



**ROTHBAND**

MAKING X-RAYS **SAFER** FOR  
HEALTHCARE PROFESSIONALS  
SINCE 1911

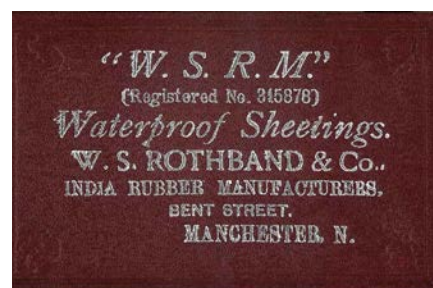
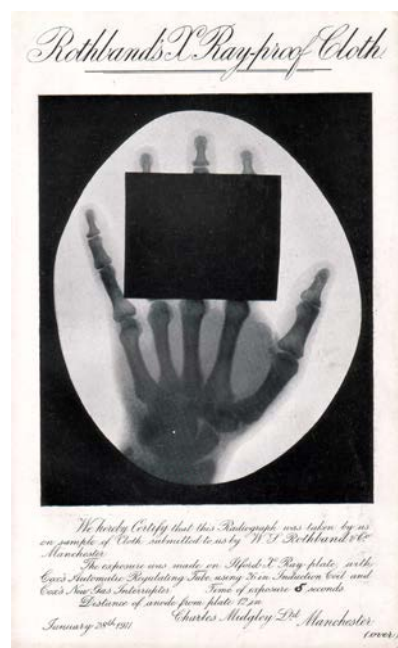


**X-RAY PROTECTIVE  
CLOTHING & ACCESSORIES**

OVER  
**100**  
YEARS

OF X-RAY  
IMAGING  
EXPERIENCE

# THE ORIGINAL RADIATION PROTECTION COMPANY

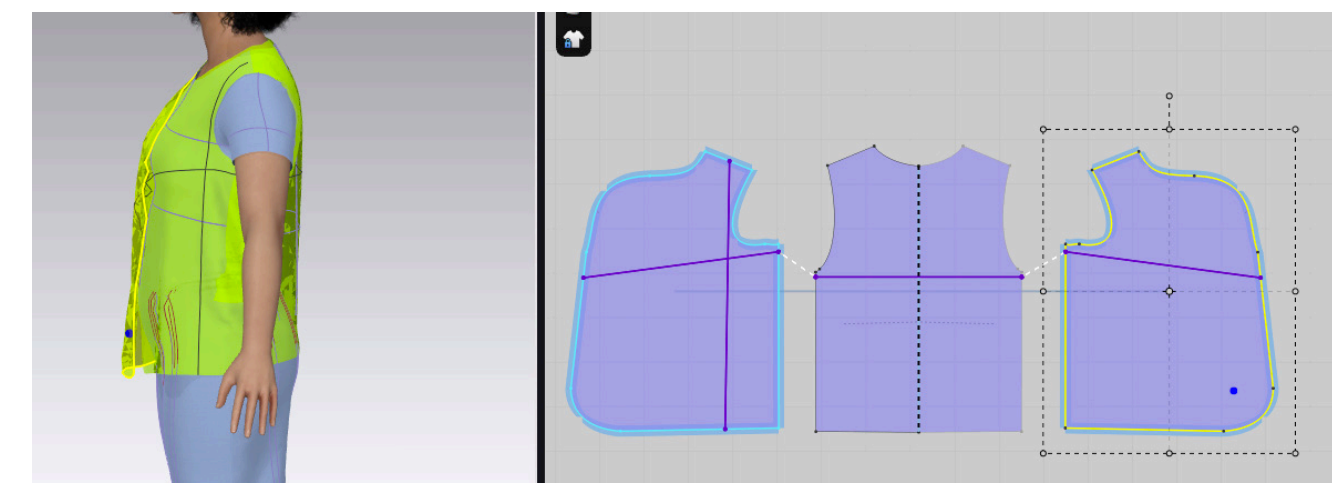


## RE-ENGINEERED FOR A BETTER FIT AND A LIGHTER WEIGHT

By utilising bespoke, avatar-based garment design software, we have re-engineered our radiation protection garments to offer a superior fit for ALL healthcare professionals.

This advanced technology has allowed us to closely analyse body coverage and ergonomics, ensuring that our garments provide optimal protection without compromising comfort or mobility.

