

NFRC Product Certification Authorization Report



Manufacturer: MGM Industries
Street: 287 Free Hill Road
City/State/Zip: Hendersonville, TN 37075
Print Date: 08/29/2011

Product Series: 8017 Double Hung
Product Type: VSDH
Air Leakage:

Simulation Lab: SNCT
Sim. Report #: NCTL-110-13833-01
Sim. Report Date: 04/06/2011
Test Date: 07/14/2011

Initial Cert. Date: 08/29/2011
Re-Certification Date:
Revised Date: 04/06/2011
Expiration Date: 07/14/2015

CPD Number: MGM-A-25

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	2.5mm CLEAR/AIR/2.5mm CLEAR	VY/VY	2		0.553	CU-D	Fill 1: AIR (100)	N		CL	0.41	0.61	0.63	30
	00001-00002	2.5mm CLEAR/AIR/2.5mm CLEAR	VY/VY	2		0.553	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.41	0.54	0.56	30
	00001-00003	3mm CLEAR/AIR/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: AIR (100)	N		CL	0.41	0.59	0.63	30
	00001-00004	3mm CLEAR/AIR/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.41	0.53	0.56	30
	00001-00005	3mm AFG GRY/AIR/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: AIR (100)	N		GY	0.41	0.46	0.43	30
	00001-00006	3mm AFG GRY/AIR/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: AIR (100)	G	0.75	GY	0.41	0.41	0.38	30
	00001-00007	3mm AFG BRNZ/AIR/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: AIR (100)	N		BZ	0.41	0.48	0.47	30
	00001-00008	3mm AFG BRNZ/AIR/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: AIR (100)	G	0.75	BZ	0.41	0.43	0.42	30
	00002-00001	2.5mm CLEAR/ARG/2.5mm CLEAR	VY/VY	2		0.553	CU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.39	0.61	0.63	31
	00002-00002	2.5mm CLEAR/ARG/2.5mm CLEAR	VY/VY	2		0.553	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.39	0.54	0.56	31
	00002-00003	3mm AFG GRY/ARG/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.39	0.46	0.43	31
	00002-00004	3mm AFG GRY/ARG/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.39	0.41	0.38	31
	00002-00005	3mm AFG BRNZ/ARG/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.39	0.47	0.47	31
	00002-00006	3mm AFG BRNZ/ARG/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.39	0.43	0.42	31
	00002-00007	3mm CLEAR/ARG/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.39	0.59	0.63	31
	00002-00008	3mm CLEAR/ARG/3mm CLEAR	VY/VY	2		0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.39	0.53	0.56	31
	00003-00001	2.5mm CARD-270/AIR/2.5mm CLEAR	VY/VY	2	0.037(2)	0.553	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.29	0.54	34
	00003-00002	2.5mm CARD-270/AIR/2.5mm CLEAR	VY/VY	2	0.037(2)	0.553	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.26	0.48	34
	00003-00003	3mm CARD-270/AIR/3mm CLEAR	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.28	0.53	34
	00003-00004	3mm CARD-270/AIR/3mm CLEAR	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.26	0.47	34
	00003-00005	2.5mm CLEAR/AIR/2.5mm CARD-270	VY/VY	2	0.037(3)	0.553	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.35	0.54	34
	00003-00006	2.5mm CLEAR/AIR/2.5mm CARD-270	VY/VY	2	0.037(3)	0.553	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.32	0.48	34
	00003-00007	3mm CLEAR/AIR/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.35	0.53	34
	00003-00008	3mm CLEAR/AIR/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.31	0.47	34
	00003-00009	3mm CARD-270/AIR/3mm AFG GRY	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: AIR (100)	N		GY	0.28	0.27	0.37	34

