

NFRC Product Certification Authorization Report



Manufacturer: MGM Industries
Street: 287 Free Hill Road
City/State/Zip: Hendersonville, TN 37075
Print Date: 11/15/2011

Product Series: 7010 Fixed
Product Type: FIXD
Air Leakage:

Simulation Lab: SNCT
Sim. Report #: NCTL-110-14262-01
Sim. Report Date: 08/23/2011
Test Date: 10/19/2011

Initial Cert. Date: 11/15/2011
Re-Certification Date:
Revised Date: 08/23/2011
Expiration Date: 10/19/2015

CPD Number: MGM-A-33

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/NA	2		0.553	SU-D	Fill 1: AIR (100)	N		CL	0.46	0.68	0.71	46
	00001-00002	2mm Clear/AIR/2mm Clear	VY/NA	2		0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.46	0.61	0.64	46
	00001-00003	3mm Clear/AIR/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: AIR (100)	N		CL	0.46	0.66	0.70	46
	00001-00004	3mm Clear/AIR/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.46	0.60	0.63	46
	00001-00005	3mm Gray/AIR/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: AIR (100)	N		GY	0.46	0.52	0.48	46
	00001-00006	3mm Gray/AIR/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.46	0.47	0.43	46
	00001-00007	3mm Bronze/AIR/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.46	0.53	0.53	46
	00001-00008	3mm Bronze/AIR/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.46	0.48	0.47	46
	00002-00001	2 mm LoE ² 270/AIR/2mm Clear	VY/NA	2	0.037(2)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.31	0.32	0.60	58
	00002-00002	2 mm LoE ² 270/AIR/2mm Clear	VY/NA	2	0.037(2)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.31	0.29	0.54	58
	00002-00003	3 mm LoE ² 270/AIR/3mm Clear	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.31	0.32	0.60	58
	00002-00004	3 mm LoE ² 270/AIR/3mm Clear	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.31	0.29	0.54	58
	00002-00005	2mm Clear/AIR/2 mm LoE ² 270	VY/NA	2	0.037(3)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.31	0.39	0.60	58
	00002-00006	2mm Clear/AIR/2 mm LoE ² 270	VY/NA	2	0.037(3)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.31	0.36	0.54	58
	00002-00007	3mm Clear/AIR/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.31	0.39	0.60	58
	00002-00008	3mm Clear/AIR/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.31	0.35	0.54	58
	00002-00009	3mm Gray/AIR/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.31	0.30	0.41	58
	00002-00010	3mm Gray/AIR/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.31	0.27	0.37	58
	00002-00011	3mm Bronze/AIR/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.31	0.31	0.45	58
	00002-00012	3mm Bronze/AIR/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.31	0.28	0.40	58
	00002-00013	3 mm LoE ² 270/AIR/3mm Gray	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.31	0.31	0.41	58
	00002-00014	3 mm LoE ² 270/AIR/3mm Gray	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.31	0.28	0.37	58
	00002-00015	3 mm LoE ² 270/AIR/3mm Bronze	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.31	0.31	0.45	58
	00002-00016	3 mm LoE ² 270/AIR/3mm Bronze	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.31	0.28	0.40	58
	00003-00001	2 mm LoE ² 270/ARG/2mm Clear	VY/NA	2	0.037(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.27	0.32	0.60	62

NFRC Product Certification Authorization Report



Manufacturer: MGM Industries	Product Series: 7010 Fixed	Simulation Lab: SNCT	Initial Cert. Date: 11/15/2011
Street: 287 Free Hill Road	Product Type: FIXD	Sim. Report #: NCTL-110-14262-01	Re-Certification Date:
City/State/Zip: Hendersonville, TN 37075	Air Leakage: 0.10000	Sim. Report Date: 08/23/2011	Revised Date: 08/23/2011
Print Date: 11/15/2011		Test Date: 10/19/2011	Expiration Date: 10/19/2015

