

Test Results

Hinged Patio Doors Inswing - AAMA Test Results (Full Lite Panel)

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard	F.B.C. & T.D.I. Approval No.
3068, 30611, L/R	DP 40	+82.5/-90	6.0	0.03	HGD-R40 141"x83"	FL12624.1 (v. 2007)
6068, 60611, LP/PR	DP 40	+82.5/-90	6.0	0.03		FL6715.1 (v. 2007)
6068, 60611, SL/RS	DP 40	+82.5/-90	6.0	0.03		DR-163
120611, SLPS/SPRS	DP 40	+82.5/-90	6.0	0.03		DR-165
3080, L/R	DP 40	+97.5/-112.5	6.0	0.03	HGD-R40 141"x96"	FL12624.1 (v. 2007)
6080, LP/PR	DP 40	+97.5/-112.5	6.0	0.03		FL6715.1 (v. 2007)
6080, SL/RS	DP 40	+97.5/-112.5	6.0	0.03		DR-162
12080, SLPS/SPRS	DP 40	+97.5/-112.5	6.0	0.03		DR-165

Inswing - AAMA Test Results (3/4 Lite Panel)

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard	Certification
9080, SLP	DP 25	+75/-75	3.75	0.01	HGD-R25	Approval Pending

Outswing - AAMA Test Results (Full Lite Panel)

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard	F.B.C. & T.D.I. Approval No.
3068, 30611, L/R	DP 65	+97.5/-97.5	9.75	0.03	HGD-R65 141"x83"	FL12624.2 (v. 2007) FL6716.1 (v. 2007) DR-160 DR-161 DR-164
6068, 60611, LP/PR	DP 65	+97.5/-97.5	9.75	0.03		
6068, 60611, SL/RS	DP 65	+97.5/-97.5	9.75	0.03		
120611, SLPS/SPRS	DP 65	+97.5/-97.5	9.75	0.03		
3080, L/R	DP 65	+97.5/-97.5	9.75	0.03		
6080, LP/PR	DP 65	+97.5/-97.5	9.75	0.03		
6080, SL/RS	DP 65	+97.5/-97.5	9.75	0.03		
12080, SLPS/SPRS	DP 65	+97.5/-97.5	9.75	0.03		

Outswing - AAMA Test Results (3/4 Lite Panel)

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard	Certification
9080, SLP	DP 50	+75/-75	7.50	0.01	HGD-R50	FL 12622.1

Energy Performance Rating (Full Lite Panel)

Product Description	U-Factor (BTU/hrft ² °F)	Solar Heat Gain Coefficient	Visible Light Transmittance
2 / SS / 0.042 / ARG / 0.444 / N	0.29	0.24	0.40
2 / SS / 0.042 / ARG / 0.444 / G	0.29	0.21	0.34
2 / SS / 0.042 / ARG / 0.567 / N	0.28	0.26	0.39
2 / SS / 0.042 / ARG / 0.567 / G	0.28	0.23	0.33



Vented Sidelight

AAMA Test Results

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard
80611, LLPR	DP 30	+30.0/-30.0	4.5	0.02	HGD-LC30 94"x83"

Energy Performance Rating

Product Description	U-Factor (BTU/hrft ² °F)	Solar Heat Gain Coefficient	Visible Light Transmittance
2 / SS / 0.042 / ARG / 0.444 / N	0.29	0.24	0.40
2 / SS / 0.042 / ARG / 0.444 / G	0.29	0.21	0.34
2 / SS / 0.042 / ARG / 0.567 / N	0.28	0.26	0.39
2 / SS / 0.042 / ARG / 0.567 / G	0.28	0.23	0.33

**For Florida Building Code Approval, please see http://www.floridabuilding.org/pr/pr_app_srch.aspx. For Texas Department of Insurance Approval, see <http://www.tdi.state.tx.us/wind/prod/indexdr.html>. For Dade County Approval, see http://www.co.miami-dade.fl.us/buildingcode/pc-search_app.asp.

