	Polycarbonate	Goggle	✓	✓	✓	62	8.00 to -9.00	OEM: C, ST, CL	
Comet	59-19-114	6BC 65	78.3	Incl	Y	Polycarbonate	Goggle	✓	✓	✓	64	8.00 to -9.00	OEM: C, ST, CL	
Comet Economy	50-19-117	6BC 65	65	Incl	Y	Polycarbonate	Goggle	-	-	-	-	-	OEM: C, ST, CL	
LeadR	58-15-135	6BC 65	76.7	Incl	Y	Polycarbonate	Goggle	✓	✓	✓	66	8.00 to -9.00	OEM: C, ST, CL	
X Guard	58-18-135	6BC 65	81.8	Incl	Y	Polycarbonate	Goggle	✓	✓	✓	62	8.00 to -9.00	OEM: C, ST, CL	
Classic														
53 Wrap	58-16-135	4BC 65	84	Incl	Y	Nylon	Glasses	✓	✓	✓	62	8.00 to -9.00	OEM: C, ST, CL	
Malibu Wayfarer	54-20-155	4BC 65	68.1	-	Y	Polycarbonate	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
Classic Metals														
553s Metalite	50-18-140	4BC 65	62	Incl	Y	Optical Steel	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
557s Metalite	48-20-135	4BC 65	63	Incl	Y	Optical Steel	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
661 Metalite	52-18-144	4BC 65	54	-	Y	Optical Steel	Glasses	✓	✓	✓	62	8.00 to -9.00	OEM: C, ST, CL	
662s Metalite	52-18-145	4BC 65	70	Incl	Y	Optical Steel	Glasses	✓	✓	✓	62	8.00 to -9.00	OEM: C, ST, CL	
Classic Metal	54-19-140	4 - 6	64	Add	Y	Optical Steel	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
Metal Aviators	54-17-150	4 - 6	82	Add	Y	Optical Steel	Glasses	✓	✓	✓	64	8.00 to -9.00	OEM: C, ST, CL	
Modern Metal	48-20-135	4 - 6	73	Add	Y	Optical Steel	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
Petite Metal	52-22-150	4 - 6	63	Add	Y	Optical Steel	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
Wrap-Around														
98	63-15-120	8BC 73	63	-	Y	Nylon	Glasses	-	-	-	-	-	OEM: C, ST, CL	
99 Ultralite	61-18-140	6BC 65	67	Add	Y	Nylon	Glasses	✓	✓	✓	64	8.00 to -9.00	OEM: C, ST, CL	
99 Ultralite Small	56-17-140	6BC 65	59.5	-	Y	Nylon	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
99 Ultralite Bridge	61-18-140	6BC 65	67	Add	Y	Nylon	Glasses	✓	✓	✓	64	8.00 to -9.00	OEM: C, ST, CL	
9941 Ultralite	55-22-130	6BC 65	64	Add	Y	Nylon	Glasses	✓	✓	✓	64	8.00 to -9.00	OEM: C, ST, CL	
9941-53 Ultralite SM	53-22-130	6BC 65	58	-	Y	Nylon	Glasses	✓	✓	✓	58	9.00 to -10.00	OEM: C, ST, CL	
9941 UL w Nosepad	55-22-130	6BC 65	64	Add	Y	Nylon	Glasses	✓	✓	✓	64	8.00 to -9.00	OEM: C, ST, CL	
Airborne	57-21-145	4BC 65	74.7	Add	Y	Polycarbonate	Glasses	✓	✓	✓	62	8.00 to -9.00	OEM: C, ST, CL	
Centrist	55-17-140	4BC 65	88	Incl	Y	Nylon	Glasses	✓	✓	✓	58	8.00 to -9.00	OEM: C, ST, CL	
Circuit	60-18-135	8BC 73	82.1	Add	Y	Nylon	Glasses	-	-	-	-	-	OEM: C, ST, CL	
Mako	65-15-130	8BC 73	69.3	Incl	Y	Polycarbonate	Glasses	-	-	-	-	-	OEM: C, ST, CL	
Onyx	68-19-135	8BC 73	71.7	-	Y	Polycarbonate	Glasses	-	-	-	-	-	OEM: C, ST, CL	
Razer	58-17-135	6BC 65	62.5	Incl	Y	Polycarbonate	Glasses	✓	✓	✓	59	8.00 to -9.00	OEM: C, ST, CL	
Kids														
Tugga Baby	46-18	4BC 65	42	-	Y	Polycarbonate	Glasses	-	-	-	-	-	OEM: C, ST, CL	

**Included Accessories:**  
 OEM = OEM accessories are provided by Protech or customer designed accessories.  
 BR = Branded accessories means some or all of the included accessories are supplied by the brand.

