

NFRC Product Certification Authorization Report



Manufacturer: MGM Industries **Product Series:** 4600 Double Hung **Simulation Lab:** SNCT **Initial Cert. Date:** 02/06/2012
Street: 287 Free Hill Road **Product Type:** VSDH **Sim. Report #:** NCTL-110-14570-01 **Re-Certification Date:**
City/State/Zip: Hendersonville, TN 37075 **Air Leakage:** 0.30000 **Sim. Report Date:** 12/01/2011 **Revised Date:** 12/01/2011
Print Date: 02/06/2012 **Test Date:** 12/14/2011 **Expiration Date:** 12/14/2015

CPD Number: MGM-A-37

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.
	00001-00001	2mm Clear/AIR/2mm Clear	VY/VI	2		0.803	SU-D	Fill 1: AIR (100)	N		CL	0.47	0.60	0.63	43
	00001-00002	2mm Clear/AIR/2mm Clear	VY/VI	2		0.803	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.47	0.54	0.56	43
	00001-00003	3mm Clear/AIR/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: AIR (100)	N		CL	0.47	0.59	0.62	43
	00001-00004	3mm Clear/AIR/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.47	0.53	0.55	43
	00001-00005	3mm Gray/AIR/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: AIR (100)	N		GY	0.47	0.46	0.42	43
	00001-00006	3mm Gray/AIR/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.47	0.41	0.38	43
	00001-00007	3mm Bronze/AIR/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: AIR (100)	N		BZ	0.47	0.47	0.46	43
	00001-00008	3mm Bronze/AIR/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.47	0.42	0.41	43
	00002-00001	2 mm LoE ² 270/AIR/2mm Clear	VY/VI	2	0.037(2)	0.803	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.28	0.53	53
	00002-00002	2 mm LoE ² 270/AIR/2mm Clear	VY/VI	2	0.037(2)	0.803	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.25	0.47	53
	00002-00003	3 mm LoE ² 270/AIR/3mm Clear	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.28	0.53	53
	00002-00004	3 mm LoE ² 270/AIR/3mm Clear	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.25	0.47	53
	00002-00005	2mm Clear/AIR/2 mm LoE ² 270	VY/VI	2	0.037(3)	0.803	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.35	0.53	53
	00002-00006	2mm Clear/AIR/2 mm LoE ² 270	VY/VI	2	0.037(3)	0.803	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.32	0.47	53
	00002-00007	3mm Clear/AIR/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.35	0.53	53
	00002-00008	3mm Clear/AIR/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.31	0.47	53
	00002-00009	3mm Gray/AIR/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: AIR (100)	N		GY	0.34	0.26	0.36	53
	00002-00010	3mm Gray/AIR/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.34	0.24	0.32	53
	00002-00011	3mm Bronze/AIR/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: AIR (100)	N		BZ	0.34	0.28	0.40	53
	00002-00012	3mm Bronze/AIR/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.34	0.25	0.35	53
	00002-00013	3 mm LoE ² 270/AIR/3mm Gray	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: AIR (100)	N		GY	0.34	0.27	0.36	53
	00002-00014	3 mm LoE ² 270/AIR/3mm Gray	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.34	0.25	0.32	53
	00002-00015	3 mm LoE ² 270/AIR/3mm Bronze	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: AIR (100)	N		BZ	0.34	0.27	0.40	53
	00002-00016	3 mm LoE ² 270/AIR/3mm Bronze	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.34	0.25	0.35	53
	00003-00001	2 mm LoE ² 270/ARG/2mm Clear	VY/VI	2	0.037(2)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.28	0.53	56