Product Description:
glazing layers / spacer type / low-e emissivity (surface) / gap fill / gap width / grilles

SS = stainless steel
ARG = argon
N = no grille
G = with grille

Test Results

Hinged & Gliding Doors - Impact Rated

Hinged Patio Doors - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard		Certification
Inswing/Outswing SLPS (OXXO)	12'1" x 8'0"	DP 50	+75/-75	AMMA 506-2000	ASTM E1886-04 ASTM E1996-03	DR-165 DR-267
Inswing/Outswing SLPS (OXXO)	12'1" x 6'11"	DP 50	+75/-75	AMMA 506-2000	ASTM E1886-04 ASTM E1996-03	DR-165 DR-267
Inswing/Outswing SL/RS (OX/XO)	6'1" x 6'11"	DP 50	+75/-75	AMMA 506-2000	ASTM E1886-04 ASTM E1996-03	DR-165 DR-267
Inswing LPR (XXX) Outswing SLP (OXX)	9'1" x 8'0"	DP 50	+75/-75	TAS 201-94 TAS 202-94 TAS 203-94	ASTM E1886-02 ASTM E1996-02	Dade County N.O.A. 06-0411.05 Expiration Date: Aug 31, 2011 DR-164 Dade County N.O.A. 06-0411.04 Expiration Date: Aug 17, 2011
Outswing SLPL (OXXX)	12'1" x 8'0"	DP 70	+105/-105	TAS 201-94 TAS 202-94 TAS 203-94		FL12639 (v. 2007) FL12641 (v. 2007) Dade County N.O.A. 08-1118.08 Expiration Date: April 29, 2014 Dade County N.O.A. 08-1118.09 Expiration Date: April 20, 2014
Outswing SLP (OXX)	9'1" x 6'11"	DP 70	+105/-105	TAS 201-94, TAS 202-94, TAS 203-94		Approval Pending

3/4 Lite Panel - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard	Certification
Inswing SLP (OXX)	8'10" x 8'0"	DP 50	+75/-75	ASTM E1886-05; ASTM E1996-05	Approval Pending
Outswing SLP (OXX)	8'10" x 8'0"	DP 50	+75/-75	ASTM E1886-05; ASTM E1996-05	FL12622.2

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Gliding Patio Doors - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard	Certification
SRS (OXO)	12'0"x8'0"	DP 50	+75/-75	TAS 201-94 TAS 202-94 TAS 203-94	Dade County N.O.A. 05-0921.10 Expiration Date: Aug. 03, 2011
SRS (OXO)	12'0"x8'0"	DP 50	+75/-75	ASTM E1886-04 ASTM E1996-04	DR-166
SPLS (OXXO)	12'0"x8'0"	DP 50	+75/-75	TAS 201-94 TAS 202-94 TAS 203-94	ASTM E1886-02 ASTM E1996-02 FL12623.1 Dade County N.O.A. 08-0416.04 Expiration Date: Sep. 18, 2013

Transom Test Results - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard	Certification
GTI 6020, GTO 6020, GTG 6020	6'2" x 2'0"	DP 80	+120/-120	TAS 201-94 TAS 202-94 TAS 203-94	FL13084.1 FL13084.2
GTI 12020, GTO 12020, GTG 12020 (with mullion)	12'1" x 2'3"	DP 80	+120/-120	TAS 201-94 TAS 202-94 TAS 203-94	Dade County N.O.A. 09-0305.03 09-0305.04 Expiration Date: July 15, 2014



Sound Transmission Class - Hinged

Product specification	STC	OITC
6068, LP Inswing (1" Laminated Glass)	34	30
6068, LP Inswing (1" Special Glass)	35	31
6068, LP Outswing (1" Laminated Glass)	34	30
6068, LP Outswing (1" Special Glass)	34	31

Sound Transmission Class - Gliding

Product specification	STC	OITC
6068, SR Gliding (1" Laminated Glass)	32	29
6068, SR Gliding (1" Special Glass)	33	30

