

Request for Proposal – Window Film

Shepherd Public Schools is seeking bids for Eastman Chemical Lumar Certified Installation of Optically Clear 8 mil or 13mil Safety and Security Window Film and Dow 995 Attachment System for all exterior windows (including doors) on the following buildings:

Shepherd K-12 School: 269 windows and doors (approx. 3400 sq. ft.)

Wynn Elementary School: 68 windows and doors (approx. 700 sq. ft.)

Odyssey Alternative School: 37 windows and doors (approx. 550 sq. ft.)

Windows vary in size and bidders may attend an optional a site visit on date to measure and/or count windows so as to provide an accurate bid. Technical specifications begin on page two of this RFP.

Bid Sheet Instructions: Please complete the following Proposal Form (Attachment A).

Please also provide any relevant documentation or specs regarding the product you are proposing your bid upon. If you have any questions, please email Steve Brimmer at sbrimmer@shepherdschools.net.

Additional Information: Bidders must complete and return all of the following in order to be considered:

Attachment A - Proposal Form

Attachment B - Familial Relationship Disclosure

Attachment C - Iran Economic Sanctions Act Certification

Attachment D - Insurance Coverage

Attachment E - Professional References (Recommended)

Bids may be submitted by Mail:

Shepherd Public Schools

Attn: Steve Brimmer - Window Film Bid

321 S. Fourth Street, Shepherd, MI

Bids must be received no later than 2:00 p.m. EST on Friday, June 7, 2019. Shepherd Public Schools reserves the right to accept any or all bids. Sealed bids will be opened by a board member of the Shepherd Public Schools on Friday.

Bid Requirements & Specifications
Safety & Security Window Film
Material & Installation Specifications & Attachment System

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

- A. The General Conditions, Supplementary Conditions, and Division 01 – General Requirements apply.

1.2 SECTION INCLUDES

- A. Standards based safety-and-security films
- B. Requirements for entry and classroom safety and security film.

1.4 REFERENCES (8mil Security Films)

- A. American National Standards Institute (ANSI):
 - 1. ANSI Z97.1 - Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
- B. Consumer Products Safety Commission (CPSC):
 - 1. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials.
- C. General Services Administration (GSA-TSO-2003)
 - 1. Level of protection GSA testing criteria.

1.6 PERFORMANCE REQUIREMENTS

- A. Impact Resistance - (8mil security film): Provide films that when applied to 1/8-inch annealed or tempered glass pass the impact test requirements of ANSI Z97.1 and CPSC 16 CFR 1201 Category 1 and 2.
- B. Flying Glass and Debris – (8mil security film) GSA rating of 2, 3a or 3b.

1.7 STANDARDS REQUIREMENTS

- A. Safety and Security Film: The film being supplied must meet the standards identified in Part 1 1.4 and 1.5 for the type of glass (annealed, tempered, single pane, double pane, etc.) that the safety and security film is being applied upon.

1.8 SUBMITTALS

- A. Product Data: Submit for each product you are specifying in your bid:
 - 1. Performance properties. Include product data sheets from the manufacturer.
 - 2. Standards Qualifications. Include manufacturers documentation on all standards referenced in Part 1 Section 1.4 and 1.5.
- B. Security Film Samples: For each type of safety and security film specified, submit one (1) sample, 8 inch square. Provide a label on the sample with the product description and manufacturer.
- C. Attachment system samples: Submit manufacturers product data sheet of the wet glaze and mechanical profile product you are specifying in your bid.
- D. Optional Anchoring System: Submit samples of any and all types of anchoring systems you are specifying in your bid.
- E. Warranty: Submit manufacturer's warranty of all product(s) you are specifying in your bid.

1.9 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that has a minimum of 10 years of documented experience manufacturing safety and security films like these referenced for this project.
- B. Installer Qualifications: A firm that is authorized that has a minimum of 10 years of documented experience by safety and security film manufacturer to install film in accordance with guidelines set forth by the manufacturer.
- C. Source Limitations: Obtain each type of safety and security film from same manufacturer.
- D. Pre-installation Conference: Conduct conference at project site to discuss methods and procedures relating to installation of the safety-and-security films.

