



Manufactured to exceptionally high standards, RADsafe® aprons are available in a selection of ergonomic and gender-specific designs. Available in a full range of sizes to maximise flexibility and comfort.

RADsafe® apron can be safely and comfortably worn more frequently, or for extended periods of time. Users can choose from a select range of protective core materials and lead equivalency options for reliable protection without compromise. To complement our protective apparel range, RADsafe provides a variety of online tracking, reporting and management products to ensure your new product has long-lasting support.

## Quality & *Protection* without Compromise

Our commitment is to deliver 'Optimum Quality, Compliance, and Protection you can depend on.'

### RADarmor

RADarmor is a chemical that forms an antimicrobial coating that bonds to surfaces and protects against many pathogens, including bacteria and mould.

### RADlab®

RADlab is an established radiation attenuation testing lab for the exclusive purpose of supporting hospitals and medical imaging practices.

### RADdrape®

RADdrape Anti-scatter disposable sterile drapes are designed to prevent scatter radiation at the source, creating a scatter-free zone by reducing harmful ionizing radiation exposure.

### RADprotect

RADprotect is a range of recyclable plastic splash drapes designed to fit popular models of personal radiation shields.

### RADeco®

RADeco by Imaging Solutions endeavours to support customers in disposing potentially harmful radiation protective materials that may contain lead and other heavy metals.

### RADshield

RADshield is a series of personal mobile portable shields for use in X-ray and radiation rich medical environments.

### RADfresh®

RADsafe's exclusive RADfresh® Apron Refresher is a purpose-made cleaning solution for personal radiation protection apparel of all types.

### RADstore®

Quality, effective, and innovative storage solutions for personal radiation protective apparel.

### RADview

RADview is radiation protective glass and acrylic used in medical fields including dental, CT, and X-ray.

### RADtrack®

RADtrack™ is a personal radiation protection apparel tracking, reporting, and management system suitable for use by organisations of all sizes.



# RADsafe® Apron Ordering Guide

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## 3. Customisations or Embroidery

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**Embroidery -**  
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**Designer -**  
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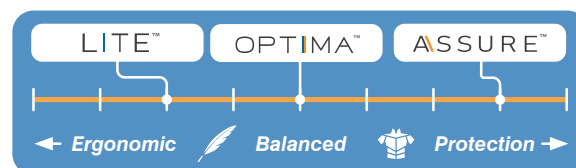


## 5. Protection (RADcore™)

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**RADcore™**

**Lead Equivalencies -**  
0.25 / 0.35 / 0.50 / 0.75 / 1.00/ etc...



## 6. Accessories

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**Smart Cap**



**Shoulder Protection**



**Shin Guard Protection**



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# Why Choose RADsafe?

## 1. Advanced Design



RADsafe's unique garment designs represent a perfect balance between ergonomics and radiation protection. This balance has been achieved by combining human design standards, sizing standards, and population datasets with leading international standards from IEC, DIN, and ASTM. Our designs are regularly reviewed and updated as part of our commitment to continuous improvement, based on customer feedback, internal innovation, and standards review. At the heart of our design philosophy is the wearer's quality of working life, and we strive to optimize comfort and ergonomics without compromising on protection.

## 2. Durability that you Can Depend On



RADsafe's garments are built to the highest standards, using the latest assistive technologies and specialized machinery, refined stitching techniques, and high-quality raw materials. Each garment is guaranteed to meet specifications and provide long-lasting durability. Our garments are designed with your needs in mind, incorporating features that address common market concerns. For example, our textiles are carefully chosen to provide the right balance of flexibility and density to reduce tearing and fraying without hindering the garment's use. We use automated laser-guided cutting machines to ensure consistent sizing and quality, and our stitching techniques reinforce high-stress points like pocket corners and hanging straps for added durability. With RADsafe, you can trust that you are getting a high-quality garment that will provide reliable protection.

## 3. Sizing that Makes Sense



RADsafe's sizing options and range are based on real-world population data, rather than industry or market representations, to ensure that our medium size is representative of the median wearer. We understand that one size does not fit all, and one design does not fit all, so we have designed each size option against its own individual specification. This ensures that each size provides optimal coverage and performance for the wearer, while also maintaining a consistency across the sizing range. At RADsafe, we are committed to providing our customers with the protection they need, in the sizes that fit them best.

## 4. Fully Customisable



At RADsafe, we offer fully customizable personal radiation protection to meet your specific needs. Our male and female specific designs come in a range of sizes, which can also be tailored to ensure a perfect fit and optimal protection. We offer a wide range of lead-free protective core materials ranging from highly protective to highly ergonomic, low-lead options are also available. Plus, our selection of fabrics, patterns, and trims allows you to create a look that is both stylish and protective. This allows you to choose the level of protection and comfort that is right for you.



## 5. Arrives Faster



RADsafe personal radiation protection is manufactured in a highly optimized and streamlined production process, ensuring that the majority of orders are dispatched within 2-3 weeks. For those with urgent requirements explore our Express range which can be dispatched immediately from stock or within 5 days. This allows us to provide our customers with the protection they need, when they need it. Whether you need your order quickly or have a more flexible timeline, RADsafe has a solution to meet your needs.



## 6. Asset Tracking with RADtrack™

As a RADsafe customer, you have access to our complementary RADtrack™ system. This makes it easy to integrate your RADsafe personal radiation protection and manage the risk associated with regular screening. RADtrack™ is simple to use, easy to access, and can save your department or facility significant time and money.

## 7. Independently and Internally Tested with RADlab

At RADsafe, we are committed to providing our customers with the protection they expect and deserve. Our radiation attenuation materials, or “core” materials, are certified to leading international standards by recognized independent laboratories. To ensure that our post-production materials perform similar to the samples used in formal certification processes, we also perform random attenuation testing. This helps us ensure that our products are consistently high-quality and effective at protecting against radiation exposure.

