

Original Date: October 27, 2008
Revised Date: December 14, 2010

Evaluation Report for Clopay Building Products Company Sectional Residential Garage Doors, W3 through W6

I have evaluated the wind load door designs as shown on the drawings listed below. I have reviewed the test reports, which were generated by accredited independent laboratories as required by 9B-72.070(4), the engineering rational analysis, and the product drawings. The test reports are listed below.

For the doors in Tables 1 through 21, the tests were conducted in accordance with ASTM-E330-2002 and ANSI/DASMA 108-2002/2005. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the door designs listed below in Tables 1 through 21 are in compliance with the test requirements of the 2007 Florida Building Code Section 1714.5.3.1.

TABLE 1: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1A171:

101655-Rev10, max. door size 9'0" x 16'0", ±20 PSF (design load)
101820-Rev11, max. door size 16'0" x 16'0", +20/-21 PSF (design load)
101595-B-Rev11, max. door size 16'0" x 16'0", ±30 PSF (design load)
102185-B-Rev10, max. door size 16'0" x 16'0", ±32 PSF (design load)

TABLE 2: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F153:

101308-Rev11, max. door size 16'0" x 16'0", +20/-21 PSF (design load)
101711-Rev13, max. door size 16'0" x 16'0", +24/-24.5 PSF (design load)
101312-Rev12, max. door size 18'0" x 16'0", ±25 PSF (design load)
101593-B-Rev13, max. door size 16'0" x 16'0", ±30 PSF (design load)
101922-B-Rev10, max. door size 16'0" x 16'0", ±32 PSF (design load)
101348-B-Rev14, max. door size 9'0" x 16'0", +38/-42 PSF (design load)
101539-B-Rev12, max. door size 16'2" x 16'0", +37/-41 PSF (design load)
101485-B-Rev13, max. door size 18'2" x 16'0", ±37 PSF (design load)

TABLE 3: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1A471:

103952-Rev00, max. door size 9'0" x 16'0", +20/-21 PSF (design load)
104028-Rev00, max. door size 16'0" x 16'0", +20/-21 PSF (design load)
103971-Rev01, max. door size 16'0" x 16'0", +30/-32 PSF (design load)
104004-Rev00, max. door size 16'0" x 16'0", ±30 PSF (design load)

TABLE 4: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F151:

300159-Rev14, max. door size 9'0" x 16'0", +25/-32 PSF (design load)
102110-B-Rev16, max. door size 9'0" x 16'0", +30/-32 PSF (design load)

TABLE 5: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F455:
Drawings in Table 5 discontinued; models added to drawings in Tables 2 and 4.



TABLE 6: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F441:
103486-Rev06, max. door size 9'0" x 16'0", +25/-32 PSF (design load)
103487-Rev05, max. door size 9'0" x 16'0", +30/-32 PSF (design load)

TABLE 7: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F443:
103454-Rev04, max. door size 16'0" x 16'0", ±25 PSF (design load)
103498-Rev03, max. door size 18'0" x 16'0", ±25 PSF (design load)
103471-Rev04, max. door size 16'0" x 16'0", ±30 PSF (design load)
103488-B-Rev05, max. door size 9'0" x 16'0", ±37 PSF (design load)
103489-B-Rev05, max. door size 16'2" x 16'0", +37/-41 PSF (design load)
103406-B-Rev05, max. door size 18'2" x 16'0", +37/-39 PSF (design load)

TABLE 8: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F446:
103454-Rev04, max. door size 16'0" x 16'0", ±25 PSF (design load)
103498-Rev03, max. door size 18'0" x 16'0", ±25 PSF (design load)
103471-Rev04, max. door size 16'0" x 16'0", ±30 PSF (design load)
103488-B-Rev05, max. door size 9'0" x 16'0", ±37 PSF (design load)
103489-B-Rev05, max. door size 16'2" x 16'0", +37/-41 PSF (design load)
103406-B-Rev05, max. door size 18'2" x 16'0", +37/-39 PSF (design load)

TABLE 9: Drawings for doors with Manufacturing Product Code (MPC) SPO-2F449:
103549-Rev05, max. door size 9'0" x 16'0", +25/-32 PSF (design load)
103550-Rev05, max. door size 16'0" x 16'0", +24/-24.5 PSF (design load)
103551-Rev04, max. door size 18'0" x 16'0", ±25 PSF (design load)
103552-Rev04, max. door size 9'0" x 16'0", +30/-32 PSF (design load)
103553-Rev05, max. door size 16'0" x 16'0", ±30 PSF (design load)
103554-B-Rev05, max. door size 9'0" x 16'0", ±37 PSF (design load)
103555-B-Rev04, max. door size 16'2" x 16'0", ±37 PSF (design load)