Test Results

Gliding Patio Doors

AAMA Test Results

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard	F.B.C. & T.D.I. Approval No.
6068, 60611, LS/SR (XO/OX)	DP 50	+75/-75	7.5	0.26	SGD-R50 141"X83"	DR-134 FL10181.1 (v. 2007)
9068, 90611, SSR/LSS (OOX/XOO)	DP 50	+75/-75	7.5	0.26		
120611, SPLS (OXXO)	DP 50	+75/-75	7.5	0.26		
6080, LS/SR (XO/OX)	DP 50	+75/-75	7.5	0.18	SGD-R50 72"X96"	FL10181.1 (v. 2007)
9080, SSR/LSS (OOX/XOO)	DP 50	+75/-75	7.5	0.10	SGD-R50 141"X96"	
12080, SPLS (OXXO)	DP 50	+75/-75	7.5	0.10		
80611, 8080, LS/SR (XO/OX)	DP 50	+75/-75	7.5	0.23	SGD-C50	
12080, SRR/LSS (OOX/XOO)	DP 50	+75/-75	7.5	0.23	145"X96"	

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Energy Performance Rating

Product Description	U-Factor (BTU/hrft ² °F)	Solar Heat Gain Coefficient	Visible Light Transmittance
2 / SS / 0.042 / ARG / 0.444 / N	0.29	0.27	0.45
2 / SS / 0.042 / ARG / 0.444 / G	0.29	0.23	0.39
2 / SS / 0.042 / ARG / 0.567 / N	0.29	0.29	0.44
2 / SS / 0.042 / ARG / 0.567 / G	0.29	0.26	0.38



Product Description: 1. # glazing layers / spacer type / low-e emissivity (surface) / gap fil / gap width / grilles 2. SS = stainless steel, ARG = argon, N=no grille, G= with grille

Transom Test Results

AAMA Test Results

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard	Using	Certification
GTI 6020	DP 80	+120/-120	12.0	0.01	TR-LC80 71-1/4"X24"	Inswing	FL10185.1 (v. 2007)
GTI 12020 (with mullion)	DP 75	+120/-120	11.25	0.01	TR-R75 145-3/8"X24"	Outswing	
GTO 6020	DP 80	+120/-120	12.0	0.01	TR-LC80 71-1/4"X24"		
GTO 12020 (with mullion)	DP 75	+120/-120	11.25	0.01	TR-R75 145-3/8"X24"	Gliding	
GTG 6020	DP 80	+120/-120	12.0	0.01	TR-LC80 71-1/4"X24"		
GTG 12020 (with mullion)	DP 75	+120/-120	11.25	0.01	TR-R75 145-3/8"X24"		

Product Description:
1. # glazing layers / spacer type / low-e emissivity (surface) / gap fil / gap width / grilles
2. SS = stainless steel, ARG = argon, N=no grille, G= with grille

Neuma Classic Patio Doors

Energy Performance Rating

Product Description	U-Factor (BTU/hrft ² °F)	Solar Heat Gain Coefficient	Visible Light Transmittance
2/SS/0.042/ARG/0.444/N	0.31	0.24	0.40
2/SS/0.042/ARG/0.444/G	0.31	0.21	0.34
2/SS/0.042/ARG/0.567/N	0.31	0.26	0.39
2/SS/0.042/ARG/0.567/G	0.31	0.23	0.33

AAMA Test Results

Product specification	Design Pressure Rating	Performance Pressure (psf)	Water Resistance (psf)	Air Infiltration (scfm/ft ²)	AAMA 101 Standard	Certification
Double Hinged Inswing	DP35	+60.0/-75.0	5.25	0.18	HGD-R35 71-1/4"X82-1/2"	FL12890.1 FL12890.2
Double Hinged Outswing	DP30	+75.0/-45.0	7.5	0.03	HGD-R30 71-1/4"X82-1/2"	
Center Hinged Inswing	DP35	+75.0/-75.0	5.25	0.15	HGD-R35 71-1/4"X82-1/2"	
Center Hinged Outswing	DP50	+75.0/-75.0	7.5	0.02	HGD-R50 71-1/4"X82-1/2"	

