





# LINE GLASS





Frameless sliding glass doors with floor guide only height 18 cm.

Max dimensions 1000x300.

The doors can be slid to the left or the right and the direction can quickly be changed, even during the installation phase.

The system is modular to make cleaning easier.

Side or central closure.

Bi-fold system with aligned glass doors.

The height of each door can be adjusted by up to 8 mm.

It is not guaranteed to be 100% waterproof in the event of heavy rain or high winds and rain.

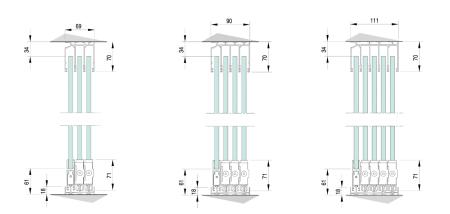
Wide range of colors including RAL 9010 white, RAL 9010 mat white, RAL 7016 Iron, Carbon rough and Corten rough.

Accessories such as handle, sash bottom caps, etc. will match these five colors, while for all others they will be in ral silver anodized color.

In addition to clear glass (standard), it is possible to have extra-clear, etched, smoked, reflective or Float 55.4 glass (the latter only on Line Glass 12). The installation of Line Glass 12 with Float 55.4 glass is only permitted on the ground floor. CE marking according to EN 14531/1:2016.

# **TECHNICAL INFORMATION**

#### General technical plan



#### Closure with standard handle



Single knob/ Interior+Exterior knob

#### Locking Optional



Key/Key



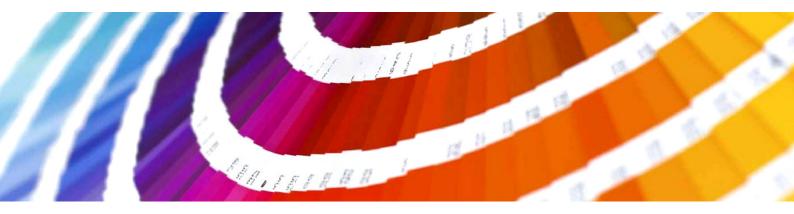


# TECHNICAL INFORMATION

#### Panel gasket with brush



### SURFACE FINISHING



The KE painting process includes high quality standards, with an 8-stage pre-treatment that includes degreasing, deoxidation, and protective treatments before painting. Thanks to this last phase, components and profiles are further guaranteed against particularly severe environmental situations. At the end of the process the profiles and components are painted with polyester resin-based epoxy powders. Treated components are periodically tested in salt spray according to the ISO 9227 standard to confirm conformity and constistency of the process. The European product standard EN 13561: 2015 defines corrosion resistance classes of the metal parts that make up the product according to the table below. Tests performed on the painted components and profiles allow us to classify the product in the maximum class achievable according to EN 13561: 2015, C2 / 4 (48 h - internal components, 240 h - external components).

Equipped with the most modern process control systems including continuous monitoring in which the working parameters are recorded and corrected every 2 minutes, the new painting process guarantees the high quality characteristics of the product while minimizing the risk of environmental pollution. This is a choice born from the desire to always keep up with technology while guaranteeing operator safety and low environmental impact. Thanks to nanotechnologies, the implemented coating constitutes an excellent base for anchoring paints, ensuring excellent adhesion and resisting corrosion. The plant in which aluminum or galvanized steel products with a length of up to 7 meters can be treated, includes 7 treatment tanks, 1 double compartment drying oven, 1 polymerization oven and 1 purification plant for waste water treatment. The real focus of the plant, however, is the two powder coating booths, each with 4 stations for manual retouching. The booths allow greater production continuity, thanks to a drastic reduction in required stops for color changes.

#### CORROSION RESISTANCE

Classes	1	2	3	4
Internal components	24	48		
External components		48	96	240

#### COLOURS



When working with color, we know that our whole world is defined by light. And color is nothing more than a breakdown of light. Objects reflect back to our eyes only the color that defines it. This is why it is so important to recognize the close link between color and matter. For this project, there are three keywords that guide the research: Words, Places, Matters.

WORDS: Naming colors is important to make them familiar and easily recognizable.

PLACES: Places define colors. Recognizing different types of places

is a starting point for defining and suggesting color combinations.

<u>MATERIALS</u>: Objects do not exist in isolation, but rather match the environment around them: analyzing the materials that make up the environment itself helps us to make decisions; to decide, for example, if the character of a place is false or if instead it is genuinely artistic.