TABLE 10: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F471:
103969-Rev00, max. door size 9'0" x 16'0", +28/-29 PSF (design load)
104029-Rev01, max. door size 16'0" x 16'0", ±25.5 PSF (design load)
104017-Rev00, max. door size 18'0" x 16'0", ±25 PSF (design load)
104030-Rev00, max. door size 16'0" x 16'0", ±30 PSF (design load)
103954-B-Rev02, max. door size 9'0" x 16'0", +38/-42 PSF (design load)
104009-B-Rev01, max. door size 16'2" x 16'0", +37/-41 PSF (design load)

TABLE 11: Drawings for doors with Manufacturing Product Code (MPC) DSIEO-1F479:
103046-Rev06, max. door size 16'0" x 16'0", ±25 PSF (design load)
102996-Rev05, max. door size 9'0" x 16'0", +33/-37 PSF (design load)
102997-Rev06, max. door size 16'0" x 16'0", ±30 PSF (design load)

TABLE 12: Drawings for doors with Manufacturing Product Code (MPC) PANSP-2F151:
103556-B-Rev05, max. door size 9'0" x 16'0", +32/-37 PSF (design load)

TABLE 13: Drawings for doors with Manufacturing Product Code (MPC) PANSP-2F153:
103723-B-Rev07, max. door size 16'0" x 16'0", +32/-37 PSF (design load)

TABLE 14: Drawings for doors with Manufacturing Product Code (MPC) PANSP-2F156:
103723-B-Rev07, max. door size 16'0" x 16'0", +32/-37 PSF (design load)

TABLE 15: Drawings for doors with Manufacturing Product Code (MPC) DSIEO-1M479:
103710-Rev01, max. door size 16'0" x 16'0", +30/-30 PSF (design load)
103223-B-Rev10 max. door size 9'0" x 16'0", +38/-42 PSF (design load)



TABLE 16: Drawings for doors with Manufacturing Product Code (MPC) AL-1F499:
103445-Rev03, max. door size 12'2" x 16'0", ±32 PSF (design load)
103447-Rev03, max. door size 16'2" x 16'0", ±30 PSF (design load)
103446-Rev03, max. door size 16'2" x 16'0", ±32 PSF (design load)
103448-Rev04, max. door size 20'2" x 16'0", ±30 PSF (design load)

TABLE 17: Drawings for doors with Manufacturing Product Code (MPC) W-1B899:
102466-Rev05, max. door size 9'0" x 8'0", +32/-36 PSF (design load)
102536-Rev05, max. door size 16'0" x 8'0", +30/-33.5 PSF (design load)

TABLE 18: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F143:
101922-B-Rev10, max. door size 16'0" x 16'0", +34/-35 PSF (design load)
101485-B-Rev13, max. door size 18'2" x 16'0", +37/-39 PSF (design load)

TABLE 19: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F171:
101526-B-Rev14, max. door size 9'0" x 16'0", +37/-40 PSF (design load)
101486-B-Rev14, max. door size 16'2" x 16'0", +37/-40 PSF (design load)
101487-B-Rev14, max. door size 18'2" x 16'0", ±37 PSF (design load)

TABLE 20: Drawings for doors with Manufacturing Product Code (MPC) W-1G899:
102833-Rev03, max. door size 9'0" x 8'0", +39/-45 PSF (design load)

TABLE 21: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F156:
101593-B-Rev13, max. door size 16'0" x 16'0", ±30 PSF (design load)

For the doors listed in Tables 22 through 35, Static Pressure Tests were conducted in accordance with ASTM-E330-2002 and ANSI/DASMA 108-2002/2005 and/or TAS 202. Missile Impact and Cyclic Pressure Tests were conducted in accordance with ANSI/DASMA 115-2002/2005 and/or TAS 201 and TAS 203. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the door designs listed below in Tables 22 through 35 are in compliance with the High Velocity Hurricane Zone test requirements of the 2007 Florida Building Code Sections 1714.5.3.1, 1625 and 1626 and therefore are qualified as impact-resistant assemblies.

