NFRC Product Certification Authorization Report

Manufacturer: Henan Crown Window and Door Co.,Ltd
Product Series: 70 Series Fixed Window
Simulation Lab: SATI
Initial Cert. Date: 06/08/2026

Street: Gongye Rd.and Huashan Rd.Xunxian Ind.Agglomeratio Zone Xunxian County Hebi Henan China
Product Type: FIXD
Sim. Report #: S3849.01-116-45 R0
Re-Certification Date:

City/State/Zip: Hebi, Henan 456250
Air Leakage:
Sim. Report Date: 05/07/2025
Revised Date: 01/01/1970

Print Date: 06/08/2026
Test Date: 11/19/2025
Expiration Date: 11/19/2030

CPD Number: HCW-M-1 **IA: National Accreditation And Management Institute**

Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00001-00001	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.33	0.53	0.58	56
	00001-00002	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.33	0.47	0.52	56
	00002-00001	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.33	0.47	0.52	56
	00002-00002	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.33	0.47	0.52	56
	00003-00001	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.26	0.41	0.57	62
	00003-00002	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.26	0.37	0.51	62
	00004-00001	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.29	0.37	0.51	62
	00004-00002	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.29	0.37	0.51	62
	00005-00001	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.24	0.41	0.57	63
	00005-00002	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.24	0.37	0.51	63
	00006-00001	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.27	0.37	0.51	63
	00006-00002	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.27	0.37	0.51	63
	00007-00001	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.19	0.38	0.56	65
	00007-00002	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.19	0.34	0.50	65
	00008-00001	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.23	0.34	0.50	65
	00008-00002	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.23	0.34	0.50	65

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Print Date: 06/08/2026

Product Series: 70 Series Fixed Window
Product Type: FIXD
Air Leakage:

Simulation Lab: SATI
Sim. Report #: S3849.01-116-45 R0
Sim. Report Date: 05/07/2025
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Revised Date: 01/01/1970
Expiration Date: 11/19/2030

CPD Number: HCW-M-1 **IA: National Accreditation And Management Institute**

Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00009-00001	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.33	0.54	0.58	56
	00009-00002	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.33	0.48	0.52	56
	00010-00001	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.33	0.48	0.52	56
	00010-00002	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.33	0.48	0.52	56
	00011-00001	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.26	0.28	0.50	62
	00011-00002	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.26	0.25	0.45	62
	00012-00001	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.28	0.25	0.45	62
	00012-00002	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.28	0.25	0.45	62
	00013-00001	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.24	0.28	0.50	63
	00013-00002	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.24	0.25	0.45	63
	00014-00001	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.27	0.25	0.45	63
	00014-00002	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.27	0.25	0.45	63
	00015-00001	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.19	0.26	0.43	64
	00015-00002	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.19	0.23	0.39	64
	00016-00001	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.23	0.23	0.39	64

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Print Date: 06/08/2026

Product Series: 70 Series Fixed Window
Product Type: FIXD
Air Leakage:

Simulation Lab: SATI
Sim. Report #: S3849.01-116-45 R0
Sim. Report Date: 05/07/2025
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CPD Number: HCW-M-1 | **IA: National Accreditation And Management Institute**

Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00016-00002	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	A1-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.23	0.23	0.39	64
	00017-00001	Clear / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2		0.630	A1-D	Fill 1: AIR (100)	N		CL	0.45	0.59	0.64	44
	00017-00002	Clear / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2		0.630	A1-D	Fill 1: AIR (100)	G	0.75	CL	0.45	0.53	0.57	44
	00017-00003	Clear / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2		0.630	A1-D	Fill 1: AIR (100)	S	0.75	CL	0.45	0.53	0.57	44
	00018-00001	OptiliteS116 / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	A1-D	Fill 1: AIR (100)	N		CL	0.33	0.45	0.63	53
	00018-00002	OptiliteS116 / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	A1-D	Fill 1: AIR (100)	G	0.75	CL	0.33	0.41	0.56	53
	00018-00003	OptiliteS116 / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	A1-D	Fill 1: AIR (100)	S	0.75	CL	0.33	0.41	0.56	53
	00019-00001	OptiliteS116 / ARG90 / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	A1-D	Fill 1: ARG (90)	N		CL	0.30	0.45	0.63	56
	00019-00002	OptiliteS116 / ARG90 / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	A1-D	Fill 1: ARG (90)	G	0.75	CL	0.30	0.41	0.56	56
	00019-00003	OptiliteS116 / ARG90 / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	A1-D	Fill 1: ARG (90)	S	0.75	CL	0.30	0.41	0.56	56
	00020-00001	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	A1-D	Fill 1: AIR (100)	N		CL	0.45	0.60	0.64	44
	00020-00002	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	A1-D	Fill 1: AIR (100)	S	0.75	CL	0.45	0.54	0.57	44
	00021-00001	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	A1-D	Fill 1: AIR (100)	G	0.75	CL	0.45	0.54	0.57	44
	00021-00002	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	A1-D	Fill 1: AIR (100)	S	0.75	CL	0.45	0.54	0.57	44
	00022-00001	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: AIR (100)	N		CL	0.33	0.30	0.55	52
	00022-00002	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: AIR (100)	S	0.75	CL	0.33	0.27	0.49	52
	00023-00001	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: AIR (100)	G	0.75	CL	0.37	0.27	0.49	52

