

Structural Test Reports



Description / Type	Style	Grade	Size	Report	Expiration Date	Specimen #	Air Infiltration cfm/ft ²	Water Resistance psf	Structural Pressure psf	Glass	Reinforcement Frame	Sash	Glazing	Special Manufacturing Or Installation	Model Tested	AWA or Other	Comments
Windgate/Belmont																	
Double Hung		H-R 20	52 x 84	30507.02-701-47	03/25/08	1	0.14	6.00	30.0	3/4" DS	None	LKB	Wet	No	142.194	AWA	
		H-R 25	52 x 84	30507.02-701-47	03/25/08	2	-	-	37.5	3/4" DS	None	A	Wet	No	142.194	AWA	
		H-R 30	43 x 59	30507.02-701-47	03/25/08	3	-	-	45.0	3/4" SS	None	N	Wet	No	142.194	AWA	
		H-LC 30	44 x 77	52859.02-701-47	08/10/08	1	0.13	8.25	45.0	3/4" DS	None	A	Wet	No	142.194	AWA	
		H-R 35	44 x 77	52859.02-701-47	08/10/08	2	-	-	52.5	3/4" DS	None	A	Wet	No	142.194	AWA	
		H-R 35	40 x 72	52859.02-701-47	08/10/08	3	-	-	52.5	3/4" SS	None	A	Wet	No	142.194	AWA	
		H-R 40	40 x 72	52859.02-701-47	08/10/08	4	-	-	60.0	3/4" DS	None	A	Wet	No	142.194	AWA	
		H-R 40	43 x 59	30507.02-701-47	03/25/08	4	-	-	60.0	3/4" SS	None	LKB	Wet	No	142.194	AWA	
		H-R 50	36 x 72	52859.02-701-47	08/10/08	5	-	-	75.0	3/4" DS	None	A	Wet	TL's, Dam, Large Lower Sash	142.194	AWA	
		H-R 50	40 x 72	56267.02-201-47	08/01/09	1	0.07	7.50	75.0	3/4" DS	None	A	Wet	TL's, Dam, Large Lower Sash	142.194	AWA	
Single Hung		H-R 20	52 x 84	07-30479.03	02/18/08	1	0.12	5.25	30.0	3/4" SS	F	A	Wet	No	143.093	Earthwise	
		H-R 35	44 x 60	07-30479.03	02/18/08	2	-	-	60.0	3/4" SS	F	N	Wet	No	143.093	Earthwise	
		H-R 35	44 x 60	07-30479.03	02/18/08	3	-	-	67.5	3/4" SS	F	L	Wet	No	143.093	Earthwise	
		H-R 50	44 x 72	59605.02-701-47	07/14/09	1	0.09	7.50	75.0	3/4" DS	F	A	Wet	TL's, Dam, Sarge Lower Sash	142.194	AWA	
Single Slider	XOX	HS-R 20	120 x 60	54908.02-701-47	02/24/08	1	0.13	3.75	30.0	3/4" SS	F	L	Wet	No	143.093	Earthwise	
	XOX	HS-R 20	120 x 60	07-30480.03	02/24/08	1	0.13	3.75	30.0	3/4" SS	F	L	Wet	No	143.093	Earthwise	
	XOX	HS-R 20	120 x 60	54360.02-701-47	11/16/08	1	0.12	3.75	30.0	3/4" DS	F	L	Tape	No	142.094	AWA	
	XO	HS-R 35	72 x 48	54908.02-701-47	02/24/08	2	-	5.25	52.5	3/4" SS	F	L	Wet	No	143.093	Earthwise	
	XO	HS-R 35	72 x 48	54908.02-701-47	02/24/08	3	-	5.25	52.5	3/4" SS	F	N	Wet	No	143.093	Earthwise	
	XO	HS-R 35	72 x 48	07-30480.03	02/24/08	2	-	5.25	52.5	3/4" SS	F	L	Wet	No	143.093	Earthwise	
Two-Lite Slider (Windgate Only)	XX	HS-R 15	72 x 60	55194.02-701-47	01/07/09	1	0.20	4.50	22.5	3/4" SS	N	LK	Tape	No	142.094	AWA	
	XX	HS-R 15	72 x 48	55194.02-701-47	01/07/09	2	-	-	22.5	3/4" SS	N	N	Tape	No	142.094	AWA	
	XX	HS-R 25	72 x 48	55194.02-701-47	01/07/09	3	-	-	37.5	3/4" SS	N	LK	Tape	No	142.094	AWA	
Hawthorne																	
Double Hung		H-R 15	52 x 84	30483.02-701-47	03/22/08	1	0.08	6.00	22.5	3/4" SS	None	A	Tape	No	144.091	Earthwise	
		H-R 20	52 x 84	07-30482.02	03/08/08	1	0.12	6.00	30.0	3/4" SS	None	A	Tape	No	144.191	Earthwise	
		H-R 25	44 x 60	07-30482.02	03/08/08	2	-	-	37.5	3/4" SS	None	None	Tape	No	144.191	Earthwise	
		H-R 30	44 x 60	30483.02-701-47	03/22/08	2	-	-	45.0	3/4" SS	None	None	Tape	No	144.091	Earthwise	
		H-R 40	44 x 60	07-30482.02	03/08/08	3	-	-	67.5	3/4" SS	None	LKB	Tape	No	144.191	Earthwise	
		H-R 40	44 x 60	30483.02-701-47	03/22/08	3	-	-	60.0	3/4" SS	None	LKB	Tape	No	144.091	Earthwise	
Two-Lite Slider (Belmont Also)	XXX	HS-R 15	120 x 60	30481.02-701-47	03/03/08	1	0.12	3.75	22.5	3/4" SS	N	LK	Wet	No	144.093	Earthwise	
	XX	HS-R 15	72 x 48	30481.02-701-47	03/03/08	3	-	-	22.5	3/4" SS	N	LK	Wet	No	144.093	Earthwise	
	XX	HS-R 20	72 x 60	30481.02-701-47	03/03/08	2	-	-	30.0	3/4" SS	N	N	Wet	No	144.093	Earthwise	
	XX	HS-R 20	72 x 48	30481.02-701-47	03/03/08	4	-	-	30.0	3/4" SS	N	L	Wet	No	144.093	Earthwise	
	XX	HS-R 35	72 x 40	30481.02-701-47	03/03/08	5	-	-	52.5	3/4" SS	N	L	Wet	No	144.093	Earthwise	
	XX	HS-R 40	72 x 40	30481.02-701-47	03/03/08	6	-	-	60.0	3/4" SS	N	LK	Wet	No	144.093	Earthwise	

