

Professional engineer certified calculations

Cover letter - page 1 of 4

This door engineer certified for 7,200 pounds per square foot (50 pounds per square inch) in the seated condition and 2,088 pounds per square foot (14.5 pounds per square inch) in the unseated condition (rebound response).

Maurice E Farr
Professional Engineer
23811 105th Street Court East
Buckley, WA 98321-8410

March 30, 2015

To Whom it may concern:

American Safe Room blast doors, single leaf series, ASR-50-BD with up to 39 inch span distance, side to side are certified to withstand a force of 50 PSI in the seated direction and 14.5 PSI in the unseated direction.

Reference drawings:

1. ASR-DD-2: 50 PSI blast load in the seated direction
2. ASR-1.2A: rebound load on cam latch assembly
3. 6033-41: cam latch detail

Drawings were prepared under my direct supervision.

Maurice E Farr, P.E.

Maurice E Farr, PE



Expires 6-15-2016

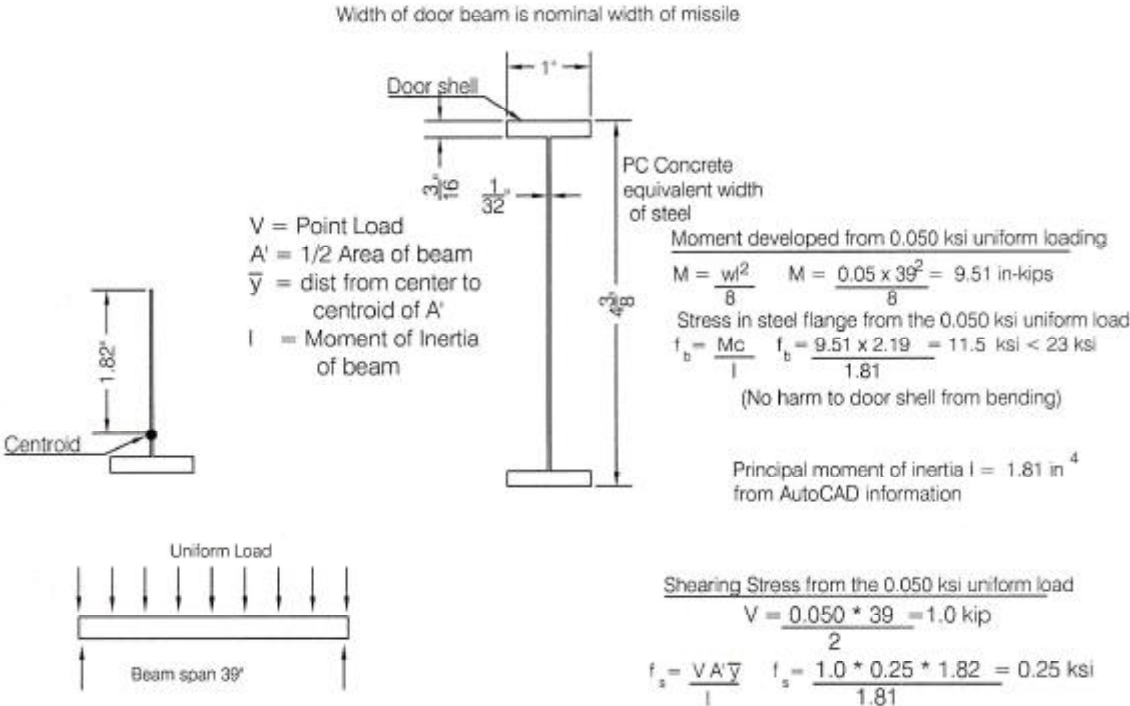
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Blast load calculations - page 2 of 4

The composite door leaf is being considered as a steel beam with 1" flanges and a concrete equivalent width of steel (1/32").

39" Span, 4-3/8" Depth, 3/16" Skin
 Single Leaf Door

Supported Uniform Load



Maurice E Farr, PE



Expires 6-15-2016

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Door leaf span - page 3 of 4

This certification is for doors with a span distance of up to a 39 inches.

