

**REQUEST FOR QUOTATION No. UKRKI/RFQ/2023\_112**

**ANNEX A – TECHNICAL SPECIFICATIONS  
FOR THE SUPPLY, DELIVERY, AND INSTALLATION OF SHATTER RESISTANT FILMS (SRF) FOR THE UNHCR  
REPRESENTATION OFFICE IN KYIV, UKRAINE**

<b>MINIMUM ACCEPTABLE SPECIFICATIONS</b>	
No.	Bidders may offer items with similar or higher specifications. For items which are no longer being manufactured or are already obsolete, bidders may provide alternative/substitute items.
1	<b>SHATTER RESISTANT FILM (SRF)</b>
a	Products offered should consist of quality brands such as 3M, Du Pont, Llumar or similar.  Other names for SRF: Anti-Shatter Film (ASF); Anti-Fragmentation Film (AFF); Fragment Retention Film (FRF); Blast Protective Film (BPF).
b	<b>Estimated Quantity</b> Approximately: <b>300 m<sup>2</sup></b> The actual quantity will be measured after the installation.
2	<b>TECHNICAL SPECIFICATIONS (nominal)</b>
a	<b>Installation Method</b> <b>Daylight.</b> The potential supplier must guarantee the performance of their product after installation meets the core requirements specified in this table. Only qualified staff is recommended to install SRF. Any training cost must be specified separately in the financial bid.
c	<b>Thickness</b> <b>8 mils (0.2 mm)</b> thick (excluding adhesive or release liner)
d	<b>Construction</b> The SRF must be constructed from multi-ply (micro-layered) laminate polyester.
e	<b>Breaking Strength</b> Minimum 255 lbs/inch.
f	<b>Tensile Strength</b> 32,000 psi.
i	<b>Product life</b> The SRF must be provided with at least five years of warranty which covers SRF against peeling, cracking, discoloring, or failing to perform in accordance with any of the characteristics defined in this paper as a core requirement.
j	<b>Size</b> SRF shall be available in roll widths of not less than 4-feet (1.2 meters) in order to minimize joints.
k	<b>Color</b> <b>Clear (transparent)</b>
3	<b>FUNCTIONAL SPECIFICATIONS - The SRF must mitigate deliberate threats, such as:</b>
a	<b>Blast.</b>
b	<b>Accidental impacts.</b>
d	<b>Windstorms.</b>
e	<b>Spontaneous glass breakage due to environmental conditions.</b>