



G-P LLC

# G-P LLC WINDOWS & DOORS



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CVE Certified – VOSB





## G-P LLC WINDOWS & DOORS

G-P LLC has a complete line of premium windows and doors of all sizes and shapes for homes, commercial buildings and office towers, ideally designed for solar transparent glass. Using premium European designs with turn and tilt in casement windows to store front windows. Frames in all types available in all wood, aluminum exterior clad, aluminum with thermal break or all copper. Interior and exterior trim in solid maple, oak, cherry, teak, walnut, pine, etc. in style to match your building.

Our product line includes:

- Windows/doors with integrated blinds
- High end windows/doors with solar glass
- Blast and security windows/doors
- Solar powered window awnings



## WINDOWS/DOORS SPECIFICATION

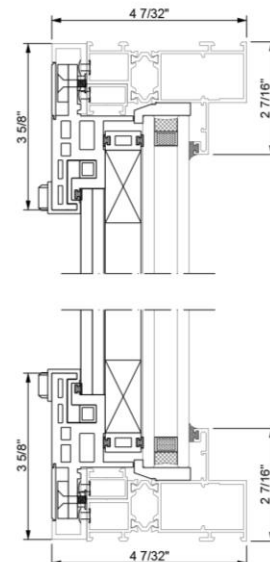
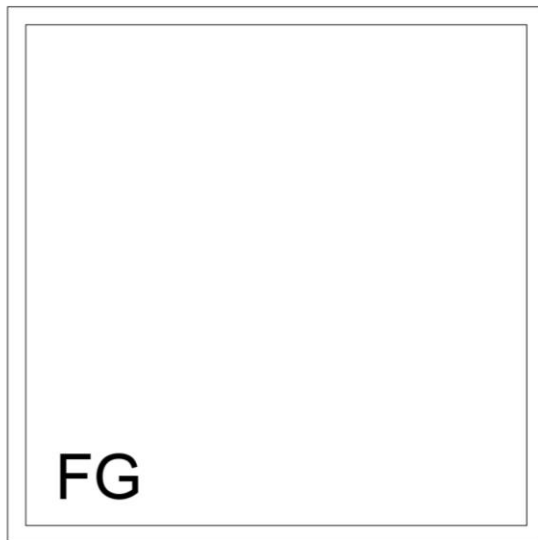
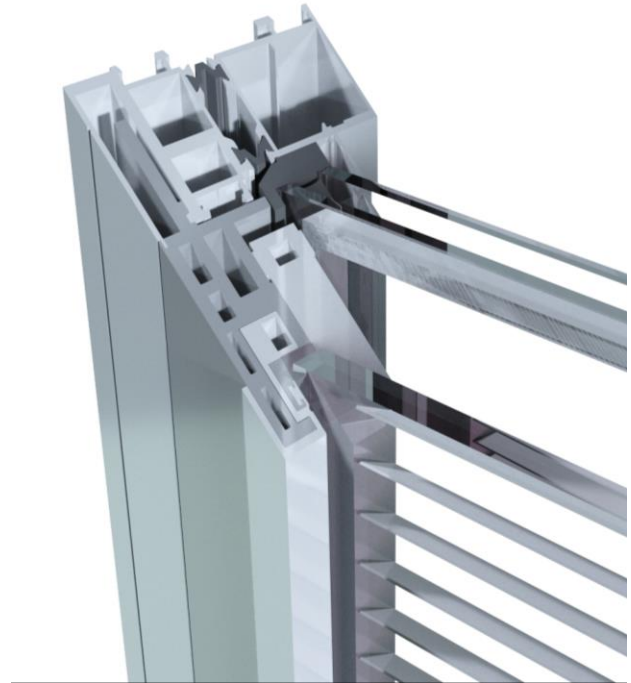
<b>WINDOWS/DOORS STYLES</b>	
• Casement windows & doors	• Sliding windows & doors
• Folding windows & doors	• French doors
• Tilt & Turn windows & doors	• Lift-N-Slide glass doors
<b>GLASS</b>	
Double and Triple Glazing, THK-10600-20-T Thin Film Solar Panel, PC, Integrated Blinds	
<b>WOOD</b>	
Color:	White/Champagne/Grey/Wood Grain/Silver
Profile:	IV68 system/Hemlock solid wood/Finger jointed/3 layer laminated
Paint:	Water based outdoor paint, environmental friendly, prevention of UV
<b>ALUMINUM PROFILE</b>	
Aluminum alloy:	6063-T5, thermal- break
Thickness:	1.4mm -2.0mm, customized
Surface treatment:	Customized (Powder coated, Electrophoresis, Anodizing etc.)
<b>SURFACE TREATMENT</b>	
Powder coating, Anodizing, Over laminate, Electrophoresis	
<b>SIZE</b>	
Customized	
<b>COLOR</b>	
Customized	
<b>SEALING</b>	
Ternary ethylene propylene rubber sealing strip	
<b>OPTIONAL PARTS</b>	
Grid/Mosquito net/Stainless Steel screen/Inside blinds	
<b>GUARANTEE</b>	
10 years	
<b>WINDOW STRENGTH</b>	
Wind Pressure Performance	≥ 5.0 kpa
Air Permability	≤ 0.5 m3/(m.h)
Rain Water Permability	≥ 700 pa
Air Noise Performance	45 dB
Good Insulation Performance	≤ 1.0w/(m2.k)
Shading Performance of SC	≤ 0.2