## 8. Quality Management Built-In

Imaging Solutions is dedicated to continually improving our business practices and performance. To support this goal, we have adopted leading quality management principals to provide a standardized framework for sustainability and process/business improvements. Our quality management systems are certified to ISO 9001 - “Quality Management Systems” and ISO 13485 - “Quality Management System for Medical Devices.” This commitment to quality helps us ensure that our customers receive the highest-quality products and services.

## 9. Two Year Warranty as Standard

Our standard two-year warranty on RADsafe personal radiation protective aprons demonstrates our dedication to high-quality workmanship and reliable materials, giving you confidence and peace of mind. With RADsafe, you can trust that you are getting a top-quality product that you can rely on for years to come.

## 10. World Class Customer Service

Draw on the experience and expertise of our world-class team. Our customer service team is the best in the business and can assist you with any situation you may encounter. With their knowledge and expertise, you can trust that you will receive the highest level of support and guidance. Let our team help you find the right solution for your radiation protection needs.

## 11. Immerse yourself in the RADfamily

RADsafe personal radiation protection is just the beginning of the comprehensive radiation protection solution offered by Imaging Solutions. Continue your radiation protection journey with our many complimenting supplier partner products and our own RADdrape, RADfresh, RADstore, RADshield, and RADview, among others. With these products and services, you can be confident that you are receiving the best protection and support possible. Take the next step in your radiation protection journey with RADsafe and our partner products and services.





## Vest and Skirt with Back Relief Belt

The RADsafe Back Relief Vest and Skirt is our most popular full protective apron. It unites the ergonomic benefits of the original Vest and Skirt Apron with the comfort and weight distribution properties of our Back Relief Apron. The two-piece design allocates a relatively free upper body rotation, and the weight is split and distributed in two areas.

The vest contains a weight reduction belt which relocates the weight from the shoulder to lower back and the skirt includes a built-in elasticised belt for maximum comfort.

Fitting and storage time are critical in the medical industry, the application time is a standard 30 - 90 seconds. The apron is suited for long procedures to assist with shoulder and lumbar support. See the most common applications below.

### Benefits

- Suited for long periods
- Shoulder support
- Lower lumbar support

### Application

- Catheter laboratory
- Endoscopy
- Operating theatres
- Hybrid laboratory

### Size Tolerance

- Specific - Half a size +/-

### Application Time

Standard (30 - 90 seconds)

### Protection

Front and Back

### Weight Ergonomics

3 points  
(Shoulders, waist and hips)

### Vest and Skirt with Back Relief Belt

RAD-AP-VS-BR



## Vest and Skirt with Full Overlap and Back Relief Belt

The RADsafe Back Relief Vest and Skirt with Full Overlap combines the properties of the Vest and Skirt Back Relief Apron with the additional full overlap of the apron. The apron offers comfort and weight distribution properties from the back relief belt. The two-piece design allocates a relatively free upper body rotation, and the weight is split and distributed in two areas.

Fitting and storage time are critical in the medical industry, the application time is a standard 30 - 90 seconds. The apron is suited for long procedures to assist with shoulder and lumbar support. See the most common applications below.

### Benefits

- Suited for long periods
- Shoulder support
- Lower lumbar support

### Application

- Catheter laboratory
- Endoscopy
- Operating theatres
- Hybrid laboratory

### Size Tolerance

- Exact - No size tolerance

### Application Time

Standard (30 - 90 seconds)

### Protection

Front and Back

### Weight Ergonomics

3 points  
(Shoulders, waist and hips)

### Vest and Skirt with Full Overlap and Back Relief Belt

RAD-AP-VS-BR-FO





## Vest and Skirt Apron

The RADsafe Vest & Skirt Apron is our standard two-piece full apron. It provides front and back protection, and the two-piece design makes it simpler to rotate the upper body independently from the legs. The weight is distributed across the body equally, with the vest for the upper body and the skirt supporting from the waist down. The skirt contains a built-in elasticised belt for comfort.

The Vest and Skirt Apron offers excellent lumbar support particularly during extended procedures. The apron's two essential protective contact points are the shoulders and hips. The Vest and Skirt is a specific fit. See the most common applications below.

### Benefits

- Suited for long periods
- Skirt and belt lumbar support

### Application

- Catheter laboratory
- Endoscopy
- Operating theatres
- Hybrid laboratory

### Size Tolerance

- Specific - Half a size +/-

### Application Time

Standard (30 - 90 seconds)

### Protection

Front and Back

### Weight Ergonomics

2 points  
(Shoulders and hips)

### Vest and Skirt Apron

RAD-AP-VS



## Vest and Skirt Apron with Full Overlap

The RADsafe Vest & Skirt Apron with Full Overlap Vest is a variation of our Vest and Skirt standard two-piece full apron with the benefit of the overlap vest. It provides front and back protection, and the two-piece design makes it simpler to rotate the upper body independently from the legs. The weight is distributed across the body equally, with the vest for the upper body and the skirt supporting from the waist down. The skirt contains a built-in elasticised belt for comfort.

The Vest & Skirt Apron with Full Overlap Vest offers excellent lumbar support particularly during extended procedures. The apron's two essential protective contact points are the shoulders and hips and it is a specific fit. See the most common applications below.

### Benefits

- Suited for long periods
- Skirt and belt lumbar support

### Application

- Catheter laboratory
- Endoscopy
- Operating theatres
- Hybrid laboratory

### Size Tolerance

- Exact - No size tolerance

### Application Time

Standard (30 - 90 seconds)

### Protection

Front and Back

### Weight Ergonomics

2 points  
(Shoulders and hips)

### Vest and Skirt Apron with Full Overlap

RAD-AP-VS-FO



Please read the 'Overlap Explained' article on page 104 of this catalogue to assist with your selection.