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Windgate/Belmont/Hawthorne																	
Casement	XOX	C-LC 20	108 x 78	56638.01-201-47	02/16/09	1	0.06	9.75	30.0	3/4" DS	3S	S	Wet	4 Point Tie Bar, 3 Snubber Sets	141.194	AWA	
	XX	C-LC 25	72 x 78	56638.01-201-47	02/16/09	2	0.04	-	37.5	3/4" DS	3S	A	Wet	4 Point Tie Bar, 3 Snubber Sets	141.194	AWA	
	XX	C-LC 45	48 x 60	56638.01-201-47	02/16/09	3	-	-	75.0	3/4" DS	N	N	Wet	3 Point Tie Bar, 2 Snubber Sets	141.194	AWA	
	XX	C-LC 55	48 x 60	56638.01-201-47	02/16/09	4	-	-	82.5	3/4" DS	3S	S	Wet	3 Point Tie Bar, 3 Snubber Sets	141.194	AWA	
	X	C-LC 55	36 x 72	56266.02-201-47	08/15/09	1	0.01	12.00	82.5	3/4" DS	3S, 1H	A	Wet	4 Point Tie Bar, 6 Snubber Sets	141.194	AWA	See DP 50 Tab for details
Fixed Casement		F-R 45	48 x 72	54363.02-701-47	01/19/09	1	0.01	12.00	67.5	3/4" SS	HSJ	N	Wet	No	141.194	AWA	
		F-C 50	48 x 72	07-30277.04	07/31/06	1	0.02	12.00	75.0	3/4" DS	N	A	Tape	1-3/4" Screws every 12"	141.194	AWA	
		F-LC 55	60 x 60	57193.02-701-47	08/02/09	2	0.01	12.00	82.5	3/4" DS	N	N	Wet	Sash Screwed to Frame Every 4"	141.194	AWA	
		F-LC 70	72 x 60	57193.02-701-47	08/02/09	1	0.01	12.00	105.0	3/4" TS	N	N	Wet	Sash Screwed to Frame Every 4"	141.194	AWA	Installation Screws required
Awning		AP-LC 30	48 x 36	07-30276.02	07/31/06	1	0.04	12.00	45.0	3/4" SS	HSJ	None	Tape	No	141.194	AWA	
		AP-LC 30	48 x 36	54362.02-701-47	01/19/09	1	0.07	12.00	45.0	3/4" SS	HSJ	None	Wet	1 Snubber Set	141.194	AWA	
		AP-LC 40	48 x 36	07-30276.02	07/31/06	2	-	-	60.0	3/4" SS	HSJ	A	Tape	No	141.194	AWA	
Picture		F-C 30	96 x 60	07-30478.03	02/11/08	1	0.01	12.00	45.0	YY	N	N	Wet	No	143.000	Earthwise	
		F-C 40	72 x 60	07-30478.03	02/11/08	2	-	-	60.0	XX	N	N	Wet	No	143.000	Earthwise	
		F-LC 50	60 x 60	56090.02-201-47	07/07/09	2	0.01	12.00	75.0	3/4" DS	N	N	Tape	Wood Screw Back-up all Around	142.000	AWA	See DP 50 Tab for details
		F-LC 50	72 x 60	56090.02-201-47	07/07/09	1	0.01	12.00	75.0	3/4" TS	N	N	Tape	Wood Screw Back-up all Around	142.000	AWA	See DP 50 Tab for details
		F-C 55	72 x 96	55193.02-701-47	12/10/08	1	0.02	12.00	82.5	1-1/4" Temp	N	N	Tape		142.000	AWA	
		F-C 60	84 x 84	55193.02-701-47	12/10/08	2	-	12.00	90.0	1-1/4" Temp	N	N	Tape	Special Glazing Bead	142.000	AWA	
Patio Door	XO	SGD-R 35	72 x 80	53327.01-701-47	9/8/2008	1	0.12	6.75	52.5	3/4" DS Temp	F	PL	Tape	No	59.06	AWA	

