



Notice of
Certification Authorization Report
National Fenestration Rating Council

EKO-OKNA S.A.

Spacerowa 4

Pietrowice Wielkie, Kornice 47-480, Poland

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

Product Line#:	EKO-K-1
Certification ID#:	11188
Certification Date:	10/23/2019
Revision No:	1
Revision Date:	3/9/2023
Expiration Date:	3/29/2027

Product Line Information

Model / Series:	IDEAL 4000 Tilt and Turn Window
Operator Type:	DATT
Frame Type:	VR
Sash Type:	VR

Applicable Test Reports

Validation Report:	N4730.01-116-46
Simulation Report:	N4731.01-116-45-R1
Air Leakage Report:	FTL-10507

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	Yes
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	10/23/2019	Initial Issuance.
1	3/9/2023	Recertification.

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023

Print Date: 03/09/2023

Test Date: 03/29/2022

Expiration Date: 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res
	00005-00001	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.28	0.42	0.55	63
	00005-00002	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.28	0.38	0.49	63
	00005-00003	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.28	0.34	0.43	63
	00006-00001	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.38	0.49	63
	00006-00002	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.34	0.43	63
	00007-00001	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	A1-D	Fill 1: ARG(90/10)	N		CL	0.29	0.42	0.55	58
	00007-00002	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	A1-D	Fill 1: ARG(90/10)	G	0.75	CL	0.29	0.38	0.49	58
	00007-00003	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	A1-D	Fill 1: ARG(90/10)	G	1.50	CL	0.29	0.34	0.43	58
	00008-00001	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	A1-D	Fill 1: ARG(90/10)	S	0.75	CL	0.29	0.38	0.49	58
	00008-00002	4/16Ar/4th: PLANICLEAR / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	A1-D	Fill 1: ARG(90/10)	S	1.50	CL	0.29	0.34	0.43	58
	00009-00001	4/16Ar/4th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.039(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.43	0.55	64

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.											
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00009-00002	4/16Ar/4th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.039(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.38	0.49	64	
	00009-00003	4/16Ar/4th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.039(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.34	0.43	64	
	00010-00001	4/16Ar/4th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.039(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.38	0.49	64	
	00010-00002	4/16Ar/4th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.039(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.34	0.43	64	
	00011-00001	4/16Ar/4th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.43	0.55	63	
	00011-00002	4/16Ar/4th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.38	0.49	63	
	00011-00003	4/16Ar/4th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.34	0.43	63	
	00012-00001	4/16Ar/4th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.38	0.49	63	
	00012-00002	4/16Ar/4th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.34	0.43	63	
	00013-00001	4/16Ar/4th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.041(3)	0.630	A1-D	Fill 1: ARG(90/10)	N		CL	0.28	0.43	0.55	59	
	00013-00002	4/16Ar/4th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.041(3)	0.630	A1-D	Fill 1: ARG(90/10)	G	0.75	CL	0.28	0.39	0.49	59	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00013-00003	4/16Ar/4th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.041(3)	0.630	A1-D	Fill 1: ARG(90/10)	G	1.50	CL	0.28	0.34	0.43	59	
	00014-00001	4/16Ar/4th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.041(3)	0.630	A1-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.39	0.49	59	
	00014-00002	4/16Ar/4th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.041(3)	0.630	A1-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.34	0.43	59	
	00015-00001	4/16Ar/4one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.03(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.34	0.48	64	
	00015-00002	4/16Ar/4one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.03(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.30	0.43	64	
	00015-00003	4/16Ar/4one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.03(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.27	0.37	64	
	00016-00001	4/16Ar/4one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.03(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.30	0.43	64	
	00016-00002	4/16Ar/4one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.03(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.27	0.37	64	
	00017-00001	4/16Ar/4one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.34	0.51	64	
	00017-00002	4/16Ar/4one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.30	0.45	64	
	00017-00003	4/16Ar/4one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.27	0.40	64	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.										
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.
	00018-00001	4/16Ar/4one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.30	0.45	64
	00018-00002	4/16Ar/4one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.27	0.40	64
	00019-00001	4/16Ar/4one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.048(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.35	0.48	64
	00019-00002	4/16Ar/4one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.048(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.31	0.43	64
	00019-00003	4/16Ar/4one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.048(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.27	0.37	64
	00020-00001	4/16Ar/4one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.048(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.31	0.43	64
	00020-00002	4/16Ar/4one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.048(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.27	0.37	64
	00021-00001	4/16Ar/4one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.34	0.51	64
	00021-00002	4/16Ar/4one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.31	0.45	64
	00021-00003	4/16Ar/4one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.27	0.40	64
	00022-00001	4/16Ar/4one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.31	0.45	64

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
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CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00022-00002	4/16Ar/4one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.027(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.27	0.40	64
	00023-00001	4 Cool-Lite SKN 165/16Ar/4: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.019(2)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.22	0.42	64
	00023-00002	4 Cool-Lite SKN 165/16Ar/4: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.019(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.20	0.37	64
	00023-00003	4 Cool-Lite SKN 165/16Ar/4: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.019(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.17	0.32	64
	00024-00001	4 Cool-Lite SKN 165/16Ar/4: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.019(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.20	0.37	64
	00024-00002	4 Cool-Lite SKN 165/16Ar/4: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.019(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.17	0.32	64
	00025-00001	4 Cool-Lite SKN 165/16Ar/4 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.22	0.42	64
	00025-00002	4 Cool-Lite SKN 165/16Ar/4 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.19	0.37	64
	00025-00003	4 Cool-Lite SKN 165/16Ar/4 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.17	0.32	64
	00026-00001	4 Cool-Lite SKN 165/16Ar/4 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.19	0.37	64
	00026-00002	4 Cool-Lite SKN 165/16Ar/4 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (4MM/4MM) - 24MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.17	0.32	64

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
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CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00027-00001	4 Stopsol Grey/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		GY	0.28	0.17	0.15	63
	00027-00002	4 Stopsol Grey/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	GY	0.28	0.15	0.13	63
	00027-00003	4 Stopsol Grey/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	GY	0.28	0.14	0.11	63
	00028-00001	4 Stopsol Grey/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	GY	0.28	0.15	0.13	63
	00028-00002	4 Stopsol Grey/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	GY	0.28	0.14	0.11	63
	00029-00001	4 Stopsol Grey/16Ar/4th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		GY	0.28	0.17	0.15	63
	00029-00002	4 Stopsol Grey/16Ar/4th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	GY	0.28	0.15	0.13	63
	00029-00003	4 Stopsol Grey/16Ar/4th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	GY	0.28	0.14	0.11	63
	00030-00001	4 Stopsol Grey/16Ar/4th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	GY	0.28	0.15	0.13	63
	00030-00002	4 Stopsol Grey/16Ar/4th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	GY	0.28	0.14	0.11	63
	00031-00001	4 Stopsol Bronze/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		BZ	0.28	0.18	0.17	63