## Vest and Skirt with Reverse Vest

The RADsafe Reverse Vest & Skirt Apron is a mobility focused front and rear protection apron. By removing the front overlap from the original Vest & Skirt Apron, the Reverse Vest & Skirt Apron alleviates any vertical rigidity, allowing for more flexible range of motion. The weight is distributed across the body evenly with the vest on the upper body and the skirt supporting from the waist.

The Reverse Vest and Skirt Apron is a flexible fit. The wearer can fit in a variety of sizes, for example it can accommodate a size range of small – medium. See the most common applications below.

### Benefits

- Flexible range of motion

### Application

- Catheter laboratory
- Endoscopy
- Operating theatres
- Hybrid laboratory

### Size Tolerance

- Flexible - One size +/-

### Application Time

High (60 - 120 Seconds)

### Protection

Front and Back

### Weight Ergonomics

3 points of distribution  
(Shoulders, waist and hips)

### Vest and Skirt with Reverse Vest

RAD-AP-VS-RV



## RADsafe Vest and Skirt with Comfortwear Vest

The RADsafe Vest & Skirt Comfortwear Apron shares the same qualities as the Comfortwear Apron, with the key difference being that it's a two-piece apron. The skirt also offers rear protection. The apron has been designed to extend the weight of the garment across the back, therefore reducing shoulder fatigue. The skirt holds its weight on the hips, further eliminating back strain.

The elasticised back and hook-and-loop adjustable straps makes the Vest and Skirt Comfortwear Apron one of the most comfortable aprons available.

The Vest and Skirt Comfortwear Apron is a flexible fit. The wearer can fit in a variety of sizes, for example the apron can accommodate a size range of small – medium. See the most common applications below.

### Benefits

- Flexible range of motion

### Application

- Catheter laboratory
- Endoscopy
- Operating theatres
- Hybrid laboratory

### Size Tolerance

- Flexible - One size +/-

### Application Time

High (60 - 120 Seconds)

### Protection

Front and Back

### Weight Ergonomics

3 points of distribution  
(Shoulders, waist and hips)

### Vest and Skirt with Comfortwear Vest

RAD-AP-VS-FB



## Frontal Apron with Comfortwear

The RADsafe Comfortwear Apron has been designed to spread the weight of the garment across the wearer's back, therefore reducing shoulder fatigue. The elasticised back and hook-and-loop adjustable straps make the Comfortwear Apron one of the most comfortable front-only aprons available.

At RADsafe we strive to make our protective aprons simple to apply and remove. Fitting and storage time are critical in the medical industry, the application time is a quick 10 - 30 seconds. The Comfortwear Apron is ideal for use during short periods of time. See the most common applications below.

### Benefits

- Suited for short periods
- Ideal for quick application

### Application

- Radiology
- Minor surgery
- Vets

### Size Tolerance

- Specific - Half a size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

Front Only

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Frontal Apron with Comfortwear

RAD-AP-FB



## Frontal Apron with Back Relief Belt

The RADsafe Back Relief Apron features an elasticised belt which significantly repositions the apron's weight from the shoulders to the lower back. The Back Relief Apron is our most ergonomic front-only apron. The wide elastic belt spreads the weight across a wide surface on the wearer's back minimising the pressure at a single point for a more comfortable wear.

The Back Relief Apron is a flexible fit and is best used during short periods of time.

### Benefits

- Suited for short periods, especially minor surgeries

### Application

- Radiology
- Minor surgery
- Vets

### Size Tolerance

- Flexible - One size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

Front Only

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Frontal Apron with Back Relief Belt

RAD-AP-BR



## Frontal Apron with Buckle

The RADsafe Buckle Apron utilises a buckle fastener around the waist of the wearer. It is a front-only apron with waist straps that can be adjusted for a tighter or looser fit depending on the wearer's preference. The Buckle Apron is a flexible fit and is suited for short procedures.

Fitting and storage time are critical in the medical industry. The application time for the Buckle Apron is a quick 10-30 seconds. See the most common applications below.

### Benefits

- Suited for short periods, especially minor surgeries

### Application

- Radiology
- Minor surgery
- Vets

### Size Tolerance

- Flexible - One size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

Front Only

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Frontal Apron with Buckle

RAD-AP-BA



## Frontal Apron with Easy Tie

The RADsafe Tie Apron is our simplest front-only apron design, featuring a waist strap that can be tied to suit the wearer.

The Tie Apron is a flexible fit and is suited for short procedures.

Fitting and storage time are critical in the medical industry. The application time is a quick 10-30 seconds. See the most common applications below.

### Benefits

- Suited for short periods, especially minor surgeries

### Application

- Radiology
- Minor surgery
- Vets

### Size Tolerance

- Flexible - One size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

Front Only

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Frontal Apron with Easy Tie

RAD-AP-TA



## Front Apron with Surgical Drop-Away

The Surgical Drop-Away is a front-only apron and is designed to be removed as quickly as possible after a surgical procedure. Detaching the two straps on the sides is all it takes for the apron to come free. This apron features shoulder straps which allows a second person to hold the apron as it is quickly removed.

The Surgical Drop-Away Apron is a flexible fit and is suited for short periods, especially minor surgeries

See the most common applications below.

### Benefits

- Suited for short periods, especially minor surgeries

### Application

- Radiology
- Minor surgery
- Vets

### Size Tolerance

- Flexible - One size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

Front Only

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Surgical Drop-Away Apron

RAD-AP-SD



## Urology Apron

The RADsafe Urology Apron is a front-only apron designed to allow maximum comfort and protection while in a seated position. The three-flap design makes it perfect during urological procedures.

The Urology Apron is a flexible fit. At RADsafe we strive to make our protective aprons simple to apply and remove. The application time is a quick 10-30 seconds.

