

CSA A440 2-19 Simulation Summary

Manufacturer: Vinyl Pro Window Systems Inc.  
 Xova Report Number: 20-06-B0015-S9  
 Product Series / Model: High Fixed Window  
 /Window 6.3 File Name: 20-06-B0015-S9-HFF-Vinyl Pro  
 Date: 13-Feb-20  
 Simulation Revision No.:  
 Operator Type: Fixed Window  
 Simulation Window Size: 7200 Width (mm) x 1500 Height (mm)  
 Frame Type: VC - vinyl frame members  
 Sash Type: VV - vinyl frame members  
 Thermal Break Type: N/A  
 Simulation Laboratory Code: SEVA (NFRCC)

Physical Air Leakage Value: 0.0 L/m²  
 Physical Test Report No.: 14-08-K0030-2  
 Physical Test Report Issued By: Esviva  
 Physical Test Report Date: 22-Mar-14



element

3.0  
 High Fixed Window

DETAILED SIMULATION RESULTS

Product Code	Grouping ID Number		Glazing Option Number			Gap Space 1			Gap Space 2			Gas Information			Emissivity						Spacer Type	C-O-G U-Factor		C-O-G SHGC	C-O-G VT	Grid Type	Grid Size (in)	Total Product U-Factor		SHGC NO GRID	SHGC GRID < 1"	SHGC GRID >= 1"	VT NO GRID	VT GRID < 1"	VT GRID >= 1"	ER NO GRID	ER GRID < 1"	ER GRID >= 1"			
	(mm)	(in)	(mm)	(in)	(mm)	(mm)	(in)	(mm)	(in)	(mm)	(in)	Gas Fill 1	Gas Fill 2	% of Gas Fill 1	% of Gas Fill 2	Surface 2	Surface 3	Surface 4	Surface 5	Surface 6		(W/m²·K)	(Btu/h.ft².F)					(W/m²·K)	(Btu/h.ft².F)												
1	2064	0.813	1	3.00	0.118	3.00	0.118	14.84	0.576	14.84	0.576	ARG	ARG	97	97	0.068	0.068	0.149						ZF-S	1.49	0.262	0.69	0.79	N.G <sup>10</sup>	0.75	1.45	0.255	0.52	0.47	-	-	0.60	0.53	-	38	35
2	2064	0.813	2	3.00	0.118	3.00	0.118	14.84	0.576	14.84	0.576	ARG	ARG	97	97	0.068	0.068	0.149						ZF-S	1.19	0.210	0.82	0.77	N.G <sup>10</sup>	0.76	1.25	0.220	0.48	0.43	-	-	0.58	0.52	-	40	37
3	2858	1.125	3	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	1.13	0.198	0.82	0.73	N.G <sup>10</sup>	0.75	1.20	0.211	0.47	0.42	-	-	0.55	0.52	-	41	38
4	2858	1.125	3	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	1.13	0.198	0.82	0.73	N.G <sup>10</sup>	0.75	1.20	0.211	0.47	0.42	-	-	0.49	0.49	-	38	38
5	2858	1.125	3	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	0.85	0.150	0.56	0.70	N.G <sup>10</sup>	0.75	1.00	0.176	0.43	0.38	-	-	0.53	0.47	-	43	40
6	2858	1.125	4	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	0.85	0.150	0.56	0.70	N.G <sup>10</sup>	0.75	1.00	0.176	0.43	0.38	-	-	0.47	0.47	-	40	40
7	2858	1.125	4	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	0.85	0.150	0.56	0.70	N.G <sup>10</sup>	0.75	1.00	0.176	0.43	0.38	-	-	0.52	0.52	-	43	40
8	2858	1.125	5	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	0.74	0.131	0.53	0.68	N.G <sup>10</sup>	0.75	0.95	0.167	0.41	0.35	-	-	0.46	0.46	-	40	40
9	2858	1.125	5	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	0.74	0.131	0.53	0.68	N.G <sup>10</sup>	0.75	0.95	0.167	0.41	0.35	-	-	0.46	0.46	-	40	40
10	2858	1.125	5	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	0.74	0.131	0.53	0.68	N.G <sup>10</sup>	0.75	0.95	0.167	0.41	0.35	-	-	0.46	0.46	-	40	40
11	2858	1.125	5	3.00	0.118	3.00	0.118	9.79	0.385	9.79	0.385	ARG	ARG	97	97	0.068	0.068	0.068						ZF-S	0.74	0.131	0.53	0.68	N.G <sup>10</sup>	0.75	0.95	0.167	0.41	0.35	-	-	0.46	0.46	-	40	40

**Options:**  
 1 3 mm Cardinal Clear - 0.58° Arg 97% - 3 mm Cardinal Lst10Q521  
 2 3 mm Cardinal Lst10Q521 - 0.58° Arg 97% - 3 mm Cardinal Lst10Q521  
 3 3 mm Cardinal Clear - 0.39° Arg 97% - 3 mm Cardinal Clear - 0.39° Arg 97% - 3 mm Cardinal Lst10Q521  
 4 3 mm Cardinal Lst10Q521 - 0.39° Arg 97% - 3 mm Cardinal Clear - 0.39° Arg 97% - 3 mm Cardinal Lst10Q521  
 5 3 mm Cardinal Lst10Q521 - 0.39° Arg 97% - 3 mm Cardinal Lst10Q521 - 0.39° Arg 97% - 3 mm Cardinal Lst10Q521

**Spacer Options:**  
 ZF-S Quarex, Superspace Premium, Silicone Foam Spacer system Single Sealed

**Frame Options:**  
 (A) VV - vinyl frame members

**Divider Options:**  
 (1) GI-P9  
 (2) GI-P8  
 (3) GI-M8

0.330" x 0.295" Pencil Bar, Internal Divider, Painted Aluminum Alloy  
 0.232" x 0.625" Minis Bar, Internal Divider, Painted Aluminum Alloy  
 The divider options (1&2) stated above have a gap greater than 3 mm for the listed glass options, and meet the center-of-glass grouping rule outlined in NFRC100:2017.