# COLOURS RAL

Ral standard (without supplement)



# CERTIFICATION



# **GLASS CERTIFICATION**

#### Trasparente (standard) Caratteristiche luminose - EN 410 Trasmissione luminosa:tv (%) 88 Riflessione luminosa esterna: pv (%) 8

Caratteristiche energetiche - EN 410 Fattore solare: g (%) 82 Riflessione energetica: pe (%) 7

Proprietà termiche - EN 673 Trasmittanza termica: Ug (W/m².K) 5.6 (Trattamento vetro HST opzionale)

#### Extra chiaro Caratteristiche luminose - EN 410 Trasmissione luminosa:tv (%) 91 Riflessione luminosa esterna: pv (%) 8

Caratteristiche energetiche - EN 410 Fattore solare: g (%) 90 Riflessione energetica: pe (%) 7

Proprietà termiche - EN 673 Trasmittanza termica: Ug (W/m².K) 5.6 (Trattamento vetro HST opzionale)

#### Riflettente

Caratteristiche luminose - EN 410 Trasmissione luminosa:tv (%) 32,5 Riflessione luminosa esterna: pv (%) 23,4

Caratteristiche energetiche - EN 410 Fattore solare: g (%) 42,8 Riflessione energetica: pe (%) 19,3

Proprietà termiche - EN 673 Trasmittanza termica: Ug (W/m².K) 5.3 (Trattamento vetro HST opzionale)

#### Trasparente Float 55.4 (solo Line Glass 12) Caratteristiche luminose - EN 410

Trasmissione luminosa:tv (%) 88 Riflessione luminosa esterna: pv (%) 8

Caratteristiche energetiche - EN 410 Fattore solare: g (%) 77 Riflessione energetica: pe (%) 7

Proprietà termiche - EN 673 Trasmittanza termica: Ug (W/m<sup>2</sup>.K) 5.3

Caratteristiche di sicurezza Resistenza alle effrazioni - EN 356: P4A Resistenza agli urti - EN 12600: 1B1









# CERTIFICATION



# **GLASS CERTIFICATION**

#### Acidato

<u>Caratteristiche luminose - EN 410</u> Trasmissione luminosa: tv (%) 87 Riflessione luminosa esterna: pv (%) 7

Caratteristiche energetiche - EN 410 Fattore solare: g (%) 80 Riflessione energetica: p∨ (%) 6

<u>Proprietà termiche - EN 673</u> Trasmittanza termica: Ug (W/(m².K)) 5.6

(Trattamento vetro HST opzionale)

#### Fumé

Caratteristiche luminose - EN 410 Trasmissione luminosa: tv (%) 26 Riflessione luminosa esterna: pv (%) 5

Caratteristiche energetiche - EN 410 Fattore solare: g (%) 43 Riflessione energetica: pv (%) 5

<u>Proprietà termiche - EN 673</u> Trasmittanza termica: Ug (W/(m².K)) 5.6

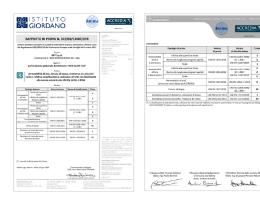
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### Certificazioni

Line Glass viene sottoposto a test in laboratorio per poter assicurare la massima resistenza e sicurezza. Una qualità certificata grazie all'Istituto Giordano S.p.A., ente inserito nel gruppo degli organismi notificati CE che opera nel campo della certificazione di prodotti e delle prove in laboratorio sui materiali. Line Glass è marcata CE secondo EN 14351-1: 2016.







	CE				
	0474				
rispondente	Dichiarazione di prestazione ( a tutte le specifiche previste dall'all metodo di dichiarazione ZA4	egato 3 CPR 305/2011			
	Nr. 00001-CPR-2022-05	-27			
Codice di identificazione unico del	SUNLIGHT D55				
prodotto-tipo					
Serial Number	Vedi etichetta apposta sul prodotto e sul manuale di uso e manutenzione				
Uso previsto del prodotto	Elementi strutturali in acciaio e alluminio per opere da costruzione				
Fabbricante	KE Protezioni Solari srl Via Calnova 160/A 30020 Noventa di Piave (VE)				
Sistema di valutazione	2+				
Ente notificato	RINA Services S.p.A				
	via Corsica, 12 - 16128 Genova (GE)				
Compiti organismo notificato	Ha effettuato l'ispezione iniziale dello stabilimento di produzione e del controllo di produzione in fabbrica, sorveglianza, valutazione e verifica continua del controllo di produzione in fabbrica secondo il sistema AVCP 2+ e ha rilasciato il certificato di conformità del controllo di produzione in fabbrica Nr: 0474-CPR-1261				
Caratteristiche essenziali	Prestazioni	Specifica tecnica armonizzata			
Tolleranze geometriche	EN 1090-2:2018 EN 1090-3:2019	EN 1090-1			
Materiale costituente	EN 10025-2:2019 - S355JR EN 573-1 - 6082 T6	EN 1090-1			
Saldabilità	EN 10025-2:2019 - S355JR EN 573-1 - 6082 T6	EN 1090-1			
Resistenza a frattura	EN 10025-2:2019 - 27J AT +20°C	EN 1090-1			
Reazione al fuoco	N.P.D.				
Resistenza al fuoco	N.P.D.				
Rilascio di cadmio e metalli pesanti	N.P.D.				
Radioattività	N.P.D.				
Durabilità	N.P.D.				
Portata	Vedi relazione di calcolo Nr. D55_Re	v00_2022			
Resistenza a fatica	Vedi relazione di calcolo Nr. D55_Re	v00_2022			
Progettazione	Rif relazione di calcolo Nr. D55_Rev0	00_2022			
Fabbricazione		e 727_00_00_00 e la EN 1090-2 / EN 1090-3			
Classe di esecuzione	EXC2	EN 1090-1			
regolamento 305/2011; le presta	la presente dichiarazione in accordo al zioni del prodotto identificato sono in c dichiarazione sotto l'esclusiva respons	le Norme Europee per le costrazioni come da onformità a quanto qui dichiarato. Si rilascia la iabilità del fabbricarte. Il Legale Rappresentante			





