



**FABRIKA**  
*alu i pvc stolarije,  
termo stakla, fasada...*

*Prvi i pravi*





*Naši proizvodi  
ne zagađuju prirodu!*

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# O nama

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*About us*



Početak rada privatnog preduzeća „Jelen” vezan je za davnu 1982. godinu. Jelenko Ilić tada osniva samostalnu zanatsku radnju „As-Elox” koju 1986. godine preregistruje u privatno preduzeće „Jelen”.

Cilj preduzeća „Jelen” od osnivanja bio je vrhunski kvalitet proizvoda, poštovanje dogovorenog sa cijenjenim kupcima, stalni razvoj i ulaganje u najmoderne svjetske tehnologije u proizvodnji i konstantna stručna obuka kvalifikovane radne snage u procesu proizvodnje.

Danas sa ponosom možemo da konstatujemo da je privatno preduzeće „Jelen” Brčko prepoznatljivo po vrhunskom kvalitetu proizvoda, veoma stručnoj i iskusnoj radnoj snazi i da trenutno raspolaže sa najmodernijom tehnologijom u proizvodnji ALU i PVC stolarije i obradi stakla. Kompjuterska priprema i vođenje procesa proizvodnje, automatske i CNC mašine najpoznatijih svjetskih proizvoda, najkvalitetniji materijali za proizvodnju uglavnom njemačkog, luksemburškog i italijanskog porijekla, garancija su vrhunskog kvaliteta naših proizvoda. Dokaz toga je posjedovanje certifikata za kvalitet ISO 9001:2008 izdatog od strane certifikacione kuće Tuv Thuringen Njemačka. Takođe posjedujemo certifi-

kate o ispunjenosti uslova za rad po standardima firmi: Aluplast Njemačka, Guardian Luksemburg i Alumil Grčka.

Nalazimo se u Brčkom, u neposrednoj blizini centra grada, na površini većoj od 10.000 m<sup>2</sup> gdje su smještene moderno opremljene proizvodne hale površine preko 7.000 m<sup>2</sup>, u kojima preko 40 vrhunskih profesionalaca kreacije arhitekata pretvaraju u stvarnost. Kupovinom državnog preduzeća „Staklorad” Brčko, koje se bavilo preradom stakla od 1977. godine usavršili smo i dopunili naš proizvodni program u oblasti prerade stakla. Iskustvo radnika preduzeća „Staklorad” više od 40 godina, uz našu nabavku najmodernije opreme za obradu i proizvodnju termoizolacionog stakla, kao i veoma dobra saradnja sa najboljim svjetskim fabrikama stakla doprinijeli su da smo i u oblasti prerade stakla među prvima u regionu, kako u kvalitetu, tako i u kapacitetima za preradu.

U ovom trenutku naš proizvodni program obuhvata proizvodnju Aluminijumske i PVC stolarije, termoizolacionog stakla, aluminijumskih polustrukturalnih i klasičnih fasada, alubond fasada, protipožarnih i protivprovalnih sigurnosnih vrata, roletni, venecijanera, trakastih zavjesa, komarnika, sekcionih vrata, senzorskih vrata, kioska, kontejnera, kapija i ograda.

Prateći zahtjeve naših kupaca naš proizvodni program se svakodnevno unapređuje i proširuje. Pozivamo Vas u naše preduzeće da ispunimo i Vaše želje.

Private company "Jelen" started its work in 1982. At that time, Mr. Jelenko Ilic has founded independent workshop under the name "As-Elox", and in 1986 was registered as a private company "Jelen", which is its name today.

The company has a good business policy since founding, which means: top quality of the products, respecting the contracts with the customers, constant development and investments in the best production technologies and continuous education of qualified workers in production.

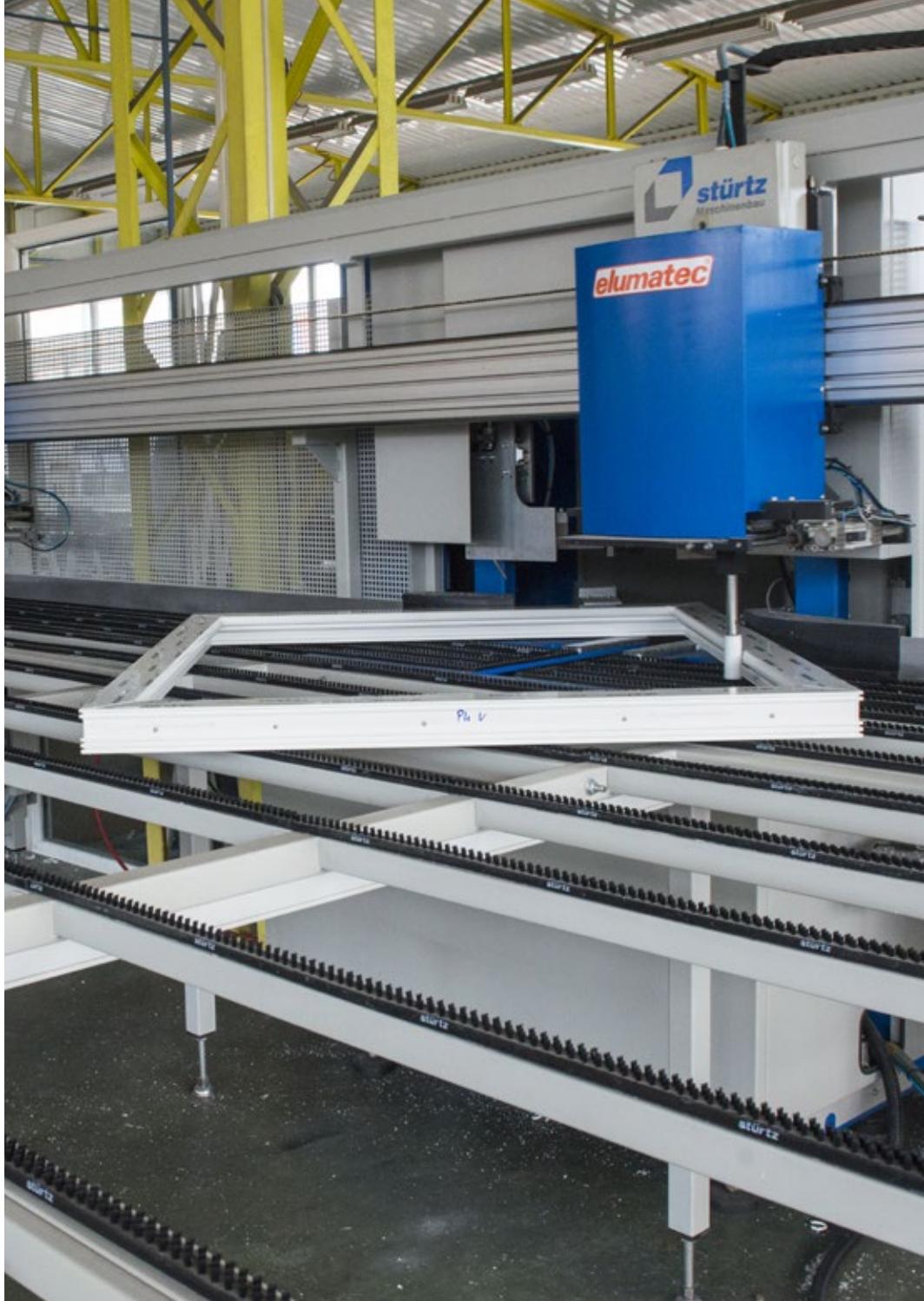
Today, we are proud to say, that the private company "Jelen" is well known because of top quality of the products, professional and experienced workers and it currently has the most advanced technology in the production of Aluminum and PVC joinery and glass processing. Computer control of the production process, automatic and CNC machines best known manufacturers in the world, the best materials for the production of mainly German, Luxembourg and Italian origin, guarantee a superior quality of our products. Proof of this is the possession of the certificate of quality ISO 9001: 2008 issued by Tuv Thuringen Germany. Also, we have certificates of compliance with the requirements for production according to standards of the companies: Aluplast Germany, Guardian Luxembourg and Alumil Greece.

We are located in Brcko, near the city center, on the area of more than 10.000 m<sup>2</sup> where modern covered production facility of more than 7.000 m<sup>2</sup> is placed and in which more than 40 top professionals creations of architects turning into reality. When we buy of the state company "Staklorad", which is dealing with glass processing since 1977, we widened our production program in the field of glass processing. Experience of workers of company "Staklorad" for more than 40 years, with our most modern equipment for processing and production of insulating glass, as well as very good cooperation with the world's best glass producers contributed that we are one of leading companies in the region in the field of glass processing, in terms of quality and capacities for processing.

At this moment our production program includes the production of Aluminum and PVC doors and windows, insulating glass (IG), Aluminum semi structural and classical curtain walls, alubond facade, fire protection and security doors, rolling shutters, venetian blinds, vertical strip curtains, mosquito nets, sectional doors, sensor doors, kiosks, containers, gates and fences.

Following the requirements of the market our production program is improving and widening on daily basis. We invite you to come to our company to make your wishes come true.

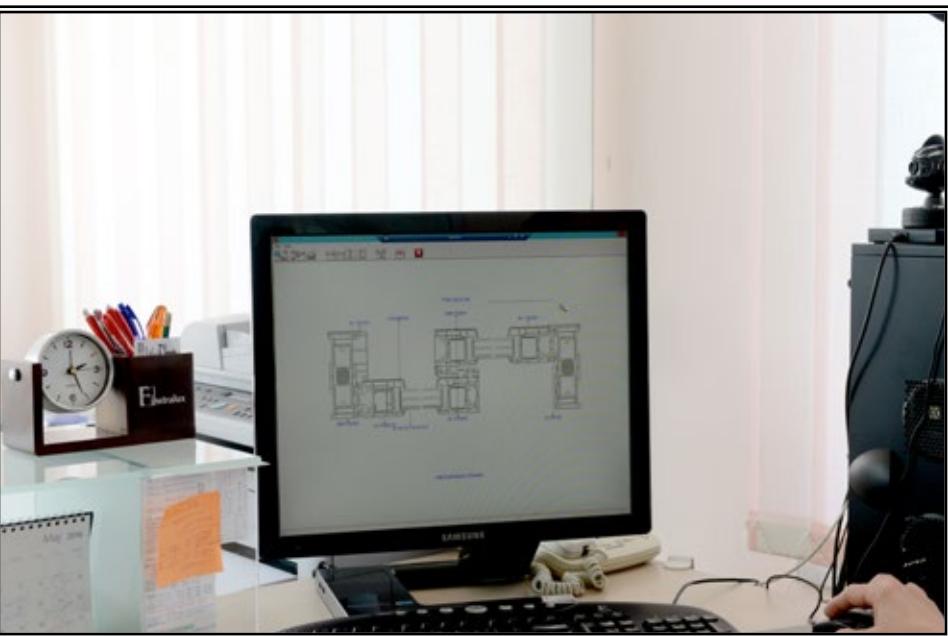
Direktor / General Manager



# Proces proizvodnje

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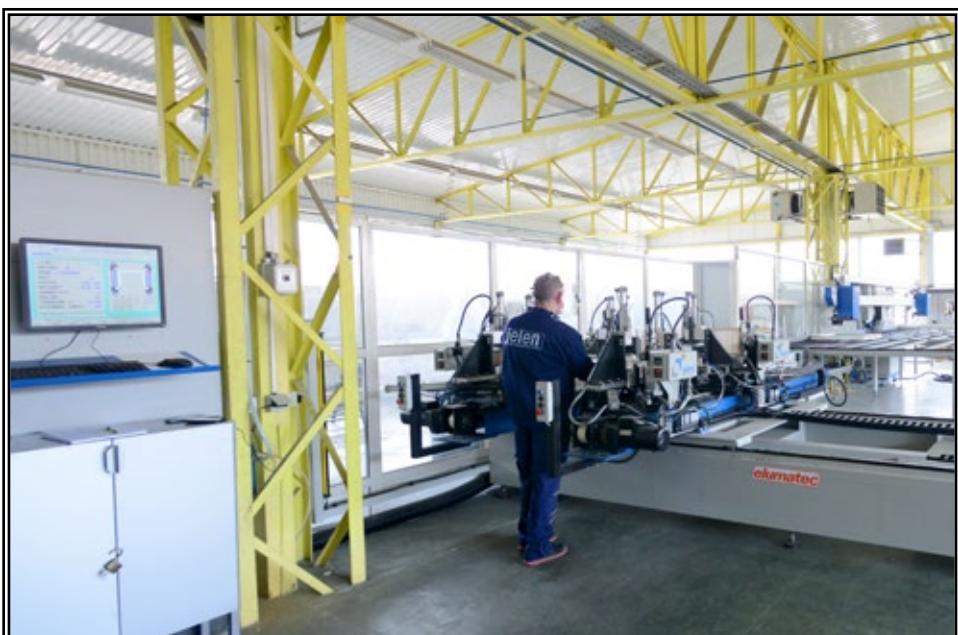
*Production Process*



Kompjuterska priprema proizvodnje  
Computer processing of production  
orders



Automatska linija za sječenje profila  
Automatic line for profile cutting



Automatska 4-glava i 4-osna CNC linija  
za varenje i čišćenje varova na profilima  
Automatic 4-head and 4-axes CNC line  
for profile welding and corner cleaning



Istovar repromaterijala iz Aluplasta Njemačka  
Unloading of raw materials from Aluplast Germany



Automatska CNC čistilica za čišćenje varova na PVC profilima  
Automatic CNC corner cleaning machine for PVC profiles



Automatska linija za sječenje profila  
Automatic line for profile cutting



Zastakljivanje prozora na presi za optimalni položaj stakla u prozoru  
Glazing of windows in press for optimum positioning of glass in the window



Automatska linija za ubacivanje metalnih ojačanja u PVC profile  
Automatic line for insertion of steel reinforcements into PVC profile





Kompletno automatizovan proizvodni proces  
Completely automated production process



Mašina za obradu alubonda i drugih pločastih materijala  
Machine for alubond and other flat board materials processing



Detalj iz proizvodnog pogona  
Detail from production plant



Automatska linija za sječenje monolitnog i laminiranog stakla JUMBO formata 6000x3210 mm, kapaciteta 1000 m<sup>2</sup> stakla u 1 smjeni

Automatic line for cutting of monolithic and laminated glass JUMBO dimension 6000x3210 mm, with capacity of 1000 m<sup>2</sup> of glass in one shift



Automatski sto za sječenje monolitnog stakla  
Automatic cutting table for monolithic glass



CNC sto za sječenje monolitnog stakla  
CNC cutting table for monolithic glass



Automatska mašina za pjeskarenje stakla  
Automatic machine for sandblasting glass



Automatski sto za sjećenje  
LAMINIRANOG stakla  
Automatic cutting table for  
LAMINATED glass



Automatska linija za proizvodnju  
dvostrukog i trostrukog termoizolacionog  
stakla formata 6000x2500 mm  
Automatic line for production of double  
and triple insulating glass dimension  
6000x2500 mm



Brusilica i polirka za staklo debeline do 36 mm sa mogućnošću brušenja pod ugлом  
Edge grinding and polishing machine for glass with thickness up to 36 mm with  
possibility of angular grinding



Automatsko punjenje termo stakla plemenitim gasom  
Automatic filling of insulating glass with the inert gas



Certifikat za kvalitet proizvodnje ISO 9001:2008  
Quality of production certificate ISO 9001:2008



Certifikat za proizvodnju po standardima Aluplasta  
Certificate for the production by the standards of Aluplast



Certifikat za proizvodnju izo stakla po standardima Guardian  
Certificate for the production of IG by the standards of Guardian



Certifikat za CE znak od Aluplasta  
Certificate for CE marking of Aluplast



Naš vozni park za brzu i sigurnu isporuku stolarije  
Our fleet for fast and safe delivery of doors and windows



Naša stolarija na metalnim paletama istovarena u Švajcarskoj  
Our doors and windows on metal pallets unloaded in Switzerland



Vertikalni transport naših podizno-kliznih vrata u Švajcarskoj  
Vertical transport of our lift and slide doors in Switzerland



Vertikalni transport naše stolarije na metalnim paletama u Švajcarskoj  
Vertical transport of our windows on metal pallets in Switzerland



PVC i AluSkin® stolarija

*PVC and AluSkin®  
doors and windows*

PVC stolarija se izborila za svoju poziciju na tržištu zahvaljujući vrlo povoljnoj cijeni i vrhunskoj termičkoj izolaciji koju obezbjeđuju PVC profili. Oni predstavljaju ekološko rješenje koje se bazira na polivinil-hloridu koji se može potpuno reciklirati. Stolarija se izrađuje od vrhunskih „Aluplast” PVC profila **njemačke proizvodnje**. Postojanost boje i oblika profila garantovana je na temperaturama od -50 do +80 °C. I krilo i štok su propisno ojačani pocinkovanim čeličnim ojačanjem minimalne debeline d=1,5 mm, a zavisno od dimenzija otvora i statickog proračuna debeljina ojačanja se povećava. Ovo garantuje postojanost oblika prozorskog rama. Sva stolarija snađivena je odgovarajućim visokokvalitetnim okovom za otvaranje prema shemi. Svi spolja vidljivi delovi okova su bijele boje ili smeđe boje zavisno od boje profila, a svi ostali dijelovi okova su pocinkovani i trajno zaštićeni od korozije. Zaptivke su izrađene od EPDM gume homogene tvrdoće u BIJELOJ boji, osim za PVC profile u tamnoj boji kod kojih su dihtunzi crni. Stakljenje se vrši NAJKVALITETNIJIM „GUARDIAN” STAKLOM Extra Clear kvaliteta, vrste po izboru kupca.