**Accessory Types:**  
 C = Case  
 STR = Straps  
 CL = Cloth  
 NB = Nose Bridge



								Prescription (Rx) Options						
Model	Size	Base Curve	Weight (g)	Side Shields	CE	Material	Frame Type	Single Vision	Bifocal	Progressive	Min. PRO PD	Powers	Included Accessories	
Abaco Brand														
Dockside	58-19-135	6BC 65	72	-	Y	Polycarbonate	Glasses	✓	✓	✓	60	8.00 to -9.00		
Kai	56-18-135	4BC 65	65	-	Y	Polycarbonate	Glasses	✓	✓	✓	60	8.00 to -9.00		
Jesse	56-18-142	6BC 65	68	-	Y	Polycarbonate	Glasses	✓	✓	✓	60	8.00 to -9.00		
Tiki	54-21-140	6BC 65	70	-	Y	Polycarbonate	Glasses	✓	✓	✓	60	8.00 to -9.00		
Waikiki	54-21-140	4BC 65	68	-	Y	Polycarbonate	Glasses	✓	✓	✓	60	8.00 to -9.00		
Nike Brand														
Brazen	60-16-140	6BC 65	75	Add	Y	Nylon	Glasses	✓	✓	✓	64	8.00 to -9.00		
Brazen Fury	60-17-130	6BC 65	-	Add	N	Bioplastics	Glasses	✓	✓	✓	64	8.00 to -9.00		
Maverick	59-15-145	6BC 65	70.3	-	N	Nylon	Glasses	✓	✓	✓	64	8.00 to -9.00	BR: C OEM: ST	
Premier	60-13-135	6BC 65	67.8	-	N	Nylon	Glasses	✓	✓	✓	64	8.00 to -9.00	OEM: C, ST, CL	
Rabid	63-14-145	8BC 73	63	-	Y	Nylon	Glasses	-	-	-	-	-		
7118	55-14-140	6BC 65	71.5	Add	N	Bioplastics	Glasses	✓	✓	✓	55	8.00 to -9.00		
Liberty Brand														
Maxx 30 (small)	53-17-130	6BC 65	60	Add	Y	Polycarbonate	Glasses	✓	✓	✓	56	-		
Maxx 30 (regular)	55-20-130	6BC 65	69	Add	Y	Polycarbonate	Glasses	✓	✓	✓	56	-		
Maxx 31 (small)	53-17-130	6BC 65	60	Add	Y	Polycarbonate	Glasses	✓	✓	✓	56	-		
Maxx 31 (regular)	55-20-130	6BC 65	64	Add	Y	Polycarbonate	Glasses	✓	✓	✓	56	-		
Oakley Brand														
Crosslink Zero	58-16-138	6BC 65	61.6	-	Y	O Matter	Glasses	✓	✓	✓	56	8.00 to -9.00		
Five Squared	54-20-135	8BC 73	71	-	Y	O Matter	Glasses	-	-	-	-	-		
Holbrook	56-18-135	6BC 65	66.5	-	N	O Matter	Glasses	✓	✓	✓	60	8.00 to -9.00		
Jupiter Squared	56-18-135	6BC 65	74.1	-	Y	O Matter	Glasses	✓	✓	✓	66	8.00 to -9.00		
Litebeam	55-18-140	4BC 65	59.6	-	N	O Matter	Glasses	✓	✓	✓	60	8.00 to -9.00		
Straightlink	61-19-130	8BC 73	77.2	-	Y	O Matter	Glasses	-	-	-	-	-		
Trillbe X	52-18-140	4BC 65	63.9	-	Y	O Matter	Glasses	✓	✓	✓	58	8.00 to -9.00		
Ray ban Brand														
Daddy-O 2016	59-17-125	6BC 65	61	Add	Y	Nylon	Glasses	✓	✓	✓	65	8.00 to -9.00		
3534	59-20-135	6BC 65	63	-	Y	Metal	Glasses	-	-	-	-	-		
4105	50-23-140	6BC 65	62	-	Y	Metal	Glasses	✓	✓	✓	65	8.00 to -9.00		
4165F Justin	55-18-145	6BC 65	73	-	Y	Nylon	Glasses	✓	✓	✓	65	8.00 to -9.00		
4181	57-16-145	6BC 65	71.4	-	N	Injected Plastic	Glasses	✓	✓	✓	65	8.00 to -9.00		
7047	54-17-140	4BC 65	63	-	N	Injected Plastic	Glasses	-	-	-	-	-		
Wiley X Brand														
Airrage	61-18-124	8BC 73	67.5	-	N	Polycarbonate	Glasses	-	-	-	-	-	BR: C, STR, CL	
Boss	68-18-125	8BC 73	84.5	-	Y	Polycarbonate	Glasses	-	-	-	-	-		
Brick	63-18-120	8BC 73	74	-	Y	Polycarbonate	Glasses	-	-	-	-	-		
Contour	54-17-140	4BC 65	62.3	Incl	Y	Nylon	Glasses	✓	✓	✓	60	8.00 to -9.00		
P-17	60-18-125	8BC 73	68	-	Y	Polycarbonate	Glasses	-	-	-	-	-		
Face Shields / Masks														
450FPM	Adjustable	-	350g	-	Y	Plastic/Acrylic	Mask	-	-	-	-	-		
400PSM	Adjustable	-	425g	-	Y	Plastic/Acrylic	Mask	-	-	-	-	-		

**Included Accessories:**  
OEM = OEM accessories are provided by Protech or customer designed accessories.  
BR = Branded accessories means some or all of the included accessories are supplied by the brand.

**Accessory Types:**  
C = Case  
STR = Straps  
CL = Cloth  
NB = Nose Bridge

# 03

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A study by the National Center for Biotechnology Information concluded that: **A healthcare worker could receive more than twice the annual limit of radiation exposure simply by holding the head of a trauma patient four times per week with unshielded hands during cervical spine radiography.**

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# GLOVES

**QUALITY. SERVICE. INTEGRITY.**

The Proguard family of products comprises the most technically advanced gloves with a 30 year proven record in quality and comfort. Our comprehensive range of gloves has carefully expanded to meet the growing needs of healthcare professionals.

The Proguard glove brand focuses on uniquely balancing tactile sensitivity, protection, and comfort in a way no others can. With a commitment to performance and safety, there is no room for compromise. In addition to our fluoroscopic procedure gloves, we have multiple patient positioning and veterinary glove styles available in various protection options and colors.

# PROGUARD RR



MODEL: [ RR1 | RR2 | RR3 ]



Used during procedures requiring high tactile sensitivity, the Proguard RR radiation attenuation gloves are the industry leaders for protection against x-ray. Designed and produced in a modern manufacturing facility, our premium quality gloves are powder free, latex free, and sterile. The Proguard RR gloves blend premium comfort and optimal protection at an affordable cost.