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Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00023-00002	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: AIR (100)	S	0.75	CL	0.37	0.27	0.49	52
	00024-00001	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: ARG (90)	N		CL	0.29	0.30	0.55	55
	00024-00002	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: ARG (90)	S	0.75	CL	0.29	0.27	0.49	55
	00025-00001	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: ARG (90)	G	0.75	CL	0.34	0.27	0.49	55
	00025-00002	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	A1-D	Fill 1: ARG (90)	S	0.75	CL	0.34	0.27	0.49	55
	00026-00001	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.31	0.53	0.58	61
	00026-00002	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.31	0.47	0.52	61
	00027-00001	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.32	0.47	0.52	61
	00027-00002	Clear / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.32	0.47	0.52	61
	00028-00001	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.25	0.41	0.57	67
	00028-00002	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.25	0.37	0.51	67
	00029-00001	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.27	0.37	0.51	67
	00029-00002	OptiliteS116 / Air / Clear / Air / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.27	0.37	0.51	67
	00030-00001	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.22	0.41	0.57	69
	00030-00002	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.22	0.37	0.51	69
	00031-00001	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.25	0.37	0.51	69

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Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00031-00002	OptiliteS116 / ARG90 / Clear / ARG90 / Clear (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.25	0.37	0.51	69
	00032-00001	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.18	0.38	0.56	71
	00032-00002	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.18	0.34	0.50	71
	00033-00001	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.22	0.34	0.50	71
	00033-00002	OptiliteS116 / ARG90 / Clear / ARG90 / OptiliteS116 (5mm/5mm/5mm) 39mm IG	VR/NA	3	0.076(2), 0.076(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.22	0.34	0.50	71
	00034-00001	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.31	0.54	0.58	61
	00034-00002	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.31	0.48	0.52	61
	00035-00001	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.31	0.48	0.52	61
	00035-00002	Clear / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3		0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.31	0.48	0.52	61
	00036-00001	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	N		CL	0.25	0.28	0.50	67
	00036-00002	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.25	0.25	0.45	67
	00037-00001	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	G	0.75	CL	0.27	0.25	0.45	67
	00037-00002	OptisolarD80 / Air / Clear / Air / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: AIR (100),Fill 2: AIR (100)	S	0.75	CL	0.27	0.25	0.45	67
	00038-00001	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.22	0.28	0.50	69
	00038-00002	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.22	0.25	0.45	69
	00039-00001	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.25	0.25	0.45	69

NFRC Product Certification Authorization Report

Manufacturer: Henan Crown Window and Door Co.,Ltd
Product Series: 70 Series Fixed Window
Simulation Lab: SATI
Initial Cert. Date: 06/08/2026

Street: Gongye Rd.and Huashan Rd.Xunxian Ind.Agglomeratio Zone Xunxian County Hebi Henan China
Product Type: FIXD
Sim. Report #: S3849.01-116-45 R0
Re-Certification Date:

City/State/Zip: Hebi, Henan 456250
Air Leakage:
Sim. Report Date: 05/07/2025
Revised Date: 01/01/1970