PVC doors and windows have won a fight for its position in the market thanks to the very good price and great thermal insulation that the PVC profiles provide. They are an ecological solution based on polyvinyl chloride that can be completely recycled. Doors and windows are produced from best „Aluplast” PVC profiles of **German production**. Stability of color and shape of profile is guaranteed at temperatures of -50 to +80 °C. Both, wing and frame are properly reinforced with zinc steel reinforcement d=1,5 mm, but depending on the dimensions of the doors and windows and static analysis thickness of reinforcement is increased. This guarantees shape stability of the window frame. The best quality accessories are mounted on all doors and windows for its opening according to schemes. All parts of accessories visible from outside are in white color or brown color depending on profile color, and rest of the parts are zinc coated and permanently protected from corrosion. Gaskets are made of EPDM rubber with homogeny hardness in WHITE color, except for PVC profiles in the dark color, in which the seals are black. Glazing is done with highest quality insulating glass "GUARDIAN" of Extra Clear quality, type of glass at customer choice.

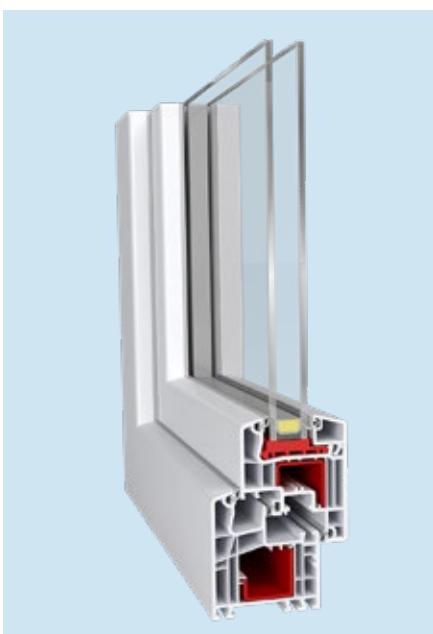


## IDEAL 4000®

UVIJEK DOSTUPNO  
Always available



- sistem modernog dizajna sa 5 komora, ugradnom dubinom d=70 mm i 2 dihtunga između štoka i krila
- odlične karakteristike topotne izolacije, standardno topotna provodljivost rama prozora  $U_f=1,3 \text{ W/m}^2\text{K}$
- debeljina ostakljenja do 41 mm, standardno se isporučuje sa stakлом 4+16+4 mm Low-e  $U_g=1,1 \text{ W/m}^2\text{K}$
- odlična zvučna izolacija do 45 dB (do klase IV zvučne izolacije)
- system of modern design with 5 chambers, installation depth d=70 mm and 2 seals between frame and wing
- excellent heat insulating characteristics, as a standard heat insulation of window frame  $U_f = 1.3 \text{ W / m}^2\text{K}$
- glazing thickness up to 41 mm, standard combination delivered with glass 4+16+4 mm Low-e  $U_g=1,1 \text{ W/m}^2\text{K}$
- excellent sound insulation up to 45 dB (up to class IV sound insulation)

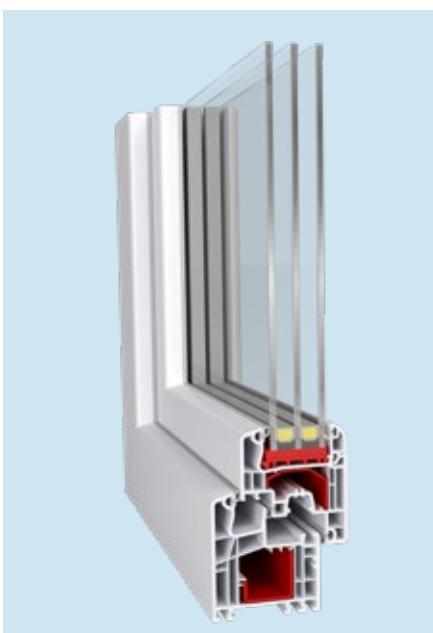


## IDEAL 5000® - dvostruko staklo double glass

UVIJEK DOSTUPNO  
Always available

- sistem modernog dizajna sa 5 komora, ugradnom dubinom d=70 mm i 3 dihtunga između štoka i krila
- treći tj. srednji dihtung koji je na krilu, a ne u štoku, obezbeđuje da je okov uvijek u suvoj zoni i čini sistem protivprovalnim u osnovnoj kombinaciji
- skriveni prihvatični okova za najviši nivo protivprovalne zaštite isporučuju se u osnovnoj kombinaciji
- odlične karakteristike topotne izolacije, standardno topotna provodljivost rama prozora Uf=1,2 W/m2K

- debljina ostakljenja do 41 mm, standardno se isporučuje sa stakлом 4+16+4 mm Low-e Ug=1,1 W/m2K
- u kombinaciji sa trostrukim stakлом 4+12+4+12+4 mm Low-e Ug=0,7 W/m2K zadovoljava uslove MINERGIE® Švajcarskog standarda da je topotna provodljivost kompletne prozore Uw <=1,0 W/m2K
- odlična zvučna izolacija do 47 dB (do klase V zvučne izolacije)
- testirana protivprovalna otpornost klase RC2

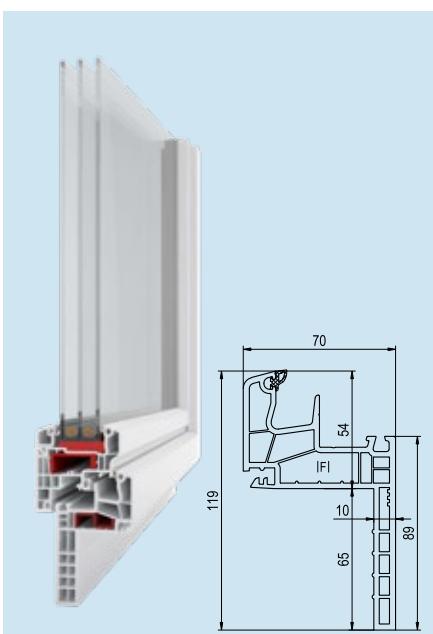


## IDEAL 5000® - trostruko staklo triple glass

UVIJEK DOSTUPNO  
Always available

- system of modern design with 5 chambers, installation depth d=70 mm and 3 seals between frame and wing
- third ie. middle seal that is on the wing, not in the frame, ensures that fittings are always in the dry zone and makes the system burglar proof in the basic combination
- hidden fittings striking plates for the highest level of burglar protection are delivered in basic combination
- excellent heat insulating characteristics, as a standard heat insulation of window frame Uf = 1,2 W / m2K

- glazing thickness up to 41 mm, standard combination delivered with glass 4+16+4 mm Low-e Ug=1,1 W/m2K
- in combination with triple glazing 4+12+4+12+4 mm Low-e Ug=0,7 W/m2K meets the requirements of MINERGIE® Switzerland standard that the thermal insulation of the entire window Uw <= 1,0 W/m2K
- excellent sound insulation up to 47 dB (up to class V sound insulation)
- tested burglar resistance class RC2



## IDEAL 5000® - renovacioni štok renovation frame

UVIJEK DOSTUPNO  
Always available

- važe sve gore navedene karakteristike, moguće je i dvostruko i trostruko ostakljenje
- sistem koji se koristi za renoviranje starih i istorijskih objekata uz minimalno oštećenje zidova, izuzetno popularan u Švajcarskoj jer omogućava brzu i laku ugradnju novih prozora bez neplaniranih radova na obradi špaletni i krečenju zidova
- stara drvena krila se demontiraju, dok se zadržava postojeći drveni štok preko koga se postavlja novi PVC štok sa perom visine 65 mm koje ga sakriva i pravi estetski lijep spoj sa zidom

- all the above mentioned characteristics are valid, double and triple glazing is possible
- system which is used for the renovation of old and historic buildings with minimal damage to walls, extremely popular in Switzerland because it allows quick and easy installation of new windows without unplanned work on the jambs and painting of the walls
- old wooden wings are dismantled, while retaining the existing wooden frame on which a new PVC frame is fixed with overlap height of 65 mm, which hide existing wooden frame and makes aesthetically nice connection to the wall



## AluSkin® IDEAL 5000®

UVIJEK DOSTUPNO  
Always available

- važe sve karakteristike kao i za IDEAL 5000, moguće je i dvostruko i trostruko ostakljenje
- predstavlja kombinaciju ALU i PVC stolarije, s tim da Aluminijum daje naglasak na vanjski izgled profila, a koriste se tehničke prednosti PVC-a
- Aluminijumska obloga daje izgled robustnog profila, istovremeno štiteći PVC od atmosferskih uticaja uz dokazanu visoku otpornost, izdržljivost i dugi vijek trajanja

- all mentioned characteristics for IDEAL 5000 are valid, double and triple glazing is possible
- a combination of Aluminum and PVC doors and windows, where Aluminum accentuate outward appearance of the profile, using the technical advantages of PVC
- the Aluminum part can be coated in a wide range of colors according to RAL color chart or anodized in any color of anodizing color chart, enabling architects a wide range of design options
- Aluminum cladding gives the appearance of a robust profile, while protecting PVC from weather conditions with proven high resistance, durability and long life



## energeto® 5000®



SPECIJALNA NARUDŽBINA  
Special order

- energeto® je najbolji prozor u svojoj klasi bez metalnog ojačanja i termičkog mosta u konstrukciji okvira i krila
- toplotna provodljivost rama prozora  $U_f=1,0 \text{ W/m}^2\text{K}$ , dok se sa uobičajnim trostrukim ostakljenjem može postići vrijednost toplotne provodljivosti kompletne prozore  $U_w$  up do  $0,87 \text{ W/m}^2\text{K}$
- ove maksimalne vrijednosti se postižu lijepljenjem prozorskog krila i stakla, dok su sa druge strane prozorski okvir i krila ojačani posebno razvijenim powerdur staklenim vlaknima
- izvanredna zaštita od buke do IV klase zvučne izolacije
- testirana klasa protivprovalne otpornosti RC2

- energeto® is the best window in its class without metal reinforcement and thermal bridge in the construction of the frame and sash
- frame thermal transfer coefficient value  $U_f=1,0 \text{ W/m}^2\text{K}$ , while with the usual triple glazing can achieve the value of thermal conductivity of entire window  $U_w$  up to  $0,87 \text{ W/m}^2\text{K}$
- the maximum value is obtained by gluing of the window sash and the glass, while window frame and sash are reinforced with specially developed powerdur fiberglass
- excellent sound insulation up to class IV sound insulation
- tested burglar resistance class RC2



## energeto® 5000® - view

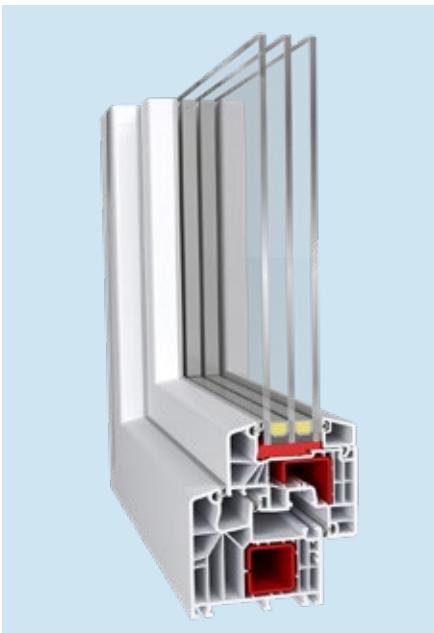
concealed sash – skriveno krilo



SPECIJALNA NARUDŽBINA  
Special order

- inovativni dizajn sa skrivenim krilom
- izuzetno tanka i sofisticirana spoljašnja optika prozora zahvaljujući primjeni Aluminijumske obloge AluSkin®
- toplotna provodljivost rama prozora  $U_f=1,0 \text{ W/m}^2\text{K}$
- ostakljenje debeline 49 mm
- testirana klasa protivprovalne otpornosti RC2
- odlična zvučna izolacija
- fini klasični dizajn profila za sobe ispunjene svjetlošću

- innovative concealed sash design
- extremely slim and sophisticated window optics from the outside thanks to the application of the AluSkin® Aluminum claddings
- frame thermal transfer coefficient value  $U_f=1,0 \text{ W/m}^2\text{K}$
- glazing thickness of 49 mm
- tested burglar resistance class RC2
- excellent sound insulation
- fine classical profile design for light-flooded rooms



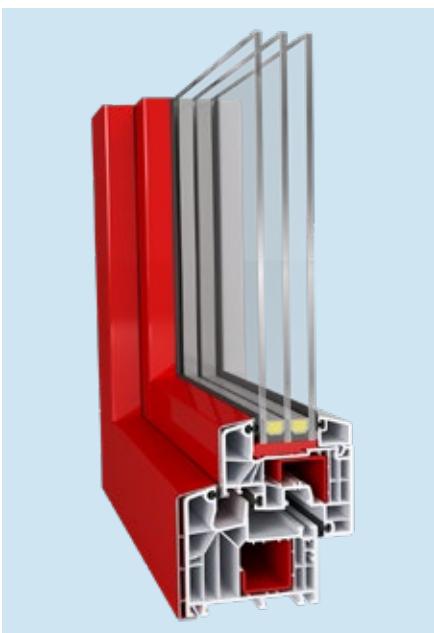
## IDEAL 8000®



UVIJEK DOSTUPNO  
Always available

- niskoenergetski profil najmodernijeg dizajna sa 6 komora, ugradnom dubinom d=85 mm i 3 dihtunga
- treći tj. srednji dihtung koji je na krilu, a ne u štoku, obezbeđuje da je okov uvijek u suvoj zoni i čini sistem protivprovalnim
- odlična topotna izolacija, standardno topotna provodljivost rama prozora  $U_f = 1,0 \text{ W/m}^2\text{K}$
- debijina ostakljenja do 51 mm (59 mm max), standardno se stakli sa 4+18+4+16+4 mm Low-e Ug=0,5 W/m<sup>2</sup>K i u ovoj kombinaciji zadovoljava uslove Instituta za Pasivne Kuće jer je topotna provodljivost kompletog prozora  $U_w = 0,74 \text{ W/m}^2\text{K}$
- odlična zvučna izolacija do 47 dB (do klase V zvučne izolacije)

- system of low energy profile of most modern design with 6 chambers, installation depth d=85 mm and 3 seals
- third ie. middle seal that is on the wing, not in the frame, ensures that fittings are always in the dry zone and makes the system burglar proof
- excellent heat insulating, as a standard heat insulation of window frame  $U_f = 1,0 \text{ W / m}^2\text{K}$
- glazing thickness up to 51 mm (59 mm max), standard glazing is 4+18+4+16+4 mm Low-e Ug=0,5 W/m<sup>2</sup>K, in this combination meets the requirements of Passive House Institute standard since thermal insulation of the entire window  $U_w = 0,74 \text{ W/m}^2\text{K}$
- excellent sound insulation up to 47 dB (up to class V sound insulation)



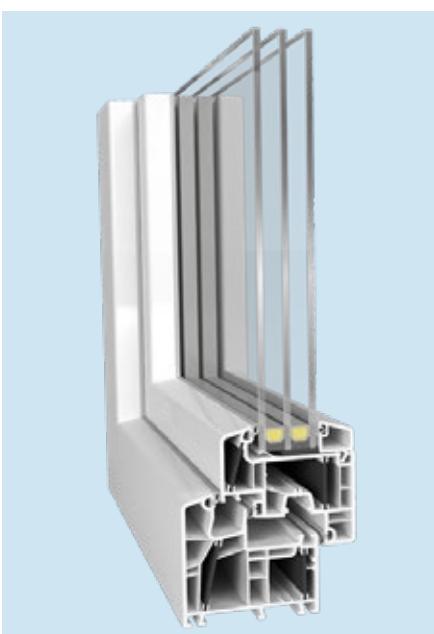
## AluSkin® IDEAL 8000®



SPECIJALNA NARUDZBINA  
Special order

- važe sve karakteristike kao i za IDEAL 8000
- predstavlja kombinaciju ALU i PVC stolarije, s tim da Aluminijum daje naglasak na vanjski izgled profila, a koriste se tehničke prednosti PVC-a
- Aluminijumska obloga daje izgled robustnog profila, istovremeno štiteći PVC od atmosferskih uticaja uz dokazanu visoku otpornost, izdržljivost i dugi vijek trajanja

- all mentioned characteristics for IDEAL 8000 are valid
- a combination of Aluminum and PVC doors and windows, where Aluminum accentuate outward appearance of the profile, using the technical advantages of PVC
- the Aluminum part can be coated in a wide range of colors according to RAL color chart or anodized in any color of anodizing color chart, enabling architects a wide range of design options
- Aluminum cladding gives the appearance of a robust profile, while protecting PVC from weather conditions with proven high resistance, durability and long life



## energeto® 8000®



SPECIJALNA NARUDZBINA  
Special order

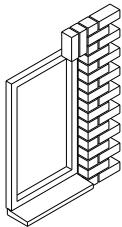
- energeto® je trenutno najbolji prozor na tržištu bez metalnog ojačanja i termičkog mosta u konstrukciji okvira i krila
- može postići topotnu provodljivosti kompletog prozora  $U_w$  do 0,65 (punjen pjenom do 0,60) W/m<sup>2</sup>K
- ove maksimalne vrijednosti se postižu lijepljenjem prozorskog krila i stakla, dok su sa druge strane prozorski okvir i krila ojačani posebno razvijenim powerdur staklenim vlknima
- izvanredna zaštita od buke do V klase zvučne izolacije i testirana klasa protivprovalne otpornosti RC2

- energeto® is the best window in the market without metal reinforcement and thermal bridge in the construction of the frame and sash
- thermal conductivity of entire window  $U_w$  value up to 0,65 (foam filled up to 0,60) W/m<sup>2</sup>K
- these maximum values are obtained by gluing of the window sash and the glass, while window frame and sash are reinforced with specially developed powerdur fiberglass
- excellent sound insulation up to class V sound insulation and tested burglar resistance class RC2