PART 2 - PRODUCTS

2.1 SAFETY AND SECURITY FILMS, ATTACHMENT AND ACHORING SYSTEMS

- A. Basis-of-Design Product: The design for safety and security films is based on Llumar Safety-and-Security Films manufactured by Eastman Chemical Company business: CPFilms, Inc., 575 Maryville Centre Drive, St. Louis, Missouri 63141. No Substitutions.
- B. Building Doorways and Exterior Classroom openings. Entrance openings & classroom exterior glass openings will require the installation of an interior safety and security film,

Llumar SCLSRPS8 or SCLSRPS13, with the following performance characteristics when applied to the interior surface of single pane 1/8-inch clear glass:

SCLSRPS8:

% Total Solar Transmittance	81
% Total Solar Reflectance	9
% Total Solar Absorptance	10
% Visible Light Transmission	89
% Visible Light Reflection - Exterior	10
% Visible Light Reflection - Interior	10
Winter U-Value	1.07
Shading Coefficient	0.97
% Ultraviolet Ray Protection (280nm-380nm)	99
Emissivity	0.90
Solar Heat Gain Coefficient	0.84
% Total Solar Energy Rejected	16
Light-to-Solar Heat Gain Ratio	1.06
% Summer Solar Heat Reduction	2
% Winter Heat Loss Reduction	-3
% Glare Reduction	1
Thickness without Liner	0.008 inches
Film Color	Clear

SCLSRPS13:

% Total Solar Transmittance	80
% Total Solar Reflectance	9
% Total Solar Absorptance	11
% Visible Light Transmission	88
% Visible Light Reflection - Exterior	10
% Visible Light Reflection - Interior	10
Winter U-Value	1.06
Shading Coefficient	0.96
% Ultraviolet Ray Protection (280nm-380nm)	99
Emissivity	0.90
Solar Heat Gain Coefficient	0.84
% Total Solar Energy Rejected	17
Light-to-Solar Heat Gain Ratio	1.06
% Summer Solar Heat Reduction	3
% Winter Heat Loss Reduction	-2
% Glare Reduction	2
Thickness without Liner	0.013 inches
Film Color	Clear

- C. Attachment system. All opening receiving film require an attachment anchoring product applied to all four sides of the opening. Openings will dictate weather a wet glaze or a

mechanical profile type attachment is required. The finished wet glaze attachment system must be aesthetically pleasing to appear as though it were factory installed, that is, it must be a smooth flowing finish without dimples or marred finish.

- D. Film anchoring system (Optional). A “trim type” anchor system can be used in conjunction of a wet glaze system; corner trim must be included. Products such as Film Fasteners Bondkap or equivalent are acceptable.

2.2 SAFETY AND SECURITY FILM ACCESSORIES

- A. General: Provide accessories either manufactured by or acceptable to safety and security film manufacturer for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Adhesive: Pressure sensitive adhesive which is activated by pressure and water. It is characterized by its permanently tacky nature and its installation ease. Protect adhesive from contamination by applying a release liner that will be removed and discarded at installation.
- C. Cleaners, Primers, and Sealers: Types recommended by safety-and-security film manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with requirements and for conditions affecting performance of safety-and-security film including glass that is broken, chipped, cracked, abraded, or damaged in any way.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Comply with manufacturer’s written instructions for surface preparation.
- B. Clean substrates thoroughly prior to installation.
- C. Prepare substrates using methods recommended by film manufacturer to achieve the best results for the substrate under project conditions.
- D. Protect window frames and surrounding surfaces to prevent damage during installation.

3.3 INSTALLATION

- A. Install in accordance with manufacturer’s written instructions.
- B. Install with no gaps or overlaps.

- C. If seamed, make seams non-overlapping.
- D. Do not remove release liner from film until just before each piece of film is cut and ready for installation.
- E. Custom cut to the glass with neat, square corners and edges to within 1/8-inch of the window frame.
- F. Remove air bubbles, blisters, and other defects. Be careful to remove “fingers” to eliminate any contamination or excess water pockets. It is crucial to remove as much water as possible during installation.

3.4 FIELD QUALITY CONTROL

- A. After installation, view film from 10 feet against a bright uniform sky or background. Film shall appear uniform in appearance with no visible streaks, wrinkles, banding, thin spots or pinholes.
- B. If installed film does not meet these criteria, remove and replace with new film.

3.5 CLEANING AND PROTECTION

- A. Remove excess mounting solution at finished seams, perimeter edges, and adjacent surfaces.
- B. Use cleaning methods recommended by safety and security film manufacturer.
- C. Replace films that cannot be cleaned.
- D. Protect installed products until completion of project.
- E. Touch-up, repair or replace damaged products before Substantial Completion.

End of Section

Attachment A: Proposal Form

Security Film Specifications (i.e. thickness, attachment, etc.):
Buildings (& square footage) to be filmed:
Installation Date (Not to exceed start date of July 1,2020):
Total Project Cost:

Name of Vendor: _____

Address: _____

Contact Name: _____

Phone: _____

Email: _____

Authorized Representative Name: _____

Title: _____

Signature: _____

Date: _____

