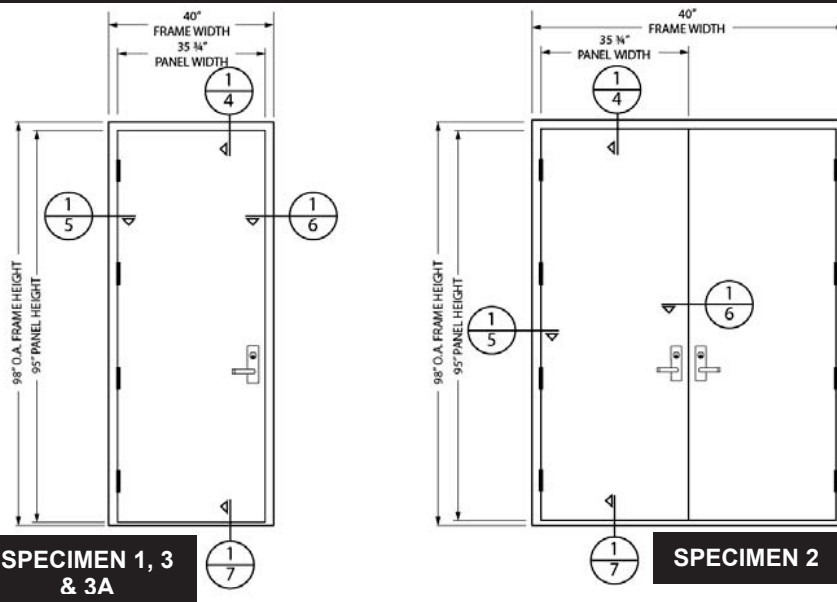




WS1400 Series Wind Storm/Shelter Door



OVERALL SIZE:

- SPECIMEN 1** – O.A. Width 40.0" x O.A. Height 98.0" (Inswing)
Securitech 5000 Series Multi-point mortise Lock
- SPECIMEN 2** – O.A. Width 76.0" x O.A. Height 98.0" (Outswing)
Securitech 7000 Series Mortise Exit Device with Concealed Vertical Rod
Securitech 8000 Series Autobolt Exit Device with Surface Mounted Vertical Rods
- SPECIMEN 3** – O.A. Width 40.0" x O.A. Height 98.0" (Inswing)
Securitech 4300 Series Multi-point Dead Lock
- SPECIMEN 3A** – O.A. Width 40.0" x O.A. Height 98.0" (Outswing)
Securitech 4300 Series Multi-point Dead Lock

STRUCTURAL TESTS – ICC 500-2008 Sec. 806.3.1

Referenced Standard – ASTM E330-02

| SPECIMEN | RANGE | TIME | LOAD | LOCATION | DEFLECTION | SET |
|----------|--|------|--------|----------|------------|--------|
| 1 | Alternate Static Load (See Note #1) | 10 | 300.00 | 1 | 0.051" | 0.018" |
| | | | | 2 | 0.289" | 0.073" |
| 2 | Alternate Static Load (See Note #2) | 10 | 300.00 | 1 | 0.442" | 0.025" |
| | | | | 2 | 0.410" | 0.030" |
| | | | | 3 | 0.133" | 0.022" |
| 3 | Alternate Static Load (See Note #3) | 10 | 300.00 | 1 | 0.082" | 0.027" |
| | | | | 2 | 0.272" | 0.065" |

NOTE #1: Set and Deflection measurements taken at the following locations:
1.) Center point between mortise lock body and top bolt
2.) Hollow Metal Frame at point of engagement at Mortise Lock.

NOTE #2: Set and Deflection measurements taken at the following locations:
1.) Center point of left door panel lock side.
2.) Center point of right door panel lock side.
3.) Hollow Metal Frame at center point hinge jamb.

NOTE #3: Set and Deflection measurements taken at the following locations:
1.) Center point between Dead lock body and top bolt
2.) Hollow Metal Frame at point of engagement at Dead Lock.

IMPACT TESTS – ICC 500-2008 Sec. 305.1

Referenced Standard – ASTM E1886-05/E1996-09

| SPECIMEN | Cond. Temp of Specimen (for 2 hours prior to testing) | Missile Weight & Grade | Missile Length | Muzzle Distance From Specimen |
|--------------|---|------------------------------|----------------|-------------------------------|
| 1, 2, 3 & 3A | 72.3°F | 15lbs, 2 oz, 2 x 4 #2 SPF | 13' 3" | 19' 10" |

| SPECIMEN | Impact Location | Results | X-Measurement | Y-Measurement | Speed | Permanent Deformation |
|----------|-----------------|---------|---------------|---------------|-----------|-----------------------|
| 1 | 1 | Pass | 33.00" | 54.00" | 100.0 mph | 0.768" |
| | 2 | Pass | 12.50" | 53.50" | 100.2 mph | 0.619" |
| | 3 | Pass | 8.50" | 10.50" | 100.1 mph | 0.592" |
| 2 | 1 | Pass | 30.00" | 54.25" | 100.1 mph | 0.615" |
| | 2 | Pass | 46.00" | 50.00" | 100.2 mph | 0.606" |
| | 3 | Pass | 8.00" | 53.50" | 100.1 mph | 0.912" |
| | 4 | Pass | 69.00" | 54.50" | 100.3 mph | 0.936" |
| | 5 | Pass | 47.00" | 10.25" | 100.1 mph | 0.510" |
| | 6 | Pass | 33.25" | 10.75" | 100.4 mph | 0.532" |
| 3 | 1 | Pass | 31.00" | 54.50" | 100.0 mph | 0.479" |
| | 2 | Pass | 13.00" | 52.50" | 100.2 mph | 0.430" |
| | 3 | Pass | 9.00" | 10.00" | 100.2 mph | 0.413" |
| 3A | 1 | Pass | 29.00" | 54.50" | 100.0 mph | 0.481" |
| | 2 | Pass | 8.00" | 60.00" | 100.2 mph | 0.559" |
| | 3 | Pass | 33.00" | 10.50" | 100.1 mph | 0.650" |

Orientation of Missile at Impact was with +/-5° of horizontal.
None of the impacts penetrated the specimens.
"X" measurement is from the left edge of test specimen.
"Y" measurement is from the bottom edge of test specimen.

4G Doors

31147 Plymouth Rd. Livonia, MI 48150 734-883-7468 sales@4gdoors.com www.4gdoors.com