### Benefits

- Suited for urological surgeries or procedures
- Maximum comfort and protection when in seated position

### Application

- Urological procedures

### Size Tolerance

- Flexible - One size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

Front Only

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Urology Apron

RAD-AP-UA



## Wrap-Around with Back Relief Belt

The RADsafe Wrap-Around Back Relief Apron is a full, single-piece apron which fastens with buckle across the front panel. This apron also features a large, elasticised back support belt to relocate the weight from the shoulders to the back making it more ergonomic and comfortable if required for long periods of time.

The Wrap-Around Back Relief Apron offers an easily accessible flexible fit for quick application during short procedures. At RADsafe we strive to make our protective aprons simple to apply and remove. The Wrap Around Back Relief Apron has the fastest application, removal, and storage time of all our protective aprons, the application time is a quick 10 - 30 seconds. See the most common applications below.

### Benefits

- Quick Application for Emergency Department
- Suitable for short periods
- Easily accessible

### Application

- Emergency Department
- Minor procedures

### Size Tolerance

- Flexible - One size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

0.25, 0.35 and 0.50mmPb  
Non Lead/Low Lead/Lead

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Wrap-Around Back Support Apron

RAD-AP-WA-BR



## Wrap-Around with Full Overlap and Back Relief Belt

The RADsafe® Wrap-Around with Full Overlap and Back Relief Belt combines the properties of the Wrap-Around Back Relief Apron with the additional full overlap of the apron. The apron is a full, single-piece apron which fastens with buckles across the front panel. This apron also features a large, elasticised back support belt to relocate the weight from the shoulders to the back making it more ergonomic and comfortable if required for long periods of time.

The Wrap-Around Back Relief Apron offers an easily accessible flexible fit for quick application during short procedures. The Wrap Around Back Relief Apron has the fastest application, removal, and storage time of all our protective aprons, in a quick 10 - 30 seconds. See the most common applications below.

### Benefits

- Quick Application for Emergency Department
- Suitable for short periods
- Easily accessible

### Application

- Emergency Department
- Minor procedures

### Size Tolerance

- Exact - No size tolerance

### Application Time

Quick (10-30 Seconds)

### Protection

0.25, 0.35 and 0.50mmPb  
Non Lead/Low Lead/Lead

### Weight Ergonomics

2 points  
(Shoulders and waist)

### Wrap-Around Back Support Apron

RAD-AP-WA-BR-FO





## Smock Apron

The RADsafe Smock Apron is a full apron which fastens along the two sides with hook-and-loop straps. The apron's vital protective contact point is the shoulders.

The Smock Apron is a flexible fit. Fitting and storage time are critical in the medical industry. The application time is a quick 10-30 seconds. See the most common applications below.

### Benefits

- Quick Application for emergency department
- Suitable for short periods
- Ideal for patient protection

### Application

- Emergency Department
- Radiology
- Patient Protection

### Size Tolerance

- Flexible - One size +/-

### Application Time

Quick (10-30 Seconds)

### Protection

0.25, 0.35 and 0.50mmPb  
Non Lead/Low Lead/Lead

### Weight Ergonomics

1 point (Shoulders)

### Smock Apron

RAD-AP-SM



## Maternity Apron

The RADsafe Maternity Apron is designed for pregnant wearers. It features a waist strap which can be tied at the front for maximum flexibility. This apron comes with a half apron which is worn underneath the front flap for additional protection.

The apron's three vital protective contact points are the shoulders, underarm and waist. The Maternity Apron is a flexible fit.

At RADsafe we strive to make our protective aprons simple to apply and remove. Fitting and storage time are critical in the medical industry. The application time is a standard 30 - 90 seconds. See the most common applications below.

### Benefits

- Ideal for all procedures
- Suitable for long or short periods
- Includes half apron

### Application

- All departments including:  
Operating Theatres  
Catheter Laboratory

### Size Tolerance

- Flexible - One size +/-

### Application Time

Standard (30 - 90 Seconds)

### Protection

0.25, 0.35 and 0.50mmPb  
Non Lead/Low Lead/Lead

### Weight Ergonomics

3 points (Shoulders, underarm and waist)

### Maternity Apron

RAD-AP-MA

# Express Personal Radiation Protection



The Express range by RADsafe, is an array of in-stock radiation protection apparel that offers accelerated shipping. The combination of our in-stock inventory and global outreach allows us to swiftly ship the products that you need, when you need them!

The three models that we have selected to champion this range are the popular Vest & Skirt Back Relief, Wrap Around Back Relief, and the Comfortwear apron. Each of these Express models are exclusively offered in our AEGIS premium fabric for added comfort and protection.

## Express Thyroid Collars Options



Visor

Straight

Contoured

The RADsafe® Thyroid Collar is an essential accessory included in the full body X-Ray radiation protection offering. The protective thyroid collars are available in three distinct shapes, Contoured, Straight and Visor to accommodate preference and cover entire thyroid area.

X-Small: 30cm - 38cm (11.8" - 15.0")

Regular: 36cm - 44cm (14.2" - 17.3")

X-Large: 42cm - 50cm (16.5" - 19.7")

(neck circumference)

## Express Thyroid Ordering Guide

RAD-AP- TCCT - U OM 0 - NLB61 - 50 - 02										
Model	-	Gender	Size	Length	-	Core	-	mmPb LE	-	Colour
TCCT	-	U	OS	0	-	NLB61	-	50	-	01
TCST			OM					30		02
TCVS			OL							cont ...

Model	Description
TCCT	Thyroid Collar Contoured
TCST	Thyroid Collar Straight
TCVS	Thyroid Collar Visor

Core	Description
NLB61	Non-Lead Bi-layer 60-110 kV

mmPb LE	Description
50	0.50mmPb LE
30	0.35mmPb LE

## AEGIS - Premium Fabric

Introducing the softest, most comfortable protective apron fabric on the market: **Aegis**. Exclusive to Imaging Solutions, this premium fabric is made with bacterial-resistant qualities that make it ideal for use in healthcare environments. Additionally, it is waterproof and flame resistant. Its abrasion resistance ensures that it can withstand the demands of frequent use, while its soft touch fabric provides a snug and secure fit for maximum comfort. Treat yourself and your apron with Aegis fabric.