## WINDOWS WITH INTEGRATED BLINDS OVERVIEW

G-P LLC windows with integrated blinds feature represent all-in-one package for your future projects. Mounting time is significantly reduced since there is no need for complicated blinds or shading system installation, and there is no need for maintenance of the system. Air sealed, the blinds are protected by the protective glazing or poly-carbonate inner panel; from dust, break-in, break-out and blast.

### Features:

- Remote magnetic tilt/lower/lift/std
- 12V remote powered tilt/lower/lift optional
- Integral blinds w/ inner safety glazing can be fitted on most existing windows/doors
- Dozens of finishes available



## SOLAR TRANSPARENT WINDOWS/DOORS DESIGN OVERVIEW



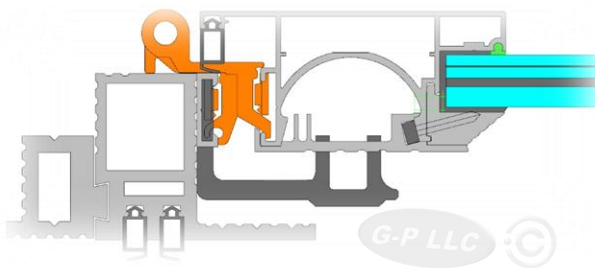
### SOLAR TRANSPARENT WINDOWS SYSTEM

Our solar transparent windows feature inner double glazing and outer thin film solar panel, with 80% transparency. Depending on the window type, inner window can be opened in regular and/or tilt position, while the solar panel screen can be also opened, with an actuator option for sun tracking.



### WINDOW ACTUATORS FOR SUN TRACKING

Convert your existing windows to high performance with sealed solar outer glass. By changing the panel position relative to the sun, the actuators will enable you to get the most of the sun's energy throughout the whole day.



### POWERED AWNING - HURRICANE/BLAST PROOF

- Fit on existing window
- Can lock during hurricane warnings
- Provides high security from break-ins
- Flood conditions – semi water proof
- Awning - store front windows



### MULTIPLE WINDOW CONFIGURATIONS

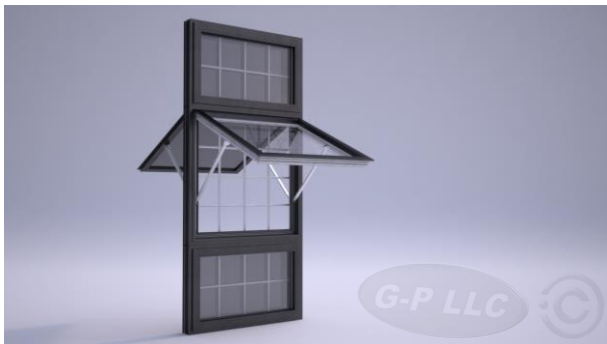
You can choose from horizontal double and triple window configurations, vertical configuration sets, to combined vertical and horizontal sets. The window opening positions are optional in these configurations.

## SOLAR TRANSPARENT WINDOWS/DOORS DESIGN OVERVIEW



### **PROTECTIVE FEATURES**

For your property and assets safety, especially at the ground and lower levels, G-P LLC developed a protective bars feature. This stainless steel feature offers maximum safety and can fit any window size and type, while not interfering with the solar technology. G-P LLC Secure Mullions will replace security bars on many windows in downtown garden apartments, and often 1st and 2nd floors of city residences and stores. The mullions are woven with high strength stainless cable and sensors that can only be cut with a gas torch or chop saw, plus the solar outer glass is safety glass for added protection.



