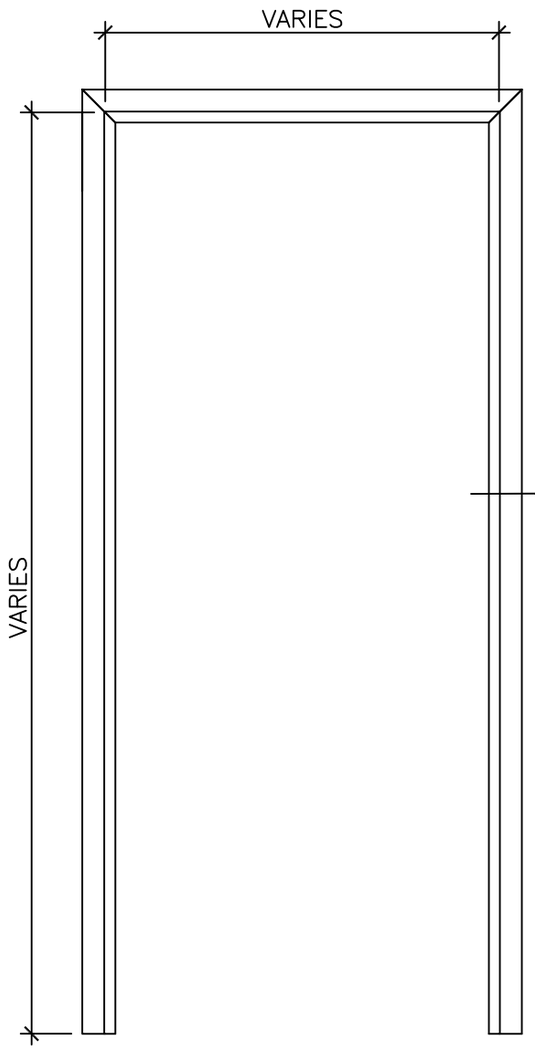


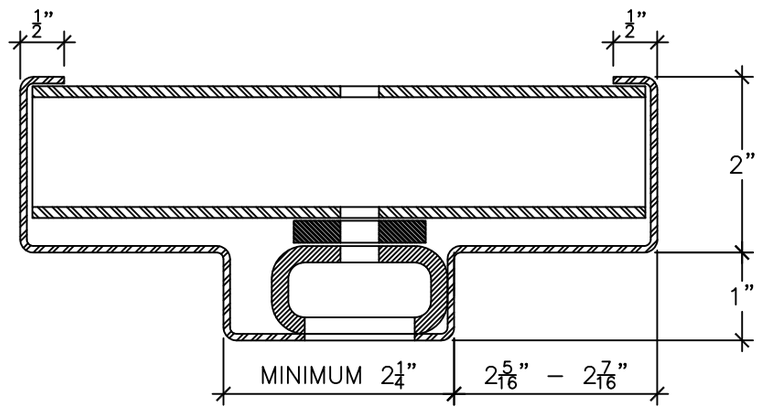
ELEVATION
3/4" = 1'-0"

APPLICATIONS:

- PETROCHEMICAL
- LOW TO MEDIUM DOOR RESPONSE

STANDARDS AND ANALYSIS METHOD:

- ASTM F2927 STANDARD TEST METHOD FOR DOOR SYSTEMS SUBJECT TO AIRBLAST LOADINGS.
- ASCE'S DESIGN OF BLAST-RESISTANT BUILDINGS IN PETROCHEMICAL FACILITIES, 2010.
- FRAME DESIGN BASED ON AN ANALYTICAL METHODOLOGY.



DETAIL "A"
8" = 1'-0"

TYPICAL BENCHMARKS FOR SEATED OPENINGS*				
DOOR SIZE	MAXIMUM OVERPRESSURE (psi)	MAXIMUM PEAK REFLECTED PRESSURE (psi)	DURATION (msec)	IMPULSE (psi-msec)
3' x 7' SINGLE	8	19.20	200	800
3'-6" x 7' SINGLE	5	11.25	200	500
4' x 8' SINGLE	5	11.25	200	500
6' x 7' ACTIVE/INACTIVE PAIR	8	19.20	200	800

*NOTE:

- BLAST RESISTANCE IS A FUNCTION OF MULTIPLE VARIABLES. PLEASE CONSULT AMBICO FOR DETERMINATION OF A SUITABLE BLAST DOOR FOR YOUR APPLICATION.
- APPROPRIATE HINGES & LATCHING HARDWARE IS SELECTED AND SUPPLIED BY AMBICO TO RESIST TRUE REBOUND FORCES.
- BLAST DOOR OPENINGS CAN REQUIRE LARGE JAMB DEPTHS. PLEASE CONSULT FACTORY TO ENSURE DESIGN CAN ACCOMMODATE THE WALL THICKNESS.
- PLEASE PROVIDE WALL DETAILS TO AMBICO FOR DETERMINATION OF APPROPRIATE ANCHOR SIZE, TYPE & QTY.

AMBICO
SPECIALIZED DOORS · FRAMES · WINDOWS

DRAWING TITLE:

TYPICAL BLAST RESISTANT STEEL FRAME FOR PETROCHEMICAL AND INDUSTRIAL APPLICATIONS

DATE:	2021/01/25
DRAWN BY:	ASC
REVISION:	1