



AUTOGRAPH

<u>SERIES</u>	<u>CONFIG</u>	<u>GLASS 1</u>	<u>SPACER</u>	<u>GLASS 2</u>	<u>SPACER</u>	<u>GLASS 3</u>	<u>U-VALUE</u>	<u>SHGC</u>	<u>VLT</u>	<u>CR</u>	<u>STC</u>
SH,SL,PW	PW	LE	ARG	CL	x	x	0.26	0.30	0.59	64	31
SH,SL,PW	PW	LE	ARG	IS20	x	x	0.22	0.29	0.58	52	31
SH,SL,PW	PW	LE+	ARG	CL	x	x	0.26	0.22	0.53	64	31
SH,SL,PW	PW	LE+	ARG	IS20	x	x	0.22	0.22	0.51	52	31
SH,SL,PW	PW	LE	ARG	CL	ARG	CL	0.22	0.28	0.54	69	N/A
SH,SL,PW	PW	LE	ARG	CL	ARG	IS20	0.19	0.27	0.53	57	N/A
SH,SL,PW	PW	LE+	ARG	CL	ARG	CL	0.22	0.21	0.48	69	N/A
SH,SL,PW	PW	LE+	ARG	CL	ARG	IS20	0.19	0.20	0.47	57	N/A
SH,SL,PW	SH	LE	ARG	CL	x	x	0.28	0.28	0.55	61	32
SH,SL,PW	SH	LE	ARG	IS20	x	x	0.24	0.27	0.53	51	32
SH,SL,PW	SH	LE+	ARG	CL	x	x	0.28	0.21	0.49	61	32
SH,SL,PW	SH	LE+	ARG	IS20	x	x	0.24	0.20	0.47	51	32
SH,SL,PW	SH	LE	ARG	CL	ARG	CL	0.23	0.26	0.50	67	N/A
SH,SL,PW	SH	LE	ARG	CL	ARG	IS20	0.21	0.25	0.49	57	N/A
SH,SL,PW	SH	LE+	ARG	CL	ARG	CL	0.23	0.19	0.45	67	N/A
SH,SL,PW	SH	LE+	ARG	CL	ARG	IS20	0.21	0.19	0.43	57	N/A
SH,SL,PW	SL	LE	ARG	CL	x	x	0.28	0.28	0.54	61	32
SH,SL,PW	SL	LE	ARG	IS20	x	x	0.24	0.27	0.53	50	32
SH,SL,PW	SL	LE+	ARG	CL	x	x	0.28	0.20	0.47	51	32
SH,SL,PW	SL	LE+	ARG	IS20	x	x	0.21	0.25	0.48	56	32
SH,SL,PW	SL	LE	ARG	CL	ARG	CL	0.24	0.26	0.50	66	N/A
SH,SL,PW	SL	LE	ARG	CL	ARG	IS20	0.21	0.25	0.48	56	N/A
SH,SL,PW	SL	LE+	ARG	CL	ARG	CL	0.24	0.19	0.44	66	N/A
SH,SL,PW	SL	LE+	ARG	CL	ARG	IS20	0.21	0.19	0.43	56	N/A

WW Standard IGU consisting of dual double strength glass, LowE/Clr, Argon 90/Warm-edge spacer