Abrasion resistant results in an apparel item that is tougher and lasts longer.



Waterproof to not only protect core protective materials but also make periodic cleaning quick and easy.



Made with bacterial resistant qualities that make the fabric ideal for healthcare environments.



The conforming fabric is designed to fit comfortably and securely, providing maximum comfort during wear.

01 Black

06 Sky Blue

02 Navy

07 Denim

03 Red

08 Purple

04 Olive

09 Tiger Lily

05 Grey

10 Geranium

# Express Apron Options



## Vest and Skirt Back Relief

A two-piece design allowing free upper body rotation. Weight is distributed in two pieces with a large elastic strap, relocating weight from shoulder to back. The skirt has a built-in elasticised belt.



## Wrap Around Back Relief

A full single-piece apron, fastening with buckles across the front panel with an elasticised back support belt to relocate weight from shoulders to back for comfort when wearing over long periods of time.



## Comfortwear

Designed to spread the garment weight evenly across wearer's back, reducing shoulder fatigue. An elasticised back and hook-and-loop adjustable straps makes this apron a very comfortable front only apron.

## Express Apron Ordering Guide

RAD-AP- VSBR - M 0L 0 - NLB61 - 32 - 04										
Model	-	Gender	Size	Length	-	Core	-	mmPb LE	-	Colour
VSBR	-	M	2S	S*	-	NLB61	-	52	-	01
VEBR		F	1S	0				32		02
SK00		U*	0S	L*				50		03
WABR			0M					30		04
FB00			0L							05
			1L							06
			2L							07
										cont ...

Model	Description
VSBR	Vest and Skirt Back Relief
VEBR	Vest with Back Relief
SK00	Skirt Only
WABR	Wrap Around Back Relief
FB00	Comfortwear

Core	Description
NLB61	Non-Lead Bi-layer 60-110 kV

mmPb LE	Description
52	0.50mmPb LE Front / 0.25mmPb LE Back
32	0.35mmPb LE Front / 0.25mmPb LE Back
50	0.50mmPb LE Front
30	0.35mmPb LE Front

\* Universal sizes and additional length options coming soon.

\*\* Express aprons pictured with thyroid collar available separately, see below for ordering.

# Apron Sizing Chart

## Male Sizing



### Male Apron Sizing

Version 2104

Size	Chest (A)		Waist (B)		Hips (C)		Vest Length(D)		Skirt Length (E)		Full Length (F)	
	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in
XX-Small	80-88	31-35	66-74	26-29	81-87	32-34	60	24	55	22	95	37
X-Small	88-96	35-38	74-82	29-32	87-93	34-37	62	24	57	22	98	39
Small	96-104	38-41	82-90	32-35	93-99	37-39	63	25	58	23	100	39
Medium	104-112	41-44	90-98	35-39	99-105	39-41	65	26	60	24	104	41
Large	112-120	44-47	98-106	39-42	104-112	41-44	67	26	62	24	108	43
X-Large	120-128	47-50	106-114	42-45	112-120	44-47	69	27	64	25	111	44
XX-Large	128-136	50-53	114-122	45-48	120-128	47-50	71	28	66	26	115	45



### Tool Assisted Measuring

Save time by visiting our website at [www.imgsol.com/get-measured](http://www.imgsol.com/get-measured) to utilise our selected tool assisted measuring service.

Tailored and Custom  
Sizes Available

## Female Sizing



## Female Apron Sizing

Version 2104

Size	Chest (A)		Waist (B)		Hips (C)		Vest Length(D)		Skirt Length (E)		Full Length (F)	
	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in
XX-Small	74-82	29-32	54-62	21-24	74-82	29-32	52	20	52	20	90	35
X-Small	82-90	32-35	62-70	24-28	82-90	32-35	54	21	54	21	90	35
Small	90-98	35-39	70-78	28-31	90-98	35-39	55	22	55	22	92	36
Medium	98-106	39-42	78-86	31-34	98-106	39-42	57	22	57	22	94	37
Large	106-114	42-45	85-95	33-37	106-114	42-45	59	23	59	23	98	39
X-Large	113-123	44-48	95-105	37-41	113-123	44-48	61	24	61	24	102	40
XX-Large	123-133	48-52	105-115	41-45	123-133	48-52	63	25	63	25	106	42



View Latest Sizing Information Online

<https://www.imgsol.com/sizing-and-fitting/>

# Apron Fitting and Options

## How to Measure for Correct Fit

Below is a basic step-by-step guide on how to measure someone for a correct fit of a radiation protective apron. On the next page we have also provided a size guide so you can use the measurements you take to determine the correct size.



### Chest Measurement

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



### Waist Measurement

Measure around the smallest circumference of the torso. The waist level may dip in at the back.



### Hips Measurement

Measure around the largest circumference of the hips and buttocks with the tape parallel to the floor; generally 20-23cm down from the waist measurement.



### Front Apron Length Measurement

Measure from the top of the shoulder down over the chest / bust (nipple) to the desired length. Do not contour the tape measure in under the bust.



### Vest Length Measurement

Measure from the top of the shoulder down over the chest / bust (nipple) to the desired length. Do not contour the tape measure in under the bust.