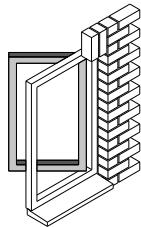
# Sistemi otvaranja PVC i AluSkin® stolarije

## Systems of opening PVC and AluSkin® doors and windows

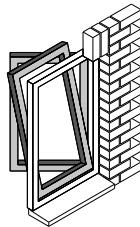
**Fiksni jednokrilni prozor**  
Fixed single window



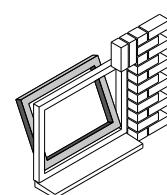
**Jednokrilni prozor**  
Single opening window



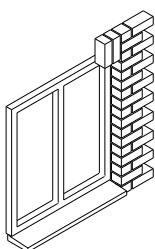
**Okretno nagibni prozor**  
Tilt and Turn window



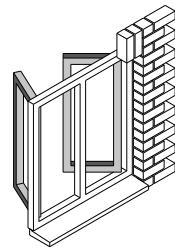
**Ventus prozor**  
Tilt window



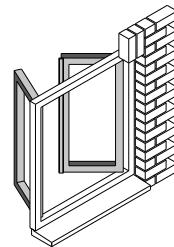
**Fiksni dvokrilni prozor**  
Fixed double window



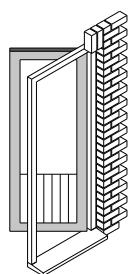
**Dvokrilni prozor (sa prečkom)**  
Double opening window (with mullion)



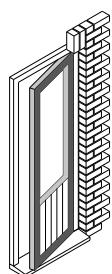
**Dvokrilni prozor (sa pokretnom prečkom - štulpom)**  
Double opening window (with false mullion)



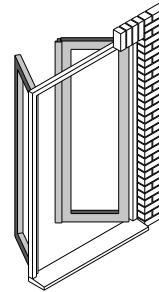
**Jednokrilna vrata  
(otvaranje unutra)**  
Inward opening single door



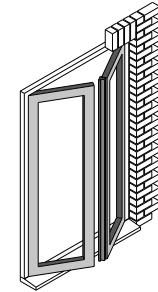
**Jednokrilna vrata  
(otvaranje vani)**  
Outward opening single door



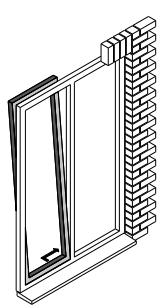
**Dvokrilna vrata  
(otvaranje unutra)**  
Inward opening double door



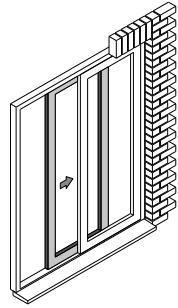
**Dvokrilna vrata  
(otvaranje vani)**  
Outward opening double door



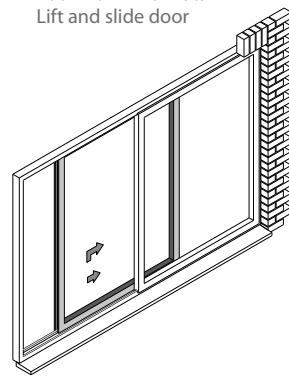
**Šiber-kip vrata**  
Parallel sliding door - PSK



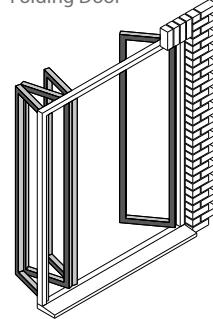
**Klizna vrata**  
Sliding door



**Podizno-klizna vrata**  
Lift and slide door



**Harmonika vrata**  
Folding Door





Stara Pazova, Muehlbauer - AluSkin® Ideal 5000



Zlatibor, apartmani Sporting-MB - AluSkin® Ideal 5000



Novi Sad, Vojvode Knićanina - PVC Ideal 5000



Švajcarska-Switzerland, Wollerau , Heinleinstrasse -  
PVC Ideal 5000



Švajcarska-Switzerland, Zurich , Schauenbergstrasse -  
PVC Ideal 5000



Švajcarska-Switzerland, Zweiselen , Lettenstrasse-  
PVC Ideal 5000



Brčko, privatna kuća/private house - AluSkin® Ideal 5000



Beograd, Savska - PVC Ideal 4000



Bosanski Brod, policijska stanica/police station -  
PVC Ideal 4000



Novi Sad, Cara Dušana - PVC Ideal 4000



Novi Beograd, hram/tempelj Svetog Simeuna -  
AluSkin® Ideal 5000



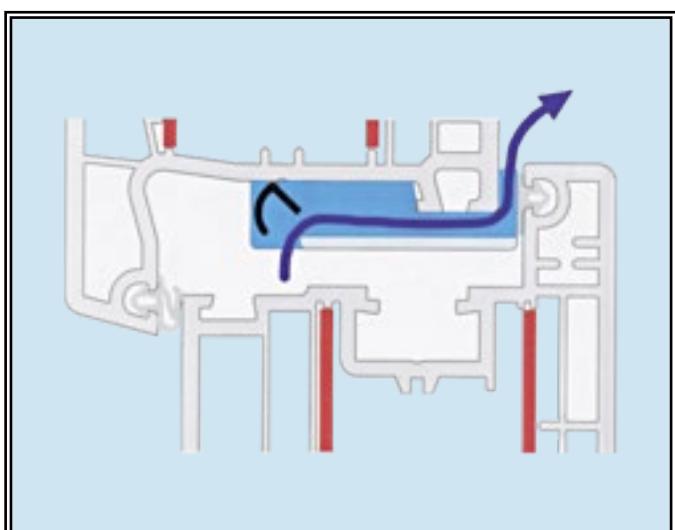
Beograd, Cerska - AluSkin® Ideal 5000

## Sistemi provjetravanja (Integrисani u prozorske profile)

Nastajanje budи u kućи ili stanu prisutno je kada su građevinski dijelovi objekta konstantno vlažni i ne mogu da se osuše.

Pored optičkog nedostatka čestice budи predstavljaju opasnost po zdravlje. Uzrok stvaranja budи je nedovoljna termička izolacija ili loš način gradnje, nepostojanje plana za provjetravanje, nestručno postavljanje unutrašnje izolacije kao i previsoka vlažnost (vlažni ostaci građevinskog materijala ili pogrešne navike u provjetravanju).

Za riješenje ovog problema Aluplast je razvio specijalne ventilacione sisteme, koji reagujući na trenutne uslove okoline regulišu izmjenu vazduha i ostvaruju time optimalnu klimu prostorije uz za-državanje niske potrošnje energije.



### REGEL-air®

#### Vaše prednosti:

- ventilacioni sistem je naročito podesiv za primjenu u najčešće prisutnim uslovima pritiska (od 4 do 60 Pa)
- obezbjeđuje optimalnu klimu prostorije
- REGEL-air® se može koristiti kao element i za dovod i za odvod vazduha
- REGEL-air® - ventilacioni element se ugrađuje samo u gornjoj zoni prozora
- svježi vazduh spolja koji dolazi do donjeg dijela profila penje se između profila rama i krila ka gore preko ventilacionog elementa i dospijeva kao prethodno zagrijani vazduh u unutrašnjost prostorije
- ne dolazi do pojave promaje pošto se dovod vazduha odvija preko vazdušnog sistema i gornjeg nivoa zaptivanja krila pa se vazduh sprovodi odmah ispod plafona
- dovedeni svježi vazduh miješa se sa nekorišćenim toplijim vazduhom prostorije tako da se prostorije efikasnije zagrijevaju i provjetravaju štedеći energiju
- REGEL-air® vazdušni sistem se brzo montira i može se bez problema postaviti u već ugrađen prozor

## Ventilation systems (Integrated in the window profiles)

Mould growth in the house or flat occurs when constructional elements are permanently damp and are not allowed to dry.

Mould affects not only the outward appearance of your rooms but also your health due to the toxic mould spores. The main reasons for mould growth generally are deficient thermal insulation, bad construction, missing ventilation planning, improper interior insulation and an increased level of humidity (residual moisture from construction or wrong ventilation habits).

In order to solve this problem Aluplast developed self-regulating ventilation systems that control the air exchange in accordance with the environmental conditions and by this means provide fresh and hygienic air while keeping energy consumption low.

#### Svojstva:

- relativno visoke vrijednosti propuštanja vazduha u rasponu razlike u pritisku do 20 Pa
- automatsko regulisanje sklapanja u uslovima uobičajenih vremenskih uslova pri pritisku od 20-40 Pa
- zvučna zaštita do IV klase zvučne izolacije (42 dB)

#### Features:

- high air passage values in pressure differences ranges of up to 20 Pa
- automatic lowering control in the main weather range from 20 to 40 Pa
- sound insulation up to sound transmission class IV (42 dB)

### REGEL-air®

#### Your advantages:

- excellently suited for the most frequently occurring pressure ratios between 4 and 60 Pa
- provides an optimum room climate
- REGEL-air® can be used as an inlet air as well as an outlet air system
- REGEL-air® is only fitted in the upper area of the window
- the fresh air fed into the lower area of the profile from outside, rises upwards between the sash and the window frame via the ventilator and reaches the room as pre-warmed air
- draughts do not occur, as the feed air is led directly via the ventilation system and via the upper sash sealing level under the ceiling
- there, the fresh air fed-in mixes with the unused warmer room air; this ventilates the rooms effectively and in an energy-saving manner
- the REGEL-air® ventilation system can be fitted easily in windows that are already in place

## Sigurnost i protivprovalna zaštita

Prema izveštajima policije najomiljeniji načini provale su udaranje, bušenje i razbijanje vrata i prozora. Zaštite sebe i svoj dom od nepozvane posete odgovarajućim Jelen prozorima i vratima. Odlučujuće za kvalitet jednog prozora ili vrata u pogledu na protivprovalnu zaštitu čini sadejstvo profila, stakla i mehanizma okova. Novi standard (DIN EN 1627) kvalifikuje protivprovalne prepreke prema klasama otpornosti od RC 1 N do RC 6. Sledeća tabela daje prikaz načina dejstva provalnika prema klasi otpornosti RC 1 N do RC 3 (WK 1 do WK 3) koje se najčešće koriste kod prozora i vrata.

RC 1 N	WK 1	3 min	Gradevinski elementi u ovoj klasi ispunjavaju samo osnovni stepen zaštite od nasilnih pokušaja navaljivanjem težinom tijela, pokušajem nasilnog vađenja. U ovoj klasi prozori se proizvode samo sa standardnim staklom.
RC 2 N	WK2 bez sigurnosnog stakla	3 min	Počinilac amater koristi jednostavan alat kao što su odvijač, klješta, kajle i slično kako bi nasilno provalio u zatvoreni elemenat. Pošto je u ovom slučaju isključen pokušaj provale kroz staklo, elementi ove klase su proizvedeni samo sa standardnim staklom.
RC 2	WK 2	3 min	Počinilac i način provale su isti kao i kod prethodne klase. Ali je kod elemenata u klasi RC 2 pa naviše propisano sigurnosno staklo prema normi EN 356
RC 3	WK 3	5 min	Počinilac koristi dodatno još neke vrste odvijača i pajser, da bi razvalio zatvoreni elemenat.



RC 1 N	WK 1	3 min	Components in resistance class 1 offer basic protection against attempted forced entry with physical violence, such as kicking or pulling out. This class comprises only windows with standard glazing.
RC 2 N	WK 2 without safety glass	3 min	Casual thieves use simple tools as well, such as screwdrivers, pliers and wedges, to break open the closed and locked component. Forced entry is supposed to be prevented by other means, for this reason only standard glazing is installed.
RC 2	WK 2	3 min	Expected burglar type and burglar behaviour correspond to class RC 2 N. The installation of a safety glass according to EN 356 is mandatory.
RC 3	WK 3	5 min	The habitual burglar uses a second screwdriver and a crow-bar as well to break open the closed and locked component.



skriveni prihvatični okova za najviši nivo protivprovalne zaštite isporučuju se u osnovnoj kombinaciji svih varijanti Aluplast IDEAL 5000 i 8000 sistema

hidden fittings striking plates for the highest level of burglar protection are delivered in basic combination of all variants Aluplast IDEAL 5000 and 8000 systems

## Zaštita od buke

Prozori i vrata se po zvučnoj izolaciji svrstavaju u različite klase. Vrijednost u klasifikaciji je zvučna izolaciona moć. Shodno jačini buke određuje se vrijednost zvučne izolacije prozora. Prostorije u kojima je prisutna vanjska buka trebaju biti opremljene prozorima sa visokom zvučnom izolacionom moći (visokom klasom zvučne izolacije).

## Protection against noise

According to noise insulation windows and doors are classified into different classes. Value in the classification means the sound insulating power. Background noise determines the value of the sound insulation of windows and doors. Rooms where external noise is present should be equipped with windows and doors with high sound insulating power (high class of sound insulation).

- Motocikl oko 70 dB
- Automobil oko 75 dB
- Kamion oko 90 dB
- Avion oko 140 dB



## AluSkin osnovne boje

1. Antracit tamno siva plastificirana RAL 7016 ferogrey mat
2. Siva Eloksirana (Silver) S-1
3. Braon plastificirana RAL 8014
4. Bijela plastificirana RAL 9016,

dok se za veće količine mogu poručiti i druge boje.



## AluSkin basic colors

1. Anthracite dark gray RAL 7016 powder coated ferogrey mat
2. Silver Anodized S-1
3. Brown powder coated RAL 8014
4. White powder coated RAL 9016,

UVIJEK DOSTUPNO  
Always available

while for bigger quantities is possible to order other colors.

## Dekor folije

Sve Aluplast dekor folije su proizvedene sa inovativnom tehnologijom, koja garantuje značajno poboljšanje upotrebnih svojstava dekora kao i još duži životni vijek površinskog sloja.

Naše folije su proizvedene sa specijalnim, za tu svrhu razvijenim pigmentima koji značajno smanjuju površinsku temperaturu prozora sa folijom. Na raspolaganju vam стоји preko **40 dekor folija** sa kojima možete prema individualnoj želji oblikovati i obojiti izgled vaše fasade.



## Decor lamination

SPECIJALNA  
NARUDŽBINA  
Special order

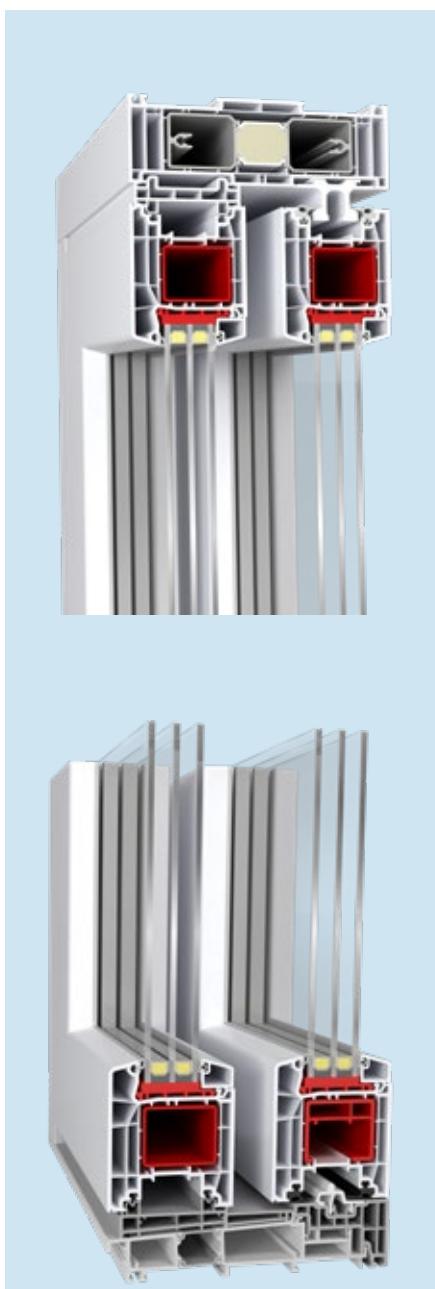
All Aluplast decor laminations feature an innovative technology for improved performance characteristics and a longer life cycle of the surfaces.

Our lamination foils are provided with specially developed patent-protected pigments that considerably reduce the surface temperature of laminated window profiles. Choose between more than **40 different decor** laminations and design and color your facade to your wish.



Podizno-klizna vrata

*Lift and slide doors*



Podizno-klizna vrata su projektovana za nesmetan prolaz na balkone, terase i dvorišta. Krilo vrata se otvara bočno (horizontalno) i kliže pomoću specijalnih točkića po vodilici. Ova vrata omogućavaju klizno otvaranje elemenata sa velikim staklenim površinama bez fizičkog napora. Za otvaranje se koristi zaokretna ručica koju okrenete prema gore da bi se vrata pridigla, a nakon toga ih jednostavno gurnete u željenom smjeru i blokirate u bilo kom položaju spuštanjem ručice na dole.

Lift and slide doors are designed for unhindered passage on balconies, terraces and courtyards. Door leaf opens laterally (horizontally) and slides on guide using special wheels. This sliding door allows opening elements with large glass surfaces without physical effort. Turn handle is used for opening the door by turning up of handle door is lifted up, after that you simply push the door in desired direction and block in any position turning down the handle.