CPD Number: MGM-A-33

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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.
	00003-00002	2 mm LoE ² 270/ARG/2mm Clear	VY/NA	2	0.037(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.27	0.29	0.54	62
	00003-00003	3 mm LoE ² 270/ARG/3mm Clear	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.27	0.32	0.60	62
	00003-00004	3 mm LoE ² 270/ARG/3mm Clear	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.27	0.29	0.54	62
	00003-00005	2mm Clear/ARG/2 mm LoE ² 270	VY/NA	2	0.037(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.27	0.40	0.60	62
	00003-00006	2mm Clear/ARG/2 mm LoE ² 270	VY/NA	2	0.037(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.27	0.36	0.54	62
	00003-00007	3mm Clear/ARG/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.27	0.39	0.60	62
	00003-00008	3mm Clear/ARG/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.27	0.36	0.54	62
	00003-00009	3mm Gray/ARG/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.27	0.30	0.41	62
	00003-00010	3mm Gray/ARG/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.27	0.27	0.37	62
	00003-00011	3mm Bronze/ARG/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.27	0.31	0.45	62
	00003-00012	3mm Bronze/ARG/3 mm LoE ² 270	VY/NA	2	0.037(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.27	0.28	0.40	62
	00003-00013	3 mm LoE ² 270/ARG/3mm Gray	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.27	0.31	0.41	62
	00003-00014	3 mm LoE ² 270/ARG/3mm Gray	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.27	0.28	0.37	62
	00003-00015	3 mm LoE ² 270/ARG/3mm Bronze	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.27	0.31	0.45	62
	00003-00016	3 mm LoE ² 270/ARG/3mm Bronze	VY/NA	2	0.037(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.27	0.28	0.40	62
	00004-00001	2 mm LoE ³ 366/AIR/2mm Clear	VY/NA	2	0.022(2)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.30	0.24	0.56	58
	00004-00002	2 mm LoE ³ 366/AIR/2mm Clear	VY/NA	2	0.022(2)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.30	0.22	0.50	58
	00004-00003	3 mm LoE ³ 366/AIR/3mm Clear	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.30	0.24	0.55	58
	00004-00004	3 mm LoE ³ 366/AIR/3mm Clear	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.30	0.22	0.50	58
	00004-00005	2mm Clear/AIR/2 mm LoE ³ 366	VY/NA	2	0.022(3)	0.553	SU-D	Fill 1: AIR (100)	N		CL	0.30	0.33	0.56	58
	00004-00006	2mm Clear/AIR/2 mm LoE ³ 366	VY/NA	2	0.022(3)	0.553	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.30	0.30	0.50	58
	00004-00007	3mm Clear/AIR/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	N		CL	0.30	0.33	0.55	58
	00004-00008	3mm Clear/AIR/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	CL	0.30	0.30	0.50	58
	00004-00009	3mm Gray/AIR/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.30	0.25	0.38	58
	00004-00010	3mm Gray/AIR/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.30	0.23	0.34	58

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Air Leakage: 0.10000

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	00004-00011	3mm Bronze/AIR/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.30	0.27	0.41	58
	00004-00012	3mm Bronze/AIR/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.30	0.24	0.37	58
	00004-00013	3 mm LoE ³ 366/AIR/3mm Gray	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	N		GY	0.30	0.23	0.38	58
	00004-00014	3 mm LoE ³ 366/AIR/3mm Gray	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	GY	0.30	0.21	0.34	58
	00004-00015	3 mm LoE ³ 366/AIR/3mm Bronze	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	N		BZ	0.30	0.23	0.41	58
	00004-00016	3 mm LoE ³ 366/AIR/3mm Bronze	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: AIR (100)	G	0.75	BZ	0.30	0.21	0.37	58
	00005-00001	2 mm LoE ³ 366/ARG/2mm Clear	VY/NA	2	0.022(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.23	0.56	62
	00005-00002	2 mm LoE ³ 366/ARG/2mm Clear	VY/NA	2	0.022(2)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.21	0.50	62
	00005-00003	3 mm LoE ³ 366/ARG/3mm Clear	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.23	0.55	62
	00005-00004	3 mm LoE ³ 366/ARG/3mm Clear	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.21	0.50	62
	00005-00005	2mm Clear/ARG/2 mm LoE ³ 366	VY/NA	2	0.022(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.34	0.56	62
	00005-00006	2mm Clear/ARG/2 mm LoE ³ 366	VY/NA	2	0.022(3)	0.553	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.30	0.50	62
	00005-00007	3mm Clear/ARG/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.26	0.33	0.55	62
	00005-00008	3mm Clear/ARG/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.26	0.30	0.50	62
	00005-00009	3mm Gray/ARG/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.26	0.25	0.38	62
	00005-00010	3mm Gray/ARG/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.26	0.23	0.34	62
	00005-00011	3mm Bronze/ARG/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.26	0.26	0.41	62
	00005-00012	3mm Bronze/ARG/3 mm LoE ³ 366	VY/NA	2	0.022(3)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.26	0.24	0.37	62
	00005-00013	3 mm LoE ³ 366/ARG/3mm Gray	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.26	0.23	0.38	62
	00005-00014	3 mm LoE ³ 366/ARG/3mm Gray	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.26	0.21	0.34	62
	00005-00015	3 mm LoE ³ 366/ARG/3mm Bronze	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.26	0.23	0.41	62
	00005-00016	3 mm LoE ³ 366/ARG/3mm Bronze	VY/NA	2	0.022(2)	0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.26	0.21	0.37	62
	00006-00001	3mm Gray/ARG/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.43	0.52	0.48	47
	00006-00002	3mm Gray/ARG/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.43	0.47	0.43	47
	00006-00003	3mm Bronze/ARG/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.43	0.53	0.53	47

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Street: 287 Free Hill Road **Product Type:** FIXD **Sim. Report #:** NCTL-110-14262-01 **Re-Certification Date:**
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	00006-00004	3mm Bronze/ARG/3mm Clear	VY/NA	2		0.514	SU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.43	0.48	0.47	47

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TNCT	10/19/2011	1200mm X 1500mm	0.300	0.290	NCTL-110-14263-1

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: _____