

ALUTECH SYSTEMS S.R.O. COMPUTER SIMULATION REPORT

SCOPE OF WORK

ALT F50 CURTAIN WALL - NFRC 100/200/500

REPORT NUMBER

N6742.01-116-45 R0

TEST DATE

08/10/22

ISSUE DATE

08/10/22

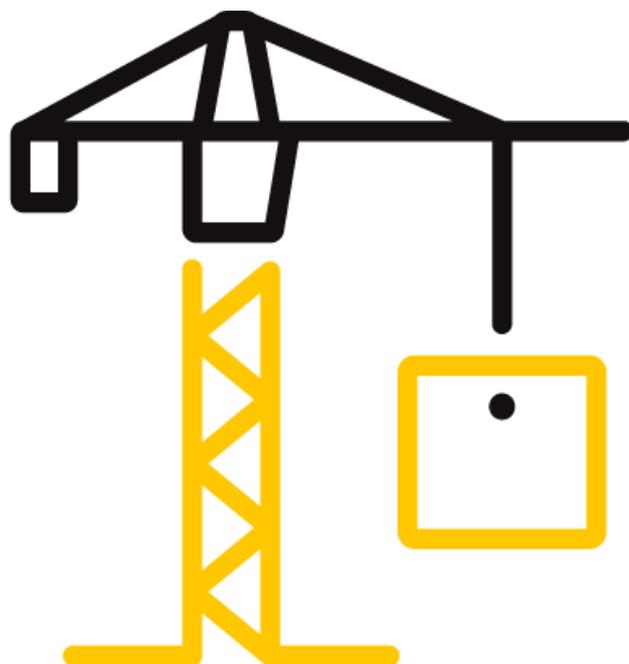
PAGES

45

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-4044 (04/11/22)

©2017 INTERTEK



TEST REPORT FOR ALUTECH SYSTEMS S.R.O.

Report No: N6742.01-116-45 R0

Date: 08/10/22

SECTION 6

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (ALT F50 Curtain Wall)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
1	SB60 / ARG90 / CLR (6MM/6MM) - 26MM IG											
	0.223	0.551	0.223					ARG90	0.035(#2)	CL	TS-D	N
	U-Factor 0.31			SHGC(N) 0.36				VT(N) 0.65		CR 59		
2	SB67 / ARG90 / CLR (6MM/6MM) - 26MM IG											
	0.223	0.551	0.223					ARG90	0.035(#2)	CL	TS-D	N
	U-Factor 0.31			SHGC(N) 0.27				VT(N) 0.50		CR 59		
3	SB70 / ARG90 / CLR (6MM/6MM) - 26MM IG											
	0.223	0.551	0.223					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.25				VT(N) 0.59		CR 59		
4	SUNGUARD HPN 50/32 / ARG90 / EXTRA CLR (6MM/6MM) - 26MM IG											
	0.230	0.551	0.230					ARG90	0.040(#2)	CL	TS-D	N
	U-Factor 0.31			SHGC(N) 0.29				VT(N) 0.46		CR 59		
5	ENERGY LIGHT / ARG90 / EXTRA CLR (6MM/6MM) - 26MM IG											
	0.233	0.551	0.230					ARG90	0.027(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.39				VT(N) 0.59		CR 59		
6	SUNCOOL 70/35 PRO T / ARG90 / CLR (6MM/6MM) - 26MM IG											
	0.230	0.551	0.223					ARG90	0.021(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.33				VT(N) 0.64		CR 59		
7	SUNCOOL 66/33 PRO T / ARG90 / CLR (6MM/6MM) - 26MM IG											
	0.233	0.551	0.223					ARG90	0.025(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.32				VT(N) 0.61		CR 59		
8	SUNGUARD SN 70/35 HT / ARG90 / EXTRA CLR (6MM/6MM) - 26MM IG											
	0.230	0.551	0.230					ARG90	0.025(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.30				VT(N) 0.64		CR 59		
9	SUNGUARD HPN 60 / ARG90 / EXTRA CLR (6MM/6MM) - 26MM IG											
	0.226	0.551	0.230					ARG90	0.068(#2)	CL	TS-D	N
	U-Factor 0.32			SHGC(N) 0.36				VT(N) 0.51		CR 58		
10	iPLUS ENERGY NT / ARG90 / EXTRA CLR (6MM/6MM) - 26MM IG											
	0.230	0.551	0.230					ARG90	0.038(#2)	CL	TS-D	N
	U-Factor 0.31			SHGC(N) 0.36				VT(N) 0.67		CR 59		

TEST REPORT FOR ALUTECH SYSTEMS S.R.O.

