



**STATEMENT OF WORK
FOR
SRWF (MYLAR FILM) INSTALLATION
03/18/2013**

1.0 INTRODUCTION

The U.S. Embassy in Moscow requests to provide comprehensive Shattering Resistant Window Film (Mylar Film) at the newly leased city Embassy apartments located in Moscow (locations listed below).

2.0 GENERAL REQUIREMENTS

Contractor shall provide all labor, equipment, transportation, quality control and supervision to perform the requirements under this project. The Contractor(s) shall visit the site at a time designated by the COR and inspect the existing area of work in order to understand the existing conditions.

3.0 WORK REQUIREMENTS

- 3.1 The contractor shall apply mylar film to a clean window surface in accordance with the manufacturer's directions -- free of peeling, splitting, scratches, creases, wrinkles, discoloration, and foreign particles.
1. 2 The film application shall be free of air bubbles after 30 days.
1. 3 The contractor shall ensure that the mylar film shall not show signs of waviness and distortion at the time the work is accepted. This determination shall be made by viewing the installed film from a distance of 10 feet (3 meters) from the interior room side at angles up to 45 degrees when looking at a clear or uniformly overcast sky.
1. 4 Unacceptable mylar film applications shall be removed in accordance with manufacturer's instructions and new film applied immediately upon determination by duly authorized government representative during the inspection and acceptance process. The contractor shall replace defective fragment retention film within 15 days if air bubbles are still present after the initial 30-day period has elapsed. Embassy shall provide replacement material for rework if the defect is a material defect that is covered under the manufacture warranty, contractor will provide the labor. If the defect is related to installation of the material, then the contractor shall reimburse the Embassy for the price of the material and also provide the labor for installation free of charge in accordance with the Warranty clause herein
1. 5 All debris and remnants from the installation shall be removed by the contractor, and the contractor will be responsible for keeping the worksite neat, safe and orderly. The contractor shall be responsible for repairing any damages to the living quarters
1. 6 A Embassy representative shall be assigned as escort during the installation process. No more than two teams of installers will be assigned to any given apartments at any time. No work shall be accomplished without an escort.
1. 7 Unused mylar film shall be returned to the Embassy after completion of installation project.

4.0 SCOPE OF WORK

4.1 Surface Preparation

The Contractor shall clean the glass surface of paint, foreign compounds, smears, and spatters. After the initial cleaning, further cleaning of the surface may be required to receive the film in accordance with the film manufacturer's instructions.

4.2 Application

4.2.1 Greater protection for occupants from flying glass caused by blast loads is achieved by applying film such that it extends edge to edge of the sheet and into the bite of the frame. Some gaskets and compounds can dissolve the film surface, the adhesive, or the metallic coating interlayer of reflective or tinted films. For insulated glass units, apply film to the interior (room) side only.

4.2.2 Provide fragment retention film on all window and door glass indicated in SOW. After surface preparation, apply the fragment retention film in accordance with the manufacturer's recommendations and instructions. Film shall be applied to the interior (room) side of the glass for both single and double glazed sheets, unless otherwise indicated. Multiple applications of film to achieve specified thicknesses is not allowed. The film shall not be applied if there are visible dust particles in the air, if there is frost on the glazing, or if any room condition such as temperature and humidity do not meet the manufacturer's instructions. After film application, maintain room conditions as required by the manufacturer's instructions to allow for proper curing of the adhesive.

4.3 Application to Existing Glass without Dismantlement

4.3.1 When exposed to the effects of explosives, films that stop close to the frame but do not extend into the bite tend to break along the weak edge and disengage completely from the frame. Because the disengaged film reinforced glass is held together as a unit, protection is provided for building occupants. Also, coordination and compatibility of the film with the compounds and gaskets is not necessary because there will be no contact between the two materials. If the edges of the existing glazing compounds are particularly irregular, the manufacturer may specify the film application to be within a maximum of 5 mm (3/16 inch), although the 3 mm (1/8 inch) maximum is recommended. The Contractor shall determine the best method of film application.

4.3.2 Mylar film shall be applied so that it extends to within 1.6 mm with a maximum of 3 mm of the edge of the visible glass area.

4.4 Splicing

Overlaps of 0.25 mm (0.010 inch) thick and thicker film are highly visible and are not recommended. If no glazing has a dimension exceeding 1475 mm (58 inches) in both directions, the film may not be spliced.

4.5 Cleaning after Installation

Cleaning of the Mylar film shall be in accordance with the manufacturer's instructions.

4.6 Existing site conditions

80 apartments have similar conditions: occupied units, fully furnished, personal belongings on window sills including flower pots. Windows may be surrounded with soft and wood furniture at the rooms and appliances and kitchen cabinets at the kitchen. All windows are fitted with drapes and/or blinds. Most of the windows are new with plastic or aluminum frame.

Apartments located at following streets: (The exact Embassy apartment locations and addresses will be provided after the award of the contract):

- Ул. Большая Дорогомиловская (BD)
- Ул. Большая Ордынка (BO)
- Ул. Большая Спасская (BS)
- 4 Добрынинский пер. (DOB)
- Кутузовский проспект (K-)
- Крутицкий пер. (Krut Val)
- Коровий вал (Kor Val)
- Ул. Мытная (Mit)
- Серпуховский вал (SVal)

5.0 U.S. GOVERNMENT PROVIDED MATERIALS

5.1 The U.S. Government will provide Mylar film Armorcoat 8 mil PC HC 2 ply clear or Madico LCL 800 XSR for this contract.

5.2 Electricity (220Volt single phase ONLY) service for hand tools and a water source will be provided by the Embassy at each location free of charge.

6.0 CONTRACTOR PROVIDED MATERIALS

6.1 All tools, ladders and supply materials except mylar film shall be provided by the contractor and must meet industry standards for quality and safety. All items coming into the embassy compound are subject to search by Embassy security guards.

7.0. PROTECTION OF WORK SPACE

7.1 Work area shall be protected from water stains and spill by using drop cloth and or plastic film.

7.2 Trash removal and cleanup is the responsibility of the contractor. Workers shall keep the immediate work area neat and clean. All debris, used materials, etc. shall be cleaned up at the end of each day.

8.0 WORK SCHEDULE

8.1. The Contractor shall submit the work schedule to the COR for approval. No work on site shall be commenced without the COR's approval.

END OF STATEMENT OF WORK