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00031-00002	4 Stopsol Bronze/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	BZ	0.28	0.16	0.15	63
	00031-00003	4 Stopsol Bronze/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	BZ	0.28	0.15	0.13	63
	00032-00001	4 Stopsol Bronze/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	BZ	0.28	0.16	0.15	63
	00032-00002	4 Stopsol Bronze/16Ar/4th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	BZ	0.28	0.15	0.13	63
	00033-00001	4 Stopsol Bronze/16Ar/4th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		BZ	0.28	0.18	0.16	63
	00033-00002	4 Stopsol Bronze/16Ar/4th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	BZ	0.28	0.17	0.15	63
	00033-00003	4 Stopsol Bronze/16Ar/4th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	BZ	0.28	0.15	0.13	63
	00034-00001	4 Stopsol Bronze/16Ar/4th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	BZ	0.28	0.17	0.15	63
	00034-00002	4 Stopsol Bronze/16Ar/4th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (4MM/4MM) - 24MM IG	VR/VR	2	0.051(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	BZ	0.28	0.15	0.13	63
	00035-00001	6/12Ar/6th: PLANICLEAR / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.42	0.55	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00036-00001	6/12Ar/6th: PLANICLEAR / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.30	0.37	0.48	62	
	00036-00002	6/12Ar/6th: PLANICLEAR / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.30	0.33	0.42	62	
	00037-00001	6/12Ar/6th: PLANICLEAR / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.29	0.37	0.48	62	
	00037-00002	6/12Ar/6th: PLANICLEAR / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.29	0.33	0.42	62	
	00038-00001	6/12Ar/6th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.039(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.42	0.55	62	
	00039-00001	6/12Ar/6th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.039(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.30	0.37	0.48	62	
	00039-00002	6/12Ar/6th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.039(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.30	0.33	0.42	62	
	00040-00001	6/12Ar/6th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.039(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.29	0.37	0.48	62	
	00040-00002	6/12Ar/6th: ExtraClear / ARG / ClimaGuard Premium2 (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.039(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.29	0.33	0.42	62	
	00041-00001	6/12Ar/6th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.42	0.54	62	
	00042-00001	6/12Ar/6th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.30	0.37	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00042-00002	6/12Ar/6th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.30	0.33	0.42	62
	00043-00001	6/12Ar/6th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.29	0.37	0.48	62
	00043-00002	6/12Ar/6th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.29	0.33	0.42	62
	00044-00001	6/12Ar/6th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.041(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.42	0.55	62
	00045-00001	6/12Ar/6th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.041(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.30	0.38	0.48	62
	00045-00002	6/12Ar/6th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.041(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.30	0.33	0.42	62
	00046-00001	6/12Ar/6th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.041(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.29	0.38	0.48	62
	00046-00002	6/12Ar/6th - ESG: ExtraClear / ARG / ClimaGuard Premium2 T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.041(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.29	0.33	0.42	62
	00047-00001	6/12Ar/6one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.03(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.33	0.48	62
	00048-00001	6/12Ar/6one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.03(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.29	0.30	0.42	62
	00048-00002	6/12Ar/6one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.03(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.29	0.26	0.37	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00049-00001	6/12Ar/6one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.03(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.30	0.42	62
	00049-00002	6/12Ar/6one: PLANICLEAR / ARG / PLANITHERM ONE (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.03(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.26	0.37	62
	00050-00001	6/12Ar/6one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.029(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.33	0.51	62
	00051-00001	6/12Ar/6one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.029(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.29	0.30	0.45	62
	00051-00002	6/12Ar/6one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.029(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.29	0.27	0.39	62
	00052-00001	6/12Ar/6one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.029(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.30	0.45	62
	00052-00002	6/12Ar/6one: ExtraClear / ARG / ClimaGuard 1.0+ (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.029(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.27	0.39	62
	00053-00001	6/12Ar/6one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.048(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.34	0.48	62
	00054-00001	6/12Ar/6one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.048(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.30	0.30	0.42	62
	00054-00002	6/12Ar/6one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.048(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.30	0.27	0.37	62
	00055-00001	6/12Ar/6one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.048(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.29	0.30	0.42	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.											
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00055-00002	6/12Ar/6one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.048(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.29	0.27	0.37	62	
	00056-00001	6/12Ar/6one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.027(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.34	0.51	62	
	00057-00001	6/12Ar/6one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.027(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.29	0.30	0.45	62	
	00057-00002	6/12Ar/6one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.027(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.29	0.27	0.39	62	
	00058-00001	6/12Ar/6one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.027(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.30	0.45	62	
	00058-00002	6/12Ar/6one - ESG: ExtraClear / ARG / ClimaGuard 1.0+ T (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.027(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.27	0.39	62	
	00059-00001	6 Cool-Lite SKN 165/12Ar/6: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.019(2)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.22	0.41	62	
	00060-00001	6 Cool-Lite SKN 165/12Ar/6: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.019(2)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.29	0.20	0.36	62	
	00060-00002	6 Cool-Lite SKN 165/12Ar/6: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.019(2)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.29	0.18	0.32	62	
	00061-00001	6 Cool-Lite SKN 165/12Ar/6: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.019(2)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.20	0.36	62	
	00061-00002	6 Cool-Lite SKN 165/12Ar/6: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.019(2)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.18	0.32	62	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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
	00062-00001	6 Cool-Lite SKN 165/12Ar/6 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.027(2)	0.472	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.22	0.41	62
	00063-00001	6 Cool-Lite SKN 165/12Ar/6 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.027(2)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.29	0.19	0.36	62
	00063-00002	6 Cool-Lite SKN 165/12Ar/6 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.027(2)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.29	0.17	0.32	62
	00064-00001	6 Cool-Lite SKN 165/12Ar/6 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.027(2)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.19	0.36	62
	00064-00002	6 Cool-Lite SKN 165/12Ar/6 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (6MM/6MM) - 24MM IG	VR/VR	2	0.027(2)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.17	0.32	62
	00065-00001	6 Stopsol Grey/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		GY	0.27	0.14	0.11	62
	00066-00001	6 Stopsol Grey/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	GY	0.30	0.13	0.10	62
	00066-00002	6 Stopsol Grey/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	GY	0.30	0.12	0.09	62
	00067-00001	6 Stopsol Grey/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	GY	0.29	0.13	0.10	62
	00067-00002	6 Stopsol Grey/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	GY	0.29	0.12	0.09	62
	00068-00001	6 Stopsol Grey/12Ar/6th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		GY	0.27	0.14	0.11	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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
	00069-00001	6 Stopsol Grey/12Ar/6th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	GY	0.30	0.13	0.10	62
	00069-00002	6 Stopsol Grey/12Ar/6th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	GY	0.30	0.12	0.09	62
	00070-00001	6 Stopsol Grey/12Ar/6th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	GY	0.29	0.13	0.10	62
	00070-00002	6 Stopsol Grey/12Ar/6th - ESG: STOPSOL GREY / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	GY	0.29	0.12	0.09	62
	00071-00001	6 Stopsol Bronze/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		BZ	0.27	0.16	0.13	62
	00072-00001	6 Stopsol Bronze/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	BZ	0.30	0.14	0.12	62
	00072-00002	6 Stopsol Bronze/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	BZ	0.30	0.13	0.10	62
	00073-00001	6 Stopsol Bronze/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	BZ	0.29	0.14	0.12	62
	00073-00002	6 Stopsol Bronze/12Ar/6th: STOPSOL GREY / ARG / PLANITHERM XN (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.054(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	BZ	0.29	0.13	0.10	62
	00074-00001	6 Stopsol Bronze/12Ar/6th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	N		BZ	0.27	0.16	0.13	62
	00075-00001	6 Stopsol Bronze/12Ar/6th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	0.75	BZ	0.30	0.14	0.12	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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	
	00075-00002	6 Stopsol Bronze/12Ar/6th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	G	1.50	BZ	0.30	0.13	0.10	62	
	00076-00001	6 Stopsol Bronze/12Ar/6th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	0.75	BZ	0.29	0.14	0.12	62	
	00076-00002	6 Stopsol Bronze/12Ar/6th - ESG: STOPSOL BRONZE / ARG / PLANITHERM XN II (#3) (6MM/6MM) - 24MM IG	VR/VR	2	0.051(3)	0.472	TP-D	Fill 1: ARG(90/10)	S	1.50	BZ	0.29	0.13	0.10	62	
	00077-00001	8/16Ar/8th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.052(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.41	0.54	63	
	00077-00002	8/16Ar/8th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.052(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.37	0.47	63	
	00077-00003	8/16Ar/8th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.052(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.32	0.42	63	
	00078-00001	8/16Ar/8th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.052(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.37	0.47	63	
	00078-00002	8/16Ar/8th - ESG: PLANICLEAR / ARG / PLANITHERM XN II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.052(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.32	0.42	63	
	00079-00001	8/16Ar/8one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.049(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.33	0.47	63	
	00079-00002	8/16Ar/8one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.049(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.30	0.42	63	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.											
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	
	00079-00003	8/16Ar/8one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.049(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.27	0.36	63	
	00080-00001	8/16Ar/8one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.049(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.30	0.42	63	
	00080-00002	8/16Ar/8one - ESG: PLANICLEAR / ARG / PLANITHERM ONE II (#3) (8MM/8MM) - 32MM IG	VR/VR	2	0.049(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.27	0.36	63	
	00081-00001	8 Cool-Lite SKN 165/16Ar/8 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (8MM/8MM) - 32MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.21	0.41	63	
	00081-00002	8 Cool-Lite SKN 165/16Ar/8 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (8MM/8MM) - 32MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.19	0.36	63	
	00081-00003	8 Cool-Lite SKN 165/16Ar/8 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (8MM/8MM) - 32MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.17	0.32	63	
	00082-00001	8 Cool-Lite SKN 165/16Ar/8 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (8MM/8MM) - 32MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.19	0.36	63	
	00082-00002	8 Cool-Lite SKN 165/16Ar/8 - ESG: COOL-LITE SKN 165 II (#2) / ARG / PLANICLEAR (8MM/8MM) - 32MM IG	VR/VR	2	0.027(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.17	0.32	63	
	00083-00001	44.2 Si/20Ar/6th: LAMI / ARG / PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.28	0.39	0.54	62	
	00083-00002	44.2 Si/20Ar/6th: LAMI / ARG / PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.28	0.35	0.48	62	
	00083-00003	44.2 Si/20Ar/6th: LAMI / ARG / PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.28	0.31	0.42	62	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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
	00083-00004	44.2 Si/20Ar/6th: LAMI / ARG / PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.35	0.48	62
	00083-00005	44.2 Si/20Ar/6th: LAMI / ARG / PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.31	0.42	62
	00084-00001	44.2 Si/20Ar/6th - ESG: LAMI / ARG / PLANITHERM XN II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.051(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.28	0.40	0.54	62
	00084-00002	44.2 Si/20Ar/6th - ESG: LAMI / ARG / PLANITHERM XN II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.051(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.28	0.35	0.47	62
	00084-00003	44.2 Si/20Ar/6th - ESG: LAMI / ARG / PLANITHERM XN II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.051(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.28	0.31	0.42	62
	00084-00004	44.2 Si/20Ar/6th - ESG: LAMI / ARG / PLANITHERM XN II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.051(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.35	0.47	62
	00084-00005	44.2 Si/20Ar/6th - ESG: LAMI / ARG / PLANITHERM XN II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.051(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.31	0.42	62
	00085-00001	44.2 Si/20Ar/6one: LAMI / ARG / PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.32	0.47	62
	00085-00002	44.2 Si/20Ar/6one: LAMI / ARG / PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.29	0.41	62
	00085-00003	44.2 Si/20Ar/6one: LAMI / ARG / PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.25	0.36	62
	00085-00004	44.2 Si/20Ar/6one: LAMI / ARG / PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.29	0.41	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00085-00005	44.2 Si/20Ar/6one: LAMI / ARG / PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.25	0.36	62
	00086-00001	44.2 Si/20Ar/6one - ESG: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.28	0.32	0.47	62
	00086-00002	44.2 Si/20Ar/6one - ESG: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.28	0.29	0.41	62
	00086-00003	44.2 Si/20Ar/6one - ESG: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.28	0.26	0.36	62
	00086-00004	44.2 Si/20Ar/6one - ESG: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.29	0.41	62
	00086-00005	44.2 Si/20Ar/6one - ESG: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.26	0.36	62
	00087-00001	44.2 Si Cool-Lite SKN 165/20Ar/6: LAMI-SKN 165 (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.21	0.41	62
	00087-00002	44.2 Si Cool-Lite SKN 165/20Ar/6: LAMI-SKN 165 (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.19	0.36	62
	00087-00003	44.2 Si Cool-Lite SKN 165/20Ar/6: LAMI-SKN 165 (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.17	0.32	62
	00087-00004	44.2 Si Cool-Lite SKN 165/20Ar/6: LAMI-SKN 165 (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.19	0.36	62
	00087-00005	44.2 Si Cool-Lite SKN 165/20Ar/6: LAMI-SKN 165 (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.17	0.32	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00088-00001	44.2 Si Cool-Lite SKN 165/20Ar/6 - ESG: LAMI-SKN 165 II (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.027(2)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.21	0.41	62
	00088-00002	44.2 Si Cool-Lite SKN 165/20Ar/6 - ESG: LAMI-SKN 165 II (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.027(2)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.19	0.36	62
	00088-00003	44.2 Si Cool-Lite SKN 165/20Ar/6 - ESG: LAMI-SKN 165 II (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.027(2)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.17	0.32	62
	00088-00004	44.2 Si Cool-Lite SKN 165/20Ar/6 - ESG: LAMI-SKN 165 II (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.027(2)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.19	0.36	62
	00088-00005	44.2 Si Cool-Lite SKN 165/20Ar/6 - ESG: LAMI-SKN 165 II (#2) / ARG / PLANICLEAR (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.027(2)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.17	0.32	62
	00089-00001	44.2 Si Stopsol Grey/20Ar/6th: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		GY	0.28	0.14	0.13	62
	00089-00002	44.2 Si Stopsol Grey/20Ar/6th: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	GY	0.28	0.12	0.11	62
	00089-00003	44.2 Si Stopsol Grey/20Ar/6th: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	GY	0.28	0.11	0.10	62
	00089-00004	44.2 Si Stopsol Grey/20Ar/6th: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	GY	0.28	0.12	0.11	62
	00089-00005	44.2 Si Stopsol Grey/20Ar/6th: LAMI / ARG / PLANITHERM ONE II (#3) (4MM 076PVB 4MM/6MM) - 34.76MM IG	VR/VR	2	0.048(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	GY	0.28	0.11	0.10	62

