



PROTECTIVE MULLIONS FOR WINDOWS DESIGN OVERVIEW



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PROTECTIVE MULLIONS FOR WINDOWS

G-P LLC's window protective mullions represent additional safety feature for G-P LLC solar and regular windows. With high strength frame that is compatible with all of our window designs and multileveled structure of protective bars, ground and lower levels of your residential and business buildings, as well as public or any other building types are **protected from the intruders**.

We offer two window protective mullions system types:

- With stainless steel cables
- Without stainless steel cables

Both of the systems are made of different unique design features developed by our engineers to provide maximum security.





MULLIONS FRAME DESIGN

Frame system for protective bars is designed to fit all of G-P LLC windows cross sections and can be mounted with ease. It is a part of both cable and non-cable system, securely attaching cables and bar cross sections (depending on the system) to it. Our L shaped steel brackets add additional strength in the corners of the frame.



SYSTEM W/ STAINLES STEEL CABLES

Stainless steel cables add tremendous strength to the system, making it impervious to break-ins. For overall system and cable stability, we developed a steel casting that sits in vertical and horizontal bars crossing points. The casting also has a bar connecting function, and it adds additional strength to bar crossing points. Cables are hidden within the bars, so they cannot be accessed from the outside.

SYSTEM W/O STAINLES STEEL CABLES

System without cables consist of protective bars (with bar caps), bar intersection castings, and special bar-to-frame attachments that securely ties the bars to the frame. Horizontal and vertical mullions are also attached with the steel casting, the bar-to-frame attachment is riveted to the frame, and the bar caps are securely locked to the bars.



BAR COVER CAPS

Protective mullions (or bars) consist of two parts, the main section and bar caps. Horizontal mullion main sections are always continuous in our system, while vertical mullions are attached as separate parts. In contrast, vertical mullion caps are continuous while horizontal caps are divided, and that opposed configuration brings additional strength to the design.