COMPOSITION	STERILIZED	LATEX	POWDER	FDA	CE
Lead Oxide Dry Natural Rubber	Ethilene Oxide	No	No	PPE	Yes

Models	60 kVp	80 kVp	100 kVp	120 kVp	Thickness
RR1	50%	42%	37%	33%	0.24mm ± 0.02mm
RR2	54%	44%	36%	30%	0.28mm ± 0.02mm
RR3	63%	55%	47%	42%	0.38mm ± 0.02mm

Certified to ASTM 2547 and IEC 61331-1:2014 Standards

## SIZING INFORMATION

• 6 - RR160	RR260	RR360	• 8 - RR180	RR280	RR380
• 6.5 - RR165	RR265	RR365	• 8.5 - RR185	RR285	RR385
• 7 - RR170	RR270	RR370	• 9 - RR190	RR290	RR390
• 7.5 - RR175	RR275	RR375	• 9.5 - RR195	RR295	RR395



Latex Free/  
Hypoallergenic



Premium  
Lead



High Tactile  
Sensitivity



Slip Coat  
Technology



Single Use  
Only





# PROGUARD RR SLEEVE

MODEL: [ RR-SLV ]

COMPOSITION	STERILIZED	LATEX	POWDER	FDA	CE
Lead Oxide Dry Natural Rubber	Ethilene Oxide	No	No	PPE	No

Models	60 kVp	80 kVp	100 kVp	120 kVp	Thickness
RR-SLV	59%	51%	45%	42%	0.28mm ± 0.02mm

The Proguard RR radiation reducing sleeve is latex free, powder free and sterile. Composed of lead oxide, these sleeves offer complete arm protection when used in conjunction with radiation attenuating gloves (pictured with the Proguard RR below). For best use, tuck the RR sleeve into your radiation safety gloves. Sold by the pair and available in 3 sizes.

**Certified to ASTM 2547 and IEC 61331-1:2014 Standards**

## SIZING INFORMATION

- **Small (RR-SLV-SM)**      Approx. dimensions: 15.5" L x 7" W [3.75" at base; 5" at top]
- **Medium (RR-SLV-MD)**      Approx. dimensions: 15.5" L x 7.5" W [4" at base; 5" at top]
- **Large (RR-SLV-LG)**      Approx. dimensions: 15.5" L x 8" W [4.75" at base; 5.5" at top]



**Latex Free/  
Hypoallergenic**



**Premium  
Lead**



**Single Use  
Only**



# PROGUARD ELITE



MODEL: [ E1 | E2 ]

The Proguard Elite is composed of a lead-free bismuth formula blended with premium polyisoprene and a proprietary polymer matrix free of harmful chemicals (MBT and DPG). The Proguard Elite gloves are intended to reduce the amount of scattered radiation exposure to the hands during fluoroscopic procedures. Proguard gloves are powder-free Personal Protective Equipment and are sterile unless opened or damaged.



COMPOSITION	STERILIZED	LATEX	POWDER	FDA	CE
Bismuth (Lead Free) Polyisoprene	Ethilene Oxide	No	No	PPE	Pending

Models	60 kVp	80 kVp	100 kVp	120 kVp	Thickness
E1	46%	37%	30%	24%	0.24mm ± 0.03mm
E2	54%	44%	36%	30%	0.28mm ± 0.03mm

Certified to ASTM 2547 and IEC 61331-1:2014 Standards

## SIZING INFORMATION

• 6 - E160	E260	• 8 - E180	E280
• 6.5 - E165	E265	• 8.5 - E185	E285
• 7 - E170	E270	• 9 - E190	E290
• 7.5 - E175	E275	• 9.5 - E195	E295



Latex Free/  
Hypoallergenic



Lead  
Free



High Tactile  
Sensitivity



Slip Coat  
Technology



Single Use  
Only



# PROGUARD PLUS

MODEL: [ PG1 | PG2 ]

COMPOSITION	STERILIZED	LATEX	POWDER	FDA	CE
Lead Oxide Polyisoprene	Ethylene Oxide	No	No	PPE	Pending

Models	60 kVp	80 kVp	100 kVp	120 kVp	Thickness
PG1	46%	37%	30%	24%	0.24mm ± 0.03mm
PG2	54%	44%	36%	30%	0.28mm ± 0.03mm

**Certified to ASTM 2547 and IEC 61331-1:2014 Standards**

## SIZING INFORMATION

- |                     |                     |
|---------------------|---------------------|
| • 6 - PG160 PG260   | • 8 - PG180 PG280   |
| • 6.5 - PG165 PG265 | • 8.5 - PG185 PG285 |
| • 7 - PG170 PG270   | • 9 - PG190 PG290   |
| • 7.5 - PG175 PG275 | • 9.5 - PG195 PG295 |



**Latex Free/  
Hypoallergenic**



**Premium  
Lead**



**High Tactile  
Sensitivity**



**Slip Coat  
Technology**



**Single Use  
Only**

The Proguard Plus achieves surgical grade performance by combining the quality and characteristics of the original Protech Proguard glove with premium, latex-free polyisoprene. Rich textures, versatile grip, and maximum protection provide unrivaled tactile sensitivity and security.



## ANGIOGRAPHIC LEAD GLOVES

CE

MODEL	AP-ANGIO
CORE MATERIALS	Lead
THICKNESS	0.50mm LE (standard)
SIZING	One size fits all
CUSTOMIZATIONS	None
FEATURES	Sold as a pair
COLORS	Black Leatherette
CE	Yes

The Angiographic Lead Glove is mainly used in patient positioning but is also ideal for procedures involving high radiation exposure. The glove is soft, flexible, and can easily be wiped clean.



## ANGIO MITT

CE

MODEL	AP-ANGIOMIT
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
SIZING	One size fits all
CUSTOMIZATIONS	Embroidery and Logo
FEATURES	Can be used for left or right hand
COLORS	See fabric colors on pages 76-81
CE	Yes

Our Angio Mitt is part of a wide selection of radiation shielding accessories. The angio mitt is a flexible mitt used to shield the hand, thus reducing exposure under direct x-ray. This mitt can be used on either the right or left hand and is mainly used in positioning.