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00090-00001	33.1/18Ar/33.1th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.054(3)	0.709	TP-D	Fill 1: ARG(90/10)	N		CL	0.28	0.41	0.55	64	
	00090-00002	33.1/18Ar/33.1th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.054(3)	0.709	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.28	0.36	0.48	64	
	00090-00003	33.1/18Ar/33.1th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.054(3)	0.709	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.28	0.32	0.42	64	
	00090-00004	33.1/18Ar/33.1th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.054(3)	0.709	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.36	0.48	64	
	00090-00005	33.1/18Ar/33.1th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.054(3)	0.709	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.32	0.42	64	
	00091-00001	33.1/18Ar/33.1one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.029(3)	0.709	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.33	0.47	65	
	00091-00002	33.1/18Ar/33.1one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.029(3)	0.709	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.29	0.42	65	
	00091-00003	33.1/18Ar/33.1one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.029(3)	0.709	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.26	0.37	65	
	00091-00004	33.1/18Ar/33.1one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.029(3)	0.709	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.29	0.42	65	
	00091-00005	33.1/18Ar/33.1one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (3MM 038PVB 3MM/3MM 038PVB 3MM) - 30.76MM IG	VR/VR	2	0.029(3)	0.709	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.26	0.37	65	
	00092-00001	44.2/14Ar/44.2th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.054(3)	0.551	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.39	0.53	63	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00092-00002	44.2/14Ar/44.2th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.054(3)	0.551	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.35	0.47	63	
	00092-00003	44.2/14Ar/44.2th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.054(3)	0.551	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.31	0.41	63	
	00093-00001	44.2/14Ar/44.2th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.054(3)	0.551	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.28	0.35	0.47	63	
	00093-00002	44.2/14Ar/44.2th: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.054(3)	0.551	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.28	0.31	0.41	63	
	00094-00001	44.2/14Ar/44.2one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.03(3)	0.551	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.32	0.46	64	
	00094-00002	44.2/14Ar/44.2one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.03(3)	0.551	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.26	0.28	0.41	64	
	00094-00003	44.2/14Ar/44.2one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.03(3)	0.551	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.26	0.25	0.36	64	
	00095-00001	44.2/14Ar/44.2one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.03(3)	0.551	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.28	0.41	64	
	00095-00002	44.2/14Ar/44.2one: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.03(3)	0.551	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.25	0.36	64	
	00096-00001	44.2 Cool-Lite SKN 165/14Ar/44.2one: LAMI-SKN 165 (#2) / ARG / LAMI (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.019(2)	0.551	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.21	0.40	64	
	00096-00002	44.2 Cool-Lite SKN 165/14Ar/44.2one: LAMI-SKN 165 (#2) / ARG / LAMI (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.019(2)	0.551	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.26	0.19	0.35	64	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00096-00003	44.2 Cool-Lite SKN 165/14Ar/44.2one: LAMI-SKN 165 (#2) / ARG / LAMI (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.019(2)	0.551	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.26	0.17	0.31	64
	00097-00001	44.2 Cool-Lite SKN 165/14Ar/44.2one: LAMI-SKN 165 (#2) / ARG / LAMI (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.019(2)	0.551	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.19	0.35	64
	00097-00002	44.2 Cool-Lite SKN 165/14Ar/44.2one: LAMI-SKN 165 (#2) / ARG / LAMI (4MM 076PVB 4MM/4MM 076PVB 4MM) - 31.52MM IG	VR/VR	2	0.019(2)	0.551	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.17	0.31	64
	00098-00001	44.2 Si/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.39	0.52	63
	00098-00002	44.2 Si/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.35	0.46	63
	00098-00003	44.2 Si/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.31	0.41	63
	00098-00004	44.2 Si/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.35	0.46	63
	00098-00005	44.2 Si/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM XN (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.31	0.41	63
	00099-00001	44.2 Si/20Ar/66.2one Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.32	0.46	63