The precise fit reduces strain during long shifts, while enhanced coverage ensures maximum safety in radiation-intensive environments. As a result, our innovative approach has led to the development of superior radiation protection garments, tailored to the specific needs of those working in the healthcare sector.



### NO MORE COMPROMISES ON FIT

**3**  
STANDARD ARMHOLES  
FOR EACH DESIGN

**200**  
CONFIGURATIONS  
OF EACH GARMENT

**∞**  
OPTIONS  
THROUGH BESPOKE  
DESIGN

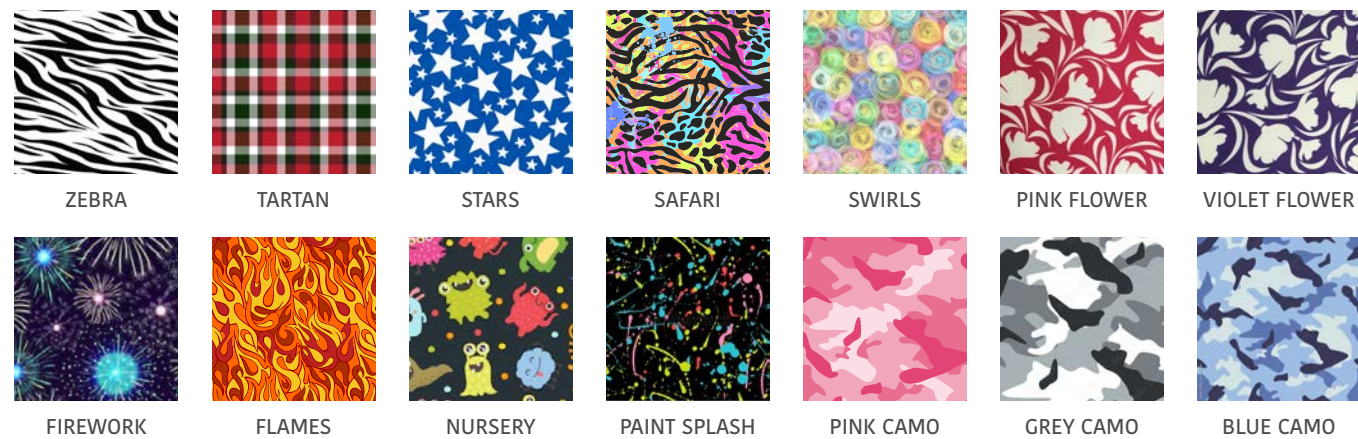


# STANDING OUT FROM THE CROWD

## SOLID COLOURS



## PATTERNS



## BINDING



WE'RE ALWAYS ADDING NEW FABRICS

Scan the link below to see the full range.

# CORE MATERIALS

## LEAD-LT

### Lightweight Lead 60 - 150 kV

Standard lead protection material  
High quality, flexible

Hardwearing vinyl matrix for long lasting protection.

For applications in the upper X-ray tube voltage range, e.g. CT applications

Compliant with standards:  
IEC 61331-1:2014

3.40Kg

AREA DENSITY WEIGHT  
PER M<sup>2</sup> (0.25 LE)

## BILAYER

### Low Lead Bilayer 60 - 150 kV

Bilayer construction provides better levels of protection. than composite lead free core materials.

Outstanding rating with regard to weight and radiation protection.

Tested radiation protection in the X-ray tube voltage range of 60 - 150 kV

Compliant with standards:  
IEC 61331-1:2014

3.20Kg

AREA DENSITY WEIGHT  
PER M<sup>2</sup> (0.25 LE)

## BILAYEReco

### Lead Free & Lightweight 60 - 110 kV

Bilayer construction provides better levels of protection than composite lead free core materials.

Lead-free protective material  
Outstanding rating with regard to weight and radiation protection.