## HST 85mm®



UVIJEK DOSTUPNO  
Always available

- podizno-klizna vrata omogućavaju velike staklene površine
- atestirana kod instituta IFT Rosenheim max dimenzija dvokrilnog elementa HST 85 je čak 6000 x 2800 mm
- nisko energetski profil na najvišem nivou modernog dizajna ugradne dubine d=197 mm
- ojačanje štoka sa termo prekidom, Aluminijumski niskoprofilni prag, vrhunski klizni okov služe za najbolju toplotnu i zvučnu izolaciju
- odlične karakteristike toplotne izolacije, standardno toplotna provodljivost rama vrata  $U_f=1,3 \text{ W/m}^2\text{K}$  (minimum  $U_f=1,1 \text{ W/m}^2\text{K}$ )
- debљina ostakljenja do 51 mm, standardno se stakli sa 4+18+4+16+4

mm Low-e  $U_g=0,5 \text{ W/m}^2\text{K}$  i u ovoj kombinaciji zadovoljava uslove Instituta za Pasivne Kuće

- u varijanti AluSkin® HST85 predstavlja kombinaciju ALU i PVC vrata, s tim da Aluminijum daje naglasak na vanjski izgled profila, a koriste se tehničke prednosti PVC-a
- Aluminijumski dio se može plastificirati u velikoj paleti boja prema RAL ton karti ili eloksiратi u neku od boja iz ton karte eloksaže, što omogućava arhitektima niz mogućnosti oblikovanja
- Aluminijumska obloga daje izgled robustnog profila, istovremeno štiteći PVC od atmosferskih uticaja uz dokazanu visoku otpornost, izdržljivost i dugi vijek trajanja

## AluSkin® HST 85mm®

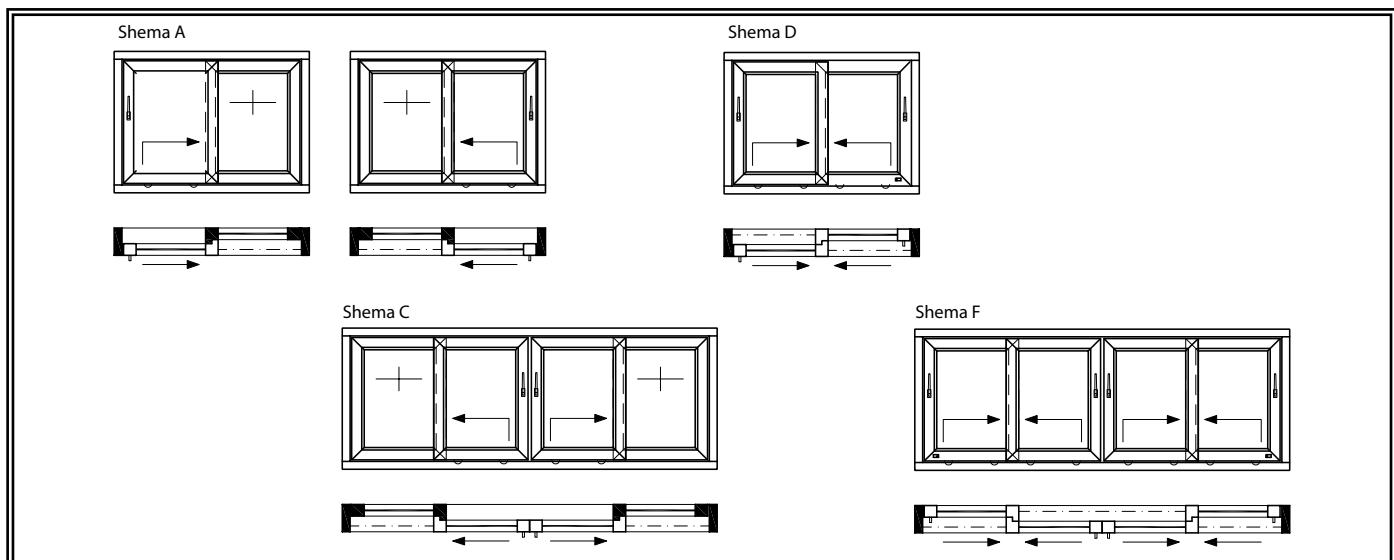


UVIJEK DOSTUPNO  
Always available

- lift and slide doors allow large glass surfaces
- certified at IFT Rosenheim institute max dimension of 2 leaf element HST 85 is even 6000 x 2800 mm
- low energy profile at the highest level of modern design installation depth d = 197 mm
- reinforcement of frame with thermal break, Aluminum low profile threshold, top quality slide fittings are used for best thermal and acoustic insulation
- excellent heat insulating characteristics, as a standard heat insulation of door frame  $U_f = 1,3 \text{ W / m}^2\text{K}$  (minimum  $U_f=1,1 \text{ W/m}^2\text{K}$ )
- glazing thickness up to 51 mm, standard glazing is 4+18+4+16+4

mm Low-e  $U_g=0,5 \text{ W/m}^2\text{K}$ , in this combination meets the requirements of Passive House Institute standard

- in variant AluSkin® HST85 represents a combination of Aluminum and PVC doors, where Aluminum accentuate outward appearance of the profile, using the technical advantages of PVC
- the Aluminum part can be coated in a wide range of colors according to RAL color chart or anodized in any color of anodizing color chart, enabling architects a wide range of design options
- Aluminum cladding gives the appearance of a robust profile, while protecting PVC from weather conditions with proven high resistance, durability and long life



Sheme otvaranja podizno-kliznih vrata  
Opening schemes of lift and slide doors



## S560® | Smartia®

SPECIJALNA  
NARUDŽBINA  
Special order

S560 je robustan podizno-klizni sistem koji obezbeđuje visok nivo topotne izolacije, fleksibilnost u izradi i idealan je za velike otvore. S560 nudi fleksibilnost koja pomaže u izradi prozora i vrata za male i veoma velike otvore. Zahvaljujući čvrstini i konstrukciji profila omogućuje bolju vezu spoljne i unutrašnje sredine.

- Dubina krila: 56mm
- Glatko i lagano klizanje zahvaljujući inoks šinama
- Podizno-klizni mehanizmi za krila od 90, 150 i 300 kg
- Opciono može imati zatravljivanje u više tačaka
- Visok nivo topotne izolacije: Uf od 2,2 do 4,6 W/m2K
- Pokriva sve tipologije za klizne sisteme

S560 is a robust lift and sliding system that provides high level of thermal insulation, flexibility in construction and is ideal for large openings. S560 offers flexibility given that it helps building windows & doors for small or very large spans. It offers quality constructions because of the profiles' stiffness and enables both internal and external „framing“ for a stronger connection of the profiles.

- Sash depth: 56mm
- Smooth and easy sliding thanks to inox rails
- Lift & sliding mechanism for sashes of 90, 150 & 300 Kg
- Optional multi-locking mechanism can be installed
- High level of thermal insulation: Uf from 2,2 to 4,6 W/m2K
- Covers all typologies of sliding systems



## S700® | Supreme®



SPECIJALNA  
NARUDŽBINA  
Special order

- S700 je najbolje rangirani Alumil sistem koji predstavlja novu generaciju naprednih sistema. Kreiran je da u potpunosti iskoristi velike dimenzije sa svojim minimalnim dizajnom
- širina krila 84 mm i preklapanja krila samo 47 mm kod dvokrilnih vrata, za maksimalni svjetlosni efekat, i visinom vrata do 3,00 m
- Niski termo izolovani profil praga
- Inteligentni sistem odvođenja vode, savršen pri jakim pljuskovima
- Posebni 24 mm anti-distortion poliamidi, za izbjegavanje "banana" efekta, usled velikih temperaturnih razlika spolja i iznutra
- Visoka topotna izolacija (termička provodljivost kompletnih vrata Uw do 1,3 W/m2K)

- S700 is the top-ranked Alumil system that represents the new generation of advanced systems created to fully exploit wide spans with its minimal design
- narrow sash face width of only 84 mm and interlocking face width of only 47 mm for double sash sliding doors, for maximum visibility, and door height up to 3,00 m
- low thermal break threshold profile
- intelligent water evacuation system, perfect for heavy rainfalls
- special 24 mm anti-distortion polyamides for avoiding the banana effect, due to high temperature differences between indoors and outdoors
- high thermal insulation (thermal conductivity of complete door Uw up to 1,3 W/m2K)



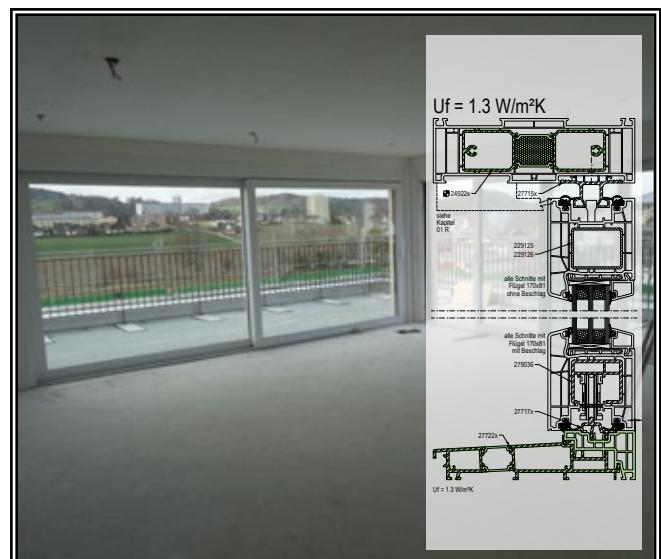
Švajcarska-Switzerland, La Tour-de-Peilz, HST 85 Antracit foil



Švajcarska-Switzerland, La Tour-de-Peilz , HST 85 Antracit foil



Švajcarska-Switzerland, Wohlerstrasse 20, Dottikon, AluSkin®  
HST 85, RAL 8014



Švajcarska-Switzerland, Wohlerstrasse 20, Dottikon, AluSkin®  
HST 85, RAL 8014



S560® Alumil, plastifikacija efekat drveta/powder coating wood  
effect Zlatni Hrast/Golden Oak



HST 85 PVC bijelo/white



Aluminijumska bravarija

*Aluminum doors  
and windows*

**ALUMIL**  
ALUMINIUM

Aluminijumsku bravariju izrađujemo od profila, sa ili bez termičkog prekida. Površinska obrada profila vrši se anodnom oksidacijom (eloksažom) u sloju debljine od 18 do 24 mikrona, u boji eloksaže po izboru kupca ili plastifikacijom u bilo koju boju po RAL ton karti u sloju debljine od minimum 75 mikrona. Sva bravarija snabdjevena je odgovarajućim visokokvalitetnim **okovom italijanskih i njemačkih proizvođača** za otvaranje prema shemi. Svi spolja vidljivi dijelovi okova su eloksirani ili plastificirani, ostali dijelovi okova su pocinkovani i trajno zaštićeni od korozije. Stakljenje se vrši NAJKVALITETNIJIM „GUARDIAN” STAKLOM Extra Clear kvaliteta, vrste po izboru kupca. Zaptivke su izrađene od EPDM gume homogene tvrdoće u crnoj boji.

Zahvaljujući ovim karakteristikama Aluminijumska bravarija bez termičkog prekida napravljena od Hladnih profila je pravo rješenje za sve unutrašnje pregrade i prostore gdje je važna samo zvučna i hidro izolacija.

Bravarija izrađena od profila sa termičkim prekidom napravljena od TERMO profila predstavlja vrhunsko rješenje koje zadovoljava sve savremene potrebe za termičkom, hidro i zvučnom izolacijom. Koristiti se za objekte koji se zagrijavaju ili hlađe.

We produce aluminum doors and windows from profiles with or without thermal brake. Surface treatment of profiles is done with anode oxidation with thickness of 18-24 microns in color of the customer's choice or with powder coating in any color from RAL color scheme with thickness of 75 microns. All doors and windows are equipped with adequate high quality **accessories** from **Italian and German producers** according to the type of opening. All outside visible parts of accessories are anodized or powder coated, other parts are galvanized and permanently protected from corrosion.

Glazing is done with highest quality insulating glass "GUARDIAN" of *Extra Clear* quality, type of glass at customer choice. Gaskets are made of EPDM rubber with homogeny hardness in black color.

Thanks to above mentioned characteristics Aluminium doors and windows without thermal brake – made of COLD profiles are a right solution for all interior parties and spaces where only sound and hydro isolation is important.

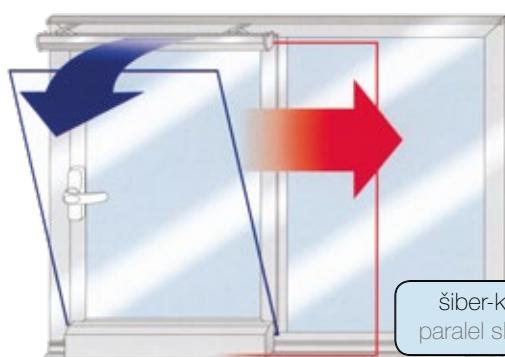
Doors and windows made of profiles with thermal brake – made of THERMO profiles are top solution which fulfills all contemporary requests for thermal, hydro and sound isolation and it is used for buildings which are heated or air conditioned.

Tehničke karakteristike profila / Technical Specification of Profiles

Legura / Aluminium alloy	AlMgSi (EN AW 6060)
Tvrdoća / Hardness	12 Webster ili/or 70 HB min.
Debljina stijenke profila / Profile thickness(min-max)	1,4-2,0 mm
Geometrija profila / Profile Geometry Control	Po/complies EN DIN 12020-2



klizni sistem  
sliding system



harmonika sistem  
folding system

šiber-kip sistem  
parallel slide system



grilje – kapci  
shutters



pregradni zidovi kancelarija / office dividing walls



## Hladni / Cold profil | M9400®

UVIJEK DOSTUPNO  
Always available

- ugradna dubina profila d=45 mm
- zaptivanje pomoću 3 EPDM zaptivke
- veliki broj različitih rješenja, sa mogućnošću upotrebe profila različitog estetskog dizajna
- posebno dizajnirani profili koji imaju vanjski oblik kao kod drvenih vrata
- debљina stakla do d=32 mm i nosivost krila do 130 kg

- installation depth d=45 mm
- sealing with 3 levels of EPDM seals
- large design variety, offering many aesthetic alternatives
- specially-designed profiles for wood-like frame construction
- glass thickness up to d=32 mm
- glass thickness up to d=32 mm and wing load up to 130 kg



## Termo / Thermo profil | M11000®

UVIJEK DOSTUPNO  
Always available

- ugradna dubina profila d=62,5 mm
- zaptivanje pomoću 3 EPDM zaptivke
- ostakljenje dvostruko ili trostruko do 57 mm
- profili sa dvije slobodne komore koje omogućavaju dobru evakuaciju vode i dobro vezivanje
- PA 6.6 poliamidi (24 mm) ojačani staklenim vlaknima za najvišu termo-prekid kategoriju
- odlična zvučna izolacija (do 52dB)
- mogućnost izrade jednokrilnih ili dvokrilnih prozora i vrata sa ili bez grilja, konstrukcija sa nepravilnim uglovima i drugih aplikacija
- savršeno se uklapa sa Alumil linijama proizvoda za staklene fasade i ili staklene kupole
- WK3 klasa protivprovalne zaštite moguća

- installation depth d=62,5 mm
- sealing with 3 levels of EPDM seals
- glazing double or triple up to 57 mm
- profiles with two clear chambers, enhancing connection and water outflow
- fiber-enforced PA 6.6 polyamide (24 mm) for highest thermal break category
- excellent sound insulation (up to 52 dB)
- construction options: one or two-sash doors and windows, with or without shutters, profiles for angular constructions and other special applications
- perfect cooperation with Alumil's curtain wall and/or skylight product lines
- WK3 burglar protection class is possible



## Super Termo / Thermo profil | M11600®



SPECIJALNA  
NARUDŽBINA  
Special order

- visoka toplotna izolacija  $U_w = 0,99 \text{ W/m}^2\text{K}$ , uz staklo 4+16+4+16+4mm sa  $U_g = 0,60 \text{ W/m}^2\text{K}$
- ugradna dubina profila d=76,5 mm
- zaptivanje pomoću 3 EPDM zaptivke
- ostakljenje dvostruko ili trostruko do 70 mm
- profili sa dvije slobodne komore koje omogućavaju dobru evakuaciju vode i dobro vezivanje
- termički prekid pomoću PA 6.6 poliamida (34 mm) ojačanih staklenim vlaknima
- dodatna termoizolacija pomoću XPS ili Kooltherm bloka
- odlična zvučna izolacija (do 52dB)
- WK3 klasa protivprovalne zaštite moguća

- high thermal insulation  $U_w = 0,99 \text{ W/m}^2\text{K}$  using glass 4+16+4+16+4mm with  $U_g = 0,6 \text{ W/m}^2\text{K}$
- installation depth d=76,5 mm
- sealing with 3 levels of EPDM seals
- glazing double or triple up to 70 mm
- profiles with two clear chambers, enhancing connection and water outflow
- fiberglass-enforced PA 6.6 polyamide (34 mm) for increased thermal-break
- additional insulation using XPS or Kooltherm block
- excellent sound insulation (up to 52 dB)
- WK3 burglar protection class is possible



## Hladni / Cold Klizni sistem | WING®

UVIJEK DOSTUPNO  
Always available

- klizni sistem - sa dvije ili tri vodilice na koje se krila preko točkića oslanjaju u donoj zoni
- primjenjuje se za prostore otvorenog tipa kao što su bašte i terase gdje nije prioritet odlično dihtovanje
- širina krila 28 mm
- ugradna dubina profila d=47 mm (dvostruka vodilica) ili d=83 mm (trostruka vodilica)
- zaptivanje pomoću četkica
- ostakljenje stakлом d=20 mm – uobičajeno 4+12+4 mm staklo
- moguća izrada dvokrilnih i višekrilnih kliznih vrata i prozora sa ili bez grilja

- sliding system - with 2 or 3 guides on which sliding wings are leaned by wheels in bottom zone
- it is usually applied for the facilities of open type such as gardens or terrace where excellent insulation is not of main priority
- width of the wing 28 mm
- installation depth of profile d=47 mm (double rail) or d=83 mm (triple rail)
- sealing with brushes
- glazing with glass d=20 mm - usually 4+12+4 mm glass
- construction options: double or multiple sliding doors and windows with or without shutters



