

NFRC Product Certification Authorization Report



Manufacturer: MGM Industries **Product Series:** 4710 Fixed **Simulation Lab:** SNCT **Initial Cert. Date:** 01/20/2004
Street: 287 Free Hill Road **Product Type:** FIXD **Sim. Report #:** NCTL-110-14240-01 **Re-Certification Date:** 11/15/2011
City/State/Zip: Hendersonville, TN 37075 **Air Leakage:** 0.10000 **Sim. Report Date:** 08/17/2011 **Revised Date:** 08/17/2011
Print Date: 11/15/2011 **Test Date:** 10/31/2011 **Expiration Date:** 10/31/2015

CPD Number: MGM-A-2

IA: American Architectural Manufacturers Association

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.
	00029-00001	2mm Clear/AIR/2mm Clear	VY/VY	2		0.553	SU-D	Fill 1: AIR (100)	N		CL	0.43	0.62	0.65	44
	00029-00002	2mm Clear/AIR/2mm Clear	VY/VY	2		0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.43	0.56	0.58	44
	00029-00003	3mm Clear/AIR/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: AIR (100)	N		CL	0.43	0.61	0.64	44
	00029-00004	3mm Clear/AIR/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.43	0.55	0.57	44
	00029-00005	3mm Gray/AIR/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: AIR (100)	N		GY	0.43	0.47	0.44	44
	00029-00006	3mm Gray/AIR/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.43	0.43	0.39	44
	00029-00007	3mm Bronze/AIR/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.43	0.49	0.48	44
	00029-00008	3mm Bronze/AIR/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.43	0.44	0.43	44
	00030-00001	2 mm LoE ² 270/AIR/2mm Clear	VY/VY	2	0.037(2)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.29	0.55	53
	00030-00002	2 mm LoE ² 270/AIR/2mm Clear	VY/VY	2	0.037(2)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.26	0.49	53
	00030-00003	3 mm LoE ² 270/AIR/3mm Clear	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.29	0.55	53
	00030-00004	3 mm LoE ² 270/AIR/3mm Clear	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.26	0.49	53
	00030-00005	2mm Clear/AIR/2 mm LoE ² 270	VY/VY	2	0.037(3)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.36	0.55	53
	00030-00006	2mm Clear/AIR/2 mm LoE ² 270	VY/VY	2	0.037(3)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.33	0.49	53
	00030-00007	3mm Clear/AIR/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.36	0.55	53
	00030-00008	3mm Clear/AIR/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.32	0.49	53
	00030-00009	3mm Gray/AIR/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.29	0.28	0.37	53
	00030-00010	3mm Gray/AIR/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.29	0.25	0.33	53
	00030-00011	3mm Bronze/AIR/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.29	0.29	0.41	53
	00030-00012	3mm Bronze/AIR/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.29	0.26	0.37	53
	00030-00013	3 mm LoE ² 270/AIR/3mm Gray	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.29	0.28	0.37	53
	00030-00014	3 mm LoE ² 270/AIR/3mm Gray	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.29	0.25	0.33	53
	00030-00015	3 mm LoE ² 270/AIR/3mm Bronze	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.29	0.28	0.41	53
	00030-00016	3 mm LoE ² 270/AIR/3mm Bronze	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.29	0.26	0.37	53
	00031-00001	2 mm LoE ² 270/ARG/2mm Clear	VY/VY	2	0.037(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.29	0.55	53