Tested radiation protection in the X-ray tube voltage range of 60 - 110 kV

Compliant with standards:  
IEC 61331-1:2014

2.80Kg

AREA DENSITY WEIGHT  
PER M<sup>2</sup> (0.25 LE)

		Attenuation (%)							Weight Kg/M <sup>2</sup> (area density)
	Content	Lead Equivalence	60 kVp	70 kVp	90 kVp	110 kVp	120 kVp	150 kVp	
LEAD-LT	Lead	0.25 mm Pb	98.8	95.1	90.7	87.5	86.2	82.7	3.30
		0.35 mm Pb	99.7	97.6	94.5	92.3	91.3	88.6	4.60
		0.5 mm Pb	>99.9	99.1	97.4	96.1	95.5	93	6.60
BILAYER	Antimony & Lead	0.25 mm Pb	98.9	96.5	92.5	88.5	86.5	80.9	3.20
		0.35 mm Pb	99.6	98.1	95.6	93.1	91.9	88.4	4.48
		0.5 mm Pb	>99.9	99.4	98	96.5	95.7	93.3	6.40
BILAYEReco	Antimony & Bismuth	0.25 mm Pb	98.7	96.1	92	87.8			2.76
		0.35 mm Pb	99.6	98.0	95.3	92.7			3.86
		0.5 mm Pb	>99.9	99.4	97.8	96.3			5.60





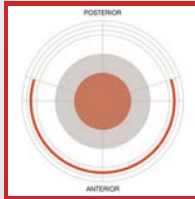
# VXR-1

The VXR apron range provides modern radiation protection apparel designed to support your active workday with exceptional performance.

Superior comfort is achieved through elastic sewn into the back panels, ensuring an optimal fit for extended wear.

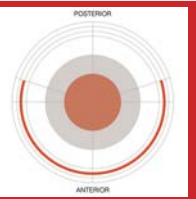
These aprons are ideal for various applications where only frontal radiation exposure occurs, offering maximum comfort and an excellent fit for the user.

- ✓ Optional protective back panels available.
- ✓ The VXR aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014



OVERLAP  
GUIDE

OVERLAP  
GUIDE



STANDARD LENGTHS (cm)	STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
			FRONT	BACK	
85	XS	SMALL			<b>LEAD-LT</b> <b>BILAYER</b> <b>BILAYEReco</b>
90	S	REGULAR	0.25 mm	NONE	
100	M	LARGE	0.35 mm	0.25	
110	L		0.5 mm	0.35	
120	XL		1.0 mm	0.5	
130	XXL				

CUSTOM SIZES AVAILABLE

# VXR-2

The VXR-2 apron range provides modern radiation protection apparel designed to be easily fastened.

These aprons are ideal for various applications where only frontal radiation exposure occurs, offering maximum comfort and an excellent fit for the user.

- ✓ Easy to fasten at the front facilitating simple removal
- ✓ Optional protective back panels available.
- ✓ The VXR aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014



STANDARD LENGTHS (cm)	STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
			FRONT	BACK	
85	XS	SMALL			<b>LEAD-LT</b> <b>BILAYER</b> <b>BILAYEReco</b>
90	S	REGULAR	0.25 mm	NONE	
100	M	LARGE	0.35 mm	0.25	
110	L		0.5 mm	0.35	
120	XL		1.0 mm	0.5	
130	XXL				

CUSTOM SIZES AVAILABLE

RE-ENGINEERED FOR A BETTER  
FIT AND A LIGHTER WEIGHT

PXR



PICTURED WITH  
ADJUSTABLE ELASTICATED  
BELT

Our PXR apron is an re-engineering of the classic tabard design, offering enhanced comfort and fit around the axilla.

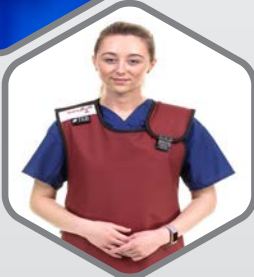
Available in multiple configurations, including single or double shoulder clip designs, it ensures a customisable experience tailored to individual preferences.

This essential piece in the lead apron range allows departments to maintain a versatile selection that accommodates a wide range of personnel while providing reliable radiation protection.

- ✓ Available as a single or double shoulder clip design.
- ✓ Range of different fastenings available. Including a height adjustable elasticated belt.
- ✓ The PXR aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014.