### Skirt Length Measurement

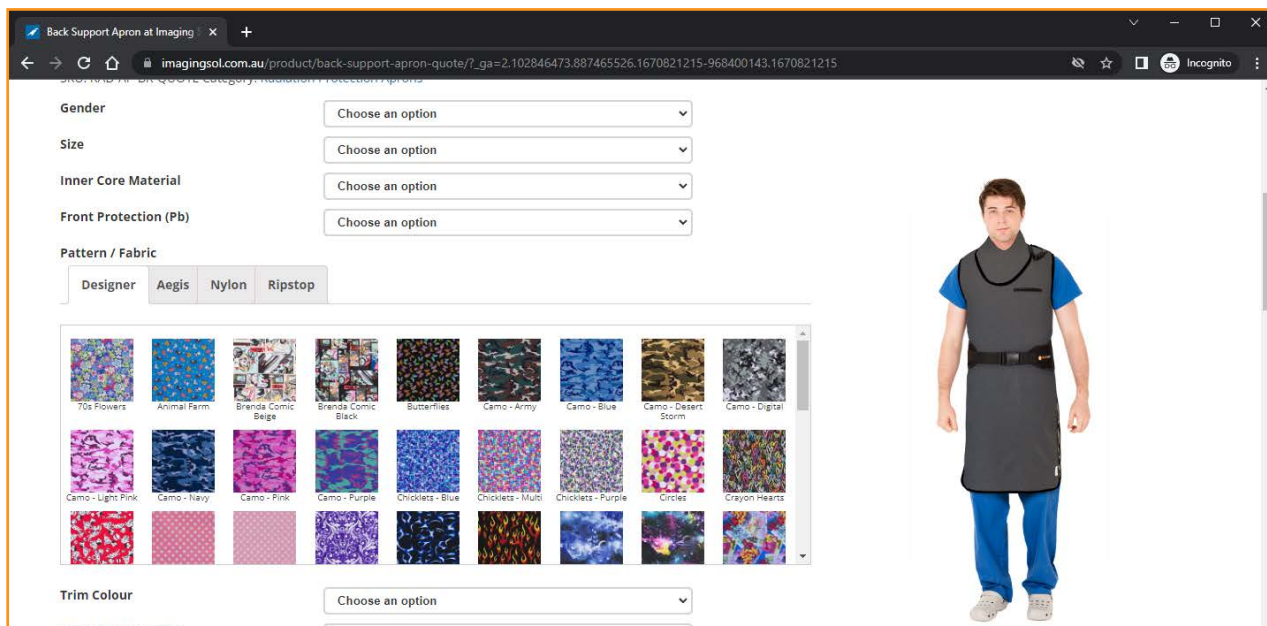
Measure from the top of the pant line (waist) and over the outside of the hip down to the desired length.

# Apron Customiser

The RADsafe online apron customiser tool provides wearers with a preview of exactly how their Personal Radiation Protection Apron will look before purchasing the garment.

With an array of standard and vibrant colours and patterns on offer for our Radiation Protection Aprons, there are fabric and trim option suitable for anyone. From basic standard branding colours to bright and cheery patterns to bring joy to patients and staff.

Visit [www.imgsol.com](http://www.imgsol.com) to review your chosen patterns or fabrics on the apron model of your choice.



## Apron Embroidery

We offer high-quality text and logo embroidery services for all aprons and accessories. Our embroidery enhances the professional appearance of your aprons and adds a personal touch that can distinguish your brand or business.

### Why Choose Our Embroidery Services?

**Quality and Durability:** Our embroidery services use top-of-the-line threads and state-of-the-art equipment to ensure that your designs are visually appealing and durable, withstanding regular wear and cleaning.

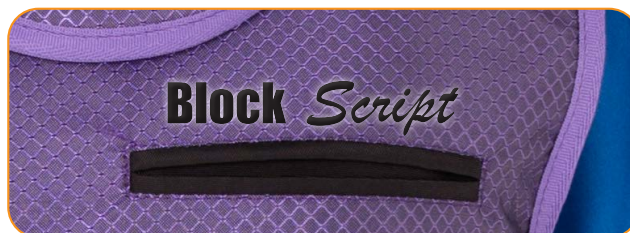
**Wide Range of Colors:** We offer a diverse palette of thread colours that complement the trims of our aprons, allowing for both subtle tone-on-tone looks and bold contrasts.

### Font Options

**Block:** A clean, modern font that offers excellent readability and a professional look.

**Script:** A stylish, cursive font that adds a touch of elegance and sophistication.
























### Block and Script Text



# Fabric Colour and Pattern Options

Imaging Solutions offers a range of outer fabric options including standard colour / patterns, water-proof colours, exclusive patterns as well as a variety of premium colours / patterns and customer made fabrics available at an extra cost.

## Trim Colours

Aqua		Orange	
Army Green		Purple	
Black		Red	
Brown		Rose	
Burgundy		Royal Blue	
Charcoal		Royal Purple	
Forest Green		Sky Blue	
Gold		Steel Blue	
Grey		Taupe	
Hot Pink		White	
Lime		Yellow	
Navy			

## Inner Lining



### Black Nylon Lining

Lightweight version of our exterior nylon allowing for improved fit feel and comfort against the body.



### CoolGuard – Generation 1

Polyester/spandex combination with a moisture-wicking technology supporting better temperature regulation through the wicking of moisture from the body to the fast-drying fabric.



### CoolGuard – Generation 2

Soft touch nylon and polyurethane coated combination, the nylon is a mid-weight two ply texture allowing improved breathability while the polyurethane coating provides moisture resistance barrier between the fabric and other layers of the apparel. Internal testing identified this fabric as providing greater levels of comfort and temperature regulation.



### CoolGuard – Generation 3

Coming Soon – combination of generation one and generation two features with potential temperature distribution layers.

*Or your choice of any exterior fabric*

## AEGIS - Premium Range

Introducing the softest, most comfortable protective apron fabric on the market: **Aegis**. Exclusive to Imaging Solutions, this premium fabric is made with bacterial-resistant qualities that make it ideal for use in healthcare environments. Additionally, it is waterproof and flame resistant. Its abrasion resistance ensures that it can withstand the demands of frequent use, while its soft touch fabric provides a snug and secure fit for maximum comfort. Treat yourself and your apron with Aegis fabric.