#### EN ISO 9001

KE has adopted a Quality Management System compliant with EN ISO 9001 requirements in order to maintain and increase quality and meet the highest customer expectations. This continuous improvement, through the control of all processes and careful evaluation of risks and opportunities, engages the entire organization in the development of systems to ensure the safety and reliability of the product and in the search for innovative solutions and technologies.

#### **OHSAS 18001**

KE has activated a Safety Management System as an integral part of its work organization, committing itself to organizing the entire structure in order to pursue the objectives of continuous improvement in terms of safety and health protection. Training, knowledge and compliance with current legislation on health and safety at work, cooperation and collaboration and preventive activities are actively pursued in order to minimize the prossibility of non-compliance.

#### EN ISO 14001

KE is ISO 14001 certified for environmental management and strives to be an example of respect forenvironmental resources and for the continuous improvement of its environmental managmentsystem. It is committed to continuous improvement and pollution prevention in compliance withapplicable laws, regulations and standards; systematically detects any environmental impact ofmanufacturing processes, promotes the culture of recovery and recycling in the company and in the related production chain.

### MARCATURA CE \_ EN 13561

The CE marking of outdoor awnings is a signal to the Consumer that the product can be sold freely in the EU single market, as it complies with Community provisions which recognize safetyas the priority of every product that has this agreed upon reference standard. Verification of wind resistance capacity and the clear indication of the ability of the awning to contribute to the energysavings of the building (Gtot), are some of the commitments that the manufacturer makes to a product that has earned the CE marking. The name of the manufacturer, the reference standard (in our case EN 13561) accompany a product that is properly adapted to European indications.

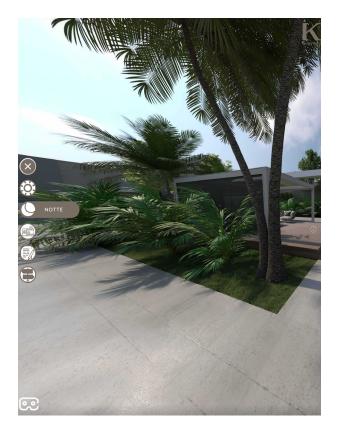
# MARCATURA CE \_ EN 1090-1

KE extended the  $\overline{\text{CE}}$  marking in 2015 to stationary awnings, which are among the aluminum structural components covered by the international standard EN 1090-1. This marking reflects our use of rigorous structural design and manufacturing with qualified processes, adequate industrial resources and qualified personnel.

# **VIRTUAL SHOW ROOM**

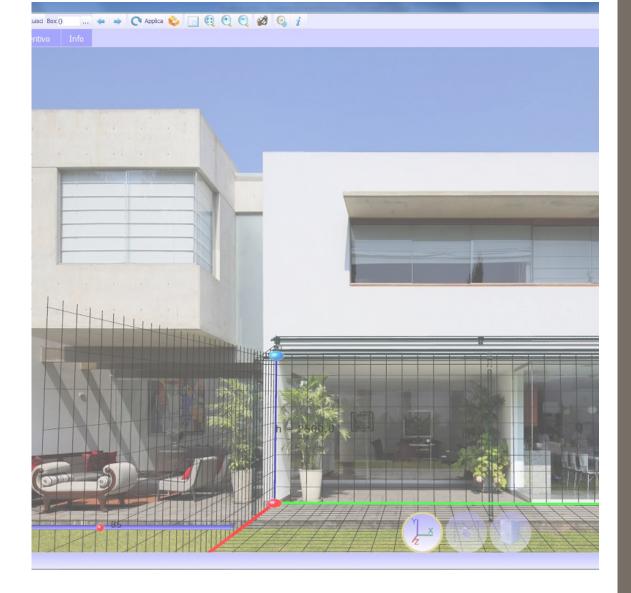


KE has adapted to the new ways of using the product by working on a digital showroom that is able to give the user a high-impact visual experience, a functional space where they can move around freely, receive detailed information on products with a simple click, and access content of interest quickly and intuitively. There is viewable content such as augmented reality and downloadable files such as data sheets, brochures and 3D models.