REAR BUCKLES AS  
STANDARD



SINGLE SHOULDER CLIP  
DESIGN OPTION



OVERLAP  
GUIDE

OVERLAP  
GUIDE

STANDARD LENGTHS (cm)	STANDARD SIZES	OPTIONS	LEAD EQUIVALENCE		CORE MATERIALS
			FRONT	BACK	
85	XS	SINGLE SHOULDER CLIP			<b>LEAD-LT</b> <b>BILAYER</b> <b>BILAYEReco</b>
90	S	DOUBLE SHOULDER CLIP	0.25 mm	0.25 mm	
100	M	ELASTICATED BELT	0.35 mm	0.35 mm	
110	L	REAR BUCKLES	0.5 mm	0.5 mm	
120	XL	FRONT BUCKLES			
130	XXL				

CUSTOM SIZES AVAILABLE

RE-ENGINEERED FOR A BETTER  
FIT AND A LIGHTER WEIGHT

WXR



Our WXR apron is designed for enhanced protection, featuring double-layered coverage where the apron overlaps.

The variation in overlap ensures a tailored fit for different body types, while multiple armhole sizes optimise protection around the axilla.

The standard elasticated belt allows for lifting the apron's weight off the shoulders, improving comfort during extended use and making this a popular choice for those seeking reliable, comfortable radiation protection.

- ✓ Easy to wear.
- ✓ Option to have different levels of protection in the front and back panels.
- ✓ The WXR aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014



PROVIDED WITH  
ELASTICATED BELT

STANDARD LENGTHS (cm)	STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
			FRONT	BACK	
85	XS	SMALL			<b>LEAD-LT</b> <b>BILAYER</b> <b>BILAYEReco</b>
90	S	REGULAR	0.25 mm	0.25 mm	
100	M	LARGE	0.35 mm	0.35 mm	
110	L		0.5 mm	0.5 mm	
120	XL				
130	XXL				

CUSTOM SIZES AVAILABLE



RE-ENGINEERED FOR A BETTER  
FIT AND A LIGHTER WEIGHT

# WXR-F

The WXR-F apron is a full-length garment designed with overlapping zones across the front to deliver the labelled level of protection when properly overlapped.

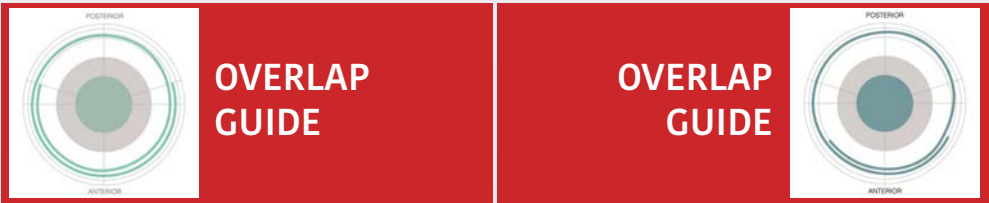
This innovative design reduces the need for excess core material while still providing comprehensive coverage across 60% of the body's girth.

The unique panelling simplifies wear, making it a comfortable and efficient choice for those requiring full protection without the added bulk. Ideal for extended use, this apron offers optimal balance between safety and ease of wear.

- ✓ The front sections have areas that overlap to acheive the labelled protection, allowing the garment to have a lower weight.
- ✓ The WXR-F aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014



PROVIDED WITH ELASTICATED BELT



RE-ENGINEERED FOR A BETTER  
FIT AND A LIGHTER WEIGHT

# TXR-W

The TXR-W design is part of a two-piece protective garment designed to evenly distribute weight between the shoulders and hips, enhancing comfort during extended wear.

Its overlapping design offers double protection over vital areas.

As one of our most popular designs, the TXR-W has been re-engineered for a better fit around the armholes, providing improved comfort and mobility.

- ✓ The ~30cm overlap zone allows the TXR-W to accommodate a range of sizes.
- ✓ Optional, different protection levels in the front and back.
- ✓ The TXR-W aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014

KXR-W  
STANDARD  
WRAP KILT



KXR-F

FULL WRAP KILT  
WITH HALF THICKNESS IN THE  
FRONT PANELS



STANDARD LENGTHS (cm)		STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
				FRONT	BACK	
85		XS	SMALL			LEAD-LT
90		S	REGULAR	0.5 mm	0.25 mm	BILAYER
100		M	LARGE	0.35 mm	0.35 mm	BILAYEReco
110		L		1.0 mm	0.5 mm	
120		XL				
130		XXL				

STANDARD LENGTHS (cm)		STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
TOP (TXR)	KILT (KXR)			FRONT	BACK	
50	53	XS	SMALL			LEAD-LT
58	58	S	REGULAR	0.25 mm	0.25 mm	BILAYER
60	60	M	LARGE	0.35 mm	0.35 mm	BILAYEReco
65	65	L		0.5 mm	0.5 mm	
70	70	XL		1.0 mm		
		XXL				

CUSTOM SIZES AVAILABLE

OTHER LENGTHS AND SIZES AVAILABLE

RE-ENGINEERED FOR A BETTER  
FIT AND A LIGHTER WEIGHT

TXR-W LITE

The TXR-W **LITE** design is a modification on the TXRW design offering all the design advantages and fit of the base model.

