



KEYSTONE CERTIFICATIONS, INC.
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 NEW CUMBERLAND, PA 17070
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Notice of Product Certification Authorization

National Fenestration Rating Council

Issued To:

Manufacturer: ES Windows LLC

Address: Avenida Circunvalar a 100 mts de la via 40, Barri
 Barranquilla,
 Colombia

Man'f Code EWN

Cert Date: 3/23/2017

Certification Number

10207

Product Line Number

EWN - K - 024

Revision Date

1/15/2021

The Following NFRC Product Line Has Been Authorized For Certification:

Model / Series: ES-45T/46T Outswing Entrance Door

Operator Type: EDSL

Frame Type: AT

Sash Type: AT

Exp. Date: 10/25/2025

Ratings Authorized For Certification:

Rating	Property	Authorized
NFRC 100	U-factor	<input checked="" type="checkbox"/>
NFRC 200	Solar Heat Gain Coefficient	<input checked="" type="checkbox"/>
NFRC 200	Visible Light	<input checked="" type="checkbox"/>
NFRC 400	Air Leakage	<input type="checkbox"/>
NFRC 500	Condensation Resistance	<input checked="" type="checkbox"/>

Fenestration products are not NFRC Certified unless manufactured and labeled in accordance with the current version of NFRC-700, Product Certification Program requirements.

This is a cover sheet for an NFRC Certification Authorization Report (CAR)

the corresponding CAR may be downloaded for printing at www.nfrc.org.

The manufacturer is authorized to label the options listed in the corresponding CAR.

Please notify Keystone of any errors or omissions within 10 days of receipt.

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.

NFRC Product Certification Authorization Report



Manufacturer: ESWindows LLC **Product Series:** ES-45T/46T Outswing Entrance Door **Simulation Lab:** SFTL **Initial Cert. Date:** 03/23/2017
Street: 10653 NE Quaybridge Court **Product Type:** EDL **Sim. Report #:** 12339 **Re-Certification Date:** 01/15/2021
City/State/Zip: Miami, FL 33188 **Air Leakage:** **Sim. Report Date:** 10/08/2020 **Revised Date:** 10/08/2020
Print Date: 01/15/2021 **Test Date:** 10/28/2020 **Expiration Date:** 10/28/2025

CPD Number: EWN-K-24															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00007-00001	1/4 clear - AIR - 3/16 clear - 060 PVB - 3/16 clear	AT/AT	2		0.500	A1-D	Fill 1: AIR(100)	N		CL	0.54	0.47	0.51	43	
	00007-00002	1/4 clear - AIR - 3/16 clear - 090 PVB - 3/16 clear	AT/AT	2		0.500	A1-D	Fill 1: AIR(100)	N		CL	0.54	0.47	0.51	43	
	00007-00003	1/4 gray - AIR - 3/16 clear - 090 PVB - 3/16 clear	AT/AT	2		0.500	A1-D	Fill 1: AIR(100)	N		GY	0.54	0.31	0.25	43	
	00007-00004	1/4 bronze - AIR - 3/16 clear - 090 PVB - 3/16 clear	AT/AT	2		0.500	A1-D	Fill 1: AIR(100)	N		BZ	0.54	0.35	0.30	43	
	00007-00005	1/4 gray - AIR - 3/16 clear - 060 PVB - 3/16 clear	AT/AT	2		0.500	A1-D	Fill 1: AIR(100)	N		GY	0.54	0.32	0.25	43	
	00007-00006	1/4 bronze - AIR - 3/16 clear - 060 PVB - 3/16 clear	AT/AT	2		0.500	A1-D	Fill 1: AIR(100)	N		BZ	0.54	0.35	0.30	43	
	00008-00001	1/4 SB60 - AIR - 3/16 clear - 060 PVB - 3/16 clear	AT/AT	2	0.035(2)	0.500	A1-D	Fill 1: AIR(100)	N		CL	0.44	0.28	0.45	47	
	00008-00002	1/4 SB60 - AIR - 3/16 clear - 060 PVB - 3/16 gray	AT/AT	2	0.035(2)	0.500	A1-D	Fill 1: AIR(100)	N		GY	0.44	0.27	0.25	47	
	00008-00003	1/4 SB60 gray- AIR - 3/16 clear - 090 SGP - 3/16 clear	AT/AT	2	0.035(2)	0.500	A1-D	Fill 1: AIR(100)	N		GY	0.44	0.19	0.22	47	
	00008-00004	1/4 SB60- AIR - 3/16 clear - 090 PVB - 3/16 clear	AT/AT	2	0.035(2)	0.500	A1-D	Fill 1: AIR(100)	N		CL	0.44	0.28	0.45	47	
	00008-00005	1/4 SB60- AIR - 3/16 clear - 090 PVB - 3/16 gray	AT/AT	2	0.035(2)	0.500	A1-D	Fill 1: AIR(100)	N		GY	0.44	0.27	0.26	47	
	00009-00001	1/4 SB70- AIR - 3/16 clear - 060 PVB - 3/16 clear	AT/AT	2	0.018(2)	0.500	A1-D	Fill 1: AIR(100)	N		CL	0.43	0.21	0.41	47	
	00009-00002	1/4 SB70- AIR - 3/16 clear - 060 PVB - 3/16 gray	AT/AT	2	0.018(2)	0.500	A1-D	Fill 1: AIR(100)	N		GY	0.43	0.20	0.23	47	
	00009-00003	1/4 SB70 gray- AIR - 3/16 clear - 090 SGP - 3/16 clear	AT/AT	2	0.018(2)	0.500	A1-D	Fill 1: AIR(100)	N		GY	0.43	0.19	0.30	47	
	00009-00004	1/4 SB70- AIR - 3/16 clear - 090 PVB - 3/16 clear	AT/AT	2	0.018(2)	0.500	A1-D	Fill 1: AIR(100)	N		CL	0.43	0.21	0.41	47	
	00009-00005	1/4 SB70- AIR - 3/16 clear - 090 PVB - 3/16 gray	AT/AT	2	0.018(2)	0.500	A1-D	Fill 1: AIR(100)	N		GY	0.43	0.20	0.23	47	
	00010-00001	1/4 SB70- AIR - 1/4 clear	AT/AT	2	0.018(2)	0.500	A1-D	Fill 1: AIR(100)	N		CL	0.44	0.21	0.42	47	

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	00011-00001	1/4 SB60- AIR - 3/16 clear - 060 PVB-3/16 EA low E	AT/AT	2	0.035(2), 0.158(4)	0.500	A1-D	Fill 1: AIR(100)	N		CL	0.39	0.20	0.38	41

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TFTL	10/28/2020	990mm x 2006 mm	0.417	0.394	12379

Comments: 100% Air

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: _____