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00003-00010	3mm CARD-270/AIR/3mm AFG GRY	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	GY	0.28	0.25	0.33	34
	00003-00011	3mm AFG GRY/AIR/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: AIR (100)	N		GY	0.28	0.27	0.37	34
	00003-00012	3mm AFG GRY/AIR/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	GY	0.28	0.24	0.33	34
	00003-00013	3mm CARD-270/AIR/3mm AFG BRNZ	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: AIR (100)	N		BZ	0.28	0.28	0.40	34
	00003-00014	3mm CARD-270/AIR/3mm AFG BRNZ	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	BZ	0.28	0.25	0.36	34
	00003-00015	3mm AFG BRNZ/AIR/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: AIR (100)	N		BZ	0.28	0.28	0.40	34
	00003-00016	3mm AFG BRNZ/AIR/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	BZ	0.28	0.25	0.36	34
	00004-00001	2.5mm CARD-366/AIR/2.5mm CLEAR	VY/VY	2	0.022(2)	0.553	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.21	0.50	34
	00004-00002	2.5mm CARD-366/AIR/2.5mm CLEAR	VY/VY	2	0.022(2)	0.553	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.19	0.44	34
	00004-00003	3mm CARD-366/AIR/3mm CLEAR	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.21	0.49	34
	00004-00004	3mm CARD-366/AIR/3mm CLEAR	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.19	0.44	34
	00004-00005	2.5mm CLEAR/AIR/2.5mm CARD-366	VY/VY	2	0.022(3)	0.553	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.30	0.50	34
	00004-00006	2.5mm CLEAR/AIR/2.5mm CARD-366	VY/VY	2	0.022(3)	0.553	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.27	0.44	34
	00004-00007	3mm CLEAR/AIR/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: AIR (100)	N		CL	0.28	0.29	0.49	34
	00004-00008	3mm CLEAR/AIR/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	CL	0.28	0.27	0.44	34
	00004-00009	3mm CARD-366/AIR/3mm AFG GRY	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: AIR (100)	N		GY	0.28	0.21	0.34	34
	00004-00010	3mm CARD-366/AIR/3mm AFG GRY	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	GY	0.28	0.19	0.30	34
	00004-00011	3mm AFG GRY/AIR/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: AIR (100)	N		GY	0.28	0.23	0.34	34
	00004-00012	3mm AFG GRY/AIR/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	GY	0.28	0.21	0.30	34
	00004-00013	3mm CARD-366/AIR/3mm AFG BRNZ	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: AIR (100)	N		BZ	0.28	0.21	0.37	34
	00004-00014	3mm CARD-366/AIR/3mm AFG BRNZ	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	BZ	0.28	0.19	0.33	34
	00004-00015	3mm AFG BRNZ/AIR/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: AIR (100)	N		BZ	0.28	0.24	0.37	34
	00004-00016	3mm AFG BRNZ/AIR/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: AIR (100)	G	0.75	BZ	0.28	0.22	0.33	34
	00005-00001	2.5mm CARD-270/ARG/2.5mm CLEAR	VY/VY	2	0.037(2)	0.553	CU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.28	0.54	35
	00005-00002	2.5mm CARD-270/ARG/2.5mm CLEAR	VY/VY	2	0.037(2)	0.553	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.25	0.48	35

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	00005-00003	3mm CARD-270/ARG/3mm CLEAR	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.28	0.53	35
	00005-00004	3mm CARD-270/ARG/3mm CLEAR	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.25	0.47	35
	00005-00005	2.5mm CLEAR/ARG/2.5mm CARD-270	VY/VY	2	0.037(3)	0.553	CU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.36	0.54	35
	00005-00006	2.5mm CLEAR/ARG/2.5mm CARD-270	VY/VY	2	0.037(3)	0.553	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.32	0.48	35
	00005-00007	3mm CLEAR/ARG/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.35	0.53	35
	00005-00008	3mm CLEAR/ARG/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.32	0.47	35
	00005-00009	3mm CARD-270/ARG/3mm AFG GRY	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.25	0.27	0.37	35
	00005-00010	3mm CARD-270/ARG/3mm AFG GRY	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.25	0.25	0.33	35
	00005-00011	3mm AFG GRY/ARG/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.25	0.27	0.37	35
	00005-00012	3mm AFG GRY/ARG/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.25	0.24	0.33	35
	00005-00013	3mm CARD-270/ARG/3mm AFG BRNZ	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.25	0.28	0.40	35
	00005-00014	3mm CARD-270/ARG/3mm AFG BRNZ	VY/VY	2	0.037(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.25	0.25	0.36	35
	00005-00015	3mm AFG BRNZ/ARG/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.25	0.28	0.40	35
	00005-00016	3mm AFG BRNZ/ARG/3mm CARD-270	VY/VY	2	0.037(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.25	0.25	0.36	35
	00006-00001	2.5mm CARD-366/ARG/2.5mm CLEAR	VY/VY	2	0.022(2)	0.553	CU-D	Fill 1: ARG/AIR (95/5)	N		CL	0.25	0.21	0.50	35
	00006-00002	2.5mm CARD-366/ARG/2.5mm CLEAR	VY/VY	2	0.022(2)	0.553	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.19	0.44	35
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	00006-00006	2.5mm CLEAR/ARG/2.5mm CARD-366	VY/VY	2	0.022(3)	0.553	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	CL	0.25	0.27	0.44	35
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	00006-00010	3mm CARD-366/ARG/3mm AFG GRY	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	GY	0.25	0.18	0.30	35
	00006-00011	3mm AFG GRY/ARG/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		GY	0.25	0.23	0.34	35

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	00006-00013	3mm CARD-366/ARG/3mm AFG BRNZ	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.25	0.20	0.37	35
	00006-00014	3mm CARD-366/ARG/3mm AFG BRNZ	VY/VY	2	0.022(2)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.25	0.19	0.33	35
	00006-00015	3mm AFG BRNZ/ARG/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	N		BZ	0.25	0.24	0.37	35
	00006-00016	3mm AFG BRNZ/ARG/3mm CARD-366	VY/VY	2	0.022(3)	0.514	CU-D	Fill 1: ARG/AIR (95/5)	G	0.75	BZ	0.25	0.21	0.33	35

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TNCT	07/14/2011	1200mm x 1498mm	0.290	0.280	NCTL-110-13834-1

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: _____