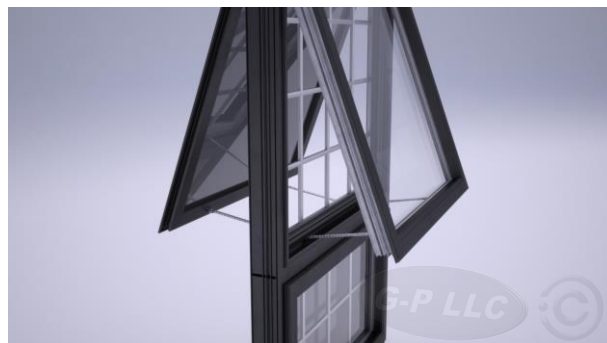
### **COMMERCIAL/INDUSTRIAL SOLAR WINDOWS**

As a separate category of our product line, we designed a special type of window for industrial, commercial and public buildings. Defined by the large glass area, automated opening of inner and outer windows and included protective features, they are a perfect choice for the mentioned building types.



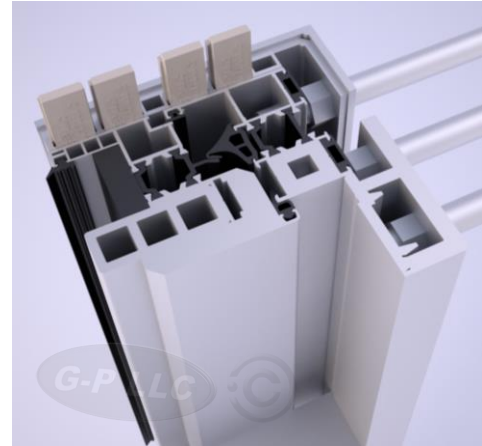
### **FULLY AUTOMATED WINDOWS**

Due to large profile of our commercial/industrial windows, they come with both interior and exterior actuators for the full automation. The inner and outer window actuation is completely independent from each other, while the outer includes the sun tracking feature. You can open and close up to 60 windows with one control. Sensors will close windows when it rains or sees high winds. Our “Live Window System” is in development to interface the window controls with buildings energy management system. Hope that soon, occupants can turn off buildings HVAC system in their office and go natural.



## BLAST RESISTANT IMPACT WINDOWS DESIGN

G-P LLC's impact blast resistant operating windows are part of our new blast resistant production line. They meet the highest security standards and the highest blast proofing criteria, and are meant to protect occupants in facilities like embassies, military and public buildings anywhere that high level of security is required. Window can be opened in 30 seconds for emergency exit and cleaning when used as an inner or outer window system.



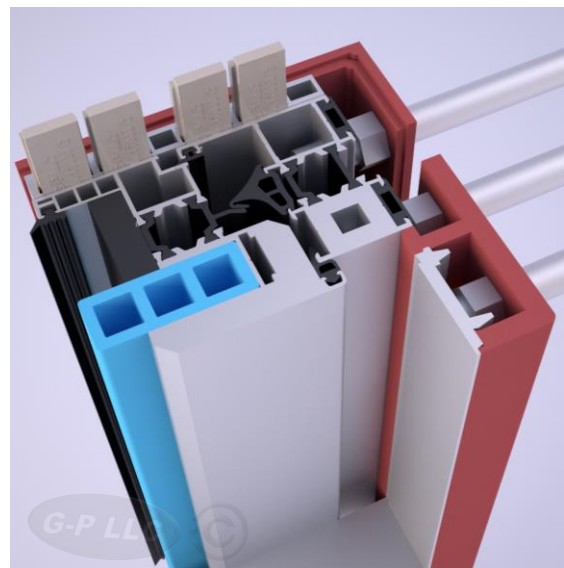
Blast Resistant Glass (Arena Tests)		
THREAT	PRODUCT	RESULT
50 lb. charge of TNT @ 7.5'	1" thick glass	no through openings, low hazard spall
50 lb. charge of TNT @ 15.0'	7/8" thick glass	no through openings, no spall
50 lb. charge of TNT @ 30.0'	11/16" glass	no through openings, no spall

### FULLY OPERATIONAL



Ability to completely open the window, just like a regular window.

### BLASTPROOF



Fully blast resistant, thanks to our unique, heat resistant ceramic seal design.