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00099-00002	44.2 Si/20Ar/66.2one Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.28	0.40	63
	00099-00003	44.2 Si/20Ar/66.2one Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.25	0.35	63
	00099-00004	44.2 Si/20Ar/66.2one Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.28	0.40	63
	00099-00005	44.2 Si/20Ar/66.2one Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.03(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.25	0.35	63
	00100-00001	44.2 Si Cool-Lite SKN 165/20Ar/66.2 Si: LAMI-SKN 165 (#2) / ARG / LAMI-PLANICLEAR (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM I	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.21	0.40	63
	00100-00002	44.2 Si Cool-Lite SKN 165/20Ar/66.2 Si: LAMI-SKN 165 (#2) / ARG / LAMI-PLANICLEAR (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM I	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.19	0.35	63
	00100-00003	44.2 Si Cool-Lite SKN 165/20Ar/66.2 Si: LAMI-SKN 165 (#2) / ARG / LAMI-PLANICLEAR (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM I	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.17	0.31	63
	00100-00004	44.2 Si Cool-Lite SKN 165/20Ar/66.2 Si: LAMI-SKN 165 (#2) / ARG / LAMI-PLANICLEAR (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM I	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.19	0.35	63
	00100-00005	44.2 Si Cool-Lite SKN 165/20Ar/66.2 Si: LAMI-SKN 165 (#2) / ARG / LAMI-PLANICLEAR (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM I	VR/VR	2	0.019(2)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.17	0.31	63

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00101-00001	44.2 Si Stopsol Grey/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	N		GY	0.27	0.16	0.14	63
	00101-00002	44.2 Si Stopsol Grey/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	0.75	GY	0.27	0.14	0.12	63
	00101-00003	44.2 Si Stopsol Grey/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	G	1.50	GY	0.27	0.13	0.11	63
	00101-00004	44.2 Si Stopsol Grey/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	0.75	GY	0.27	0.14	0.12	63
	00101-00005	44.2 Si Stopsol Grey/20Ar/66.2th Si: LAMI / ARG / LAMI-PLANITHERM ONE (#3) (4MM 076PVB 4MM/6MM 076PVB 6MM) - 41.52MM IG	VR/VR	2	0.054(3)	0.787	TP-D	Fill 1: ARG(90/10)	S	1.50	GY	0.27	0.13	0.11	63
	00102-00001	4th/12Ar/4/12Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.19	0.34	0.50	72
	00103-00001	4th/12Ar/4/12Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.31	0.44	72
	00103-00002	4th/12Ar/4/12Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.27	0.39	72
	00104-00001	4th/12Ar/4/12Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.31	0.44	72