It has been re-engineered to reduce overlap at the front which helps save up to 15% of the overall weight of the TXRW.

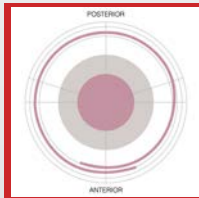
Were the TXR-W designs offer more flexibility for fitting a number of different individuals, the TXRW-**LITE** is more suited for those who require a personal lead apron.

- Optional, different protection levels in the front and back.
- The TXR-W aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014

KXR-W  
STANDARD  
WRAP KILT



KXR-F  
FULL WRAP KILT  
WITH HALF THICKNESS IN THE  
FRONT PANELS



OVERLAP  
GUIDE

OVERLAP  
GUIDE



KXR-W  
STANDARD  
WRAP KILT



KXR-F  
FULL WRAP KILT  
WITH HALF THICKNESS IN THE  
FRONT PANELS

RE-ENGINEERED FOR A BETTER  
FIT AND A LIGHTER WEIGHT

TXR-F

The TXR-F design is part of a two-piece protective garment designed to distribute weight between the shoulders and hips, maximizing comfort for the wearer.

Its overlapping design meets the requirements of IEC 61331-3:2014, ensuring fully labelled protection when properly overlapped.

The TXR-F has been re-engineered for a better fit around the armholes, with hundreds of combinations available to ensure a perfect fit for both men and women.

- Optional, different protection levels in the front and back.
- The TXR-F aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014



STANDARD LENGTHS (cm)		STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
TOP (TXR)	KILT (KXR)			FRONT	BACK	
50	53	XS	SMALL	0.25 mm	0.25 mm	LEAD-LT BILAYER BILAYEReco
58	58	S	REGULAR	0.35 mm	0.35 mm	
60	60	M	LARGE	0.5 mm	0.5 mm	
65	65	L		1.0 mm		
70	70	XL				
70	70	XXL				

OTHER LENGTHS AND SIZES AVAILABLE

STANDARD LENGTHS (cm)		STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
TOP (TXR-F)	KILT (KXR-F)			FRONT	BACK	
50	53	XS	SMALL	0.25 mm	0.25 mm	LEAD-LT BILAYER BILAYEReco
58	58	S	REGULAR	0.35 mm	0.35 mm	
60	60	M	LARGE	0.5 mm		
65	65	L				
70	70	XL				
70	70	XXL				

OTHER LENGTHS AND SIZES AVAILABLE



RE-ENGINEERED FOR A BETTER  
FIT AND A LIGHTER WEIGHT

# TXR-B

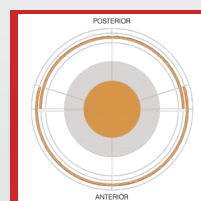
The TXR-B design is part of a two-piece protective garment designed to distribute weight evenly between the shoulders and hips, enhancing comfort during use.

It has been re-engineered for a better fit around the arm-  
holes, and with hundreds of combinations available, it en-  
sures a perfect fit for both men and women.

A unique feature of the TXR-B is its elasticated back, which  
provides a supportive and snug fit, making it one of the most  
comfortable designs in our range.