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	00003-00002	2 mm LoE ² 270/ARG/2mm Clear	VY/VI	2	0.037(2)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.25	0.47	56
	00003-00003	3 mm LoE ² 270/ARG/3mm Clear	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.28	0.53	56
	00003-00004	3 mm LoE ² 270/ARG/3mm Clear	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.25	0.47	56
	00003-00005	2mm Clear/ARG/2 mm LoE ² 270	VY/VI	2	0.037(3)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.36	0.53	56
	00003-00006	2mm Clear/ARG/2 mm LoE ² 270	VY/VI	2	0.037(3)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.32	0.47	56
	00003-00007	3mm Clear/ARG/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.35	0.53	56
	00003-00008	3mm Clear/ARG/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.32	0.47	56
	00003-00009	3mm Gray/ARG/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.30	0.26	0.36	56
	00003-00010	3mm Gray/ARG/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.30	0.24	0.32	56
	00003-00011	3mm Bronze/ARG/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.30	0.28	0.40	56
	00003-00012	3mm Bronze/ARG/3 mm LoE ² 270	VY/VI	2	0.037(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.30	0.25	0.35	56
	00003-00013	3 mm LoE ² 270/ARG/3mm Gray	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.30	0.27	0.36	56
	00003-00014	3 mm LoE ² 270/ARG/3mm Gray	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.30	0.25	0.32	56
	00003-00015	3 mm LoE ² 270/ARG/3mm Bronze	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.30	0.27	0.40	56
	00003-00016	3 mm LoE ² 270/ARG/3mm Bronze	VY/VI	2	0.037(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.30	0.25	0.35	56
	00004-00001	2 mm LoE ³ 366/AIR/2mm Clear	VY/VI	2	0.022(2)	0.803	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.21	0.49	53
	00004-00002	2 mm LoE ³ 366/AIR/2mm Clear	VY/VI	2	0.022(2)	0.803	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.19	0.44	53
	00004-00003	3 mm LoE ³ 366/AIR/3mm Clear	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.21	0.49	53
	00004-00004	3 mm LoE ³ 366/AIR/3mm Clear	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.19	0.43	53
	00004-00005	2mm Clear/AIR/2 mm LoE ³ 366	VY/VI	2	0.022(3)	0.803	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.30	0.49	53
	00004-00006	2mm Clear/AIR/2 mm LoE ³ 366	VY/VI	2	0.022(3)	0.803	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.27	0.44	53
	00004-00007	3mm Clear/AIR/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: AIR (100)	N		CL	0.34	0.30	0.49	53
	00004-00008	3mm Clear/AIR/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.34	0.27	0.43	53
	00004-00009	3mm Gray/AIR/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: AIR (100)	N		GY	0.34	0.22	0.33	53
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	00004-00012	3mm Bronze/AIR/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.34	0.21	0.32	53
	00004-00013	3 mm LoE ³ 366/AIR/3mm Gray	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: AIR (100)	N		GY	0.34	0.20	0.33	53
	00004-00014	3 mm LoE ³ 366/AIR/3mm Gray	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.34	0.18	0.30	53
	00004-00015	3 mm LoE ³ 366/AIR/3mm Bronze	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: AIR (100)	N		BZ	0.34	0.20	0.37	53
	00004-00016	3 mm LoE ³ 366/AIR/3mm Bronze	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.34	0.19	0.32	53
	00005-00001	2 mm LoE ³ 366/ARG/2mm Clear	VY/VI	2	0.022(2)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.21	0.49	56
	00005-00002	2 mm LoE ³ 366/ARG/2mm Clear	VY/VI	2	0.022(2)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.19	0.44	56
	00005-00003	3 mm LoE ³ 366/ARG/3mm Clear	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.21	0.49	56
	00005-00004	3 mm LoE ³ 366/ARG/3mm Clear	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.19	0.43	56
	00005-00005	2mm Clear/ARG/2 mm LoE ³ 366	VY/VI	2	0.022(3)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.30	0.49	56
	00005-00006	2mm Clear/ARG/2 mm LoE ³ 366	VY/VI	2	0.022(3)	0.803	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.27	0.44	56
	00005-00007	3mm Clear/ARG/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.30	0.30	0.49	56
	00005-00008	3mm Clear/ARG/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.30	0.27	0.43	56
	00005-00009	3mm Gray/ARG/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.30	0.22	0.33	56
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	00005-00011	3mm Bronze/ARG/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.30	0.23	0.37	56
	00005-00012	3mm Bronze/ARG/3 mm LoE ³ 366	VY/VI	2	0.022(3)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.30	0.21	0.32	56
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	00005-00015	3 mm LoE ³ 366/ARG/3mm Bronze	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.30	0.20	0.37	56
	00005-00016	3 mm LoE ³ 366/ARG/3mm Bronze	VY/VI	2	0.022(2)	0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.30	0.18	0.32	56
	00006-00001	2mm Clear/ARG/2mm Clear	VY/VI	2		0.803	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.45	0.60	0.63	45
	00006-00002	2mm Clear/ARG/2mm Clear	VY/VI	2		0.803	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.45	0.54	0.56	45
	00006-00003	3mm Gray/ARG/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.45	0.46	0.42	45

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	00006-00005	3mm Bronze/ARG/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.45	0.47	0.46	45
	00006-00006	3mm Bronze/ARG/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.45	0.42	0.41	45
	00006-00007	3mm Clear/ARG/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.45	0.59	0.62	45
	00006-00008	3mm Clear/ARG/3mm Clear	VY/VI	2		0.764	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.45	0.53	0.55	45

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TNCT	12/14/2011	1200mm X 1500mm	0.340	0.320	NCTL-110-14571-1

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: _____