Made with bacterial resistant qualities that make the fabric ideal for healthcare environments.



Abrasion resistant results in an apparel item that is tougher and lasts longer.



The conforming fabric is designed to fit comfortably and securely, providing maximum comfort during wear.



Waterproof to not only protect core protective materials but also make periodic cleaning quick and easy.



Black (Gen 3)



Red (Gen 3)



Sky Blue (Gen 2)



Tiger Lily (Gen 2)



Grey (Gen 2)



Purple (Gen 3)



Denim (Gen 2)



Olive (Gen 2)



Geranium (Gen 2)



Navy (Gen 3)

## Nylon - Standard Range

Our nylon fabric is sturdy. Resistant to tares, waterproof and abrasion resistant.



Black Nylon



Burgundy Nylon



Grey Nylon



Forest Green Nylon



Green Nylon



Hot Pink Nylon



Light Royal Nylon



Navy Nylon



Orange Nylon



Purple Nylon



Red Nylon



Royal Nylon



Tan Nylon



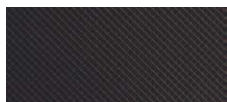
Teal Nylon



Yellow Nylon

## Ripstop - Reinforced Nylon

Ripstop fabric is a type of material that is characterized by its strong, durable, and tear-resistant weave.



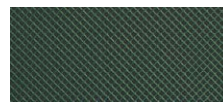
Black Ripstop



Brown Ripstop



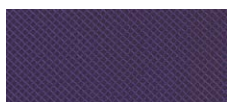
Burgundy Ripstop



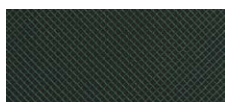
Green Ripstop



Navy Ripstop



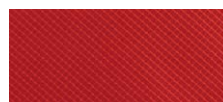
Purple Ripstop



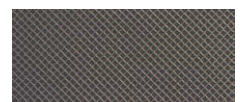
Forest Green Ripstop



Royal Blue Ripstop



Red Ripstop



Silver Ripstop

## Designer - Foundation Range

Our designer fabrics have a durable polyester base similar to our nylon range. Foundation fabrics are usually always available with changes rare, with this range pattern coding your fleet of personal radiation protection has never been easier.



70s Flowers



Animal Farm



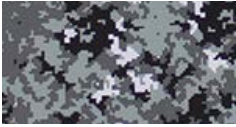
Butterflies



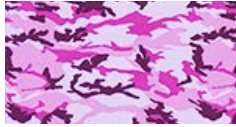
Camo - Army



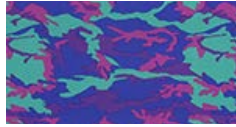
Camo - Blue



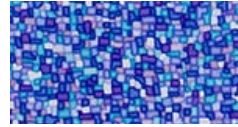
Camo - Digital



Camo - Light Pink



Camo - Purple



Chicklets - Blue



Chicklets - Multi



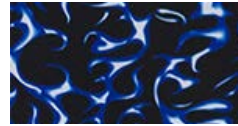
Crayon Hearts



Dalmations - Red



Dots - Candy Pink



Flames - Blue



Flames - Red



Galaxy - Blue



Galaxy - Multi



Giraffe



Leopard



Mamba - Pink



Mardi Gras



Mystery - Multi



Painted Dragon



Paw Prints - Pink



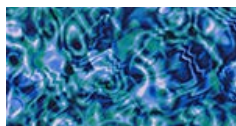
Paw Prints - White



Plaid - Purple



Rainbow



Ripple - Teal



Sheep



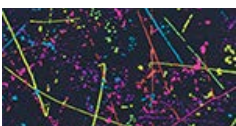
Sheep - Pink



Skulls - Grey



Skulls - Red



Splash



Stars



Stars and Stripes



Tiger



Zebra



[View Latest Fabric Range Online](https://www.imgsol.com/fabric-selection/)

<https://www.imgsol.com/fabric-selection/>

## Designer - Select Range

Select fabrics are more seasonal and limited in nature with changes occurring more frequently than the foundation range, with this range you can find something more unique and expressive.



Animal River



Brenda Comic Beige



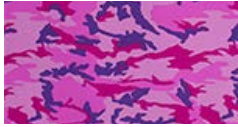
Brenda Comic Black



Camo - Woodland



Camo - Navy



Camo - Pink



Chicklets - Purple



Circles



Dots - Pink



Filigree - Purple



Hatchet - Blue



Hawaii Postcard



Hibiscus - Blue



Hibiscus - Wine



Mamba - Blue



Mantis - Blue



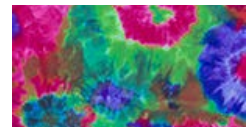
Mantis - Pink



Neon Signs



Neon Tie-Dye - Green



Neon Tie-Dye - Purple



Paw Prints - Black



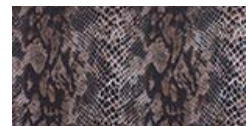
Plaid - Blue



Plaid - Green



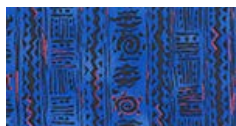
Plaid - Pink



Snake Skin



Space



Surf Wax



Sweet Pea

## Exclusive Range

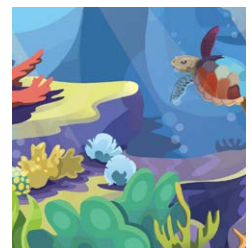
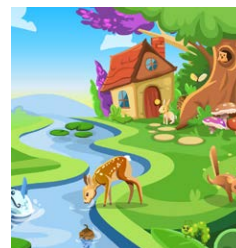
Exclusive fabrics have been graphically designed by RADsafe, this range offers the availability of foundation fabrics and the uniqueness of select fabrics as they are only available from RADsafe.



Australian Steel



Australian Carbon



New paediatric fabrics coming soon from Imaging Solution's Virtual Environment Range.