Test Results

Hinged & Gliding Doors - Impact Rated

Hinged Patio Doors - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard		Certification
Inswing/Outswing SLPS (OXXO)	12'1" x 8'0"	DP 50	+75/-75	AMMA 506-2000	ASTM E1886-04 ASTM E1996-03	DR-165 DR-267
Inswing/Outswing SLPS (OXXO)	12'1" x 6'11"	DP 50	+75/-75	AMMA 506-2000	ASTM E1886-04 ASTM E1996-03	DR-165 DR-267
Inswing/Outswing SL/RS (OX/XO)	6'1" x 6'11"	DP 50	+75/-75	AMMA 506-2000	ASTM E1886-04 ASTM E1996-03	DR-165 DR-267
Inswing LPR (XXX) Outswing SLP (OXX)	9'1" x 8'0"	DP 50	+75/-75	TAS 201-94 TAS 202-94 TAS 203-94	ASTM E1886-02 ASTM E1996-02	Dade County N.O.A. 06-0411.05 Expiration Date: Aug 31, 2011 DR-164 Dade County N.O.A. 06-0411.04 Expiration Date: Aug 17, 2011
Outswing SLPL (OXXX)	12'1" x 8'0"	DP 70	+105/-105	TAS 201-94 TAS 202-94 TAS 203-94		FL12639 (v. 2007) FL12641 (v. 2007) Dade County N.O.A. 08-1118.08 Expiration Date: April 29, 2014 Dade County N.O.A. 08-1118.09 Expiration Date: April 20, 2014
Outswing SLP (OXX)	9'1" x 6'11"	DP 70	+105/-105	TAS 201-94, TAS 202-94, TAS 203-94		Approval Pending

3/4 Lite Panel - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard	Certification
Inswing SLP (OXX)	8'10" x 8'0"	DP 50	+75/-75	ASTM E1886-05; ASTM E1996-05	Approval Pending
Outswing SLP (OXX)	8'10" x 8'0"	DP 50	+75/-75	ASTM E1886-05; ASTM E1996-05	FL12622.2

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Gliding Patio Doors - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard		Certification
SRS (OXO)	12'0"x8'0"	DP 50	+75/-75	TAS 201-94 TAS 202-94 TAS 203-94		Dade County N.O.A. 05-0921.10 Expiration Date: Aug. 03, 2011
SRS (OXO)	12'0"x8'0"	DP 50	+75/-75	ASTM E1886-04 ASTM E1996-04		DR-166
SPLS (OXXO)	12'0"x8'0"	DP 50	+75/-75	TAS 201-94 TAS 202-94 TAS 203-94	ASTM E1886-02 ASTM E1996-02	FL12623.1 Dade County N.O.A. 08-0416.04 Expiration Date: Sep. 18, 2013

Transom Test Results - Impact & Cycle Testing Performance

Product specification	Max. Testing Dimension	D.P. Rating	Structure Performance (psf)	Test Standard	Certification
GTI 6020, GTO 6020, GTG 6020	6'2" x 2'0"	DP 80	+120/-120	TAS 201-94 TAS 202-94 TAS 203-94	FL13084.1 FL13084.2
GTI 12020, GTO 12020, GTG 12020 (with mullion)	12'1" x 2'3"	DP 80	+120/-120	TAS 201-94 TAS 202-94 TAS 203-94	Dade County N.O.A. 09-0305.03 09-0305.04 Expiration Date: July 15, 2014



Sound Transmission Class - Hinged

Product specification	STC	OITC
6068, LP Inswing (1" Laminated Glass)	34	30
6068, LP Inswing (1" Special Glass)	35	31
6068, LP Outswing (1" Laminated Glass)	34	30
6068, LP Outswing (1" Special Glass)	34	31

Sound Transmission Class - Gliding

Product specification	STC	OITC
6068, SR Gliding (1" Laminated Glass)	32	29
6068, SR Gliding (1" Special Glass)	33	30