- Optional, different protection levels in the front and back
- The TXR-W aprons are type-tested and certified in compliance with (EU) 2016/425, IEC 61331-1:2014, IEC 61331-3:2014

KXR-W  
STANDARD  
WRAP KILT



OVERLAP  
GUIDE

KXR-F

FULL WRAP KILT  
WITH HALF THICKNESS IN THE  
FRONT PANELS



STANDARD LENGTHS (cm)		STANDARD SIZES	ARM HOLES	LEAD EQUIVALENCE		CORE MATERIALS
TOP (TXR)	KILT (KXR)			FRONT	BACK	
50	53	XS	SMALL			LEAD-LT BILAYER BILAYEReco
58	58	S	REGULAR	0.25 mm	0.25 mm	
60	60	M	LARGE	0.35 mm	0.35 mm	
65	65	L		0.5 mm	0.5 mm	
70	70	XL				
		XXL				

OTHER LENGTHS AND SIZES AVAILABLE



INTEGRATES WITH MOST LEAD APRON DESIGNS  
MOVES WITH THE ARM TO ENSURE PROPER COVERAGE OF THE AXILLA  
COMFORTABLE TO WEAR, EASY TO APPLY

## ADDITIONAL PROTECTION DURING SURGICAL PROCEDURES

The global topic of axilla & breast protection is currently at the forefront of radiation safety as some procedures can expose clinicians to ionising radiation in this anatomical area.

This is where the mammo-SHIELD™ comes in. Specially designed to sit comfortably under the arm and move with the wearer to help provide protection in this vulnerable area.

## DEVELOPED WITH HEALTHCARE PROFESSIONALS

We have worked alongside leading orthopaedic surgeons to develop the mammo-SHIELD™- our solution for enhanced axillary protection, offering added peace of mind.

Our simple yet robust design seamlessly integrates with most lead aprons & tops. The flexible configuration ensures adequate axilla coverage in a variety of arm positions.

Contact your local Rothband representative for more information and a demonstration



ROTHBAND

www.rothband.com

PRODUCT CODE: MAMSH  
REGISTERED DESIGN NUMBER: 6284862



THYROID COLLARS



magneteto      TPV      TPD      TPB

ANCILLARY




SCATTER CAP LIGHT      SLEEVE      MINI SLEEVE      CRICKET PADS  
OPTIONAL FOOT PROTECTION

GLASSES



WRAPAROUND      FIT OVERS      NIKE BRAZEN      SPORT WRAP  
RG-F10      RG-RK2 GOGGLES      RG-Q200      375 PX

 All our glasses come with plano lenses as standard. Most designs can incorporate a prescription lens but not all glasses can take all prescriptions. Please talk to your representative about prescriptions and availability, and please be aware that we can only provide a price once we have received the prescription form. NB, the availability of frames is dependent on the fashion industry and can change quickly and without notice. Please look at the website for an 'up to date' selection.