Report No: N6742.01-116-45 R0

Date: 08/10/22

SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (ALT F50 Curtain Wall)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
11	SUNCOOL 70/35 PRO T / ARG97 / CLR (6MM/6MM) - 32MM IG											
	0.230	0.787	0.223					ARG97	0.021(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.33				VT(N) 0.64		CR 61		
12	SUNCOOL 70/35 PRO T / ARG90 / PLANIBEL G (6MM/6MM) - 32MM IG											
	0.230	0.787	0.230					ARG90	0.021(#2) / 0.168(#4)	CL	TS-D	N
	U-Factor 0.26			SHGC(N) 0.32				VT(N) 0.60		CR 51		
13	SUNCOOL 66/33 PRO T / ARG90 / PLANIBEL G (6MM/6MM) - 32MM IG											
	0.233	0.787	0.230					ARG97	0.025(#2) / 0.168(#4)	CL	TS-D	N
	U-Factor 0.26			SHGC(N) 0.31				VT(N) 0.57		CR 51		
14	SUNCOOL 70/35 PRO T / ARG97 / SUNERGY (6MM/6MM) - 32MM IG											
	0.230	0.787	0.230					ARG97	0.021(#2) / 0.283(#4)	CL	TS-D	N
	U-Factor 0.27			SHGC(N) 0.31				VT(N) 0.51		CR 53		
15	SUNCOOL 66/33 PRO T / ARG97 / SUNERGY (6MM/6MM) - 32MM IG											
	0.233	0.787	0.230					ARG97	0.025(#2) / 0.283(#4)	CL	TS-D	N
	U-Factor 0.27			SHGC(N) 0.30				VT(N) 0.48		CR 53		
16	SUNCOOL 70/35 PRO T / ARG97 / STRATOPHONE 66.2 (6MM/LAMI) - 32MM IG											
	0.230	0.551	0.491					ARG97	0.021(#2)	CL	TS-D	N
	U-Factor 0.29			SHGC(N) 0.33				VT(N) 0.63		CR 61		
17	STRATOBEL IPLUS I-TOP 44.2 / ARG90 / STRATOPHONE LOW-E G 64.2 (LAMI/LAMI) - 33MM IG											
	0.333	0.551	0.412					ARG90	0.038(#2) / 0.168(#4)	CL	TS-D	N
	U-Factor 0.25			SHGC(N) 0.43				VT(N) 0.63		CR 51		
18	SUNCOOL 70/35 PRO T / ARG90 / PLANIBEL TOP N+T / ARG90 / SUNERGY (6MM/6MM/6MM) - 54MM IG											
	0.230	0.551	0.230	0.875	0.230			ARG90	0.021(#2) / 0.04(#4) / 0.283(#6)	CL	TS-D	N
	U-Factor 0.15			SHGC(N) 0.28				VT(N) 0.44		CR 69		
19	iPLUS ENERGY NT / ARG90 / EXTRA CLR / ARG90 / EXTRA CLR (6MM/6MM/6MM) - 56MM IG											
	0.230	0.630	0.230	0.875	0.230			ARG90	0.038(#2)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.33				VT(N) 0.61		CR 71		
20	SUNCOOL 70/35 PRO T / ARG97 / PLANIBEL TOP N+T / ARG97 / PLANIBEL TOP N+T / ARG97 / PLANIBEL G (6MM/6MM/6MM/6MM) - 68MM IG											
	0.230	0.551	0.230	0.630	0.230	0.551	0.230	ARG97	0.021(#2) / 0.04(#4) / 0.04(#6) / 0.168(#8)	CL	TS-D	N
	U-Factor 0.11			SHGC(N) 0.25				VT(N) 0.46		CR 77		