## Hladni Harmonika sistem / Cold Folding system | M9800®

UVIJEK DOSTUPNO  
Always available

- harmonika sistem sa gornjim kačenjem pomoću specijalnih šarki sa točkićima (nosivost 250 kg po setu, 125 kg po krilu)
- primjenjuje se za prostore otvorenog tipa kao što su bašte i terase gdje nije prioritet odlično dihtovanje
- ugradna dubina profila d=50 mm
- zaptivanje pomoću EPDM zaptivki i četkica
- ostakljenje stakлом d= 12-32 mm

- moguća izrada harmonika vrata i prozora sa ili bez grilja sa 3, 5, 7, 9, 11...krila (mora biti neparan broj krila koja kližu na jednu stranu)
- profili pogodni i za komercijalne i za privatne objekte
- ravna donja vođica za lakši prolaz
- mogućnost izrade vrata sa kvakom i bravom, sa šarkama unutra ili napolju
- termički prekid pomoću PA 6.6 poliamida (18 mm) ojačanih staklenim vlaknima kod sistema M19800®



## Termo Harmonika sistem / Thermo Folding system | M19800®

UVIJEK DOSTUPNO  
Always available

- folding system with the upper hanging with special hinges with wheels (load capacity of 250 kg per set, 125 kg per wing)
- it is usually applied for the facilities of open type such as gardens or terrace where excellent insulation is not of main priority
- installation depth of profile d = 50 mm
- sealing with EPDM seals and brushes
- glazing with glass d=12-32 mm
- construction options: folding doors and

- windows with or without shutters with 3, 5, 7, 9, 11...wings (must be an odd number of wings that slide to one side)
- profiles suitable for commercial and private facilities
- straight lower guide rails for easy passage
- possibility to make the door with handle and lock, with hinges inside or outside
- fiber-enforced PA 6.6 polyamide (18 mm) for increased thermal-break for system M19800®



Švajcarska-Switzerland, Bottmingen, osnovna škola /  
primary school - M11600® Alumil



Testić, hotel Kardial - M11000® Alumil



Kragujevac, SIGIT - M9650® Alumil



Beograd - M11000® Alumil



Vareš, osnovna škola / primary school - M11000® Alumil



Drvar, osnovna škola / primary school - M11000® Alumil



Beograd, WING® klizna vrata / sliding door



Brčko, Energosistem - M11000®, Alubond fasada / J-bond facade



Brčko, Alfi - M11000®, Alubond fasada / J-bond facade



Brčko, Autorad SKODA - M11000®, M6® Klasična staklena fasada / Classical curtain wall



Brčko, Komunalno - M11000®, M6® Klasična staklena fasada / Classical curtain wall



Brčko, Energy Benz, caffe bar - M19800®, Alubond fasada / J-bond facade



Staklene i Alubond  
fasade

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*Glass and Alubond facades*

Staklene fasade predstavljaju savremeni trend u izgradnji poslovnih objekata. Proizvode se od aluminijumskih profila, koji čine nosivu konstrukciju fasade i koji se dimenzionisu statičkim proračunom. Detaljne specifikacije materijala koji se koriste pri izradi fasada date su u poglavljju „Aluminijumska bravarija”.

Staklene fasade je moguće izraditi kao:

- **Polustrukturalne** - kod kojih je vidljiv tanak aluminijumski ram širine 14 mm po obodu staklenog polja, ali se ovim dobija znatno sigurnija konstrukcija jer je staklo ugrađeno u aluminijumski ram, koji preuzima glavnu konstruktivnu funkciju,
- **Klasične** - odnosno zid zavjese, gdje su podjele na staklenoj fasadi izvedene vidljivim aluminijumskim profilima u širini od 50-55 mm.

Otvaranje krila kod polustrukturalne fasade moguće je samo oko gornje horizontalne osovine ka vani, dok je kod klasične fasade moguće izvesti standardno otvaranje ka unutra oko jedne ili obe ose. Fasade se ostakljuju termoizolacionim staklima kod kojih spoljašnje staklo obavezno mora biti kaljeno ili lamistal (pambleks), kako bi se izbjegle eventualne nesreće usled loma stakla.

**Alubond** fasade se izrađuju od materijala nove generacije – kompozitnih aluminijumskih panela koji se odlikuju malom specifičnom težinom, otpornošću na atmosferske uticaje i vatru, obezbeđuju dobru zvučnu i topotnu izolaciju i lako se održavaju. Alubond paneli se izrađuju u različitim bojama, dezenima i debeljinama. Standardni paneli su debeljine  $d=4$  mm, gdje je aluminijumski lim  $d=0,5$  mm postavljen obostrano, u prirodnoj boji aluminijuma. Moguća je kombinacija staklenih i alubond elemenata pri izradi fasada objekta.

Glass facades represent a contemporary trend in public building construction. They are produced from Aluminum profiles, which make construction of facade and which are dimensioned with statically calculation. Detailed specifications of materials used for production of glass facades are given in chapter „Aluminum doors and windows”.

Glass facades can be made as:

- **Semi-structural** - where thin Aluminum frame with width of 14 mm is visible on edge of glass field, but we get more secure construction with this since glass is installed in Aluminum frame, which takes main constructive function,
- **Classical** - curtain wall where parties on glass facade are done with visible Aluminum profiles with width of 50-55 mm.

Opening of wing at semi-structural facades is possible only around top horizontal axe in direction towards outside. In classical curtain walls, it is possible to make standard opening towards inside around one or both axes. Facades are glazed with thermal insulated glasses where outside glass has to be tempered or laminated (pambleks), to avoid possible accidents caused by braking of glass.

**Alubond** facades are made of new generation materials – Aluminum composite panels which have following characteristics: small specific weight, good weather conditions/fire resistance, good thermal/sound isolation and easy maintenance. Alubond panels are made in different colors, designs and thickness. Standard panels are with thickness of  $d=4$  mm, where Aluminum sheet of  $d=0,5$  mm is on both sides, in natural Aluminum color. Combination of all types of glass and alubond elements is possible in building facade construction.





## Klasična staklena fasada / Classical curtain wall

SPECIJALNA  
NARUDŽBINA  
Special order

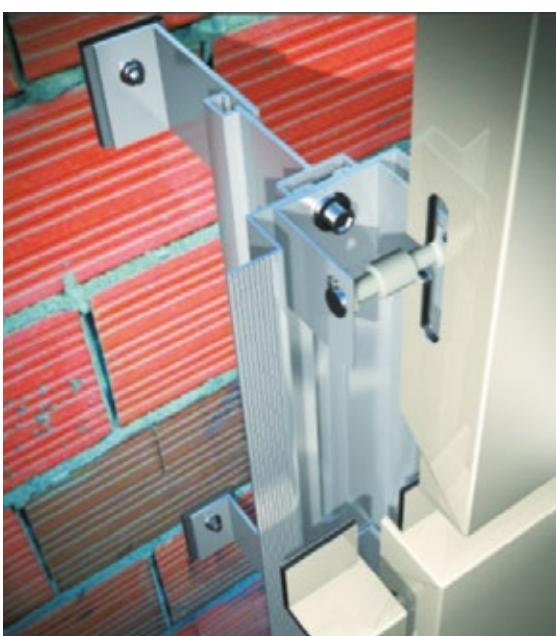
- termo izolovani fasadni sistem koji je idealan za robustne konstrukcije i za izradu velikih pozicija
- tri nivoa zaptivanja, koristeći EPDM dihtunge
- vidna širina vertikala i horizontala spolja i iznutra 50-55 mm za Klasičnu staklenu fasadu
- vidna širina vertikala i horizontala iznutra 50-55 mm i 14+14 mm spolja za Polustrukturalnu staklenu fasadu
- visoka toplopta izolacija čini sistem idealnim za sve klimatske regije
- veliki izbor vertikalna za velika opterećenja vjetra
- mnogobrojna dizajnerska rješenja vidnih poklopnih profila
- verzija strukturalnog zastakljivanja, bez poklopnih profila, uz



## Polustrukturalna staklena fasada / Semistructural curtain wall

SPECIJALNA  
NARUDŽBINA  
Special order

- thermal insulated curtain walls system which is ideal for robust constructions and for large frames fabrication
- three-level sealing, using EPDM gaskets
- visible width width of mullions and transoms inside and outside 50-55 mm for Classical curtain wall
- visible width width of mullions and transoms inside 50-55 mm and 14+14 mm outside for Semistructural curtain wall
- high thermal insulation making the system ideal for all climate regions
- big variety of mullions for high wind loads
- a variety of designs for the
- visible aluminum covers
- structural glass version without aluminum covers, with the same mullions and transoms
- all kind of opening windows can be added to the curtain wall (parallel projected, top hung, inwards tilt & turn, concealed sash tilt & turn) for Classical curtain wall
- same look of opening and fixed fields (only top hung opening outwards possible) for Semistructural curtain wall
- all kind of surfaces can be constructed (inclined, polygonal)
- possible to combine with all types of doors from the M11000® and M11600® systems



## Alubond fasada / J-bond facade

UVIJEK DOSTUPNO  
Always available

- Alubond/J-Bond aluminijumski kompozitni paneli od 4mm ukupne debljine sa srednjim polietilenskim slojem
- veliki izbor dimenzija i boja
- standardne boje uviјek na lageru su silver, žuta, crvena, antracit, bijela
- kompletno Aluminijumska noseća konstrukcija
- visoko otporna završna površinska zaštita, otporna na kiseline i baze, eroziju, postojanost boje i vodu
- visoka termička i zvučna izolacija
- oblikuje se i montira brzo i lako, što pojednostavljuje montažu i smanjuje troškove gradnje
- Alubond/J-Bond is a complete series of aluminum composite panels of 4 mm total thickness, with an intermediate polyethylene layer
- wide variety of dimensions and colors
- standard colors always on stock are silver, yellow, red, anthracite, white
- complete Aluminum profile supporting system
- flat surface with high resistant finishing
- excellent resistance in acid and alkaline environments, erosion, fading, water
- high thermal and sound insulation
- can be shaped and installed easily and quickly, simplifying and reducing the cost of construction



Beograd, Samardžić SKODA - M6® Klasična staklena fasada /  
Classical curtain wall



Indija, Martini gradnja - Alubond fasada / J-bond facade



Stara Pazova, Muehlbauer - M6® Klasična staklena fasada /  
Classical curtain wall



Bijeljina, hotel Drina – M19800®, Alubond fasada /  
J-bond facade



Derventa, Metalvis - M11000®, Alubond fasada / J-bond facade



Derventa, Zgrada opštine / Municipality building - M3®  
Polustrukturalna staklena fasada / Semistructural curtain wall



Derventa - Alubond fasada / J-bond facade, ograde / fences  
Elegant Alumil, AluSkin® Ideal 5000, sekciona vrata / sectional door



Brčko, Trgovina - M6® Klasična staklena fasada /  
Classical curtain wall



Derventa, Grmeč-hem - M6® Klasična staklena fasada /  
Classical curtain wall



Derventa, Mandić komerc - M4® Strukturalna staklena fasada /  
Structural curtain wall



Zrenjanin, Fulgar - M6® Klasična staklena fasada /  
Classical curtain wall



Doboj, Upravna zgrada Željeznica / Railway Administration Building - M3® Polustrukturalna  
staklena fasada / Semistructural curtain wall, Alubond fasada / J-bond facade



Automatska  
senzorska vrata

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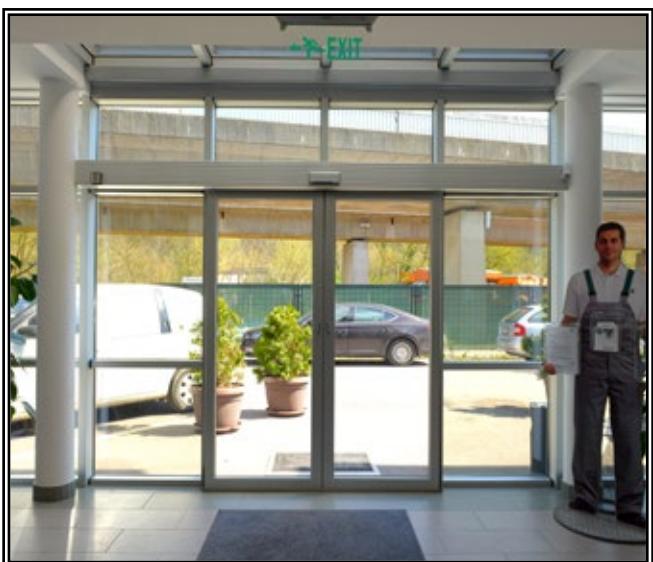
*Automatic sensor doors*



Beograd, Krnješevci, upravna zgrada/ headquarters Gatarić

Proizvodimo jednokrilna i dvokrilna senzorska vrata od aluminijumskih profila čije su karakteristike detaljno opisane u poglaviju „Aluminijumska bravarija“. Vrata se opremaju automatskom najnovije generacije sa senzorom pokreta u zoni vrata, koji aktivira mehanizam za otvaranje vrata. Takođe smo u mogućnosti da ponudimo automatiku najnovije generacije za otvaranje kapija, automatske barijere - rampe, automatiku za otvaranje sekpcionih i kliznih vrata. Moguća je kontrola automatskog otvaranja pomoću daljinskog upravljača ili preko tastera. U slučaju nestanka struje vrlo jednostavno se prelazi na manuelni režim rada. Sva automatska je **vrhunskog kvaliteta Italijanske i Njemačke proizvodnje**.

We manufacture single and double leaf sensor doors from Aluminum profiles whose specifications are given in chapter „Aluminum doors and windows“. Doors are equipped with automatics of last generation with movement sensor which activate mechanism for door opening. We can offer automatics of last generation for opening of gates, automatic barriers and automatics for opening of sectional and sliding doors. Automatic opening control is possible with remote control or push button. In case of electric power off it is very easy to transfer to manual opening mode. All automatics are **top quality Italian and German manufacture**.



Beograd, Rakovica, Samardžić SKODA



Hrvatska, Gospić, Energy Bentz - M11000®, Alubond fasada / J-bond facade, automatska senzorska vrata / automatic sensor doors



Hrvatska, Gospić, Energy Bentz benzinska pumpa / gas station



Autoput / Highway Zagreb-Beograd, Oktan promet YU benzinska pumpa / gas station



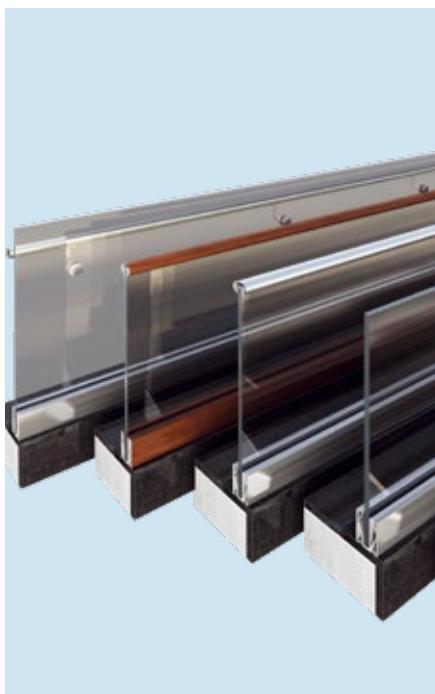
Aluminijumske i staklene  
ograde i kapije

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*Aluminum and glass  
fences and gates*

Aluminijumske ograde predstavljaju odlično rješenje za spoljašnju i unutrašnju primjenu. Aluminijum zadovoljava potrebe za čvrstim i postojanim materijalom, koji bez obzira na atmosferske uticaje dugotrajno obezbjeđuje funkcionalnost i estetiku ograde. Detaljne specifikacije profila koji se koriste pri izradi date su u poglaviju „Aluminijumska bravarija“. Ove ograde ne zahtijevaju bilo kakvo održavanje osim redovnog čišćenja. Moguće je umetanje elemenata od stakla koji ogradi daju posebnu estetiku. Proizvodimo krilne i klizne kapije od aluminijuma, čeličnih cijevi i Alubonda. Otvaranje kapija je moguće pomoću elektromotora sa daljinskim upravljanjem ili mehanički. U slučaju nestanka struje vrlo lako se prelazi na režim ručnog otvaranja. Ovdje su dati neki primjeri do sada urađenih ograda i kapija koje se kod nas proizvode prema narudžbi tako da je broj mogućih kombinacija koje stoje na raspolaganju neograničen.

Aluminum fences are an excellent solution for the outer and internal applications. Aluminum as a solid material that is resistant to all weather conditions provides long lasting function and aesthetics of the fence. Detailed specifications of profiles used for production are given in chapter „Aluminum doors and windows“. No maintenance is necessary for these fences except regular cleaning. It is possible to insert glass elements to the fence, which gives them special aesthetics. We manufacture wing and sliding gates from aluminum, steel profiles and Alubond. Gate opening is possible by electric motor with remote control or mechanically. In case of electric power off it is very easy to transfer to manual opening mode. Here enclosed you can find examples of some fences and gates made up to now but we make them according to customers wish so the combinations are unlimited.