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00104-00002	4th/12Ar/4/12Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.27	0.39	72	
	00105-00001	4th/12Ar/4/12Ar/4th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.35	0.50	72	
	00106-00001	4th/12Ar/4/12Ar/4th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.31	0.44	72	
	00106-00002	4th/12Ar/4/12Ar/4th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.27	0.39	72	
	00107-00001	4th/12Ar/4/12Ar/4th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.31	0.44	72	
	00107-00002	4th/12Ar/4/12Ar/4th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.27	0.39	72	
	00108-00001	4th/12Ar/4/12Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.34	0.49	72	
	00109-00001	4th/12Ar/4/12Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.31	0.44	72	
	00109-00002	4th/12Ar/4/12Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.27	0.38	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00110-00001	4th/12Ar/4/12Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.31	0.44	72	
	00110-00002	4th/12Ar/4/12Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.27	0.38	72	
	00111-00001	4th/12Ar/4/12Ar/4th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (4MM/4MM/4MM) - 3	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.35	0.50	72	
	00112-00001	4th/12Ar/4/12Ar/4th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (4MM/4MM/4MM) - 3	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.32	0.44	72	
	00112-00002	4th/12Ar/4/12Ar/4th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (4MM/4MM/4MM) - 3	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.28	0.38	72	
	00113-00001	4th/12Ar/4/12Ar/4th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (4MM/4MM/4MM) - 3	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.32	0.44	72	
	00113-00002	4th/12Ar/4/12Ar/4th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (4MM/4MM/4MM) - 3	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.28	0.38	72	
	00114-00001	4one/12Ar/4/12Ar/4one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.24	0.39	72	
	00115-00001	4one/12Ar/4/12Ar/4one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.22	0.34	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00115-00002	4one/12Ar/4/12Ar/4one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.19	0.30	72	
	00116-00001	4one/12Ar/4/12Ar/4one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.22	0.34	72	
	00116-00002	4one/12Ar/4/12Ar/4one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.19	0.30	72	
	00117-00001	4one/12Ar/4/12Ar/4one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.25	0.43	72	
	00118-00001	4one/12Ar/4/12Ar/4one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.23	0.38	72	
	00118-00002	4one/12Ar/4/12Ar/4one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.20	0.34	72	
	00119-00001	4one/12Ar/4/12Ar/4one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.23	0.38	72	
	00119-00002	4one/12Ar/4/12Ar/4one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.20	0.34	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00120-00001	4one/12Ar/4/12Ar/4one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.25	0.39	72	
	00121-00001	4one/12Ar/4/12Ar/4one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.23	0.34	72	
	00121-00002	4one/12Ar/4/12Ar/4one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.20	0.30	72	
	00122-00001	4one/12Ar/4/12Ar/4one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.23	0.34	72	
	00122-00002	4one/12Ar/4/12Ar/4one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.20	0.30	72	
	00123-00001	4one/12Ar/4/12Ar/4one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.26	0.43	72	
	00124-00001	4one/12Ar/4/12Ar/4one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.23	0.38	72	
	00124-00002	4one/12Ar/4/12Ar/4one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.21	0.33	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00125-00001	4one/12Ar/4/12Ar/4one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.23	0.38	72	
	00125-00002	4one/12Ar/4/12Ar/4one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.21	0.33	72	
	00126-00001	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.20	0.38	72	
	00127-00001	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.18	0.33	72	
	00127-00002	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.16	0.29	72	
	00128-00001	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.18	0.33	72	
	00128-00002	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.16	0.29	72	
	00129-00001	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.20	0.38	72	
	00130-00001	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.18	0.33	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00130-00002	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.16	0.29	72	
	00131-00001	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.18	0.33	72	
	00131-00002	4 Cool-Lite SKN 165/12Ar/4/12Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.16	0.29	72	
	00132-00001	4 Stopsol Grey/12Ar/4/12Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		GY	0.22	0.17	0.14	71	
	00133-00001	4 Stopsol Grey/12Ar/4/12Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	GY	0.22	0.15	0.12	71	
	00133-00002	4 Stopsol Grey/12Ar/4/12Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	GY	0.22	0.14	0.11	71	
	00134-00001	4 Stopsol Grey/12Ar/4/12Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	GY	0.23	0.15	0.12	71	
	00134-00002	4 Stopsol Grey/12Ar/4/12Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	GY	0.23	0.14	0.11	71	
	00135-00001	4 Stopsol Grey/12Ar/4/12Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		GY	0.22	0.16	0.13	71	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00136-00001	4 Stopsol Grey/12Ar/4/12Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	GY	0.22	0.14	0.12	71
	00136-00002	4 Stopsol Grey/12Ar/4/12Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	GY	0.22	0.13	0.10	71
	00137-00001	4 Stopsol Grey/12Ar/4/12Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	GY	0.23	0.14	0.12	71
	00137-00002	4 Stopsol Grey/12Ar/4/12Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 36MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	GY	0.23	0.13	0.10	71
	00138-00001	6th/12Ar/6/12Ar/6th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.19	0.34	0.49	71
	00139-00001	6th/12Ar/6/12Ar/6th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.30	0.43	71
	00139-00002	6th/12Ar/6/12Ar/6th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.27	0.38	71
	00140-00001	6th/12Ar/6/12Ar/6th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.30	0.43	71
	00140-00002	6th/12Ar/6/12Ar/6th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.27	0.38	71

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.											
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00141-00001	6th/12Ar/6/12Ar/6th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.34	0.49	71	
	00142-00001	6th/12Ar/6/12Ar/6th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.30	0.43	71	
	00142-00002	6th/12Ar/6/12Ar/6th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.27	0.38	71	
	00143-00001	6th/12Ar/6/12Ar/6th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.30	0.43	71	
	00143-00002	6th/12Ar/6/12Ar/6th: ClimaGuard Premium2 (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.039(2), 0.039(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.27	0.38	71	
	00144-00001	6th/12Ar/6/12Ar/6th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.19	0.34	0.48	71	
	00145-00001	6th/12Ar/6/12Ar/6th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.30	0.43	71	
	00145-00002	6th/12Ar/6/12Ar/6th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.27	0.38	71	
	00146-00001	6th/12Ar/6/12Ar/6th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.30	0.43	71	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00146-00002	6th/12Ar/6/12Ar/6th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.27	0.38	71
	00147-00001	6th/12Ar/6/12Ar/6th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (6MM/6MM/6MM) - 4	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.34	0.49	71
	00148-00001	6th/12Ar/6/12Ar/6th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (6MM/6MM/6MM) - 4	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.31	0.43	71
	00148-00002	6th/12Ar/6/12Ar/6th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (6MM/6MM/6MM) - 4	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.27	0.38	71
	00149-00001	6th/12Ar/6/12Ar/6th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (6MM/6MM/6MM) - 4	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.20	0.31	0.43	71
	00149-00002	6th/12Ar/6/12Ar/6th - ESG: ClimaGuard Premium2 T (#2) / ARG / ExtraClear / ARG / ClimaGuard Premium2 T (#5) (6MM/6MM/6MM) - 4	VR/VR	3	0.041(2), 0.041(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.20	0.27	0.38	71
	00150-00001	6one/12Ar/6/12Ar/6one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.24	0.38	71
	00151-00001	6one/12Ar/6/12Ar/6one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.21	0.33	71
	00151-00002	6one/12Ar/6/12Ar/6one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.19	0.29	71