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<u>SERIES</u>	<u>CONFIG</u>	<u>GLASS 1</u>	<u>SPACER</u>	<u>GLASS 2</u>	<u>SPACER</u>	<u>GLASS 3</u>	<u>U-VALUE</u>	<u>SHGC</u>	<u>VLT</u>	<u>CR</u>	<u>STC</u>
CS,AW	PW	LE	ARG	CL			0.26	0.30	0.60	64	31
CS,AW	PW	LE	ARG	IS20	x	x	0.22	0.30	0.58	52	31
CS,AW	PW	LE+	ARG	CL	x	x	0.26	0.22	0.53	64	31
CS,AW	PW	LE+	ARG	IS20	x	x	0.22	0.22	0.52	52	31
CS,AW	PW	LE	ARG	CL	ARG	CL	0.21	0.28	0.55	70	N/A
CS,AW	PW	LE	ARG	CL	ARG	IS20	0.18	0.28	0.49	58	N/A
CS,AW	PW	LE+	ARG	CL	ARG	CL	0.21	0.21	0.49	70	N/A
CS,AW	PW	LE+	ARG	CL	ARG	IS20	0.18	0.20	0.47	58	N/A
CS,AW	FS	LE	ARG	CL	x	x	0.26	0.26	0.51	63	31
CS,AW	FS	LE	ARG	IS20	x	x	0.23	0.26	0.50	51	31
CS,AW	FS	LE+	ARG	CL	x	x	0.26	0.19	0.46	63	31
CS,AW	FS	LE+	ARG	IS20	x	x	0.23	0.19	0.44	51	31
CS,AW	FS	LE	ARG	CL	ARG	CL	0.22	0.25	0.47	68	N/A
CS,AW	FS	LE	ARG	CL	ARG	IS20	0.20	0.24	0.46	56	N/A
CS,AW	FS	LE+	ARG	CL	ARG	CL	0.22	0.18	0.42	68	N/A
CS,AW	FS	LE+	ARG	CL	ARG	IS20	0.20	0.18	0.41	56	N/A
CS,AW	CS	LE	ARG	CL	x	x	0.27	0.22	0.42	63	34
CS,AW	CS	LE	ARG	IS20	x	x	0.24	0.19	0.41	51	34
CS,AW	CS	LE+	ARG	CL	x	x	0.27	0.16	0.36	63	34
CS,AW	CS	LE+	ARG	IS20	x	x	0.24	0.14	0.36	51	34
CS,AW	AW	LE	ARG	CL	x	x	0.27	0.22	0.42	59	34
CS,AW	AW	LE	ARG	IS20	x	x	0.25	0.21	0.41	48	34
CS,AW	AW	LE+	ARG	CL	x	x	0.27	0.16	0.38	59	34
CS,AW	AW	LE+	ARG	IS20	x	x	0.25	0.16	0.36	48	34

WW Standard IGU consisting of dual double strength glass, LowE/Clr, Argon 90, Warm-edge spacer



SIGNATURE

<u>SERIES</u>	<u>CONFIG</u>	<u>GLASS 1</u>	<u>SPACER</u>	<u>GLASS 2</u>	<u>U-VALUE</u>	<u>SHGC</u>	<u>VLT</u>	<u>CR</u>	<u>STC</u>
330 PW	PW	LE	ARG	CL	0.27	0.34	0.62	63	30
330 PW	PW	LE	ARG	IS20	0.23	0.30	0.59	51	30
330 PW	PW	LE+	ARG	CL	0.27	0.21	0.48	62	30
330 PW	PW	LE+	ARG	IS20	0.23	0.21	0.47	51	30
330 SH, SL	SH	LE	AIR	CL	0.33	0.28	0.54	56	31
330 SH, SL	SH	LE	ARG	CL	0.30	0.28	0.54	59	31
330 SH, SL	SH	LE	ARG	IS20	0.26	0.27	0.53	49	31
330 SH, SL	SH	LE+	ARG	CL	0.30	0.21	0.48	59	31
330 SH, SL	SH	LE+	ARG	IS20	0.26	0.20	0.47	49	31
330 SH, SL	SL	LE	AIR	CL	0.33	0.28	0.55	57	31
330 SH, SL	SL	LE	ARG	CL	0.29	0.28	0.55	60	31
330 SH, SL	SL	LE	ARG	IS20	0.26	0.27	0.53	50	31
330 SH, SL	SL	LE+	ARG	CL	0.29	0.21	0.48	60	31
330 SH, SL	SL	LE+	ARG	IS20	0.26	0.20	0.47	50	31

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FIRMA												
SERIES	CONFIG	GLASS 1	SPACER	GLASS 2	SPACER	GLASS 3	U-VALUE	SHGC	VLT	CR	STC	
159 PD	Patio Slider	LE	ARG	CL	X	X	0.28	0.29	0.56	61	30	
159 PD	Patio Slider	LE	ARG	IS20	X	X	0.24	0.28	0.54	50	30	
159 PD	Patio Slider	LE+	ARG	CL	X	X	0.28	0.21	0.50	61	30	
159 PD	Patio Slider	LE+	ARG	IS20	X	X	0.24	0.20	0.50	61	30	
159 PD	Patio Slider	LE+	ARG	CL	ARG	LE+	0.21	0.18	0.34	65	N/A	

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Abbreviation	Meaning
AIR	The earth's atmosphere consisting primarily of Nitrogen, Oxygen and Argon
ARG	Argon gas
AW	Awning window
CL	Clear glass
CR	Condensation resistance
CS	Casement window
FS	Fixed sash window for equal sight-lines
IS20	A hard-coat applied to the interior surface to enhance thermal insulation
LE	LowE soft coat of 2 applications of silver to the glass
LE+	LowE soft coat of 3 applications of silver to the glass
PW	Picture window
SH	Single hung
SHGC	Solar Heat Gain Coefficient
SL	Sliding window
STC	Sound Transmission Class
VLT	Visible Light Transmission