## Staklena ograda / Glass Fence | M8200®

UVIJEK DOSTUPNO  
Always available

- vertikalna staklena ograda sa konstantnim donjim profilom za nošenje, bez poprečnih profila, koja nudi čistu preglednost i osjećaj slobode
- visoka nosivost zbog konstantnosti nosećeg profila
- laka i brza montaža
- maksimalna otpornost na vremenske uslove, posebno u primorskim oblastima
- montaža na podlogu ili bočno
- laminirano staklo 8.8.4 ukupne debljine 17,52 mm
- razni oblici rukohvata (zaobljeni, ovalni, ravni)
- dostupna u svim bojama eloksaže i plastifikacije

- vertical glass fence with constant lower carrying profile, without cross-section profiles, which offers pure transparency and sense of freedom
- high capacity due to the constancy of the carrier profile
- easy and quick installation
- maximum weather resistance, especially in coastal areas
- mounting on surface or sideway
- laminated glass 8.8.4 with total thickness of 17,52 mm
- various forms of handle (rounded, oval, flat)
- available in all colors of anodization or powder coating



## Aluminijumska ograda / Aluminum Fence | Elegant®

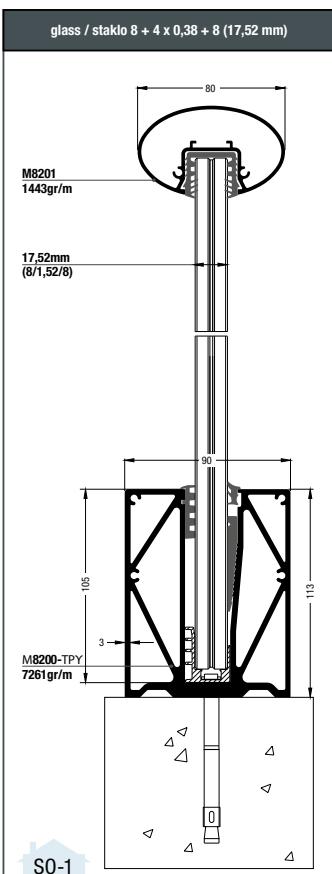
UVIJEK DOSTUPNO  
Always available

- sistem za aluminijumske balkonske, stubišne i dvorišne ograde
- vertikalne i horizontalne Aluminijumske ispune
- laka i brza montaža
- maksimalna otpornost na vremenske uslove, posebno u primorskim oblastima
- montaža na podlogu ili bočno
- razni oblici rukohvata (zaobljeni, ovalni, ravni, masivni)
- dostupna u svim bojama eloksaže i plastifikacije
- moguća ugradnja staklene ispune
- nema potrebe za održavanjem

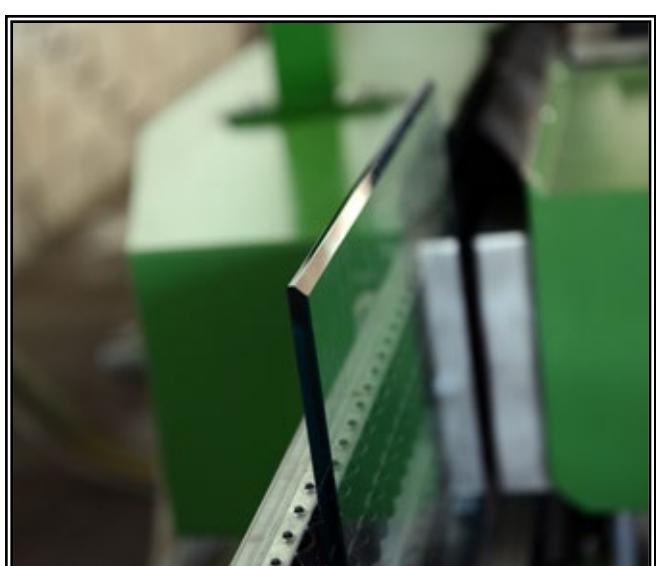
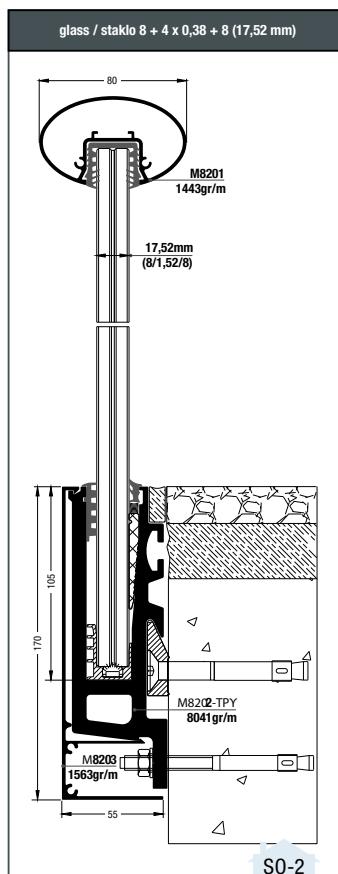
- system for aluminum balconies, staircases and courtyard fences
- vertical and horizontal Aluminum mullions
- easy and quick installation
- maximum weather resistance, especially in coastal areas
- mounting on surface or sideway
- various forms of handle (rounded, oval, flat, massive)
- available in all colors of anodization or powder coating
- possible installation of glass field
- there is no need for maintenance



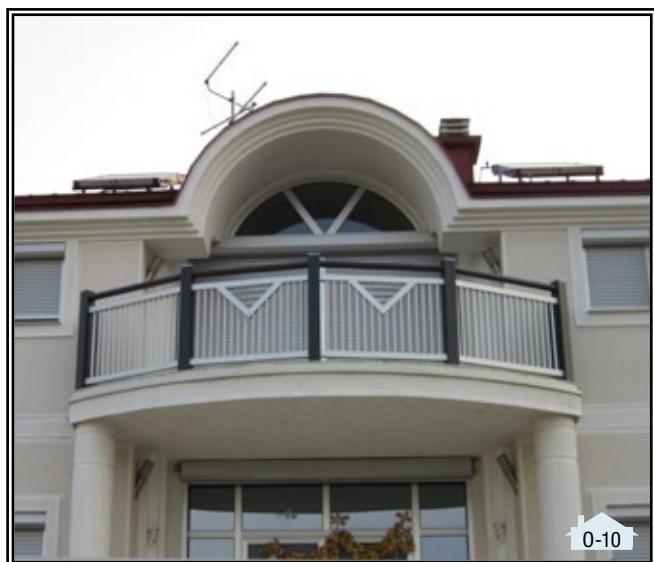
**Montaža odozgo**  
Top mount system



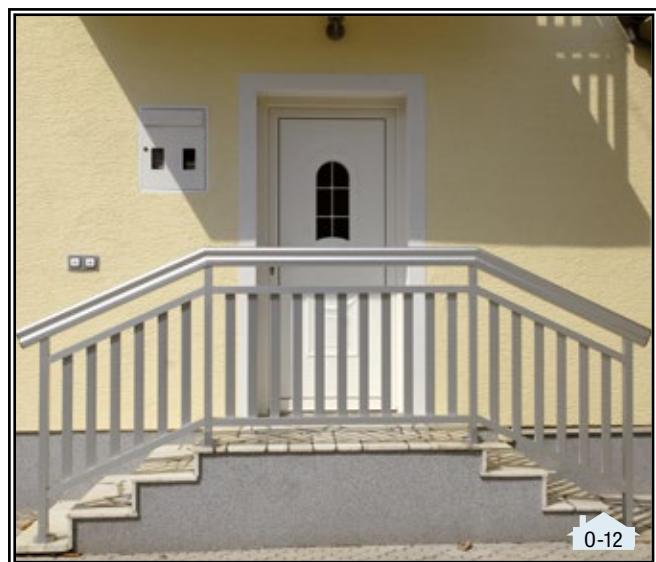
**Montaža sa strane za završen pod**  
Sidemount system for finished floor



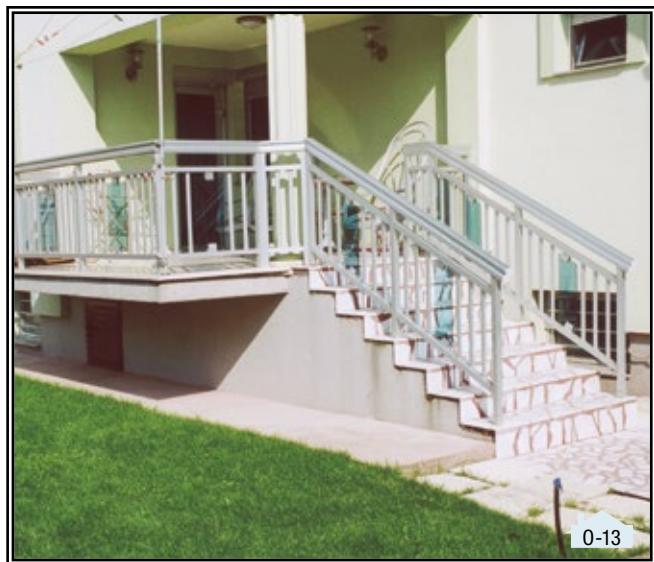
Brušene i polirane sve ivice stakla  
Grinded and polished all glass edges



0-10



0-12



0-13



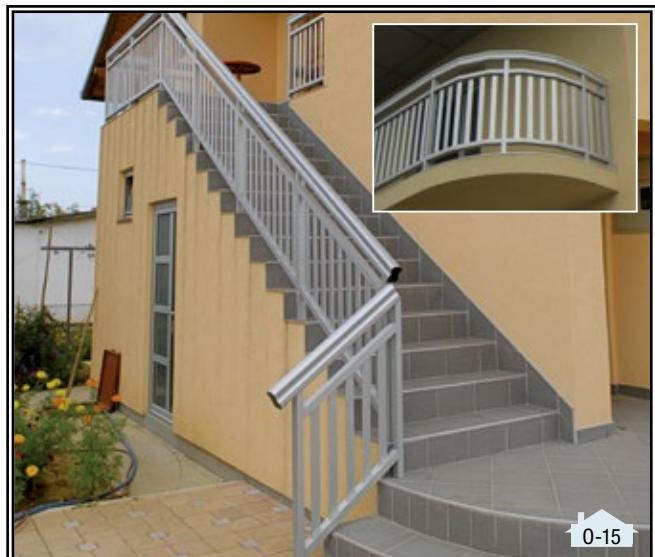
0-14

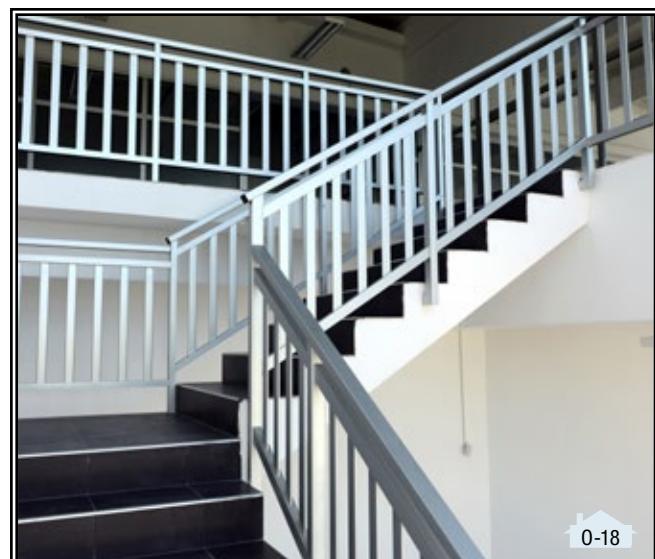


0-21



0-22







Ulagna vrata

*Entrance doors*

**ALUMIL**  
ALUMINIUM

**aluplast®**  
Kunststoff-Fenstersysteme

Uzlažna vrata koja proizvodimo od Aluminijumskih i PVC profila pokažala su se u našoj dugogodišnjoj praksi kao najpouzdanije rješenje koje i pored česte svakodnevne upotrebe ne mijenja svoje ključne karakteristike. Naša vrata povezuju najmoderniju tehnologiju sa najvećom stambenom udobnošću, garantujući radost uživanja dugi niz godina i prvaklasnu protivprovalnu zaštitu.

Ispuna krila vrata može biti:

- 1) Podjela prečkama prema shemi po Vašem izboru, popunjena ravnim termoizolacionim panelima i staklom koji obezbjeđuju odličnu termičku izolaciju.
- 2) Ukrasni panel sa ili bez staklenih otvora. Kupcima je na raspolaganju veliki izbor dezena panela koji svakim vratima daju poseban izgled. Aplikacije na panelima mogu biti od INOX lima ili od aluminijumskog lima u istoj boji kao i panel.

Standardne boje u kojima se izrađujemo vrata su:

1. Bijela PVC
2. Bijela plastificirana RAL 9016
3. Siva Eloksirana (Silver) S-1
4. Braon plastificirana RAL 8014
5. Antracit tamno siva Plastificirana RAL 7016 ferogrey mat, dok se za veće količine mogu poručiti i druge boje.

Entrance doors that we produce from Aluminum and PVC profiles prove as the best solution in our long-term experience that although in everyday use does not change their main characteristics. Our door connect the latest technology with the highest residential comfort, guaranteeing the joy of using doors for many years and first-class anti-theft protection.

Filling of the door wing can be:

- 1) The division by transoms and mullions according to the scheme of your choice, filled with insulation glass units and flat panels to provide excellent thermal insulation.
- 2) Decorative panels with or without glass. Customers can use a great variety of designs of panels, which each door give a special appearance. Applications on the panels may be of stainless steel or aluminum sheet in the same color as the panel.

Standard colors in which we produce the door are:

1. White PVC
2. White powder coated RAL 9016
3. Silver Anodized S-1
4. Brown powder coated RAL 8014
5. Anthracite dark gray RAL 7016 powder coated ferogrey mat, while for bigger quantities is possible to order other colors.

## Termički Alu profil | M11000®

UVIJEK DOSTUPNO  
Always available



- ugradna dubina profila d=62,5 mm
- zaptivanje pomoću 3 EPDM zaptivke
- profili za sve dimenzije vrata, pogodni i za komercijalne i za privatne objekte
- ostakljenje dvostruko ili trostruko do 57 mm
- profili sa dvije slobodne komore koje omogućavaju dobru evakuaciju vode i dobro vezivanje
- PA 6.6 poliamidi (24 mm) ojačani staklenim vlaknima za najvišu termo-prekid kategoriju
- odlična zvučna izolacija (do 52dB)
- savršeno se uklapa sa Alumil linijama proizvoda za staklene fasade i/ili staklene kupole
- WK3 klasa protivprovalne zaštite moguća

- installation depth d=62,5 mm
- sealing with 3 levels of EPDM seals
- specially designed profiles for doors of all sizes, ideally suitable for commercial and residential applications
- glazing double or triple up to 57 mm
- profiles with two clear chambers, enhancing connection and water outflow
- fiber-enforced PA 6.6 polyamide (24 mm) for highest thermal break category
- excellent sound insulation (up to 52 dB)
- perfect cooperation with Alumil's curtain wall and/or skylight product lines
- WK3 burglar protection class is possible

## PVC IDEAL 4000®

UVIJEK DOSTUPNO  
Always available



- sistem modernog dizajna sa 5 komora, ugradnom dubinom d=70 mm i 2 dihtunga između štoka i krila
- odlične karakteristike topotne izolacije, standardno topotna provodljivost vrata prozora  $U_f = 1,3 \text{ W/m}^2\text{K}$
- debљina ispune do 41 mm, standardno se isporučuje sa ispunom od ravnog PVC panela d=24mm  $U=1,1 \text{ W/m}^2\text{K}$
- cirkularni, unutrašnji dihtung i dodatni vanjski dihtung za prvaklasnu termoizolaciju
- kučni prag sa termičkim prekidom
- zavareni ugaoni spojevi garantuju visoku stabilnost
- optimalna zaštita zahvaljujući visokim standardima kvalitete i sigurnosti
- korištenje odgovarajućih sigurnosnih okova garantuje izvanrednu protivprovalnu zaštitu
- odlična zvučna izolacija do 45 dB (do klase IV zvučne izolacije)

- system of modern design with 5 chambers, installation depth d=70 mm and 2 seals between frame and wing
- excellent heat insulating characteristics, as a standard heat insulation of door frame  $U_f = 1.3 \text{ W / m}^2\text{K}$
- filling thickness up to 41 mm, standard combination delivered with flat PVC insulation panel d=24 mm  $U=1,1 \text{ W/m}^2\text{K}$
- circular, inner gasket and additional external gasket for first-class thermal insulation
- doorstep with thermal break
- welded corner joints guarantee high stability
- optimal protection thanks to the high quality and safety standards
- use of appropriate security hardware guarantees outstanding burglary protection
- excellent sound insulation up to 45 dB (up to class IV sound insulation)



## Hladni Alu profil | M9400®

UVIJEK DOSTUPNO  
Always available

- ugradna dubina profila d=45 mm
- zaptivanje pomoću 3 EPDM zaptivke
- veliki broj različitih rješenja, sa mogućnošću upotrebe profila različitog estetskog dizajna
- posebno dizajnirani profili koji imaju vanjski oblik kao kod drvenih vrata
- debljina stakla do d=32 mm i nosivost krila do 130 kg

- installation depth d=45 mm
- sealing with 3 levels of EPDM seals
- large design variety, offering many aesthetic alternatives
- specially-designed profiles for wood-like frame construction
- glass thickness up to d=32 mm

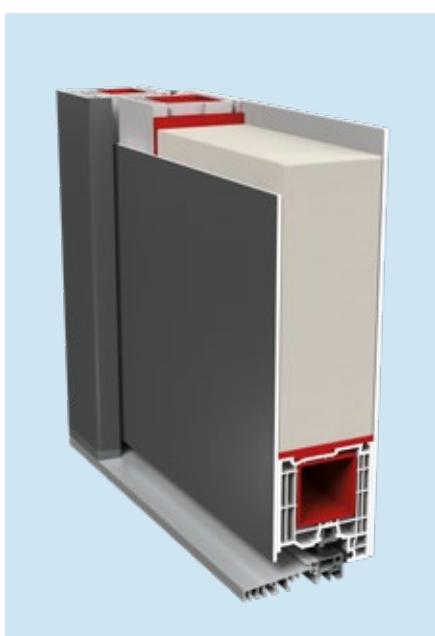


## Termički Alu profil | M11600®

SPECIJALNA  
NARUDŽBINA  
Special order

- visoka topotna izolacija  $U_w = 0,99 \text{ W/m}^2\text{K}$ , uz staklo 4+16+4+16+4mm sa  $U_g = 0,60 \text{ W/m}^2\text{K}$
- ugradna dubina profila d=76,5 mm
- zaptivanje pomoću 3 EPDM zaptivke
- ostakljenje do 70 mm
- profili sa dvije slobodne komore koje omogućavaju dobru evakuaciju vode i dobro vezivanje
- termički prekid pomoću PA 6.6 poliamida (34 mm) ojačanih staklenim vlaknima
- dodatna termoizolacija pomoću XPS ili Kooltherm bloka
- odlična zvučna izolacija (do 52dB)
- WK3 klasa protivprovalne zaštite moguća