TABLE 22: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F153:
101348-A-Rev14, max. door size 9'0" x 16'0", +38/-42 PSF (design load)
101539-A-Rev12, max. door size 16'2" x 16'0", +37/-41 PSF (design load)
101485-A-Rev13, max. door size 18'2" x 16'0", ±37 PSF (design load)

TABLE 23: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F143:
101485-A-Rev13, max. door size 18'2" x 16'0", +37/-39 PSF (design load)
101922-A-Rev10, max. door size 16'0" x 16'0", +34/-35 PSF (design load)

TABLE 24: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F455:
Drawings in Table 23 discontinued; models added to drawings in Table 21.

TABLE 25: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F443:
103488-A-Rev05, max. door size 9'0" x 16'0", ±37 PSF (design load)
103489-A-Rev05, max. door size 16'2" x 16'0", +37/-41 PSF (design load)
103406-A-Rev05, max. door size 18'2" x 16'0", +37/-39 PSF (design load)



TABLE 26: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F446:
103488-A-Rev05, max. door size 9'0" x 16'0", ±37 PSF (design load)
103489-A-Rev05, max. door size 16'2" x 16'0", +37/-41 PSF (design load)
103406-A-Rev05, max. door size 18'2" x 7'0", +37/-39 PSF (design load)

TABLE 27: Drawings for doors with Manufacturing Product Code (MPC) SPO-2F499:
103554-A-Rev05, max. door size 9'0" x 16'0", ±37 PSF (design load)
103555-A-Rev04, max. door size 16'2" x 16'0", ±37 PSF (design load)

TABLE 28: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F171:
101526-A-Rev14, max. door size 9'0" x 16'0", +37/-40 PSF (design load)
101486-A-Rev14, max. door size 16'2" x 16'0", +37/-40 PSF (design load)
101487-A-Rev14, max. door size 18'2" x 16'0", ±37 PSF (design load)

TABLE 29: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F471:
103954-A-Rev02, max. door size 9'0" x 16'0", +38/-42 PSF (design load)
104009-A-Rev01, max. door size 16'2" x 16'0", +37/-40 PSF (design load)
104013-Rev01, max. door size 18'2" x 16'0", ±37 PSF (design load)

TABLE 30: Drawings for doors with Manufacturing Product Code (MPC) DSIEO-1M479:
103223-A-Rev10, max. door size 9'0" x 16'0", +38/-42 PSF (design load)
103243-Rev09, max. door size 16'2" x 16'0", +37/-40 PSF (design load)
103519-Rev03, max. door size 18'2" x 16'0", ±37 PSF (design load)

TABLE 31: Drawings for doors with Manufacturing Product Code (MPC) PANSP-2F151:
103556-A-Rev05, max. door size 9'0" x 16'0", +32/-37 PSF (design load)

TABLE 32: Drawings for doors with Manufacturing Product Code (MPC) PANSP-2F153:
103723-A-Rev07, max. door size 16'0" x 16'0", +32/-37 PSF (design load)

TABLE 33: Drawings for doors with Manufacturing Product Code (MPC) PANSP-2F156:
103723-A-Rev07, max. door size 16'0" x 16'0", +32/-37 PSF (design load)

TABLE 34: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F151:
102110-A-Rev16, max. door size 9'0" x 16'0", +30/-32 PSF (design load)
101593-A-Rev13, max. door size 16'0" x 16'0", ±30 PSF (design load)
101922-A-Rev10, max. door size 16'0" x 16'0", ±32 PSF (design load)

TABLE 35: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1A171:
101595-A-Rev11, max. door size 16'0" x 16'0", ±30 PSF (design load)
102185-A-Rev10, max. door size 16'0" x 16'0", ±32 PSF (design load)

Test Reports:

ITR-357, 325, 345C, 360, 325, 330A/330B, 319C, 273C, 265C, 277, 273C/312, 319C/312, 277/312, 363, 324B, 372, 315B, 342B, 321C, 323, 329, 317, 274, 272B, 274/312, 272B/312, 326, 327, 364, 369C, 312, 306, 332, 312, 243, 346, 279, 396B, 415, 350, 341B/341C, 333, 353, 352, 276, 453, 353, 276/312, 275C/269C, 356, 334, 365, 361, 370, 371C, 238B, 309, 269C, 414, 458; ATL 1112.01-96, 0512.01-08, 0521.01-08, 0924.01-07, 0128.01-08, 0606.01-05, 1106.01-07, 0429.01-10, 0427.01-10, 0517.01-10, 0505.01-10, 0824.01-10.