# Core Materials

Imaging Solutions has developed and formulated RADsafe's core materials, **RADcore** in response to market demand for safe and reliable protection against ionizing radiation. You can be assured that RADcore materials will provide the protection and compliance specified as a result of highly evolved quality processes which are also supported by random and periodic independent RADlab attenuation testing.

Our own design and manufactured core materials, Optima, Assure and Lite, are high-performing materials that are designed and formulated to meet various leading international standards including IEC, DIN and ASTM.

RADcore materials are all lead-free and leverage the radiation attenuation characteristics of elements such as antimony and bismuth, which are encapsulated in an advanced plasticized polyvinyl chloride formulation.

RADcore material formulations have been optimized to provide high radiation attenuation performance at reduced weights under relevant standards while retaining their strength, flexibility and durability, making them the perfect option for your personal radiation protective needs. RADcore material formulations are also REACH compliant, and being lead-free, these materials can be disposed of without the hazardous challenges of handling lead or other chemicals that pose high risks to human health and the environment.



## RADcore



## Why Choose RADcore?

- Tailored wide range of applications and standards/regions
- Optimised radiation attenuation performance to weight ratios
- Independent testing and highly evolved quality processes
- Advanced formulation featuring high flexibility and durability
- Specialised lead-free, single, and bi-layers designs and formulations
- REACH compliant materials, minimising health, and environmental impacts

## RADcore OPTIMA™

RADsafe Optima core material utilises bilayer design to achieve high radiation attenuation performance and minimal secondary radiation across a range of x-ray energies while also featuring reduced weight compared to traditional lead vinyl and single layer core materials of similar comprehensive radiation attenuation performance.

RADsafe Optima's performance characteristics are achieved by leveraging the high primary radiation attenuation to weight performance of the element antimony in the outer layer while ensuring secondary radiation attenuation with the element bismuth in the inner layer, these layers are thermally fused together into a single bi-layer material ensuring consistency, durability, and inner strength.

RADsafe Optima core material is compliant to the leading international standard IEC 61331-1:2014.

RADsafe's Optima core bilayer design achieves an approximate 20-40% reduced absorbed dose when compared to lead, low-lead and non-lead single layer core materials. Its overall holistic approach to protection provides a measured lead equivalency up to 45% greater than that of traditional antimony dominant direct beam compliant materials when tested to broad beam methodologies.

RADsafe Optima core material has been designed with the clinician in mind, it provides for the perfect balance of protection and ergonomics and is suitable for all personal radiation protection products.

## RADcore ASSURE™

RADsafe Assure core material is a single layer, bismuth dominant material yielding high primary and secondary radiation attenuation performance across a wide range of x-ray energies while feature a modest weight reduction compared to traditional lead vinyl.

RADsafe Assures performance characteristics are “lead-like”, its measured lead equivalence closely resembles that of lead, this is primarily due to bismuth’s atomic element positioning to that of the lead benchmark.

RADsafe Assure core material is compliant to the leading international standard IEC 61331-1:2014.

RADsafe Assure core material provides for as the name implies, Assured protection when compared to the lead benchmark, it is suitable for all personal radiation protection products where weight is not a primary concern, it is ideal for patient protection.

## RADcore LITE™

RADsafe Lite core material is a single layer, antimony dominant material yielding high primary radiation attenuation performance at specific x-ray energies, it minimises the antimony required and forgoes high concentrations of other elements that provide improved secondary radiation attenuation for significantly reduced weight when compared to other core materials and especially standard lead vinyl.

Given this RADsafe Lite core material is only compliant to the ASTM F2547-18 direct beam standard and potentially other direct/narrow beam standards which don’t provide for the measurement of secondary radiation.

RADsafe Lite core material is compatible in personal radiation protection where there is a high ergonomic requirement and reduced concern for holistic radiation attenuation performance.

## RADcore

Please read the ‘Evaluating Your Core Solutions’ article page 104 of this catalogue to assist with your selection.

## OPTIMA™

Material Type	kV Range	Standards	mmPb LE Configurations	Reference Weight	Atten. Elements
Bi-Layer Non-Lead	50-110kV	IEC 61331-1:2014	0.25, 0.35, 0.50	min 2.90-3.00kg/m2 for 0.25mmPb LE	Antimony and Bismuth
Bi-Layer Non-Lead	60-110kV	IEC 61331-1:2014	0.25, 0.35, 0.50	min 2.80kg/m2 for 0.25mmPb LE	Antimony and Bismuth
Bi-Layer Low-Lead	60-110kV	IEC 61331-1:2014	0.25, 0.35, 0.50	min 2.90kg/m2 for 0.25mmPb LE	Antimony and Bismuth
Bi-Layer+ Low-Lead	50-150kV	IEC 61331-1:2014	0.25, 0.50, 0.75, 1.00...	min 3.08kg/m2 for 0.25mmPb LE	Antimony and Bismuth

## ASSURE™

Material Type	kV Range	Standards	mmPb LE Configurations	Reference Weight	Atten. Elements
Non-Lead	50-150kV	IEC 61331-1:2014	0.25*, 0.375, 0.50, 0.75, 1.00... 0.35, 0.70 also available	min 3.08-3.19kg/m2 for 0.25mmPb LE	Bismuth Only

## LITE™

Material Type	kV Range	Standards	mmPb LE Configurations	Reference Weight	Atten. Elements
Non-Lead	80,100kV	ASTM F2547-18	0.25*, 0.375, 0.50, 0.75, 1.00... 0.35, 0.70 also available	min. 2.60kg/m2 for 0.25mmPb LE	Antimony Dominant

## Alternatives

Material Type	kV Range	Standards	mmPb LE Configurations	Reference Weight	Atten. Elements
Low-Lead	60-110kV	IEC 61331-1:2014	0.25, 0.35, 0.50	min 3.10kg/m2 for 0.25mmPb LE	Antimony and Lead