- high thermal insulation  $U_w = 0,99 \text{ W/m}^2\text{K}$  using glass 4+16+4+16+4mm with  $U_g = 0,6 \text{ W/m}^2\text{K}$
- installation depth d=76,5 mm
- sealing with 3 levels of EPDM seals
- glazing double or triple up to 70 mm
- profiles with two clear chambers, enhancing connection and water outflow
- fiberglass-enforced PA 6.6 polyamide (34 mm) for increased thermal-break
- additional insulation using XPS or Kooltherm block
- excellent sound insulation (up to 52 dB)
- WK3 burglar protection class is possible



## PVC IDEAL 7000®



SPECIJALNA  
NARUDŽBINA  
Special order

- sistem modernog dizajna sa 6 komora, ugradnom dubinom d=85 mm i 2 dihtunga između štoka i krila
- odlične karakteristike topotne izolacije, standardno topotna provodljivost rama vrata  $U_f = 1,2 \text{ W/m}^2\text{K}$
- debljina ispune do 50 mm, standardno se isporučuje sa ispunom od ravnog PVC panela d=48mm  $U= 0,6 \text{ W/m}^2\text{K}$
- optimizovani koncept dihtovanja korištenjem novorazvijenog udarnog dihtuga u štoku i krilu
- kućni prag sa termičkim prekidom
- zavareni ugaoni spojevi garantuju visoku stabilnost
- velika čelična komora za visoku stabilnost sa opcijom pjene (tehnologija foam inside)
- korištenje odgovarajućih sigurnosnih okova garantuje izvanrednu protivprovalnu zaštitu
- odlična zvučna izolacija do 45 dB (do klase IV zvučne izolacije)

- system of modern design with 6 chambers, installation depth d=85 mm and 2 seals between frame and wing
- excellent heat insulating characteristics, as a standard heat insulation of door frame  $U_f = 1.2 \text{ W / m}^2\text{K}$
- filling thickness up to 50 mm, standard combination delivered with flat PVC insulation panel d=48 mm  $U=0.6 \text{ W/m}^2\text{K}$
- optimized sealing concept using a newly developed stroke seals in the frame and wing
- doorstep with thermal break
- welded corner joints guarantee high stability
- large steel chamber for high stability with the option of foam technology inside
- use of appropriate security hardware guarantees outstanding burglary protection
- excellent sound insulation up to 45 dB (up to class IV sound insulation)

Vrata se mogu opremiti dodatnom opremom prema Vašem izboru:

- 1) Sigurnosnom bravom sa tri tačke zaključavanja,
- 2) Elektro-prihvativnikom za otvaranje preko interfona,
- 3) Kodiranim cilindrom sa 5 ključeva,
- 4) Špijunkom,
- 5) Automatom-diplomatom za zatvaranje vrata koji može biti sa ili bez blokade u otvorenom položaju,
- 6) Stoperom za blokadu vrata u željenom položaju,
- 7) Odbojnikom za vrata
- 8) Postoji mogućnost izbora različitih vrsta kvaka i rukohvata od Aluminijuma ili INOX-a.

The door can be optionally equipped with accessories at your choice:

- 1) Security lock with three locking points,
- 2) Electric striker for opening through interphone,
- 3) Code cylinder with 5 keys,
- 4) Spy hole,
- 5) Door closing pump for automatic closing of doors that can be with or without blocking in open position,
- 6) Stopper for blocking doors in wanted position,
- 7) Buffer for door,
- 8) There is a possibility to choose between different kinds of handles made od Aluminum or INOX.



kodirani cilindar  
code cylinder



automat - diplomat  
door closer



sigurnosna brava  
multipoint lock



odbojnik  
bumper



elektro-prihvativnik  
electric striker



sigurnosna šarka  
security hinge



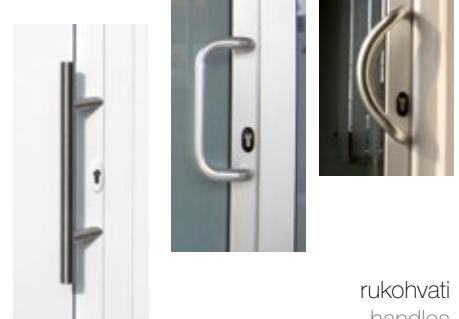
cilindar sa okretaćem  
cylinder with knob



stoper  
door holder



špijunka  
spy hole



rukohvati  
handles

## Vrata sa prečkama

Jedan od najvažnijih detalja svake kuće svakako su ulazna vrata. Ona su otvor koji se svakodnevno najčešće koristi, a njihov izgled i oblik može uveliko doprinijeti estetici kuće, te je stoga njihovom izboru potrebno posvetiti posebnu pažnju.

Vrata kao glavni ulaz u Vaš dom moraju biti savršena što se tiče zaštite, funkcionalnosti i estetike. Sva naša vrata izrađuju se od masivnih Aluminijumskih ili PVC profila s pocićanim željeznim ojačanjima, te su zavisno od zahtjeva kupca opremljena protivprovalnim okovom sa višestrukim zatvaranjem. Način otvaranja i podjela ravnim i kosim prečkama radi se prema shemi po Vašem izboru, a ovdje je prikazan samo dio mogućnosti. Vrata se ispunjavaju kombinacijom ravnih termoizolacionih panela d=24 mm ili 48 mm i dvostrukog ili trostrukog termoizolacionog stakla prema zahtjevu kupaca, koji obezbeđuju odličnu zvučnu i termičku izolaciju.

## Door with transoms

One of the most important details of every house are definitely the front door. They are commonly used on a daily basis, and their appearance and shape can greatly contribute to the aesthetics of the house. Therefore special attention should be given to the choice of door.

The door as a main entrance to your home should be perfect considering protection, functionality and aesthetics. All our doors are made of massive Aluminum or PVC profile with galvanized steel reinforcements and depending on the requirements of the customer they are equipped with anti-burglar fittings with multiple locking. The way of opening and look with flat and angular division by transoms and mullions are made according to the scheme of your choice, and here is given only part of the possibilities. The door is filled with combination of flat thermal insulation panels with thickness d=24 mm or 48 mm and double or triple insulating glass units according to customer request, to provide excellent sound and thermal insulation.



K-13



K-12



K-17



K-15



K-66



K-74



K-30



K-47



K-16



K-14



K-19



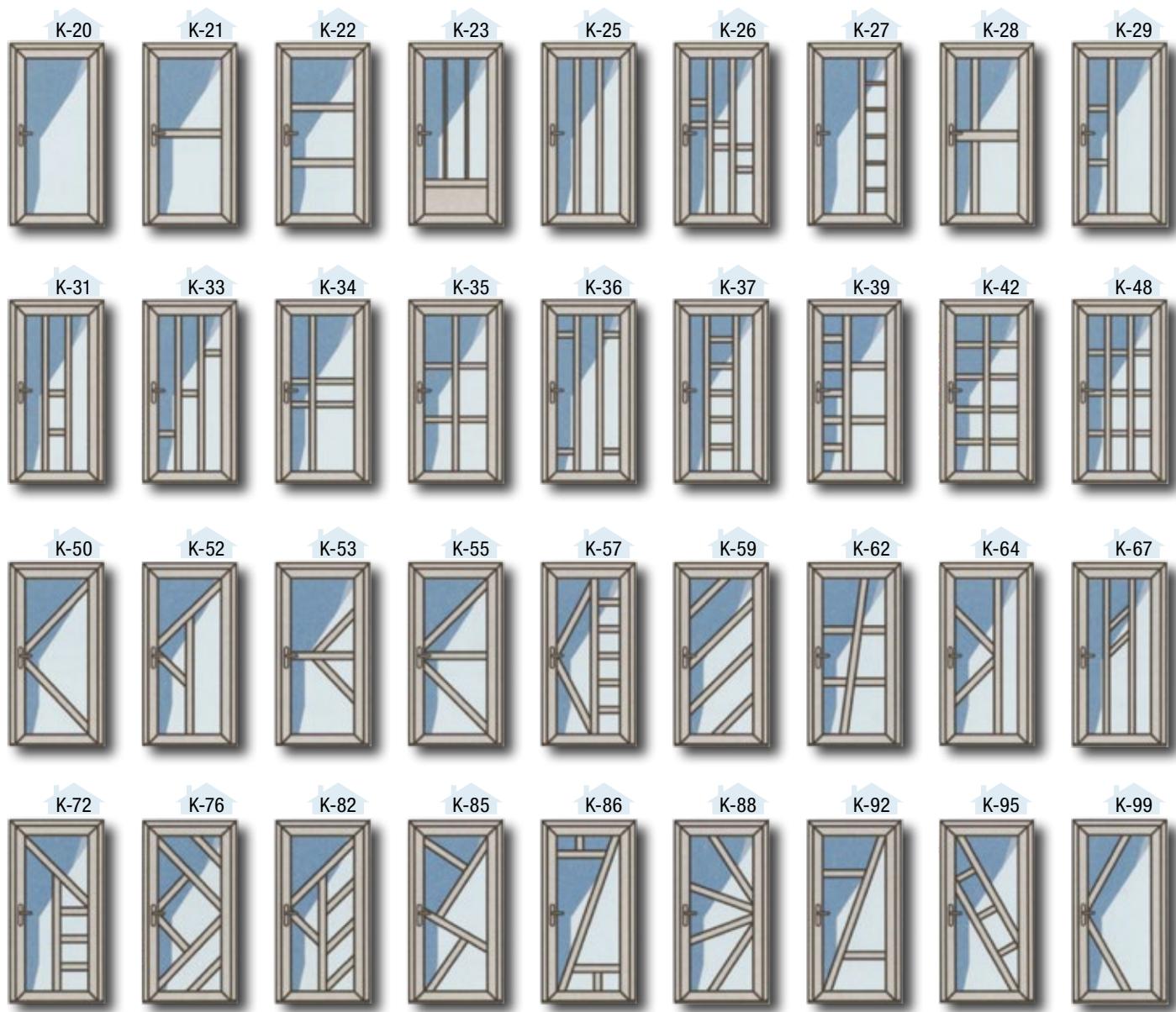
K-94



K-96



K-40



## Vrata sa ukrasnim panelima

Ulažna vrata su po pravilu prva i jedna od najvažnijih slika vašeg doma. Sa pravom se može reći da su ona ogledalo domaćina, njegove kulture, stila i načina života. Vrata sa ukrasnim panelima mogu biti najrazličitijih dezena sa ili bez staklenih polja, koji svakim vratima daju poseban izgled. Aplikacije na panelima mogu biti od INOX lima ili od aluminijumskog lima u istoj boji kao i panel. Ovdje je prikazan dio ponude koja se svakodnevno proširuje, a moguća je i izrada panela specijalnog dizajna po Vašoj želji.

## Door with decorative panel

The front door is the first impression and one of the most important images of your home. It is fairly said that they are look in the mirror of the host, its culture, style and way of life. Doors with decorative panels have various designs, with or without glass fields, which give a special appearance to every door. Applications on the panels may be of stainless steel or aluminum sheet in the same color as the panel. Here we show only part of the offer that is expanded daily, and we can manufacture panel with special design at your choice.



P-18



P-21



P-24



P-79



P-61



P-65



P-63



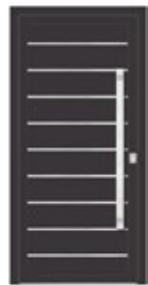
P-31



P-64



P-62



Volga 1



Volga 2



Warszawa 2



Warszawa 3



Warszawa 4



Warszawa 5



Zagreb 1



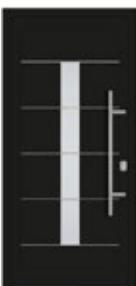
Zagreb 2



Zagreb 4



Zagreb 6



Zurich 1



Zurich 3



Zurich 6













Sigurnosna i protivpožarna  
metalna vrata

---

*Security and fireproof  
steel doors*

Sigurnosna metalna vrata su namijenjena za ulaz u stanove ili kuće i odlikuju se svojim perfektnim izgledom i svojim prvakasnim tehničkim karakteristikama.

Ugradnjom vrata PROTECTION DE LUX obezbeđeni su stan ili kuća najvišim nivoom zaštite od provale, požara, buke, dima i hladnoće ili toploće.

IZGLED vrata je ostvaren u visokoj klasi „DE LUX” preciznom proizvodnjom sa velikom pažnjom oko svih detalja površinske obrade i ugrađenog okova kao i odabirom uskladijenih boja svih vidnih površina.

SIGURNOST u protivprovalnoj otpornosti vrata ostvaruju jakom rešetkastom čeličnom podkonstrukcijom, čeličnim limom po čitavoj površini krila i ugradnjom najkvalitetnijih sigurnosnih brava. Brave zaključavaju u 3 pravca i u 9 tačaka zatravljuvanja, što vratima omogućava da se klasifikuju u najvišu 4 klasu protivprovalne otpornosti. Obijanjem predviđenim alatom po standardu, vrata u periodu od 30 min uz veliku buku ostaju zatvorena.

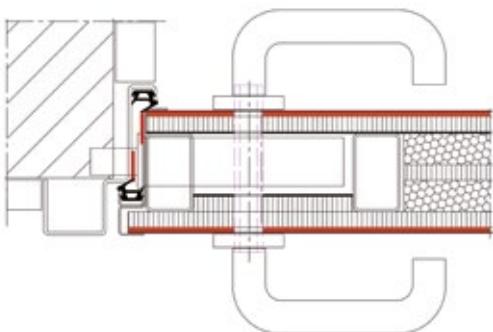
PROTIVPOŽARNA ZAŠTITA je ostvarena u trajanju od 90 min ugradnjom sendviča od specijalnih protivpožarnih ploča i kamene mineralne vune, tako da su vrata protivpožarno otporna u „potpunoj klasifikaciji” - otpornost na požar i sa spoljašnje i sa unutrašnje strane.

ZVUČNA ZAŠTITA je ostvarena ugradnjom 2 reda neprekinutih elastičnih samogasivih vatrootpornih dihtunga što vratima omogućava otpornost na zvuk preko 35 dB i svrstavaju ih u najvišu specijalnu klasu.

PROTIVDIMNOST vrata je u toku eventualnog požara ostvarena ugrađenim najkvalitetnijim ekspandirajućim protivpožarnim trakama koje svojim bubrengom potpuno zatvaraju razmak između krila i rama vrata.



Sigurnosna brava CISA Italija  
Security lock CISA Italy



Ispitivanje vrata na protipožarnost u institutu  
Fireproof test of door in institute



Sekciona i Aluminijumska  
klasična garažna vrata

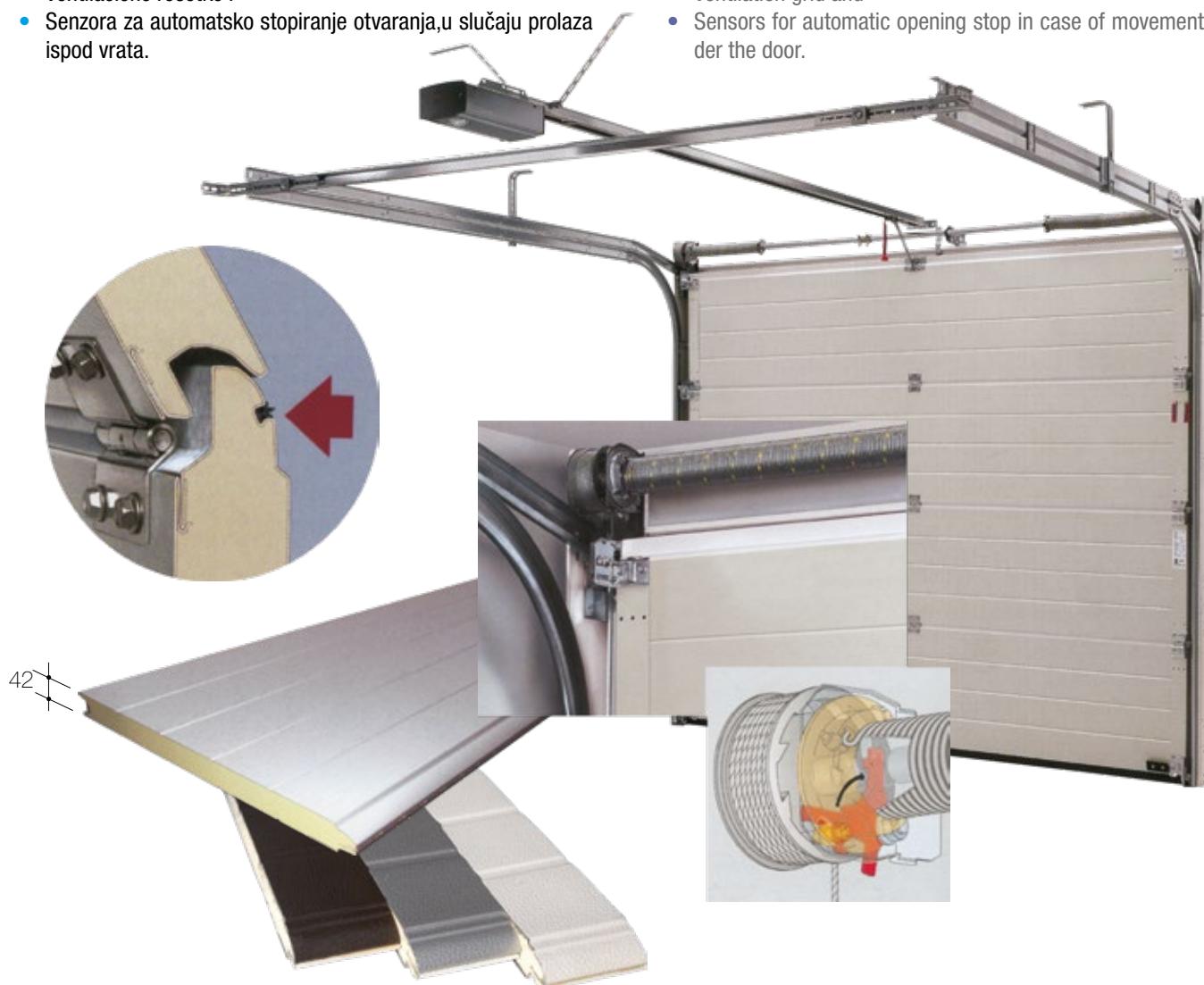
*Sectional and Aluminum  
classic garage doors*

Za objekte kod kojih nije moguće klasično otvaranje zbog nedostatka prostora ili zbog veličine otvora, pravo rješenje su sekcionalna vrata koja se posebnim mehanizmom **podiju pod plafon**.