Product Description for doors with MPC DSIE-1A171:

These doors consist of 1-3/8" double-skin insulated sections with an EPS core laminated to both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 21". The following models are at least structurally equivalent to the tested door: 2050, 2051, 2053, 4050, 4051, 4053, 62, 64, 65, 62G, 64G, 65G, DP38, FL38, RP38, 134, 135, 136, 6130, 6131, 6133.

Product Description for doors with MPC PAN-2F153:

These doors consist of 2" thick steel pan sections with min. 25 ga. (0.019") skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 73, 75, 6RST, 42, 42B, 84A, 94, 98, 4RST, 4F, 48, 48B, 1500, 190, 55, 55S, GD5S, GD5SV, GR5S, GR5SV, AR5S, AR5SV, ED5S, ED5SV.

Product Description for doors with MPC DSIE-1A471:

These doors consist of 1-3/8" double-skin insulated sections with an EPS core laminated to both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: GD1SP, GR1SP, GD1LP, GR1LP, AR1SP, AR1LP, ED1SP, ED1LP.

Product Description for doors with MPC PAN-2F151:

These doors consist of 2" thick steel pan doors with min. 25 ga. (0.019") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". The sections may have EPS foam insulation inserted in the pan cavity. These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 84A, 94, 73, 75, 1500, 190, 76, 76V, 4RST, 4RSF, 6RST, 6RSF, 2RST, 48, 48B, 42, 42B, 55, 55S, GD5S, GD5SV, GD5L, GD5LV, GR5S, GR5SV, GR5L, GR5LV, AR5S, AR5SV, AR5L, AR5LV, ED5S, ED5SV, ED5L, ED5LV.

Product Description for doors with MPC PAN-2F455:

These doors consist of 2" thick steel pan doors with min. 25 ga. (0.019") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 24". The sections may have EPS foam insulation inserted into the pan cavity. The following models are at least structurally equivalent to the tested door: G5S, GS5, G5SV, GS5V, E5S, E5SV, SS5, SS5V, GD5S, GR5S, GD5SV, GR5SV, ED5S, MR5S, ED5SV, MR5SV, AR5S, AR5SV.

Product Description for doors with MPC PAN-2F441:

These doors consist of 2" thick steel pan doors with min. 24 ga. (0.022") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 24". The sections may have EPS foam insulation inserted into the pan cavity. The following models are at least structurally equivalent to the tested door: G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV,

GR4LV, E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV, SS4, SL4, AR4S, AR4L, SS4V, SL4V, AR4SV, AR4LV.

Product Description for doors with MPC PAN-2F443:

These doors consist of 2" thick steel pan doors with min. 24 ga. (0.022") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 24". The sections may have EPS foam insulation inserted into the pan cavity. The following models are at least structurally equivalent to the tested door: G4S, GS4, GD4S, GR4S, G4SV, GS4V, GD4SV, GR4SV, E4S, ED4S, E4SV, ED4SV, SS4, AR4S, SS4V, AR4SV.

Product Description for doors with MPC PAN-2F446:

These doors consist of 2" thick steel pan doors with min. 24 ga. (0.022") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 24". The sections may have EPS foam insulation inserted into the pan cavity. The following models are at least structurally equivalent to the tested door: G4L, GL4, GD4L, GR4L, G4LV, GL4V, GD4LV, GR4LV, E4L, ED4L, E4LV, ED4LV, SL4, AR4L, SL4V, AR4LV.

Product Description for doors with MPC SPO-2F449:

These doors consist of 2" steel pan sections with 1/2" decorative overlays. The steel skin is min. 24 ga. (0.022") G40 DDS per ASTM A653. Sections may have 1-5/16" insulation captured in the cavity of the pan section. The maximum section height is 24". The following models are at least structurally equivalent to the evaluated door: Grand Harbor Collection (GHnn, GHRnn, GHRVnn) and Stone Manor Collection (SMnn, MGnn, SPnn, SPVnn). Note that 'nn' is a two-digit code representing the design of the decorative overlays.

Product Description for doors with MPC DSIE-1F471:

These doors consist of 2" double-skin insulated sections with an EPS core laminated to both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: GD2SP, GR2SP, GD2LP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP.