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res	
	00152-00001	6one/12Ar/6/12Ar/6one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.21	0.33	71	
	00152-00002	6one/12Ar/6/12Ar/6one: PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.03(2), 0.03(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.19	0.29	71	
	00153-00001	6one/12Ar/6/12Ar/6one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.25	0.42	71	
	00154-00001	6one/12Ar/6/12Ar/6one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.22	0.38	71	
	00154-00002	6one/12Ar/6/12Ar/6one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.20	0.33	71	
	00155-00001	6one/12Ar/6/12Ar/6one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.22	0.38	71	
	00155-00002	6one/12Ar/6/12Ar/6one: ClimaGuard 1.0+ (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.20	0.33	71	
	00156-00001	6one/12Ar/6/12Ar/6one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.19	0.25	0.38	71	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00157-00001	6one/12Ar/6/12Ar/6one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.22	0.33	71	
	00157-00002	6one/12Ar/6/12Ar/6one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.20	0.29	71	
	00158-00001	6one/12Ar/6/12Ar/6one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.22	0.33	71	
	00158-00002	6one/12Ar/6/12Ar/6one - ESG: PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.048(2), 0.048(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.20	0.29	71	
	00159-00001	6one/12Ar/6/12Ar/6one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.25	0.42	71	
	00160-00001	6one/12Ar/6/12Ar/6one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.23	0.37	71	
	00160-00002	6one/12Ar/6/12Ar/6one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.20	0.33	71	
	00161-00001	6one/12Ar/6/12Ar/6one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.23	0.37	71	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.											
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.	
	00161-00002	6one/12Ar/6/12Ar/6one - ESG: ClimaGuard 1.0+ T (#2) / ARG / ExtraClear / ARG / ClimaGuard 1.0+ T (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.027(2), 0.027(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.20	0.33	71	
	00162-00001	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.20	0.37	71	
	00163-00001	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.18	0.33	71	
	00163-00002	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.16	0.29	71	
	00164-00001	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.18	0.33	71	
	00164-00002	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (6MM/6MM/6MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.16	0.29	71	
	00165-00001	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.20	0.37	71	
	00166-00001	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.18	0.33	71	
	00166-00002	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.16	0.29	71	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00167-00001	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.18	0.33	71	
	00167-00002	6 Cool-Lite SKN 165/12Ar/6/12Ar/6th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6M	VR/VR	3	0.027(2), 0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.16	0.29	71	
	00168-00001	6 Stopsol Grey/12Ar/6/12Ar/6th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		GY	0.22	0.13	0.10	70	
	00169-00001	6 Stopsol Grey/12Ar/6/12Ar/6th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	GY	0.22	0.12	0.09	70	
	00169-00002	6 Stopsol Grey/12Ar/6/12Ar/6th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	GY	0.22	0.11	0.08	70	
	00170-00001	6 Stopsol Grey/12Ar/6/12Ar/6th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	GY	0.23	0.12	0.09	70	
	00170-00002	6 Stopsol Grey/12Ar/6/12Ar/6th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (6MM/6MM/6MM) - 42MM IG	VR/VR	3	0.051(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	GY	0.23	0.11	0.08	70	
	00171-00001	4th/16Ar/4/14Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.34	0.50	71	
	00171-00002	4th/16Ar/4/14Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.31	0.44	71	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00171-00003	4th/16Ar/4/14Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.27	0.39	71	
	00172-00001	4th/16Ar/4/14Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.19	0.31	0.44	71	
	00172-00002	4th/16Ar/4/14Ar/4th: PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.19	0.27	0.39	71	
	00173-00001	4th/16Ar/4/14Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.34	0.49	71	
	00173-00002	4th/16Ar/4/14Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.31	0.44	71	
	00173-00003	4th/16Ar/4/14Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.27	0.38	71	
	00174-00001	4th/16Ar/4/14Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.19	0.31	0.44	71	
	00174-00002	4th/16Ar/4/14Ar/4th - ESG: PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.19	0.27	0.38	71	
	00175-00001	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th: COOL-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.20	0.38	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.											
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.	
	00175-00002	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.18	0.33	72	
	00175-00003	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.16	0.29	72	
	00176-00001	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.19	0.18	0.33	72	
	00176-00002	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th: COOI-LITE SKN 165 (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42M	VR/VR	3	0.019(2), 0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.19	0.16	0.29	72	
	00177-00001	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.20	0.38	72	
	00177-00002	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.18	0.33	72	
	00177-00003	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.16	0.29	72	
	00178-00001	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.19	0.18	0.33	72	
	00178-00002	4 Cool-Lite SKN 165/16Ar/4/14Ar/4th - ESG: COOI-LITE SKN 165 II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4M	VR/VR	3	0.027(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.19	0.16	0.29	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00179-00001	4 Stopsol Grey/16Ar/4/14Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		GY	0.22	0.17	0.14	70
	00179-00002	4 Stopsol Grey/16Ar/4/14Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	GY	0.22	0.15	0.12	70
	00179-00003	4 Stopsol Grey/16Ar/4/14Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	GY	0.22	0.13	0.11	70
	00180-00001	4 Stopsol Grey/16Ar/4/14Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	GY	0.22	0.15	0.12	70
	00180-00002	4 Stopsol Grey/16Ar/4/14Ar/4th: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.054(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	GY	0.22	0.13	0.11	70
	00181-00001	4 Stopsol Grey/16Ar/4/14Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		GY	0.22	0.16	0.13	70
	00181-00002	4 Stopsol Grey/16Ar/4/14Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	GY	0.22	0.14	0.12	70
	00181-00003	4 Stopsol Grey/16Ar/4/14Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	GY	0.22	0.13	0.10	70
	00182-00001	4 Stopsol Grey/16Ar/4/14Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	GY	0.22	0.14	0.12	70