# SLITT MITT



MODEL	AP-SLITMIT-L/R
CORE MATERIALS	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
SIZING	One size fits all
CUSTOMIZATIONS	Embroidery and Logo
FEATURES	Must specify left or right hand
COLORS	See fabric colors on pages 76-81
CE	Yes

Our slit mitt is part of a wide selection of radiation shielding accessories. This flexible glove has a lead protective sheet for the top part of your hand and a slit on the bottom to allow for gripping.



# 04

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**MADE IN  
THE USA**

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# BARRIERS

## BARRIERS, DRAPES AND SHIELDS

Protech manufactures a comprehensive line of x-ray protective barriers, windows, and other leaded shield products. From fully custom lead doors to unique windows and overhead barriers, Protech has the expertise to meet your needs.

In line with our commitment to quality, most Protech barriers and components (acrylic, aluminum/steel) are produced in the USA.

## FULL MOBILE BARRIER

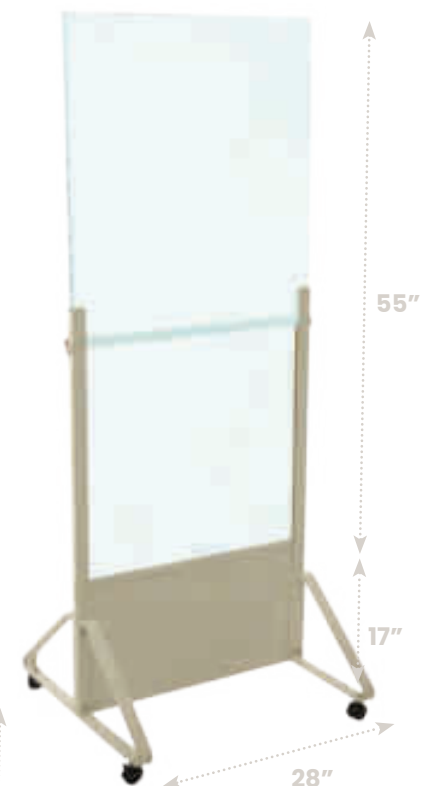
MODEL	MB-FULL / MB-FULL-GL (glass)
COMPOSITION	Lead Acrylic or Lead Glass
PROTECTION (ACRYLIC)	0.50mm LE
PROTECTION (GLASS)	1.60mm - 2.00mm LE
PROTECTION (BASE)	0.50mm LE (standard)
WINDOW DIMENSIONS	55" H x 28" W
FULL DIMENSIONS	72" H x 28" W
CE	No

Diagnostic x-ray procedures frequently require working personnel to remain in the examination room where they are subject to exposure from secondary radiation. The clear leaded acrylic barrier can provide total-body x-ray shielding during extended procedures. Our clear acrylic barrier provides 0.50mm LE protection and rests on an opaque lower panel with an equivalent 0.50mm LE. Smooth-rolling casters give the barrier great mobility. The acrylic lead barrier is shipped unassembled but can be easily assembled using a screwdriver and wrench. For heavy duty radiation protection barriers please see our CORNING lead glass barriers.

## HALF MOBILE BARRIER

MODEL	MB-HALF / MB-HALF-GL (glass)
COMPOSITION	Lead Acrylic or Lead Glass
PROTECTION (ACRYLIC)	0.50mm LE
PROTECTION (GLASS)	1.60mm LE
PROTECTION (BASE)	0.50mm LE (standard)
WINDOW DIMENSIONS	24" H x 28" W
FULL DIMENSIONS	72" H x 28" W
CE	No

Diagnostic x-ray procedures frequently require working personnel to remain in the examination room where they are subject to exposure from secondary radiation. The clear leaded acrylic barrier can provide total-body x-ray shielding during extended procedures. Our clear acrylic barrier provides 0.50mm LE protection and rests on an opaque lower panel with an equivalent 0.50mm LE. Smooth-rolling casters give the barrier great mobility. The acrylic lead barrier is shipped unassembled but can be easily assembled using a screwdriver and wrench. For heavy duty radiation protection barriers please see our CORNING lead glass barriers.

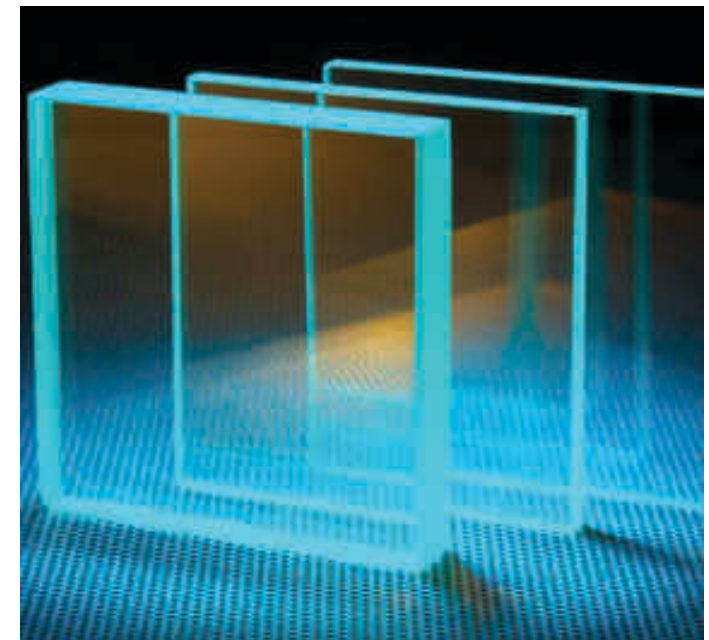




## CORNING MED-X LEAD GLASS

MODEL	SEE BELOW
COMPOSITION	Lead (52%) and Barium (17%)
THICKNESS	From 4mm up to 20mm
PROTECTION	From 1.4 up to 6.0mm Pb
DIMENSIONS	Custom dimensions up to 54" x 108"
DENSITY	4.8 g/cm <sup>2</sup>
REFRACTIVE INDEX	1.76
TRANSMISSION %	≥85.0 @ 550nm through 5mm path
KNOOP HARDNESS	409 kg/mm <sup>2</sup>
YOUNG'S MODULUS	62.6 GPa
TORSION MODULUS	24.8 GPa
POISSON'S RATIO	0.26
COEFFICIENT OF THERMAL EXPANSION	78.8 (x10 <sup>-7</sup> / °C)

Corning is a world leader in Radiation Shielding glass offering some of the largest glass sizes available! High barium and lead content provide optimum protection with excellent visual clarity. Corning glass shields against x-rays from equipment operating in the 80 to 300 kV range.