Product Description for doors with MPC DSIEO-1F479:

These doors consist of a base 1-3/8" double-skin insulated section with an EPS core laminated to both skins. Decorative overlays are attached to the exterior skin, adding not more than 5/8" to the total thickness. Both inner and outer skins are min. 27 ga. (0.016") G40 CS Type B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: Cnn, HCnn, CDnn, CFnn, SFnn, ADnn. Note that 'nn' represents the arrangement of the decorative overlays. The first digit will have a value from 1 to 3 and the second digit will have a value from 1 to 5.

Product Description for doors with MPC PANSP-2F151:

These doors consist of 2" thick steel pan sections with min. 25 ga. (0.019") skins. The steel skin is at least G40 DDS per ASTM A653. Sections may have 1-5/16" insulation captured in the cavity of the pan section. The maximum section height is

21". These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 73SP, 15SP, 76SP, 76VSP.

Product Description for doors with MPC PANSP-2F153:

These doors consist of 2" thick steel pan sections with min. 25 ga. (0.019") skins. The steel skin is at least G40 DDS per ASTM A653. Sections may have 1-5/16" insulation captured in the cavity of the pan section. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 73SP, 15SP.

Product Description for doors with MPC PANSP-2F156:

These doors consist of 2" thick steel pan sections with min. 25 ga. (0.019") skins. The steel skin is at least G40 DDS per ASTM A653. Sections may have 1-5/16" insulation captured in the cavity of the pan section. The maximum section height is 21". The following models are at least structurally equivalent to the tested door: 76SP, 76VSP.

Product Description for doors with MPC DSIEO-1M479:

These doors consist of a base 2" double-skin insulated section with an EPS core laminated to both skins. Decorative overlays are attached to the exterior skin, adding not more than 5/8" to the total thickness. Both inner and outer skins are min. 27 ga. (0.016") G40 CS Type B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: CGnn, CPnn, HPnn, CXnn, SXnn, AGnn. Note that 'nn' represents the arrangement of the decorative overlays.

Product Description for doors with MPC AL-1F499:

These doors consist of a 2" aluminum frame section with glazed or solid panels. Approved glazing options are at least structurally equivalent to Tempered DSB. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: AV, AVI.

Product Description for doors with MPC W-1B899:

These doors consist of a base 1-9/16" wood frame section with wood panels and laminated backer panel. The maximum section height is 28". The following models are at least structurally equivalent to the tested door: RHnn, RCnn, RRnn. Note that 'nn' represents the design and material of the panel. Only RHnn doors are offered over 9'0" W.

Product Description for doors with MPC PAN-2F143:

These doors consist of 2" thick steel pan sections with min. 24 ga. (0.022") skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 84A, 94, 98, 4RST, 4RSF, 4F, 48, 48B.



Product Description for doors with MPC DSIE-1F171:

These doors consist of 2" double-skin insulated sections with an EPS foam core laminated to both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 4300, 4301, 4310, 4400, 4401, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, 68G, SP200, SF200, SE200, 6200, 6201, 6203.

Product Description for doors with MPC W-1G899:

These doors consist of a base 2-3/16" wood laminated section with decorative stile overlays where the face and interior panels are laminated to EPS foam insulation in an internal hemlock frame. The maximum section height is 28". The following models are at least structurally equivalent to the tested door: CRDnnn, CR800. Note that 'nnn' represents the design and material of the panel and door.

Product Description for doors with MPC PAN-2F156:

These doors consist of 2" thick steel pan sections with min. 25 ga. (0.019") skins. The steel skin is at least G40 DDS per ASTM A653. Sections may have 1-5/16" insulation captured in the cavity of the pan section. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 76, 76V, 2RST.

Limitations:

The drawing(s) cited above are an explicit part of this evaluation report. The text of this report does not attempt to address all design details and relies on the illustrations and text of these drawings as well.

Jams, lintels, sills or other structural elements required to prepare openings are not covered. The design of the supporting structural elements shall be the responsibility of the professional of record for the building or structure and in accordance with current building codes for the loads listed on the drawing(s) referenced above.

Installation requirements per 9B-72.070(4)(e), including attachments, are detailed on the drawing(s) listed above. Installation must be in accordance with manufacturer's installation instructions and must be as shown on the drawing(s) listed above. The manufacturer's licensed design professional listed on the drawing(s) has reviewed the attachment details and installation requirements.

Signature:

Scott Hamilton, P. E.
Florida P. E. No. 63286

Date: 12/14/10