

Design Blast Details

UFC 4-010-01 Exp Wt I
Standoff Distance: 145 ft

Project Details

Project Name: Web Example
Project Location: www.standardsdesign.com
Comments: Sample report. DEMONSTRATION ONLY!!

Glazing Information

Lite Dimensions:
Width: 50.0 in.
Height: 50.0 in.

Glass Construction

Single Glazed Lite { Laminated - Annealed }
Nominal Lite Thickness: 5/16 in.
Minimum PVB Interlayer Thickness: 0.030

Design Load Details

Equivilant 3 sec Design Load: N/A
Load Resistance: 84.1 psf
Approximate Maximum Air Blast Pressure: N/A

Framing and Attachment Requirements

- 1) The blast resistant design requires wet-glazing in the frame with a 5/16 in. square bead.
- 2) The window glass frame must resist a 168 psf uniformly distributed static design load acting over the window surface area.

Statement of Compliance

Procedures followed in determining the load resistance of this window glass are in accordance with ASTM E1300-04. This design satisfies ASTM F1642 requirements for minimal hazard.

In the event a blast occurs of design size or smaller, this design satisfies the requirements for a medium level of protection as defined in the UFC 4-010-01.

Disclaimer:

This software can be used to design blast resistant glazing fabricated with laminated glass subject to the following conditions:

- The glass is free of edge and surface damage.
- The blast resistant glazing assembly is continuously supported along all four edges.
- The software user has the responsibility of selecting the correct procedures for the required application from the software.
- The stiffness of members supporting any glass edge shall be sufficient that under an equivalent 3 sec. design load, edge deflections of glazing shall not exceed $L/160$, where L denotes that length of the supported edge.
- The non-factored load values for laminated glass are representative of test data and calculations performed for polyvinyl butyral interlayer at a temperature of 50° C (122° F).

For other limiting conditions that may apply, refer to Section 5 of ASTM E1300 and local building codes.

SDG does not guarantee and disclaims any responsibility for any particular results relating to the use of the Blast Resistant Glazing Design 2007 Software Program.

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Prepared by: _____ on 2/28/2007
Webmaster