

**Dual action PVC window (Tilt turn window)**

**Triple glaze**, 4mm glass, IGU warm edge spacers 14-18mm

AMAA testing - aama/wdma/csa 101/i.s.2/a440-17 \*ALL units are in BTU/hr.ft2.F

NFRC							PHIUS		
							Ucog-Value		
Frame system	Low E coatings	U factor	SHGC	VT	CR	AMAA PG	Uw whole window	SHGC	BTU/hr.ft2.F
70mm	TH 1.1 / 1.1	0.18	0.34	0.5	73	CW - 60	0.19	0.494	0.12
	TH 1.0 / 1.1	0.18	0.28	0.46	73	CW - 60	0.19	0.413	0.115
	TH 1.0 / 1.0	0.18	0.26	0.44	73	CW - 60	0.19	0.381	0.115
	CN 70-40 /TH 1.1	0.18	0.24	0.44	73	CW - 60	0.19	0.354	0.116
	CN 70-35 /TH 1.1	0.18	0.22	0.43	73	CW - 60	0.19	0.314	0.115
	CN 61-32 /TH 1.1	0.18	0.2	0.38	72	CW - 60	0.19	0.286	0.115
76mm	TH 1.1 / 1.1	0.17	0.34	0.5	75	CW - 80	0.17	0.494	0.12
	TH 1.0 / 1.1	0.17	0.28	0.46	75	CW - 80	0.17	0.413	0.115
	TH 1.0 / 1.0	0.17	0.26	0.44	75	CW - 80	0.17	0.381	0.115
	CN 70-40 /TH 1.1	0.17	0.24	0.44	75	CW - 80	0.17	0.354	0.116
	CN 70-35 /TH 1.1	0.17	0.22	0.43	75	CW - 80	0.17	0.314	0.115
	CN 61-32 /TH 1.1	0.17	0.2	0.38	74	CW - 80	0.17	0.286	0.115
82mm	TH 1.1 / 1.1	0.17	0.34	0.5	78	CW - 80	0.16	0.494	0.12
	TH 1.0 / 1.1	0.17	0.28	0.46	78	CW - 80	0.16	0.413	0.115
	TH 1.0 / 1.0	0.17	0.26	0.44	78	CW - 80	0.16	0.381	0.115
	CN 70-40 /TH 1.1	0.17	0.24	0.44	78	CW - 80	0.16	0.354	0.116
	CN 70-35 /TH 1.1	0.17	0.22	0.43	78	CW - 80	0.16	0.314	0.115
	CN 61-32 /TH 1.1	0.17	0.2	0.38	78	CW - 80	0.16	0.286	0.115

**Fixed PVC window (picture window)**

**Triple glaze**, 4mm glass, IGU warm edge spacers 14-18mm

AMAA testing - aama/wdma/csa 101/i.s.2/a440-17 \*ALL units are in BTU/hr.ft2.F

NFRC							PHIUS		
							Ucog-Value		
Frame system	Low E coatings	U factor	SHGC	VT	CR	AMAA PG	Uw whole window	SHGC	BTU/hr.ft2.F
70mm	TH 1.1 / 1.1	0.16	0.4	0.59	73	CW - 60	0.17	0.494	0.12
	TH 1.0 / 1.1	0.16	0.34	0.55	73	CW - 60	0.17	0.413	0.115
	TH 1.0 / 1.0	0.16	0.3	0.54	73	CW - 60	0.17	0.381	0.115
	CN 70-40 /TH 1.1	0.16	0.29	0.53	73	CW - 60	0.17	0.354	0.116
	CN 70-35 /TH 1.1	0.16	0.26	0.51	71	CW - 60	0.17	0.314	0.115
	CN 61-32 /TH 1.1	0.16	0.23	0.45	71	CW - 60	0.17	0.286	0.115
76mm	TH 1.1 / 1.1	0.16	0.4	0.59	75	CW - 80	0.15	0.494	0.12
	TH 1.0 / 1.1	0.16	0.33	0.55	75	CW - 80	0.15	0.413	0.115
	TH 1.0 / 1.0	0.16	0.3	0.54	75	CW - 80	0.15	0.381	0.115
	CN 70-40 /TH 1.1	0.16	0.28	0.53	75	CW - 80	0.15	0.354	0.116
	CN 70-35 /TH 1.1	0.16	0.25	0.51	74	CW - 80	0.15	0.314	0.115
	CN 61-32 /TH 1.1	0.16	0.23	0.45	74	CW - 80	0.15	0.286	0.115
82mm	TH 1.1 / 1.1	0.16	0.39	0.58	78	CW - 80	0.14	0.494	0.12
	TH 1.0 / 1.1	0.16	0.33	0.54	78	CW - 80	0.14	0.413	0.115
	TH 1.0 / 1.0	0.16	0.3	0.54	78	CW - 80	0.14	0.381	0.115
	CN 70-40 /TH 1.1	0.16	0.28	0.52	79	CW - 80	0.14	0.354	0.116
	CN 70-35 /TH 1.1	0.16	0.25	0.5	78	CW - 80	0.14	0.314	0.115
	CN 61-32 /TH 1.1	0.16	0.23	0.44	78	CW - 80	0.14	0.286	0.115