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/ Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res	
	00182-00002	4 Stopsol Grey/16Ar/4/14Ar/4th - ESG: Stopsol Grey / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(5)	0.630,0.551	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	GY	0.22	0.13	0.10	70	
	00183-00001	4th/16Kr/4/14Kr/4th - ESG: PLANITHERM XN II (#2) / KRY / PLANICLEAR / KRY / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: KRY(90/10) , Fill 2: KRY(90/10)	N		CL	0.18	0.35	0.49	72	
	00183-00002	4th/16Kr/4/14Kr/4th - ESG: PLANITHERM XN II (#2) / KRY / PLANICLEAR / KRY / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: KRY(90/10) , Fill 2: KRY(90/10)	G	0.75	CL	0.18	0.31	0.44	72	
	00183-00003	4th/16Kr/4/14Kr/4th - ESG: PLANITHERM XN II (#2) / KRY / PLANICLEAR / KRY / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: KRY(90/10) , Fill 2: KRY(90/10)	G	1.50	CL	0.18	0.27	0.38	72	
	00184-00001	4th/16Kr/4/14Kr/4th - ESG: PLANITHERM XN II (#2) / KRY / PLANICLEAR / KRY / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: KRY(90/10) , Fill 2: KRY(90/10)	S	0.75	CL	0.18	0.31	0.44	72	
	00184-00002	4th/16Kr/4/14Kr/4th - ESG: PLANITHERM XN II (#2) / KRY / PLANICLEAR / KRY / PLANITHERM XN II (#5) (4MM/4MM/4MM) - 42MM IG	VR/VR	3	0.051(2), 0.051(5)	0.630,0.551	TP-D	Fill 1: KRY(90/10) , Fill 2: KRY(90/10)	S	1.50	CL	0.18	0.27	0.38	72	
	00185-00001	33.1th/14Ar/4/12Ar/4th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/4MM) - 40.3	VR/VR	3	0.054(2), 0.054(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.33	0.50	72	
	00185-00002	33.1th/14Ar/4/12Ar/4th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/4MM) - 40.3	VR/VR	3	0.054(2), 0.054(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.29	0.44	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.											
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.	
	00185-00003	33.1th/14Ar/4/12Ar/4th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/4MM) - 40.3	VR/VR	3	0.054(2), 0.054(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.26	0.39	72	
	00186-00001	33.1th/14Ar/4/12Ar/4th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/4MM) - 40.3	VR/VR	3	0.054(2), 0.054(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.29	0.44	72	
	00186-00002	33.1th/14Ar/4/12Ar/4th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/4MM) - 40.3	VR/VR	3	0.054(2), 0.054(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.26	0.39	72	
	00187-00001	33.1th/14Ar/4/12Ar/4th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.053(2), 0.051(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.33	0.49	72	
	00187-00002	33.1th/14Ar/4/12Ar/4th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.053(2), 0.051(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.30	0.43	72	
	00187-00003	33.1th/14Ar/4/12Ar/4th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.053(2), 0.051(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.26	0.38	72	
	00188-00001	33.1th/14Ar/4/12Ar/4th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.053(2), 0.051(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.30	0.43	72	
	00188-00002	33.1th/14Ar/4/12Ar/4th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.053(2), 0.051(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.26	0.38	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00189-00001	33.1one/14Ar/4/12Ar/4one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM/4MM) -	VR/VR	3	0.029(2), 0.03(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.24	0.38	72
	00189-00002	33.1one/14Ar/4/12Ar/4one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM/4MM) -	VR/VR	3	0.029(2), 0.03(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.21	0.34	72
	00189-00003	33.1one/14Ar/4/12Ar/4one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM/4MM) -	VR/VR	3	0.029(2), 0.03(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.19	0.30	72
	00190-00001	33.1one/14Ar/4/12Ar/4one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM/4MM) -	VR/VR	3	0.029(2), 0.03(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.19	0.21	0.34	72
	00190-00002	33.1one/14Ar/4/12Ar/4one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM/4MM) -	VR/VR	3	0.029(2), 0.03(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.19	0.19	0.30	72
	00191-00001	33.1one/14Ar/4/12Ar/4one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (3MM 038PVB 3MM	VR/VR	3	0.048(2), 0.048(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.24	0.38	72
	00191-00002	33.1one/14Ar/4/12Ar/4one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (3MM 038PVB 3MM	VR/VR	3	0.048(2), 0.048(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.18	0.22	0.34	72
	00191-00003	33.1one/14Ar/4/12Ar/4one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (3MM 038PVB 3MM	VR/VR	3	0.048(2), 0.048(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.18	0.20	0.30	72

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00192-00001	33.1one/14Ar/4/12Ar/4one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (3MM 038PVB 3MM	VR/VR	3	0.048(2), 0.048(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.22	0.34	72	
	00192-00002	33.1one/14Ar/4/12Ar/4one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (3MM 038PVB 3MM	VR/VR	3	0.048(2), 0.048(5)	0.551,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.20	0.30	72	
	00193-00001	44.2th/10Ar/6/10Ar/6th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM 076PVB 4MM/6MM/6MM) - 40.7	VR/VR	3	0.054(2), 0.054(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.20	0.32	0.48	71	
	00194-00001	44.2th/10Ar/6/10Ar/6th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM 076PVB 4MM/6MM/6MM) - 40.7	VR/VR	3	0.054(2), 0.054(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.21	0.29	0.43	71	
	00194-00002	44.2th/10Ar/6/10Ar/6th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM 076PVB 4MM/6MM/6MM) - 40.7	VR/VR	3	0.054(2), 0.054(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.21	0.25	0.38	71	
	00195-00001	44.2th/10Ar/6/10Ar/6th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM 076PVB 4MM/6MM	VR/VR	3	0.051(2), 0.051(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.20	0.32	0.48	71	
	00196-00001	44.2th/10Ar/6/10Ar/6th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM 076PVB 4MM/6MM	VR/VR	3	0.051(2), 0.051(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.21	0.29	0.42	71	
	00196-00002	44.2th/10Ar/6/10Ar/6th - ESG: LAMI-PLANITHERM XN II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM 076PVB 4MM/6MM	VR/VR	3	0.051(2), 0.051(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.21	0.26	0.37	71	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00197-00001	44.2one/10Ar/6/10Ar/6one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM 076PVB 4MM/6MM/6MM) -	VR/VR	3	0.03(2), 0.03(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.19	0.23	0.37	71
	00198-00001	44.2one/10Ar/6/10Ar/6one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM 076PVB 4MM/6MM/6MM) -	VR/VR	3	0.03(2), 0.03(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.20	0.21	0.33	71
	00198-00002	44.2one/10Ar/6/10Ar/6one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE (#5) (4MM 076PVB 4MM/6MM/6MM) -	VR/VR	3	0.03(2), 0.03(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.20	0.19	0.29	71
	00199-00001	44.2one/10Ar/6/10Ar/6one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM 076PVB 4MM	VR/VR	3	0.048(2), 0.048(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.20	0.24	0.37	71
	00200-00001	44.2one/10Ar/6/10Ar/6one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM 076PVB 4MM	VR/VR	3	0.048(2), 0.048(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.21	0.21	0.33	71
	00200-00002	44.2one/10Ar/6/10Ar/6one - ESG: LAMI-PLANITHERM ONE II (#2) / ARG / PLANICLEAR / ARG / PLANITHERM ONE II (#5) (4MM 076PVB 4MM	VR/VR	3	0.048(2), 0.048(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.21	0.19	0.29	71
	00201-00001	44.2 Cool-Lite SKN/10Ar/6/10Ar/6th - ESG: LAMI-COOL-LITE SKN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM 076PVB 4	VR/VR	3	0.019(2), 0.054(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.19	0.19	0.37	71
	00202-00001	44.2 Cool-Lite SKN/10Ar/6/10Ar/6th - ESG: LAMI-COOL-LITE SKN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM 076PVB 4	VR/VR	3	0.019(2), 0.054(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.21	0.18	0.32	71