PERSONALISATION



EMBROIDERY      POCKET      POCKET EMBROIDERY      REPLACEABLE VELCRO ID      CLEAR ID POCKET

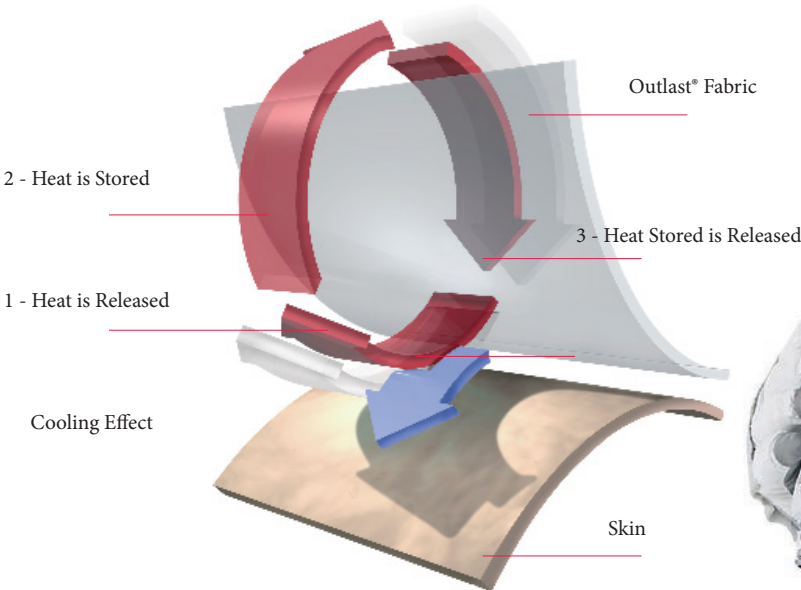
OPTIONAL EXTRAS



INTERNAL POCKET      OUTLAST      KILT POCKET      INTERNAL BELT



Now Available with Outlast® Technology





STORAGE

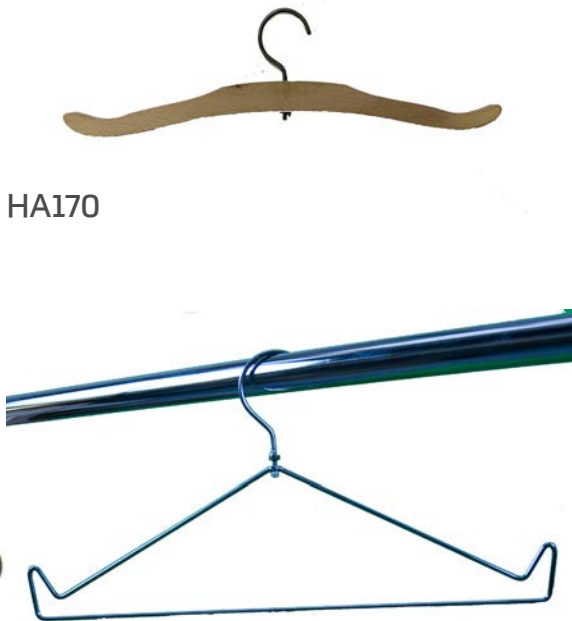
STORAGE

RAILS

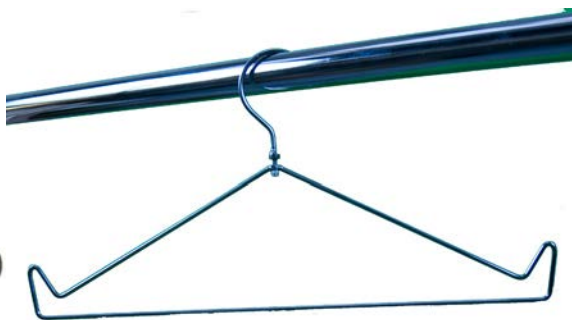
REGULATORY COMPLIANCE



HA172



HA170



HA175

## SWING ARM



HA10KT



HA5K



KILT HOOKS

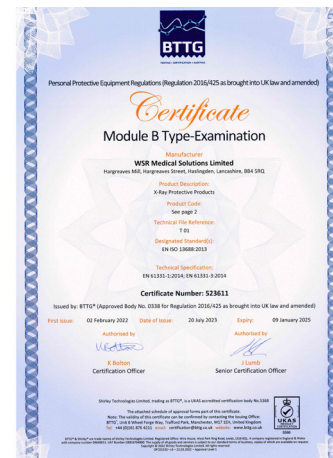
## CERTIFICATIONS



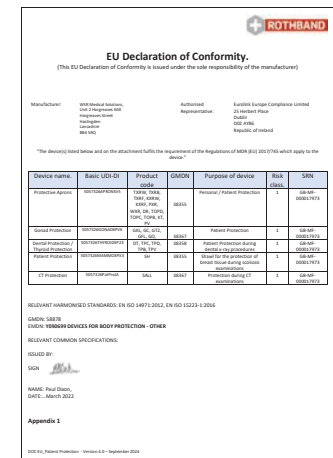
ISO 9001:2015



CE MODULE D

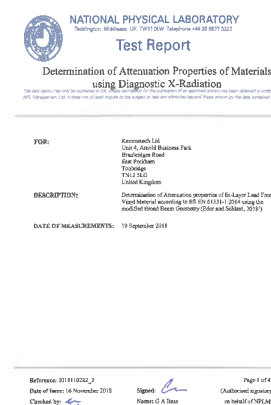


CE MODULE B

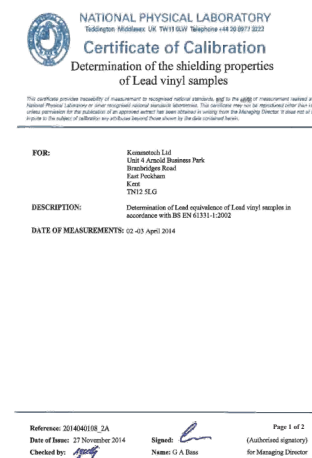


(EU) 2016/425

## MATERIAL TESTING



BILAYER



LEAD



PATTERNS



SOLID COLOURS





**ROTHBAND**

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**SCAN ME**



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