Dayton claims they are working on a window that will meet the missile impact tests. They are basing the design on the 145 system, but say it will be waivable to AWA and Earthwise platforms as well. Product line will include DH, SH, SS, HS, PW, CSMT, AWN as I understand it. Hawthorne DH may not be included. Timing per Dayton is for testing to be complete by August. This is not to be confused with the need for DP50. Dayton's design will probably include many of the special items needed for DP50 but there will be some differences as well (ie: laminated glass, tilt latch, etc). Dayton is using information learned from our DP50 testing, but is footing the expensive bill for the impact tests.

Codes

Glass	Frame Reinforcement	Sash Reinforcement	Glazing
SS = 3/4" IG 3/32" SS	N = None	N = None	Wet = Wet
DS = 3/4" IG 1/8" DS	F = Fixed Meeting R or S	S = Stiles Only	Tape = Tape
TS = 3/4" IG 3/16"	H = Head, Sill, Jambs	R = Rails Only	
XX = 13/16" IG 1/8"	S = Sill	A = All S & R	
YY = 13/16" IG 3/16"	J = Jambs	L = Lock R or S	
	T = Installation	K = Keeper R or S	
	8308 = 8308 Installation	M = Lock & Keeper R or S	
		B = Bottom Lift	
		I = Interlocking Astragal	
		P = PD Pull Stile w Lock	

**File Name Used On
Structural CD**

WG BM DH Exp 03-25-08
WG BM DH Exp 03-25-08
WG BM DH Exp 03-25-08
WG BM DH DP50 Exp 08-10-08
WG BM DH DP50 Exp 08-10-08
WG BM DH DP50 Exp 08-10-08
WG BM DH DP50 Exp 08-10-08
WG BM DH Exp 03-25-08
WG BM DH DP50 Exp 08-10-08
WG BM DH DP50 Exp 08-01-09

WG BM SH Exp 02-18-08
WG BM SH Exp 02-18-08
WG BM SH Exp 02-18-08
WG BM SH DP50 Exp 07-14-09

WG BM SS XO XOX Exp 02-24-08
WG BM SS Exp 02-24-08
WG BM SS XO XOX Exp 02-24-08
WG BM SS XO XOX Exp 02-24-08
WG BM SS XO XOX Exp 02-24-08
WG BM SS Exp 02-24-08

WG BM HS 2-lite Exp 01-17-09
WG BM HS 2-lite Exp 01-17-09
WG BM HS 2-lite Exp 01-17-09

HT DH #2 Exp 03-22-08
HT DH Exp 03-08-08
HT DH Exp 03-08-08
HT DH #2 Exp 03-22-08
HT DH Exp 03-08-08
HT DH #2 Exp 03-22-08

HT 2-lite Exp 03-08-08
HT 2-lite Exp 03-08-08
HT 2-lite Exp 03-08-08
HT 2-lite Exp 03-08-08
HT 2-lite Exp 03-08-08
HT 2-lite Exp 03-08-08

**File Name Used On
Structural CD**

HT BM WG CM Exp 02-16-09
HT BM WG CM Exp 02-16-09
HT BM WG CM Exp 02-16-09
HT BM WG CM Exp 02-16-09
HT BM WG CM DP50 Exp 08-15-09

HT BM WG FC Exp 01-19-09
HT BM WG FC Exp 07-31-06
HT BM WG FC DP50 Exp 08-02-09
HT BM WG FC DP50 Exp 08-02-09

HT BM WG CM AW Exp 07-31-06
HT BM WG CM AW Exp 01-19-09
HT BM WG CM AW Exp 07-31-06

HT BM WG CM PW Exp 02-11-08
HT BM WG CM PW Exp 02-11-08
HT BM WG CM PW DP50 Exp 07-07-08

HT BM WG CM PW 1.250 Glass Exp 12-10-08
HT BM WG CM PW 1.250 Glass Exp 12-10-08

SGD PD Exp 08-08-08