Print Date: 06/08/2026
Test Date: 11/19/2025
Expiration Date: 11/19/2030

CPD Number: HCW-M-1 | **IA: National Accreditation And Management Institute**

Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00039-00002	OptisolarD80 / ARG90 / Clear / ARG90 / Clear (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.25	0.25	0.45	69
	00040-00001	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	N		CL	0.18	0.26	0.43	70
	00040-00002	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.18	0.23	0.39	70
	00041-00001	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	G	0.75	CL	0.22	0.23	0.39	70
	00041-00002	OptisolarD80 / ARG90 / Clear / ARG90 / OptisolarD80 (6mm/6mm/6mm) 42mm IG	VR/NA	3	0.072(2), 0.072(5)	0.472,0.472	TS-D	Fill 1: ARG (90),Fill 2: ARG (90)	S	0.75	CL	0.22	0.23	0.39	70
	00042-00001	Clear / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2		0.630	TS-D	Fill 1: AIR (100)	N		CL	0.44	0.59	0.64	46
	00042-00002	Clear / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2		0.630	TS-D	Fill 1: AIR (100)	G	0.75	CL	0.44	0.53	0.57	46
	00042-00003	Clear / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2		0.630	TS-D	Fill 1: AIR (100)	S	0.75	CL	0.44	0.53	0.57	46
	00043-00001	OptiliteS116 / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	TS-D	Fill 1: AIR (100)	N		CL	0.32	0.45	0.63	57
	00043-00002	OptiliteS116 / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	TS-D	Fill 1: AIR (100)	G	0.75	CL	0.32	0.41	0.56	57
	00043-00003	OptiliteS116 / Air / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	TS-D	Fill 1: AIR (100)	S	0.75	CL	0.32	0.41	0.56	57
	00044-00001	OptiliteS116 / ARG90 / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	TS-D	Fill 1: ARG (90)	N		CL	0.28	0.45	0.63	61
	00044-00002	OptiliteS116 / ARG90 / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	TS-D	Fill 1: ARG (90)	G	0.75	CL	0.28	0.41	0.56	61
	00044-00003	OptiliteS116 / ARG90 / Clear (5mm/5mm) 26mm IG	VR/NA	2	0.076(2)	0.630	TS-D	Fill 1: ARG (90)	S	0.75	CL	0.28	0.41	0.56	61
	00045-00001	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	TS-D	Fill 1: AIR (100)	N		CL	0.44	0.60	0.64	46
	00045-00002	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	TS-D	Fill 1: AIR (100)	S	0.75	CL	0.44	0.54	0.57	46

NFRC Product Certification Authorization Report

Manufacturer: Henan Crown Window and Door Co.,Ltd
Street: Gongye Rd.and Huashan Rd.Xunxian Ind.Agglomeratio Zone Xunxian County Hebi Henan China
City/State/Zip: Hebi, Henan 456250
Print Date: 06/08/2026

Product Series: 70 Series Fixed Window
Product Type: FIXD
Air Leakage:

Simulation Lab: SATI
Sim. Report #: S3849.01-116-45 R0
Sim. Report Date: 05/07/2025
Test Date: 11/19/2025

Initial Cert. Date: 06/08/2026
Re-Certification Date:
Revised Date: 01/01/1970
Expiration Date: 11/19/2030

CPD Number: HCW-M-1 | **IA: National Accreditation And Management Institute**

Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00046-00001	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	TS-D	Fill 1: AIR (100)	G	0.75	CL	0.44	0.54	0.57	46
	00046-00002	Clear / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2		0.551	TS-D	Fill 1: AIR (100)	S	0.75	CL	0.44	0.54	0.57	46
	00047-00001	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: AIR (100)	N		CL	0.31	0.30	0.55	57
	00047-00002	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: AIR (100)	S	0.75	CL	0.31	0.27	0.49	57
	00048-00001	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: AIR (100)	G	0.75	CL	0.36	0.27	0.49	57
	00048-00002	OptisolarD80 / Air / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: AIR (100)	S	0.75	CL	0.36	0.27	0.49	57
	00049-00001	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: ARG (90)	N		CL	0.28	0.30	0.55	60
	00049-00002	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: ARG (90)	S	0.75	CL	0.28	0.27	0.49	60
	00050-00001	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: ARG (90)	G	0.75	CL	0.33	0.27	0.49	60
	00050-00002	OptisolarD80 / ARG90 / Clear (6mm/6mm) 26mm IG	VR/NA	2	0.072(2)	0.551	TS-D	Fill 1: ARG (90)	S	0.75	CL	0.33	0.27	0.49	60

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TATI	**11/19/2025**	1200mm x 1499mm	0.197	0.196	S3850.01-116-46

Comments: N/A

I hereby certify that all requirements for NFRC Certification Authorization have been met and that the above information is true and correct, to the best of my knowledge.

Authorized IA Signature: