



Personal Protective Equipment Regulation (EU) 2016/425

Certificate

Module B EU Type-Examination

Manufacturer

Protech Leaded Eyewear Inc, DBA Protech Medical
7960 Central Industrial Dr, Ste 125, West Palm Beach, FL 33404, USA

Product Description:

X-ray radiation protection aprons and related accessories

Product Code:

See pages 2 and 3 for product codes

Technical File Reference:

523415

Harmonised Standard(s):

EN ISO 13688:2013/A1:2021

Technical Specification:

EN 61331-1:2014; EN 61331-3:2014
(Modified Broad Beam Geometry, BBG*)

Certificate Number: SH00791

Issued by: Shirley® (Notified Body No. 2895 for Regulation (EU) 2016/425)

First issue: 20 December 2021 **Date of Issue:** 12 June 2025 **Expiry:** 24 June 2029

Authorised by

J L Wilson
Senior Certification Officer

The attached schedule of approval forms part of this certificate.
Note: The validity of this certificate can be confirmed by contacting the Issuing Office:
Shirley Technologies (Europe) Limited, Sky Business Centre, Port Tunnel Business Park, Office 13
Unit 21, Clonshaugh Business & Technology Park, Dublin 17, ROI
Tel: +353 (0) 01894 1448 **email:** info@shirley.ie **website:** www.shirley.ie





Schedule of Approval Certificate Number: SH00791

First Issued:	20 December 2021	Page No:	2 of 6
Issue date:	12 June 2025	Issued by:	Shirley® (Notified Body No. 2895)
Expiry date:	24 June 2029	Shirley® ref:	SH-038619
Manufacturer:	Protech Leaded Eyewear Inc, DBA Protech Medical		
Technical file ref:	523415		

Shirley®, specified as a "notified body" under the terms of the Regulation (EU) 2016/425 of the European Parliament and of the Council on personal protective equipment, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the relevant provisions of Annex V (Module B) of the Regulation and with the applicable essential health and safety requirements, subject to any conditions in the schedule attached hereto.

The certificate relates specifically to the PPE items described and depicted in the manufacturer's Technical File, copies of which are held by the manufacturer and Shirley®, and not to any other items.

The certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Description of product

X-ray radiation protection aprons and related accessories consisting of:

EN 61331-1:2014 & EN 61331-3:2014

Aprons	AP-BR; AP-BA; AP-FB; AP-FBM; AP-FBX; AP-SD; AP-TA; AP-TIE; AP-UA; AP-VA; APO-FB
Closed Aprons	AP-MAWA; AP-MA; AP-WAX; AP-WRAP; AP-VW; AP-WASD; AP-WASL; AP-WABR; AP-WAQ; AP-WAFB; AP-WAB; APO-WAB; AP-SKIRT; AP-SKIRTQ; AP-CSKIRT; APO-SK; AP-VSL; AP-VEZ; AP-VX AP-TVEST; AP-VEST; AP-V; AP-VO; AP-VFO; AP-VFB; AP-VFBQ; AP-AFBF; AP-VQ; AP-VESTQ; AP-VEU AP-VOEU; AP-SKEU; APO-V; APO-VSO; AP-TVS; AP-VS; AP-VSFO; AP-VSFB; AP-VSFBFO
Thyroid Collars	AP-TCB; AP-TCG; AP-TCO; AP-TCS; AP-TCP; AP-TCF; AP-TCH; AP-TCV; AP-TCM; APO-TCM; APO-TC
Protective Mitts	SLITMIT
Gonad Aprons	AP-HA
Ovary Shields	AP-GONAD; AP-GS-OL
Dental Aprons	AP-DA; AP-DAC; AP-DC; AP-DP; APO-DA

EN 61331-1:2014 Only

Caps	AP-PGCAP; SG-DCAP; AP-PCAP; AP-CAP
Breast Stole	AP-STOLE; AP-BG
Apron Sleeve	AP-SLV; AP-WINGS
Shin Guard	AP-SG; AP-SHIN; AP-FOOT
Angio Mitt	ANGIOMIT; ANGIO
Blanket	BL



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Disposable Cap	SG-DCAP
Disposable Thyroid Shield	SG-DTHY
Patient Drapes	SG-AD; SG-ABD; SG-BD; SG-DSD; SG-EPDC-SM; SD-EPDC-LG; SG-EPD; SG-FEM; SG-JUG SG-MRFD; SG-NSD; SG-MPD; SG-MPDF; SG-PPD; SG-RA; SG-SPE
Patient CT Shields	SG-SHLD-EYE; SG-SHLD-THY

Available in the following materials:

Outer Fabric: Nylon, Polyester or PVC fabric (in various colours)

Inner Fabric: Nylon, Polyester or PVC fabric (in various colours)

Protective Core Materials:

ST; Standard Lead:	$W_s \geq 4.54 \text{ kg/m}^2$ with a Lead Equivalence of 0.25 mmPb for 50 – 150 kV $W_s \geq 6.07 \text{ kg/m}^2$ with a Lead Equivalence of 0.35 mmPb for 50 – 150 kV $W_s \geq 7.65 \text{ kg/m}^2$ with a Lead Equivalence of 0.50 mmPb for 50 – 150 kV $W_s \geq 14.01 \text{ kg/m}^2$ with a Lead Equivalence of 1.0 mmPb for 50 – 150 kV
UL; Ultralite Lead:	$W_s \geq 4.06 \text{ kg/m}^2$ with a Lead Equivalence of 0.25 mmPb for 50 – 150 kV $W_s \geq 5.55 \text{ kg/m}^2$ with a Lead Equivalence of 0.35 mmPb for 50 – 150 kV $W_s \geq 6.91 \text{ kg/m}^2$ with a Lead Equivalence of 0.50 mmPb for 50 – 150 kV $W_s \geq 11.96 \text{ kg/m}^2$ with a Lead Equivalence of 1.0 mmPb for 50 – 150 kV
LFI; Prolite (IEC) (aka Prolite Bilayer IEC):	$W_s \geq 3.12 \text{ kg/m}^2$ with a Lead Equivalence of 0.25 mmPb for 60 – 150 kV $W_s \geq 4.25 \text{ kg/m}^2$ with a Lead Equivalence of 0.35 mmPb for 60 – 150 kV $W_s \geq 4.68 \text{ kg/m}^2$ with a Lead Equivalence of 0.375 mmPb for 60 – 150 kV $W_s \geq 6.26 \text{ kg/m}^2$ with a Lead Equivalence of 0.50 mmPb for 60 – 150 kV $W_s \geq 8.06 \text{ kg/m}^2$ with a Lead Equivalence of 0.70 mmPb for 60 – 110 kV
BI; Bilayer Lead Free:	$W_s \geq 4.06 \text{ kg/m}^2$ with a Lead Equivalence of 0.375 mmPb for 60 – 110 kV $W_s \geq 5.41 \text{ kg/m}^2$ with a Lead Equivalence of 0.50 mmPb for 60 – 110 kV

Drapes and CT Shields are only available in Lead Free (IEC) and Bi-layer (Lead Free)



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Manufacturers Technical Specification

The manufacturer's Technical Specification for the end use of X-Ray Protective Clothing and accessories was based on testing according to EN 61331-1:2014. Product design is based on EN 61331-3:2014 with variations and adaptations based on user requirements.

The suitability of this specification was checked with respect to the Essential Health and Safety Requirements of (EU) Regulation 2016/425 and was found to address the requirements for this end use.

Testing of the core materials was carried out according to the Modified Broad Beam Geometry (BBG*), as detailed in the 'Recommendation for Use' PPE-R/05.34-001 approved by the Co-ordination of Notified Bodies Vertical Groups.

Limitations of Use

- Usage, maintenance and storage as per manufacturer's instructions.

Observations

- Not applicable.



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Approval Documents

- Material test report Nos. 6250317-1; 6250317-2; 2023070331-4; 2023070331-6
- Innocuousness test report No. USA00027053



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Terms and Conditions associated with the issue of this EU Type-Examination Certificate

1. This certificate is issued subject to Shirley®'s standard terms of business, available from our website.
2. Production is limited to the site(s) listed in the manufacturer's Technical File, copies of which are held by the manufacturer and Shirley®, and not to any other production site(s).
3. The client must implement appropriate changes as notified by Shirley®.
4. The client must ensure the certified product is representative of the ongoing manufactured product.
5. The client must make provision for access to relevant documents and records.
6. The client must investigate complaints associated with the certified products. Records of such complaints, and actions taken, must be kept by the client and made available to Shirley® when requested.
7. The client must only make claims consistent with the scope of certification,
8. The client must not make any misleading or unauthorised comments regarding the certified product or the certification body.
9. The client must upon suspension, withdrawal, or termination of certification discontinue the use of all advertising matter that contains any reference thereto and take action to return this certificate to Shirley®.
10. The client must comply with the requirements for the use of the notified body number as detailed below.
11. Any change to the product or quality manual / quality plan shall be immediately notified to Shirley®.
12. This certificate is issued in the English language only. It is the responsibility of the Manufacturer / Authorised Representative to obtain and supply language versions acceptable to the country where the product is to be sold. This certificate remains the property of Shirley® and will be withdrawn if any of the conditions attached to its issue are not complied with.
13. The EC mark consists of the letters 'CE', in the form given in Annex II of Regulation (EC) No 765/2008 and for category III PPE, followed by the number of the notified body involved in production control monitoring (Module C2 or D).
14. This certificate does not authorise the use of the Mark of Conformity (the 'CE mark'), which may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when Module C2 or D of the Regulation is fully complied with and controlled by a written agreement with a notified body.

Use of Notified Body Number

1. The Notified Body Number must only be used
 - a. In direct association with products or systems covered by this Type-Examination Certificate.
 - b. by holder(s) of the Certificate.
2. Use of Shirley® Notified Body Number does not extend to other companies which are:
 - a. part of the same corporate group as the Certificate holding company: or
 - b. named in a Certificate, for example as a supplier.
3. Particular care must always be taken to avoid the association of the Shirley® Notified Body Number with other products or systems or schemes and with claims or information not contained in the Shirley® document.

If any of the above requirements are not met Shirley® will seek to suspend, withdraw or terminate this certificate.

END OF SCHEDULE