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CPD Number: MGM-A-2

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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	2 mm LoE ² 270/ARG/2mm Clear	VY/VY	2	0.037(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.26	0.49	53
	00031-00003	3 mm LoE ² 270/ARG/3mm Clear	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.29	0.55	53
	00031-00004	3 mm LoE ² 270/ARG/3mm Clear	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.26	0.49	53
	00031-00005	2mm Clear/ARG/2 mm LoE ² 270	VY/VY	2	0.037(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.36	0.55	53
	00031-00006	2mm Clear/ARG/2 mm LoE ² 270	VY/VY	2	0.037(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.33	0.49	53
	00031-00007	3mm Clear/ARG/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.36	0.55	53
	00031-00008	3mm Clear/ARG/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.32	0.49	53
	00031-00009	3mm Gray/ARG/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.26	0.27	0.37	53
	00031-00010	3mm Gray/ARG/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.26	0.25	0.33	53
	00031-00011	3mm Bronze/ARG/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.26	0.29	0.41	53
	00031-00012	3mm Bronze/ARG/3 mm LoE ² 270	VY/VY	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.26	0.26	0.37	53
	00031-00013	3 mm LoE ² 270/ARG/3mm Gray	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.26	0.28	0.37	53
	00031-00014	3 mm LoE ² 270/ARG/3mm Gray	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.26	0.25	0.33	53
	00031-00015	3 mm LoE ² 270/ARG/3mm Bronze	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.26	0.28	0.41	53
	00031-00016	3 mm LoE ² 270/ARG/3mm Bronze	VY/VY	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.26	0.25	0.37	53
	00032-00001	2 mm LoE ³ 366/AIR/2mm Clear	VY/VY	2	0.022(2)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.22	0.51	53
	00032-00002	2 mm LoE ³ 366/AIR/2mm Clear	VY/VY	2	0.022(2)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.20	0.45	53
	00032-00003	3 mm LoE ³ 366/AIR/3mm Clear	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.22	0.50	53
	00032-00004	3 mm LoE ³ 366/AIR/3mm Clear	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.20	0.45	53
	00032-00005	2mm Clear/AIR/2 mm LoE ³ 366	VY/VY	2	0.022(3)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.30	0.51	53
	00032-00006	2mm Clear/AIR/2 mm LoE ³ 366	VY/VY	2	0.022(3)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.27	0.45	53
	00032-00007	3mm Clear/AIR/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.29	0.30	0.50	53
	00032-00008	3mm Clear/AIR/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.29	0.27	0.45	53
	00032-00009	3mm Gray/AIR/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.29	0.23	0.35	53
	00032-00010	3mm Gray/AIR/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.29	0.21	0.31	53

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	00032-00011	3mm Bronze/AIR/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.29	0.25	0.38	53	
	00032-00012	3mm Bronze/AIR/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.29	0.22	0.34	53	
	00032-00013	3 mm LoE ³ 366/AIR/3mm Gray	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.29	0.21	0.35	53	
	00032-00014	3 mm LoE ³ 366/AIR/3mm Gray	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.29	0.19	0.31	53	
	00032-00015	3 mm LoE ³ 366/AIR/3mm Bronze	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.29	0.21	0.38	53	
	00032-00016	3 mm LoE ³ 366/AIR/3mm Bronze	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.29	0.19	0.34	53	
	00033-00001	2 mm LoE ³ 366/ARG/2mm Clear	VY/VY	2	0.022(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.21	0.51	53	
	00033-00002	2 mm LoE ³ 366/ARG/2mm Clear	VY/VY	2	0.022(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.19	0.45	53	
	00033-00003	3 mm LoE ³ 366/ARG/3mm Clear	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.21	0.50	53	
	00033-00004	3 mm LoE ³ 366/ARG/3mm Clear	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.19	0.45	53	
	00033-00005	2mm Clear/ARG/2 mm LoE ³ 366	VY/VY	2	0.022(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.31	0.51	53	
	00033-00006	2mm Clear/ARG/2 mm LoE ³ 366	VY/VY	2	0.022(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.28	0.45	53	
	00033-00007	3mm Clear/ARG/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.31	0.50	53	
	00033-00008	3mm Clear/ARG/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.28	0.45	53	
	00033-00009	3mm Gray/ARG/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.25	0.23	0.35	53	
	00033-00010	3mm Gray/ARG/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.25	0.21	0.31	53	
	00033-00011	3mm Bronze/ARG/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.25	0.24	0.38	53	
	00033-00012	3mm Bronze/ARG/3 mm LoE ³ 366	VY/VY	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.25	0.22	0.34	53	
	00033-00013	3 mm LoE ³ 366/ARG/3mm Gray	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.25	0.21	0.35	53	
	00033-00014	3 mm LoE ³ 366/ARG/3mm Gray	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.25	0.19	0.31	53	
	00033-00015	3 mm LoE ³ 366/ARG/3mm Bronze	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.25	0.21	0.38	53	
	00033-00016	3 mm LoE ³ 366/ARG/3mm Bronze	VY/VY	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.25	0.19	0.34	53	
	00034-00001	3mm Gray/ARG/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.42	0.47	0.44	46	
	00034-00002	3mm Gray/ARG/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.42	0.42	0.39	46	
	00034-00003	3mm Bronze/ARG/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.42	0.49	0.48	46	

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	00034-00004	3mm Bronze/ARG/3mm Clear	VY/VY	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.42	0.44	0.43	46

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TNCT	10/31/2011	1200mm X 1500mm	0.300	0.290	NCTL-110-14241-1

Comments:

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: _____