



Notice of
Certification Authorization Report
 National Fenestration Rating Council

ES Windows LLC

10653 NE Quaybridge Ct.
 Miami, FL 33138, USA

Keystone Certifications, Inc.
 145 Limekiln Rd, Suite 100B
 New Cumberland, PA 17070
 Phone: 717-932-8500

Product Line#:	EWN-K-37
Certification ID#:	10443
Certification Date:	10/11/2017
Revision No:	3
Revision Date:	6/5/2024
Expiration Date:	11/3/2025

Product Line Information

Model / Series:	ES-8000T Window Wall
Operator Type:	GWWW
Frame Type:	AT
Sash Type:	NA

Applicable Test Reports

Validation Report:	FTL-12365
Simulation Report:	12335R3

Ratings Authorized For Certification

Rating	Property	Authorized
NFRC 100	U-factor	Yes
NFRC 200	Solar Heat Gain Coefficient	Yes
	Visible Light	Yes
NFRC 400	Air Leakage	No
NFRC 500	Condensation Resistance	Yes

Corresponding CAR may be downloaded for printing at www.nfrc.org

Due diligence was used in authorizing these products for certification. By accepting this report the licensee agrees to hold harmless and indemnify Keystone Certifications, Inc. from all claims or liabilities which may arise based on this certification authorization. Certification authorization is based on NFRC program requirements and simulation and test reports from accredited laboratories.

This Certification Authorization Report is issued by Keystone Certifications, Inc. (KCI), an NFRC-Licensed Inspection Agency (IA), after a full review and validation in accordance with strict NFRC requirements and the standards referenced herein and is based on the standardized evaluation and rating of the product line by independent NFRC-Accredited Testing and Simulation Laboratories. Actual performance of products may vary based on many factors including, but not limited to, installation, site-conditions, age of product and use of non-evaluated components.

This authorization indicates that the product ratings for products included in this product line are valid and that these products are eligible for the application of NFRC Temporary and Permanent Labels. The Licensee stipulates in affixing certification labels to the individual products, that those specific products are representative of products that have been evaluated by KCI. Only products bearing such a certification label shall be considered certified. The information in this report can be verified at www.keystonecerts.com. Fenestration products are not NFRC Certified unless manufactured and labeled in accordance with the current version of NFRC-700, Product Certification Program requirements.



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Revision History

Rev #	Date	Description
0	10/11/2017	Initial Issuance.
1	4/15/2024	Added options 21-22, removed three grouped options from option 15.
2	5/30/2024	Added option 23.
3	6/5/2024	Removed option 00015-00002 because it was a duplicate of a new, separately modeled option.

NFRC Product Certification Authorization Report



Manufacturer: ESWindows LLC **Product Series:** ES-8000T Window Wall **Simulation Lab:** SFTL **Initial Cert. Date:** 10/11/2017
Street: 10653 NE Quaybridge Court **Product Type:** GWWW **Sim. Report #:** 12335R3 **Re-Certification Date:** 02/19/2021
City/State/Zip: Miami, FL 33188 **Air Leakage:** **Sim. Report Date:** 09/24/2020 **Revised Date:** 04/29/2024
Print Date: 06/05/2024 **Test Date:** 11/03/2020 **Expiration Date:** 11/03/2025

CPD Number: EWN-K-37															IA: Keystone Certifications, Inc.
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
	00015-00001	1/4 Clear - AIR-1/4 Gray -090 SGP - 1/4 SB70	AT/NA	2		0.375	A1-D	Fill 1: AIR(100)	N		CL	0.55	0.43	0.22	40
	00016-00001	1/4 SB60 - AIR - 1/4 Clear - 090 SGP - 1/4 Clear	AT/NA	2	0.035(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.43	0.34	0.56	44
	00016-00002	1/4 SB60 - AIR - 1/4 Gray - 090 PVB - 1/4 Clear	AT/NA	2	0.035(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.43	0.31	0.28	44
	00016-00003	1/4 SB60 gray- AIR - 1/4 Clear - 090 PVB - 1/4 Clear	AT/NA	2	0.035(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.43	0.27	0.40	44
	00017-00001	1/4 Clear - AIR - 1/4 Clear - 090 PVB - 1/4 Clear	AT/NA	2		0.375	A1-D	Fill 1: AIR(100)	N		CL	0.55	0.56	0.64	40
	00017-00002	1/4 Gray - AIR - 1/4 Clear - 090 PVB - 1/4 Clear	AT/NA	2		0.375	A1-D	Fill 1: AIR(100)	N		CL	0.55	0.37	0.32	40
	00017-00003	1/4 Bronze - AIR - 1/4 Clear - 090 PVB - 1/4 Clear	AT/NA	2		0.375	A1-D	Fill 1: AIR(100)	N		CL	0.55	0.41	0.38	40
	00018-00001	1/4 SBz75 - AIR - 1/4 Clear - 090 PVB - 1/4 Clear	AT/NA	2	0.018(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.42	0.22	0.39	47
	00019-00001	1/4 SB70 - 090 PVB-1/4 clear- AIR - 1/4 EA Low E	AT/NA	2	0.157(4)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.45	0.21	0.42	30
	00020-00001	1/4 SB70 Clear- AIR - 1/4 Clear	AT/NA	2	0.018(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.43	0.22	0.40	46
	00021-00001	1/4 SB70 - AIR - 1/4 clear -090 PVB- 1/4 clear	AT/NA	2	0.018(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.42	0.24	0.52	46
	00021-00002	1/4 SB70 gray - AIR - 1/4 Clear - 090 PVB - 1/4 Clear	AT/NA	2	0.018(2)	0.375	A1-D	Fill 1: AIR(100)	N		GY	0.42	0.17	0.26	46
	00021-00003	1/4 SB70 - AIR - 1/4 Gray - 090 PVB- 1/4 Clear	AT/NA	2	0.018(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.42	0.22	0.26	46
	00022-00001	1/4 SB70 Gray- ARG - 1/4 Clear	AT/NA	2	0.018(2)	0.375	A1-D	Fill 1: ARG(90/10)	N		GY	0.38	0.20	0.38	46
	00023-00001	1/4 SB70 - AIR - 1/4 Clear - 090 SGP - 1/4 Clear	AT/NA	2	0.018(2)	0.375	A1-D	Fill 1: AIR(100)	N		CL	0.42	0.24	0.51	47

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TFTL	11/03/2020	2000 mm x 2000 mm	0.484	0.453	12365

Comments: 100% Air, 90% Argon.

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: _____