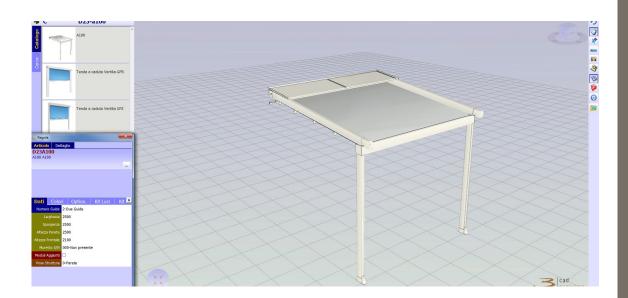




# ENJOY THE OUTDOORS



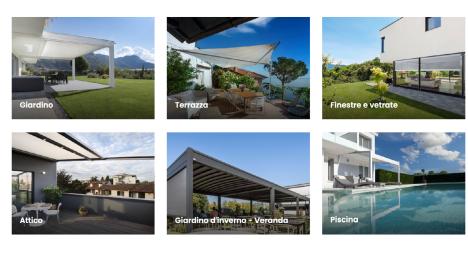
The KE B2B order system is a simple and intuitive service for placing orders conveniently online. An attractive graphic design, numerous functionalities and an easy and intuitive use mode that allows to access in real time to all the information related to the history of the orders and to the processing of the current ones. With the Cad Lite 3D Configurator you can configure Gennius and Bioclimatica models thanks to a constantly updated online catalogue. Thanks to an easy-to-use interface, it also allows you to formulate a complete quote with minimal error.



#### SITO - BIM





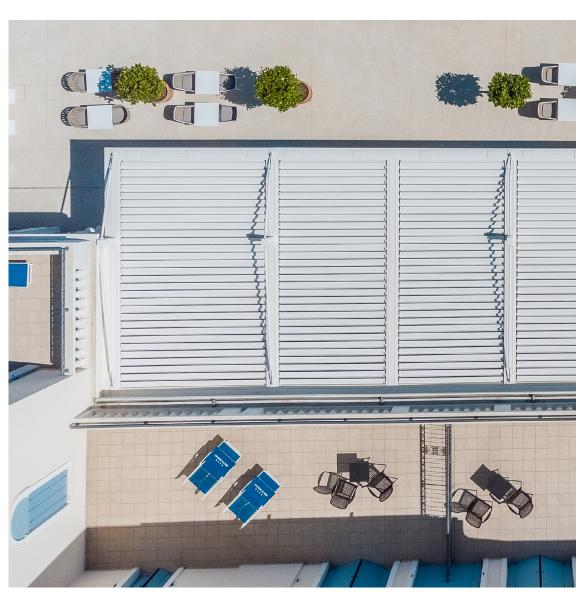




BIM technology improves the working method of designers and is now the main source of information for the realisation of a project. With BIM the model is generated in a "parametric 3D" from which a series of information such as 2D views, elevations, sections but also metric calculations and much more can be automatically derived. On the KE website you can find the BIM gallery of the main KE models, the certifications and all the useful technical documentation for each product: www.keoutdoordesign.com

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KE SCREEN 85 - SINGLE UNIT VERSION		KE SPACE	KE VENEZIA GOLD	Kedry Skylife	KE SCREENY 85 - SINGLE UNIT VERSION





# A GROUP, A VISION, A GROUP IN EVOLUTION

Since 1987, KE has been designing and manufacturing arm awnings, cassette awnings, drop awnings, canopies, shelters and is specialised in shading structures that enhance the liveability of outdoor spaces, up to the redesign and restyling of urban furniture. Both for the variety of the range and the depth of the configurations, KE is a manufacturing reality able to satisfy the most demanding requests the most demanding requirements of designers, architects, window and door manufacturers, upholsterers and outdoor professionals.



### Improving the experience

With KE's professionalism and experience you can rely on quality products designed to enhance your customers' outdoor experience. With KE it will be easier to live the outdoor space in perfect harmony with the surrounding environment, widening the viewpoints and ensuring maximum comfort in all seasons. all seasons. ENJOY THE OUTDOORS