**Amberline PVC window Thermal (NFRC/PHIUS )  
Performance Grade (AMAA)**

**Dual action PVC window (Tilt turn window)**

**Double glaze**, 4mm glass, IGU warm edge spacers 14-18mm

AMAA testing - aama/wdma/csa 101/i.s.2/a440-17 \*ALL units are in BTU/hr.ft<sup>2</sup>.F

Frame system	Low E coatings	U factor	SHGC	VT	CR	AMAA PG
70mm	TH 1.1 / 1.1	0.25	0.38	0.5	64	CW - 60
	TH 1.0 / 1.1	0.25	0.31	0.46	64	CW - 60
	TH 1.0 / 1.0	0.25	0.28	0.44	64	CW - 60
	CN 70-40 / 1.1	0.25	0.27	0.44	64	CW - 60
	CN 70-35	0.25	0.25	0.43	64	CW - 60
	CN 61-32	0.25	0.22	0.38	64	CW - 60

Frame system	Low E coatings	U factor	SHGC	VT	CR	AMAA PG
76mm	TH 1.1 / 1.1	0.25	0.38	0.5	66	CW - 80
	TH 1.0 / 1.1	0.25	0.31	0.46	66	CW - 80
	TH 1.0 / 1.0	0.25	0.28	0.44	66	CW - 80
	CN 70-40	0.25	0.27	0.44	66	CW - 80
	CN 70-35	0.25	0.25	0.43	66	CW - 80
	CN 61-32	0.25	0.22	0.38	66	CW - 80

**AMBERLINE**

Manufacturer of High Performance uPVC and Aluminum Windows and Doors

**Amberline PVC window Thermal (NFRC/PHIUS )  
Performance Grade (AMAA)**

**Fixed PVC window (picture window)**

**Double glaze**, 4mm glass, IGU warm edge spacers 14-18mm

AMAA testing - aama/wdma/csa 101/i.s.2/a440-17 \*ALL units are in BTU/hr.ft<sup>2</sup>.F

Frame system	Low E coatings	U factor	SHGC	VT	CR	AMAA PG
70mm	TH 1.1 / 1.1	0.23	0.43	0.59	64	CW - 60
	TH 1.0 / 1.1	0.23	0.34	0.55	64	CW - 60
	TH 1.0 / 1.0	0.23	0.33	0.54	64	CW - 60
	CN 70-40	0.23	0.31	0.53	64	CW - 60
	CN 70-35	0.23	0.28	0.51	64	CW - 60
	CN 61-32	0.23	0.254	0.45	64	CW - 60

Frame system	Low E coatings	U factor	SHGC	VT	CR	AMAA PG
76mm	TH 1.1 / 1.1	0.23	0.43	0.59		CW - 80
	TH 1.0 / 1.1	0.23	0.34	0.55		CW - 60
	TH 1.0 / 1.0	0.23	0.33	0.54		CW - 80
	CN 70-40	0.23	0.31	0.53		CW - 80
	CN 70-35	0.23	0.28	0.51		CW - 80
	CN 61-32	0.23	0.254	0.45		CW - 80

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