Model	GL-1012	GL-1212	GL-1218	GL-1224	GL-2424	GL-2430	GL-2436	GL-3048	GL-3060
Dimensions	10" x 12"	12" x 12"	12" x 18"	12" x 24"	24" x 24"	24" x 30"	24" x 36"	30" x 48"	30" x 60"

These are just some sample dimensions. You can customize your radiation shielding glass to your own specifications!

## ADJUSTABLE BARRIER

MODEL	MB-ADJ
CORE MATERIAL	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
DIMENSIONS	24" W x 48" H
HEIGHT ADJUSTMENT	24" to 48" H
CE	No
COLORS	See fabric colors on pages 76-81

Our adjustable mobile radiation barrier provides maximum shielding from x-ray exposure. Ideal for patient & personnel radiation protection our lead shield is easy to maneuver, and much lighter than the full & half acrylic barriers. This enables greater mobility while maintaining a solid construction with high quality, durable wheel casters. You can also customize your barrier with your company's logo or embroidery.

**Velcro-lined for improved adjustability!**



## PORTA SHIELD

MODEL	MB-PORTA
CORE MATERIAL	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
DIMENSIONS	24" W x 24" H (shield)
HEIGHT ADJUSTMENT	34" - 60" (stand height)
CE	No
COLORS	See fabric colors on pages 76-81

The porta shield is a mobile-adjustable lead shield that provides a variety of different adjustable heights blended with a lightweight design. The "H" shaped wheels provide stability and portability. The shield is attached by velcro which enables easy removal for cleaning.

**CUSTOM SIZING AVAILABLE**



## GRADUATED PORTA SHIELD

MODEL	MB-PORTA-GRAD
CORE MATERIAL	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
DIMENSIONS	24" W x 17-36" H (shield)
HEIGHT ADJUSTMENT	34" - 60" (stand height)
CE	No
COLORS	See fabric colors on pages 76-81

The graduated porta shield is similar to the porta shield but differentiates itself with its individual lead flaps. The flaps provide excellent versatility and usage. They are attached by velcro which enable easy removal for cleaning.



## LEAD BLANKET

MODEL	SEE BELOW
CORE MATERIAL	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
DIMENSIONS	See below
CUSTOMIZATIONS	Embroidery and Logo
CE	No
COLORS	See fabric colors on pages 76-81

Lead blankets are used for a variety of procedures. We offer 4 standard sizes, but we can easily accommodate any custom size request.

Dimensions	Model
18" x 24"	BL-1824
24" x 24"	BL-2424
24" x 36"	BL-2436
24" x 42"	BL-2442



## TABLE DRAPES

MODEL	SEE BELOW
CORE MATERIAL	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
DIMENSIONS	See below
CUSTOMIZATIONS	Embroidery and Logo
CE	No
COLORS	See fabric colors on pages 76-81

Protech's high quality drapes provide protection against scatter radiation for your lower body and are specially designed to not obstruct positioning of the C-arm. The single sided table drape uses Velcro strips to adhere to the side of your imaging table. The double-sided drape features a saddlebag design for a secure fit to any style imaging table. Each panel is 6 inches wide. While table drapes are made standard with Lead core material at 0.50mm LE thickness, we do accommodate custom requests!

Drape Dimensions	# of Panels	Model (SINGLE-SIDED)	Drape Dimensions	# of Panels (ea. side)	Model (DOUBLE-SIDED)
22" x 30"	4	TA-TS2230	24" x 24"	4	TA-TD2424
24" x 24"	4	TA-TS2424	24" x 30"	4	TA-TD2430
24" x 30"	4	TA-TS2430	24" x 36"	4	TA-TD2436
24" x 36"	4	TA-TS2436	24" x 42"	4	TA-TD2442
24" x 42"	4	TA-TS2442	30" x 24"	5	TA-TD3024
30" x 24"	5	TA-TS3024	30" x 30"	5	TA-TD3030
30" x 30"	5	TA-TS3030	30" x 36"	5	TA-TD3036
30" x 36"	5	TA-TS3036	30" x 42"	5	TA-TD3042
30" x 42"	5	TA-TS3042	36" x 24"	6	TA-TD3624
36" x 24"	6	TA-TS3624	36" x 28"	6	TA-TD3628
36" x 28"	6	TA-TS3628	36" x 30"	6	TA-TD3630
36" x 30"	6	TA-TS3630	36" x 36"	6	TA-TD3636
36" x 36"	6	TA-TS3636	36" x 42"	6	TA-TD3642
36" x 42"	6	TA-TS3642	48" x 24"	8	TA-TD4824
48" x 24"	8	TA-TS4824	48" x 28"	8	TA-TD4828
48" x 28"	8	TA-TS4828	48" x 30"	8	TA-TD4830
48" x 30"	8	TA-TS4830	48" x 32"	8	TA-TD4832
48" x 32"	8	TA-TS4832	48" x 36"	8	TA-TD4836
48" x 36"	8	TA-TS4836	48" x 42"	8	TA-TD4842
48" x 42"	8	TA-TS4842			

Double-Sided



Single-Sided





## ANESTHESIA FRONT PANEL

MODEL	SEE BELOW
CORE MATERIAL	All Core Types (see page 20)
THICKNESS	0.50 (standard), 0.35, 0.25mm LE
DIMENSIONS	See below
CUSTOMIZATIONS	Embroidery and Logo
CE	No
COLORS	See fabric colors on pages 76–81

The anesthesia panel, unlike other table drapes, is a solid panel designed to fit any style imaging table by the head or feet of the patient. Secured via velcro closures, it provides protection against scatter radiation for your lower body and is designed to not obstruct positioning of the C-arm.

