



City of Phoenix

Alternate Long Term (More Than 90 Days) Securement Specifications Utilizing Polycarbonate Material

EXHIBIT B

Carriage Bolt Method:

- * **General Application** All Polycarbonate material shall be a minimum thickness of .220. Openings that require more than a 4' X 8' sheet shall be secured with 2 sheets spliced together as shown in Diagram B. Polycarbonate should be cut to the outer edge of the window frame. Self tapping screws with security heads may be required if bowing occurs. If the window is inset the Polycarbonate should be inset as well to the outer edge of the window frame. Secure with 3/8 carriage bolts with washers and double nuts and washers on the interior. (Purpose of the double nut is to secure against one another). Install carriage bolts as close to the corners as possible.
- * **Casement Style windows** (windows that swing out from the side of the frames) must have the entire opening covered. Covering individual panes will not be accepted. If only one pane is broken the SECURE WITH SCREWS method can be used to cover the entire opening. Material will need to be notched at the corners to accommodate the hinges.
- * **Sliding windows** should be opened as far as possible to permit the carriage bolts to pass through the window opening. The sliding sash may often be lifted out of the track and stored inside the building.
- * **Fixed glass windows** require reverting to the Securing with Screws method below.
- * **Glass Patio Doors:** If the doors are functional and can be locked that is sufficient however if the door is missing glass or the glass is broken then the Carriage Bolt Method General Application applies.

Secure with Screws:

- * Insert minimum .220 thickness Polycarbonate into the exterior of the window opening for a close fit and secure with a minimum 1 1/2" drywall, deck or sheet metal screws secure top.
- * Cut the Polycarbonate to completely insert into the window opening to the outer edge of the window frame (including any radius arch at the top of the window opening) and set the screws every 8" to 10".
- * Screws are to be set into the wood window frame or wood lintel only, **not** into brick masonry, concrete or adobe. Screwing into mortar joints will be acceptable if there is no wood material available or if authorized by the City of Phoenix under unique circumstances.
- * If covers cannot be inserted into the window openings because of security bars, carefully remove the bars and secure the openings as indicated above. Security bars should be placed inside the building.

DIAGRAM "A" POLYCARBONATE

2" X 4" with 8" lap or composite cross bar on interior wall. Shall be painted black

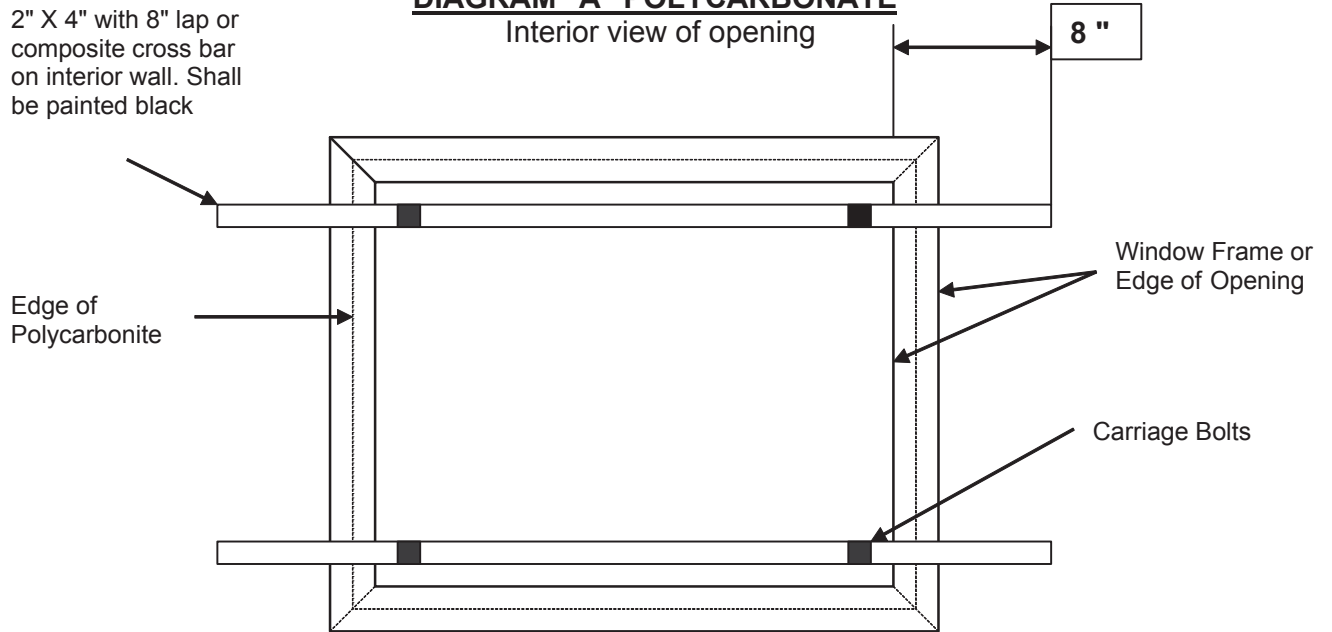


DIAGRAM "B" POLYCARBONATE

2 sheets of Polycarbonate on exterior