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00202-00002	44.2 Cool-Lite SKN/10Ar/6/10Ar/6th - ESG: LAMI-COOL-LITE SKN (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN (#5) (4MM 076PVB 4	VR/VR	3	0.019(2), 0.054(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.21	0.16	0.28	71	
	00203-00001	44.2 Stopsol Grey/10Ar/6/10Ar/6th - ESG: LAMI-STOPSOI GREY (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM 076PVB	VR/VR	3	0.051(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		GY	0.23	0.15	0.13	70	
	00204-00001	44.2 Stopsol Grey/10Ar/6/10Ar/6th - ESG: LAMI-STOPSOI GREY (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM 076PVB	VR/VR	3	0.051(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	GY	0.23	0.14	0.12	70	
	00204-00002	44.2 Stopsol Grey/10Ar/6/10Ar/6th - ESG: LAMI-STOPSOI GREY (#2) / ARG / PLANICLEAR / ARG / PLANITHERM XN II (#5) (4MM 076PVB	VR/VR	3	0.051(5)	0.394,0.394	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	GY	0.23	0.12	0.10	70	
	00205-00001	33.1th/14Ar/4/12Ar/33.1th: LAMI- PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / LAMI- PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/3MM	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.19	0.33	0.49	72	
	00206-00001	33.1th/14Ar/4/12Ar/33.1th: LAMI- PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / LAMI- PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/3MM	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.29	0.44	72	
	00206-00002	33.1th/14Ar/4/12Ar/33.1th: LAMI- PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / LAMI- PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/3MM	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.26	0.38	72	
	00207-00001	33.1th/14Ar/4/12Ar/33.1th: LAMI- PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / LAMI- PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/3MM	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.29	0.44	72	

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
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CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.										
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.	
	00207-00002	33.1th/14Ar/4/12Ar/33.1th: LAMI-PLANITHERM XN (#2) / ARG / PLANICLEAR / ARG / LAMI-PLANITHERM XN (#5) (3MM 038PVB 3MM/4MM/3MM	VR/VR	3	0.054(2), 0.054(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.26	0.38	72	
	00208-00001	33.1one/14Ar/4/12Ar/33.1one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / LAMI-PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	N		CL	0.18	0.24	0.38	72	
	00209-00001	33.1one/14Ar/4/12Ar/33.1one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / LAMI-PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	0.75	CL	0.19	0.21	0.34	72	
	00209-00002	33.1one/14Ar/4/12Ar/33.1one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / LAMI-PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	G	1.50	CL	0.19	0.19	0.29	72	
	00210-00001	33.1one/14Ar/4/12Ar/33.1one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / LAMI-PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	0.75	CL	0.20	0.21	0.34	72	
	00210-00002	33.1one/14Ar/4/12Ar/33.1one: LAMI-PLANITHERM ONE (#2) / ARG / PLANICLEAR / ARG / LAMI-PLANITHERM ONE (#5) (3MM 038PVB 3MM/4MM	VR/VR	3	0.029(2), 0.029(5)	0.472,0.472	TP-D	Fill 1: ARG(90/10) , Fill 2: ARG(90/10)	S	1.50	CL	0.20	0.19	0.29	72	
	00211-00001	6/16Ar/44.6th: PLANICLEAR / ARG / LAMI-PLANITHERM XN (#3) (4MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.41	0.54	64	

NFRC Product Certification Authorization Report



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Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
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CPD Number: EKO-K-1						IA: Keystone Certifications, Inc.									
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.
	00211-00002	6/16Ar/44.6th: PLANICLEAR / ARG / LAMI-PLANITHERM XN (#3) (4MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.37	0.48	64
	00211-00003	6/16Ar/44.6th: PLANICLEAR / ARG / LAMI-PLANITHERM XN (#3) (4MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.33	0.42	64
	00212-00001	6/16Ar/44.6th: PLANICLEAR / ARG / LAMI-PLANITHERM XN (#3) (4MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.37	0.48	64
	00212-00002	6/16Ar/44.6th: PLANICLEAR / ARG / LAMI-PLANITHERM XN (#3) (4MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.054(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.33	0.42	64
	00213-00001	6one/16Ar/44.6th - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANICLEAR (6MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.048(2)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.27	0.31	0.47	64
	00213-00002	6one/16Ar/44.6th - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANICLEAR (6MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.048(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.27	0.28	0.42	64
	00213-00003	6one/16Ar/44.6th - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANICLEAR (6MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.048(2)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.27	0.25	0.36	64
	00214-00001	6one/16Ar/44.6th - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANICLEAR (6MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.048(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.28	0.42	64
	00214-00002	6one/16Ar/44.6th - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANICLEAR (6MM/4MM 2.28PVB 4MM) - 32.28MM IG	VR/VR	2	0.048(2)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.25	0.36	64

NFRC Product Certification Authorization Report



Manufacturer: Eko-Okna S.A. **Product Series:** IDEAL 4000 Tilt and Turn Window **Simulation Lab:** SATI **Initial Cert. Date:** 10/23/2019
Street: Kornice, ul. Spacerowa 4 **Product Type:** DATT **Sim. Report #:** N4731.01-116-45 R1 **Re-Certification Date:** 03/08/2023
City/State/Zip: Pietrowice Wielkie, Poland 47-480 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 03/07/2023 **Revised Date:** 03/07/2023
Print Date: 03/09/2023 **Test Date:** 03/29/2022 **Expiration Date:** 03/29/2027

CPD Number: EKO-K-1					IA: Keystone Certifications, Inc.										
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
	00215-00001	6one/16Ar/55.2Sentry - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANITHERM XN II (#3) (6MM/5MM 1.52PVB 5MM) - 33.52MM IG	VR/VR	2	0.048(2), 0.05(3)	0.630	TP-D	Fill 1: ARG(90/10)	N		CL	0.26	0.30	0.46	65
	00215-00002	6one/16Ar/55.2Sentry - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANITHERM XN II (#3) (6MM/5MM 1.52PVB 5MM) - 33.52MM IG	VR/VR	2	0.048(2), 0.05(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	0.75	CL	0.26	0.27	0.41	65
	00215-00003	6one/16Ar/55.2Sentry - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANITHERM XN II (#3) (6MM/5MM 1.52PVB 5MM) - 33.52MM IG	VR/VR	2	0.048(2), 0.05(3)	0.630	TP-D	Fill 1: ARG(90/10)	G	1.50	CL	0.26	0.24	0.36	65
	00216-00001	6one/16Ar/55.2Sentry - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANITHERM XN II (#3) (6MM/5MM 1.52PVB 5MM) - 33.52MM IG	VR/VR	2	0.048(2), 0.05(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	0.75	CL	0.27	0.27	0.41	65
	00216-00002	6one/16Ar/55.2Sentry - ESG: PLANITHERM ONE II (#2) / ARG / LAMI-PLANITHERM XN II (#3) (6MM/5MM 1.52PVB 5MM) - 33.52MM IG	VR/VR	2	0.048(2), 0.05(3)	0.630	TP-D	Fill 1: ARG(90/10)	S	1.50	CL	0.27	0.24	0.36	65

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TATI	03/29/2022	600 mm x 1499 mm	0.240	0.237	N4730.01-116-46

Comments: 90% Argon, 90% Krypton, dual probe. Product line is grouped with EKO-K-7.

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: _____