Dimensions	Model
22" x 24"	TS-FP-2224
22" x 26"	TS-FP-2226
22" x 28"	TS-FP-2228
22" x 32"	TS-FP-2232
22" x 36"	TS-FP-2236
24" x 24"	TS-FP-2424
24" x 36"	TS-FP-2436



# OVERHEAD BARRIER SQUARED

MODEL	MB-MOB-01
MATERIAL	Acrylic
PROTECTION	0.50mm LE (standard)
WINDOW SIZE	31.5" L x 23.6" W x 0.5" H
CURTAIN SIZE	N/A
CE	No
SPECIAL	Square Arm

Our unique line of mobile overhead barriers provide flexibility and versatility for a variety of procedures. Made from high quality steel and acrylic, our specialty mobile barriers roll on premium casters. Protech's specialty mobile acrylic barriers possess high quality suspension for proper swivel motion. A well engineered configuration allows for lightweight movement, enhanced stability and a small foot-print.



# OVERHEAD BARRIER SQUARED W/ CURTAIN

MODEL	MB-MOB-02
MATERIAL	Acrylic
PROTECTION	0.50mm LE (standard)
WINDOW SIZE	15.75" L x 23.6" W x 0.5" H
CURTAIN SIZE	13.78" L x 23.6" W
CE	No
SPECIAL	Square Arm

Our unique line of mobile overhead barriers provide flexibility and versatility for a variety of procedures. Made from high quality steel and acrylic, our specialty mobile barriers roll on premium casters. Protech's specialty mobile acrylic barriers possess high quality suspension for proper swivel motion. A well engineered configuration allows for lightweight movement, enhanced stability and a small foot-print.



## OVERHEAD BARRIER ROUNDED

MODEL	MB-MOB-03
MATERIAL	Acrylic
PROTECTION	0.50mm LE (standard)
WINDOW SIZE	31.5" L x 23.6" W x 0.5" H
CURTAIN SIZE	N/A
CE	No
SPECIAL	Rounded Arm

Our unique line of mobile overhead barriers provide flexibility and versatility for a variety of procedures. Made from high quality steel and acrylic, our specialty mobile barriers roll on premium casters. Protech's specialty mobile acrylic barriers possess high quality suspension for proper swivel motion. A well engineered configuration allows for lightweight movement, enhanced stability and a small foot-print.



## OVERHEAD BARRIER ROUNDED W/ CURTAIN

MODEL	MB-MOB-04
MATERIAL	Acrylic
PROTECTION	0.50mm LE (standard)
WINDOW SIZE	15.75" L x 23.6" W x 0.5" H
CURTAIN SIZE	13.78" L x 23.6" W
CE	No
SPECIAL	Rounded Arm

Our unique line of mobile overhead barriers provide flexibility and versatility for a variety of procedures. Made from high quality steel and acrylic, our specialty mobile barriers roll on premium casters. Protech's specialty mobile acrylic barriers possess high quality suspension for proper swivel motion. A well engineered configuration allows for lightweight movement, enhanced stability and a small foot-print.



# 05

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Scatterguard patient drapes are a **weightless and disposable form of protection for operating personnel against scatter radiation.**

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# SCATTERGUARD DRAPES

Protech is proud to offer a line of disposable products that protect doctors and technicians from the harmful effects of exposure to radiation while reducing the occurrence of biological contamination. ScatterGuard is comprised of disposable Drapes, Caps and Thyroid Collars.



**SCATTER  
GUARD**

# SCATTER RADIATION

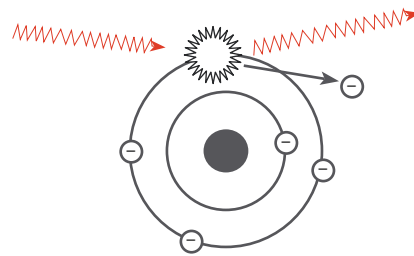
## VERSUS DIRECT BEAM RADIATION

### SCATTER RADIATION

These X-ray photons remove an outer shell electron from its orbit, thereby ionizing the atom. Low energy radiation interacts with body tissue then scatters in different directions.

### LOW ENERGY - SCATTERED

Compton Effect



### VERSUS

### DIRECT BEAM RADIATION

These X-ray photons carry enough energy to eject an inner shell electron from its orbit. The High energy radiation penetrates and passes through the patient for imaging.

