



# ClearSpeak™ Ballistic Window Framing Systems

The goal with all Transaction Window assemblies is to provide a **SAFE** means of transacting document and financial interchanges, with a pleasing aesthetic, clear communication, and without losing the “personal” touch in dealing with the customer or public. BGAS accomplishes this in excellent fashion with our exclusive **ClearSpeak™** System featuring the following advantages...

- We laser cut the Attack side face of the assembly utilizing our **A6000™** Ballistic Steel in either 1/8" (.1250) or in 1/4" (.2500) thickness. This is welded on the inside to the structural steel tubing right for your application. The Ballistic Steel face overlaps the Ballistic Glazing area by one inch to insure 100% Ballistic protection over every square inch of the assembly. Standing alone, without the support of the structural tubing, the Ballistic Face by itself provides the following protection...

- \* 1/8" (.1250) thickness yields UL Level 3, NIJ Level IIIA, and BR Level 4
- \* 1/4" (.2500) thickness yields UL Level 8, NIJ Level III, and BR Level 7

- The structural tubing provides ample strength to support the Glazing, structural rigidity for the assembly, and provides Blast Mitigation as well. The size of the tubing is selected based upon the thickness of the Glazing required for the level of protection you are seeking. This tubing is a minimum of 3/4" wider than the required Glazing so that Audio Waves are able to travel around the Glazing on all sides for “whisper level” crystal clear communication. Some examples of our more popular builds...

- \* UL Level 3 Glazing (nominal thickness of 1.238") requires 2.00" x 2.00" tubing
- \* UL Level 7 Glazing (nominal thickness of 1.636") requires 2.50" x 2.50" tubing
- \* UL Level 8 Glazing (nominal thickness of 2.138") requires 3.00" x 3.00" tubing

- The inner face of the assembly (secure side) is laser cut to precisely match the outer Ballistic face utilizing A36 steel. This inner face is precisely aligned with the outer face and then drilled and tapped at the factory to allow the button head bolts to secure this face to the tubing after the Glazing is installed. This face also overlaps the Glazing by one inch to secure it in position. Bolts are included (1/4 x 20 button head)

- Custom machined, two part, neoprene spacers are provided to seat between the front and back face of the assembly to securely hold the Glazing in place and assure the right spacing for Audio Transfer, and “whisper level” crystal clear communication.

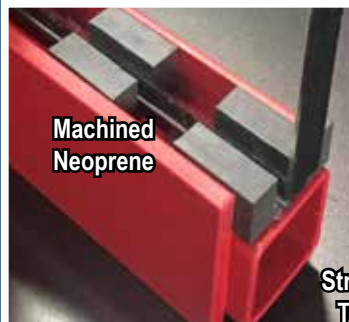
- Our exclusive Clear Hole / Anchor Hole system is included to anchor the assembly to the adjoining structure. Under where the Glazing sits we provide a 1" diameter hole in the inner side of the tubing (Clear Hole) that allows access to the 7/16" hole in the outer side of the tubing (Anchor Hole), that allows anchoring to the adjacent structure. This is then covered and “invisible” once the glazing is set. Easy to install.

- The entire assembly (even bolts) are powdercoated to your choice of color!



Laser Cut A36  
Locking Face

Laser Cut  
Ballistic Face



Machined  
Neoprene

Structural  
Tubing



Clear Hole

Anchor Hole  
Opposite Side

BGAS can also provide Ballistic Pass Thru Trays and Ballistic Package Trays or any other Ballistic Solution you may need!



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**NOTE:** The purpose of this presentation is to provide our Clients with understanding of the function and fabrication methods utilized for this product. Actual dimensions will be tailored to match your custom openings, and the choice of threat level you are securing against. All designs and methods are proprietary to Ballistic Glass and Armor Solutions, llc. (BGAS). If required, at the close of any contract reached, BGAS will provide “As Built” drawings at no additional charge. If detailed Shop Drawings are required in advance of contracting BGAS will supply these within 14 calendar days of notice to do so AND payment in full in the amount of \$1,000. USD for each drawing required. If a contract is subsequently awarded to BGAS, a \$500. USD credit for each drawing required will be applied to the contract. Whether contracted or not, all designs, drawings, and fabrication methods remain the exclusive property of BGAS.

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