### HIGH ENERGY - ABSORBED

Photoelectric Effect

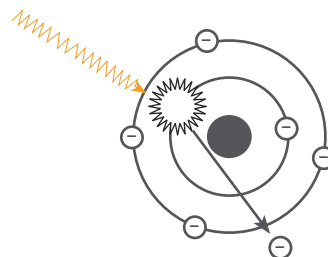
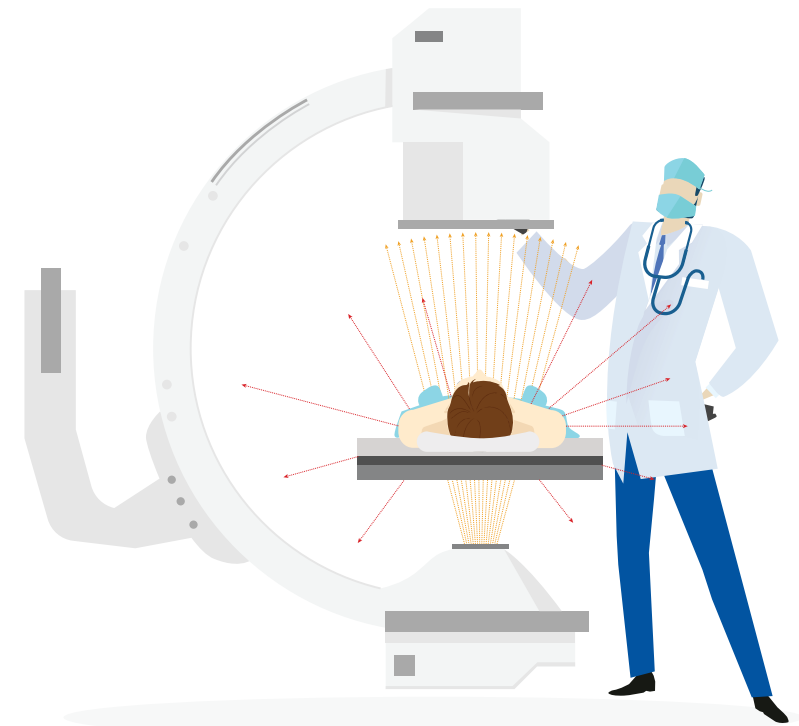


Image intensifiers have enabled surgeons to become technically more proficient and decrease the morbidity of the patient by minimizing area of operative field and decreasing operative time. Some over-use fluoroscopy, forgetting the principles of radiation protection, while others under-use it due to unfounded fears. In general, surgeons lack awareness about the radiation exposure they are getting and its effects on health.



## THE EFFECTS OF SCATTER

The energy absorbed from ionizing radiation can cause cataracts, tumors, skin dermatitis, hair loss and germ cell mutations. In fact, "Cataracts occur with cumulative dose between 200 to 500 RADS." [2].

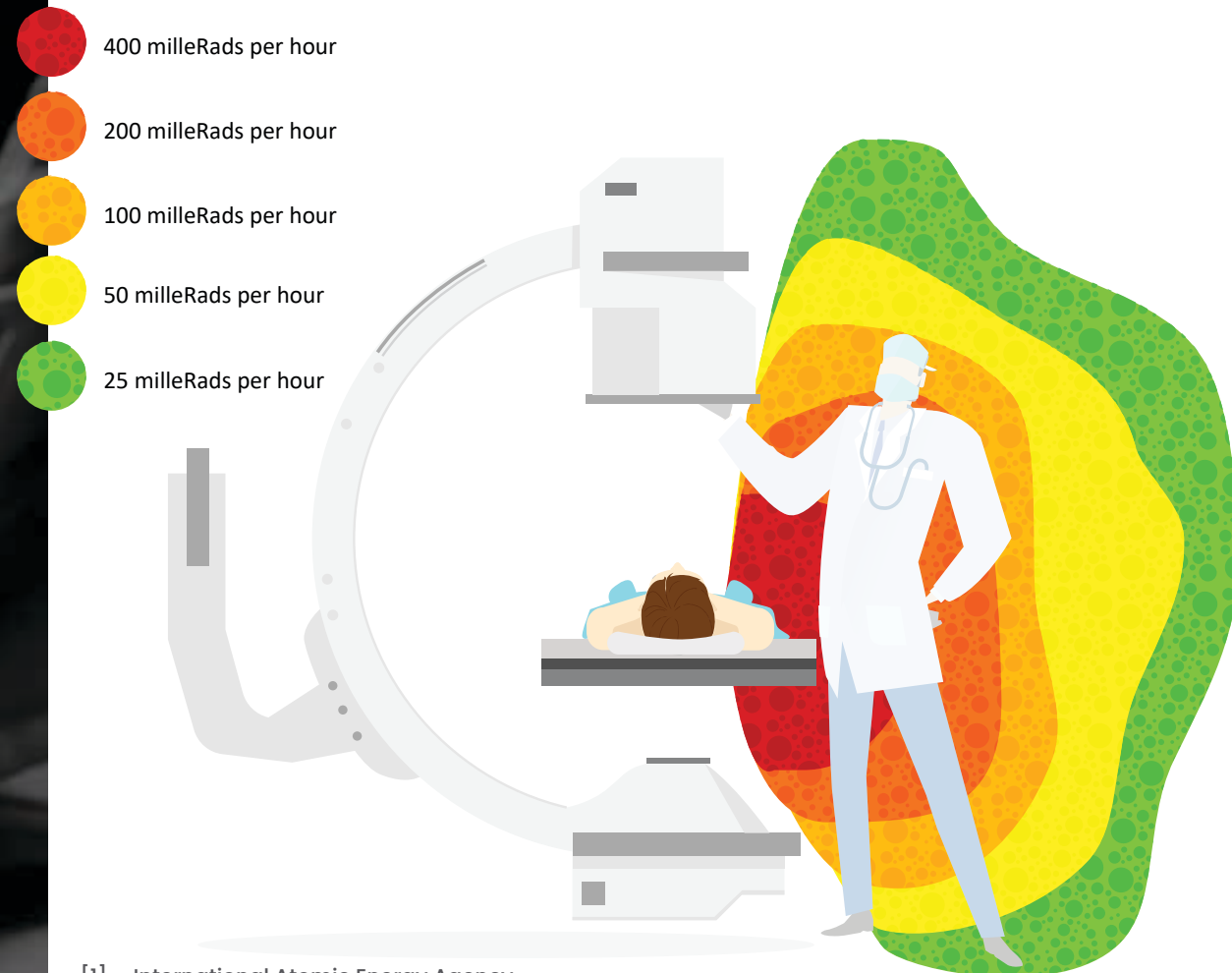
## WHO IS AT RISK?

During procedures requiring fluoroscopy, direct beam radiation contacts a patient and "scatters" towards the surgeon and other personnel. This means surgeons and assistants are at maximum risk due to proximity to exposure area. "The scattered radiation from the patient comprises the main source of radiation dose to staff." [1]

According to the National & International Conferences on Radiation Protection (ICRP & NCRP), "Lens/Eye Dose should be limited to 15 RADs per year." Based on an average Lens/Eye Dose of 62 milleRads per hour and an average of 576 hours of Fluoroscopy per year some clinicians are receiving doses of 35.7 RADs per year. In a 30 year career this amounts to 1,071 RADs, if the operator is standing upright; far more if crouched or seated (about 5,184 RADs).

## WEAR PROTECTION!

A SIR published study concluded "...lead glasses and scatter-draping drapes substantially reduced lens dose by factors of 9.5 and 12 respectively. Maximal eye draping was achieved by the use of both lead glasses and scatter-draping drapes." [3]



[1] – International Atomic Energy Agency

[2] – National & International Conferences on Radiation Protection

[3] – Drs. Dauer & Thorton, Memorial Sloan Kettering Medical Center, Society of Interventional Radiology 2009



**SCATTER  
GUARD**  
*ACTIV*

## PATIENT DRAPES

**ScatterGuard Patient Drapes protect surgeons and technicians from the harmful effects of scatter radiation during surgical procedures *without any added weight.***

Our lead-free, latex-free drapes are uniquely designed to provide tailored coverage for a variety of procedures. Scatterguard drapes are made from our Prolite core material which is specially formulated to provide over 20% more protection at higher exposures than the competition. The drape exterior features our highly-absorbant ActiV material with a plastic, laminated inner layer. In addition, high quality 3M adhesive ensures secure positioning of the drape.

**\*Certified to ASTM 2547-18 and  
IEC 61331-1:2014 Standards [CE 2895]**

### ABSORBANCY

Fabric Type	Weight	Absorbancy Rate (sec/ml)	Absorbant Capacity
Leading Competitor 1	109 gsm	1.9 sec/ml	526%
Leading Competitor 2	130 gsm	2.5 sec/ml	600%
ActiV Absorbant	120 gsm	1.2 sec/ml	620%

### PROTECTION PROPERTIES

Lead Equivalence (LE)	Attenuation at 90kVp
0.125mm	75%
*0.25mm	90%
0.375mm	95%



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE



LATEX FREE



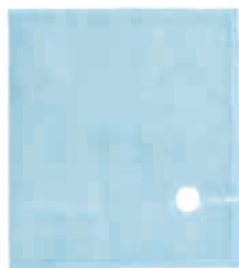
3M ADHESIVE



#	Model	Description	Fenestration	Dimensions	Procedures
1	<b>SG-AD-125/250</b>	Angiography Drape	2" Circle	14.5" x 16.5"	Angiography, Coronary Catheterization, UFE, Pelvic Surgery and TACE
2	<b>SG-BSD-250</b>	Biliary Split Drape	5" Slit	14.5" x 16.5"	Transjugular intrahepatic portosystematic shunt (TIPS)
3	<b>SG-DSD-250</b>	Dialysis Drape	4.5" x 9" Rectangle	32" x 50"	Dialysis access and declotting, Fistulagram
4	<b>SG-EPD-125/250</b>	EP Left Subclavian Drape	3.25" x 2.25" Scoop	13.5" x 17.5"	Bi-ventricular pacemaker implants, Bi-ventricular pacing & ICS procedures

1

**Angiography Drape**



2

**Biliary Split Drape**



3

**Dialysis Drape**



4

**EP Left Subclavian Drape**



#	Model	Description	Fenestration	Dimensions	Procedures
5	SG-EPDC-LG-250	EP Drape - Large	5.75" x 3" Scoop	16" x 16"	Bi-ventricular pacemaker implants, Bi-ventricular pacing and ICS procedures
6	SG-EPDC-SM-250	EP Drape - Small	5.75" x 3" Scoop	11" x 16"	Bi-ventricular pacemaker implants, Bi-ventricular pacing and ICS procedures
7	SG-JUG-125	Jugular Access/ TIPS Drape	5" Slit	13.5" x 17.5"	Transjugular intraheptic portosystematic shunt (TIPS)
8	SG-MPD-125/250/375	Multipurpose Drape	None	13.5 x" x 17.5"	Needle Biopsy or Puncture procedures

5

EP Drape - Large



6

EP Drape - Small



7

Jugular Access/TIPS Drape



8

Multipurpose Drape



#	Model	Description	Fenestration	Dimensions	Procedures
9	SG-MPDF-125/250/375	Multipurpose Drape w/ Fenestration	3.5" x 2" Rectangle	13.5" x 17.5"	Needle Biopsy or Puncture procedures
10	SG-PPD-125/250	Peripheral Drape	None	11" x 34"	Peripheral procedures w/ access through the femoral artery
11	SG-DCAP-125/250/375	Disposable Smart Cap	N/A	SM, MD, LG	Any procedure involving fluoroscopy
12	SG-DTHY-125/250/375	Disposable Thyroid Collars	N/A	Regular, Large	Any procedure involving fluoroscopy

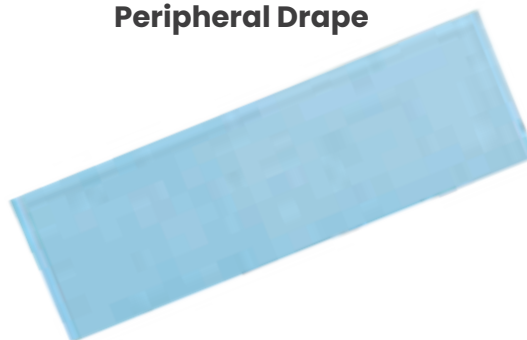
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**Multipurpose Drape with Fenestration**



10

**Peripheral Drape**



11

**Disposable Smart Cap**



12

**Disposable Thyroid Collar**





## CONTACT US

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