Sekcionalna garažna vrata su napravljena od kompaktnih „sandvič-panela“ sa termo prekidom i faktorom provodljivosti topote  **$U=0,78 \text{ W/m}^2\text{K}$**  ispunjenih poliuretanom ukupne debljine  $d=42 \text{ mm}$ . Ovi paneli su elektrolitički zaštićeni i potom plastificirani. Uz pomoć točkića sa ležajevima koji su presvučeni teflonom, vrata bešumno klize po čeličnim pocinkovanim vodilicama. Izuzetna otpornost specijalne legure, način izrade i zaštite profila čine vodilice izuzetno dugotrajnim. Balansiranje je ostvareno preko torsionih opruga testiranih na 50.000 otvaranja i dimenzionisanih uz pomoć kompjuterskog programa tačno za Vaša vrata, tako da i velika industrijska vrata možete lako podići. Termoizolovana vrata opremljena su, elektrolitički zaštićenim, pocinkovanim okovom. Pakovanje vrata standarno se izvodi paralelno sa plafonom na visinu od oko 25-40 cm od plafona, u čelične vodilice (LL). Moguće je takođe izvesti i djelimično vertikalno pakovanje (HL), potpuno vertikalno pakovanje (VL) i pakovanje u vodilice pod uglom različitim od  $90^\circ$ . Otvaranje ovih vrata je moguće **pomoću elektromotora** (sa daljinskim upravljanjem ili preko tastera) ili **mehanički**. U slučaju nestanka struje vrlo lako se prelazi na režim ručnog otvaranja.

Sekcionalna vrata je moguće prilagoditi potrebama prostora ugradnjom:

- Malih prozora od pleksiglasa,
- Malih prolaznih vrata,
- Ventilacione rešetke i
- Senzora za automatsko stopiranje otvaranja, u slučaju prolaza ispod vrata.



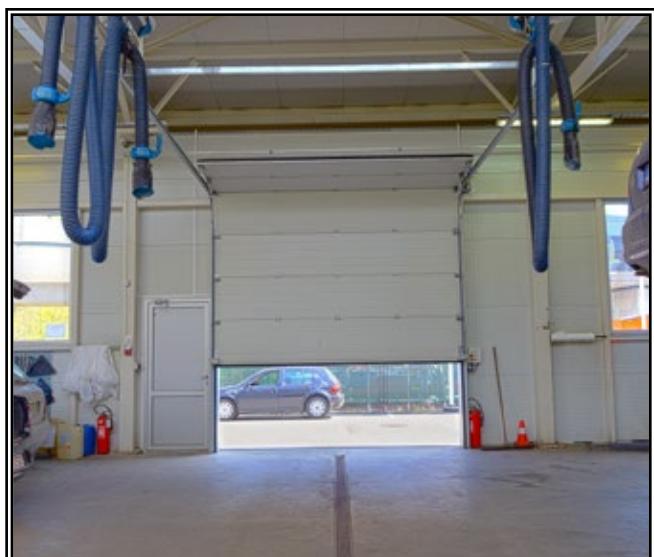
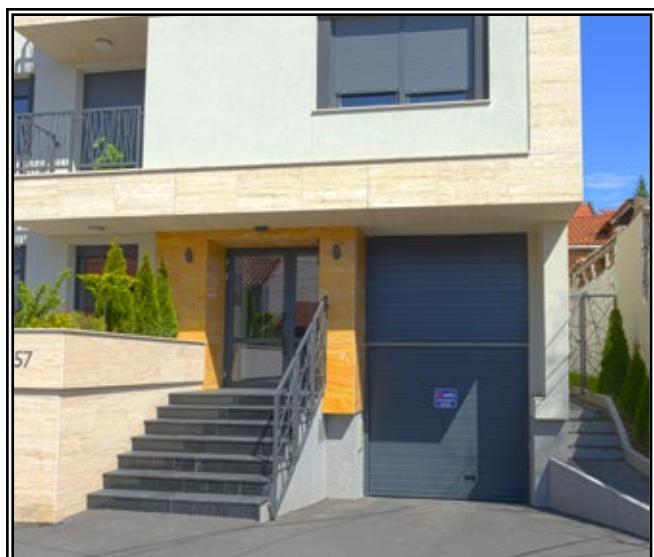
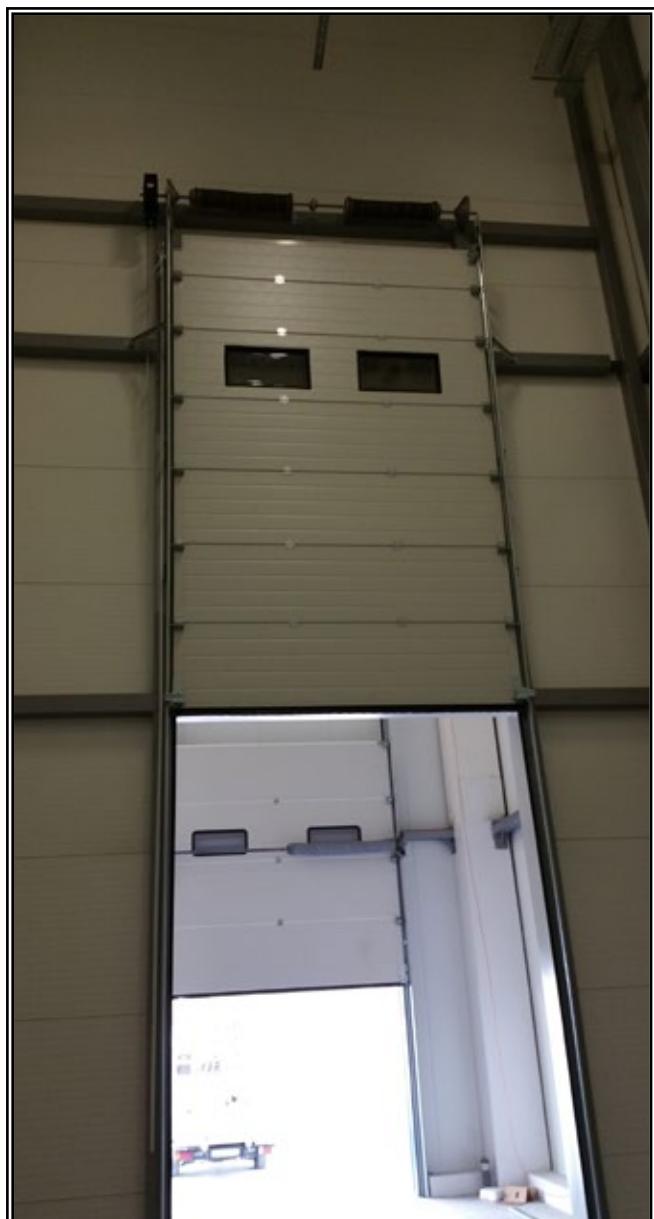
For buildings where classical way of opening is not possible because of small space or dimensions of opening area the right solution is sectional door that with a special mechanism **lift under the ceiling**.

Sectional garage door are made of compact „sandwich-panels“ with thermal brake and heat flow coefficient of  **$U=0,78 \text{ W/m}^2\text{K}$**  filled with polyurethane with total thickness of  $d=42 \text{ mm}$ . These panels are electrolytic protected and then powder coated. Door noiselessly slides through steel zinc coated guides by Teflon wheels with ball bearing. Guides have very long life thanks to extraordinary resistance of special alloy, way of production and protection of profiles. Balancing is made through torsion springs tested on 50.000 openings and dimensioned by computer program exactly for your door so you can easily open even heavy industrial door. Thermal insulated door are equipped with electrolytic protected, zinc-coated accessories. Standard door packing is done parallel with ceiling on height of 25-40 cm from the ceiling into steel guides (LL). It is possible to make partly vertical packing (HL), totally vertical packing (VL) or packing into guides with angle different from  $90^\circ$ . Opening of door is possible **by electric motor** (with remote control or push button) or **mechanically**. In case of electric power off it is very easy to transfer to manual opening mode.

Section doors can be adapted to the needs of the space with installation of:

- Small windows from Plexiglas,
- Small passing door,
- Ventilation grid and
- Sensors for automatic opening stop in case of movement under the door.





## Klasična Garažna vrata / Classic Garage doors

Garažna vrata izrađujemo, u klasičnoj izvedbi, od aluminijumskih profila kao dvokrilna ili trokrilna. U našem proizvodnom programu imamo i višekrilna harmonika vrata, kod kojih krila koja su okaćena preko točkića na vodilicu u gornjoj zoni vrata klize, na jednu ili drugu stranu. Postoji mogućnost ugradnje malih prolaznih vrata u okviru velikog krila, klasičnih ili harmonika garažnih vrata. Vrata se mogu izrađivati od Aluminijumskih profila sa termičkim prekidom tj. Termo profila i od Aluminijumskih profila bez termičkog prekida tj. Hladnih profila. Detalji ostalih opcija koje postoje pri izradi klasičnih i harmonika garažnih vrata identični su onima datim su u poglavljju „Ulažna vrata”.

We manufacture classical garage doors from aluminum profiles as 2-wing or 3-wing doors. In our production range, we have also multiple wing folding doors where wings hang on wheels driving through guide in top zone of door and slide on one ore other side. There is a possibility of installation of small passing doors inside frame of big wing of door. Doors can be made from Aluminum profile with thermal brake – Thermo profiles or from Aluminum profiles without thermal brake – Cold profiles. Details of other options that are available for classical or accordion garage doors are identical to those given in chapter „Entrance doors”.

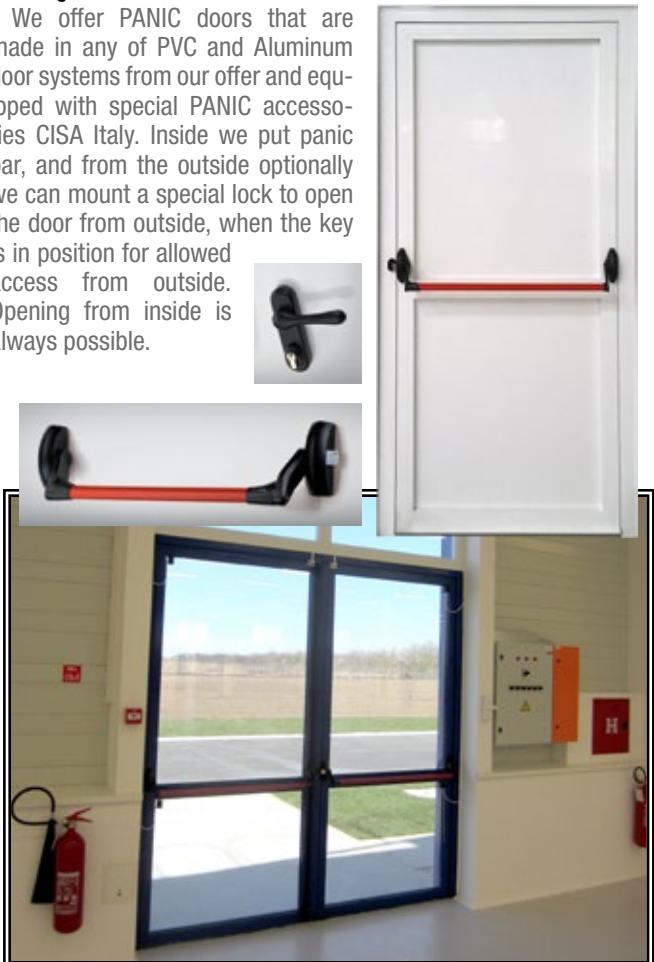


Brčko, Tehnički pregled vozila / Car inspection

## Panik vrata / Emergency exit door

U ponudi imamo PANIK vrata koje se izrađuju u bilo kom od PVC i Aluminijumskih sistema za vrata koje imamo u ponudi i opremaju specijalnim PANIK okovom CISA Italija. Sa unutrašnje strane se stavlja panik šipka, a sa spoljašnje se opcionalno može postaviti specijalna ručka koja omogućava otvaranje vrata kad je ključ u položaju za dozvoljen pristup sa spoljašnje strane, a otvaranje iznutra je uvek moguće.

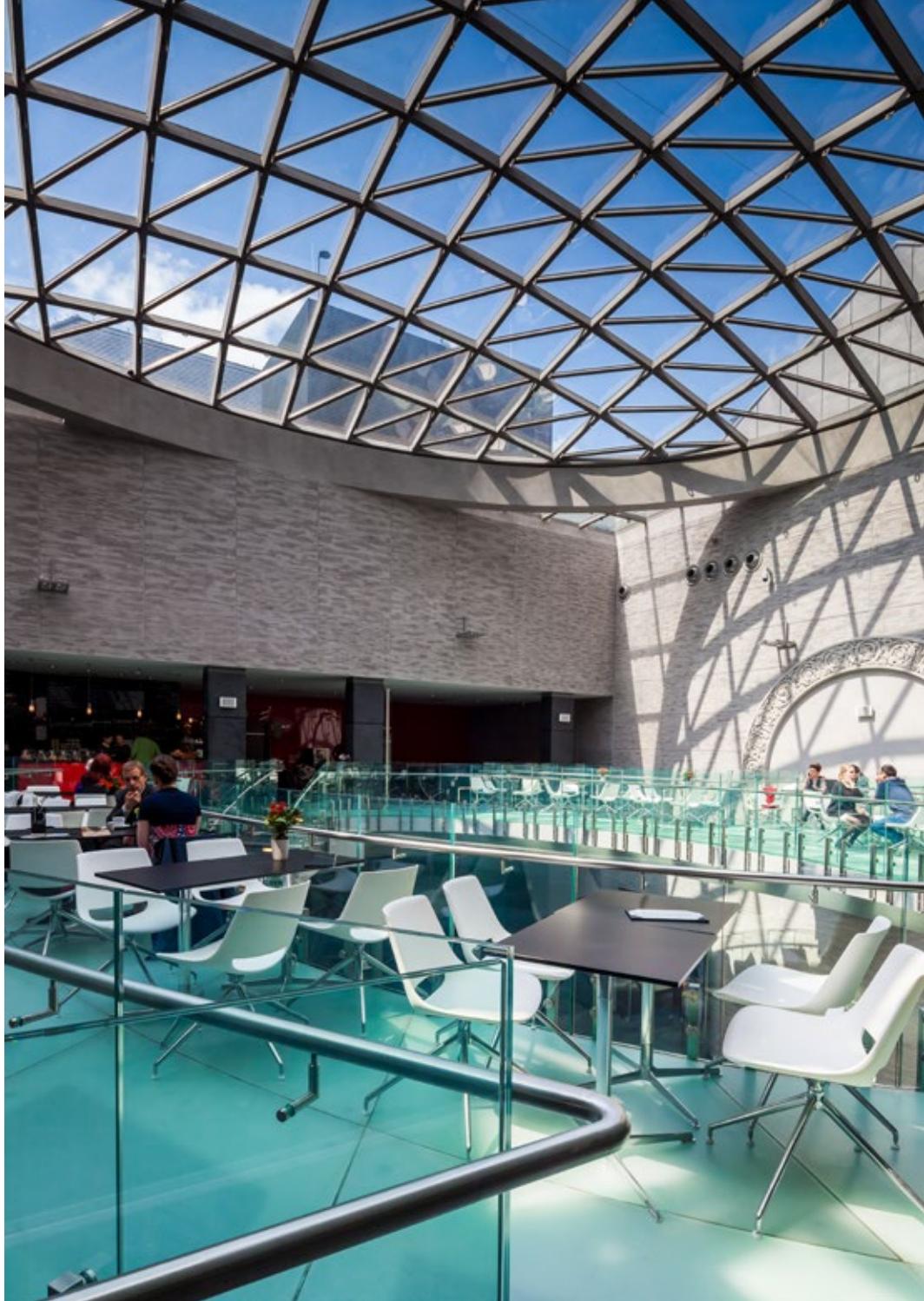
We offer PANIC doors that are made in any of PVC and Aluminum door systems from our offer and equipped with special PANIC accessories CISA Italy. Inside we put panic bar, and from the outside optionally we can mount a special lock to open the door from outside, when the key is in position for allowed access from outside. Opening from inside is always possible.



Stara Pazova, Muehlbauer panik dvokrilna vrata / emergency exit double leaf door



Brčko, Tehnički pregled vozila / Car inspection „AB auto”

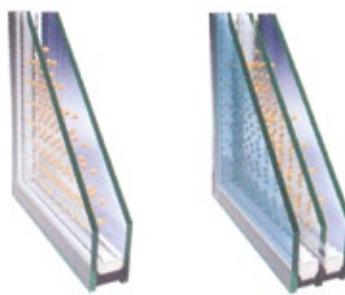


Staklo

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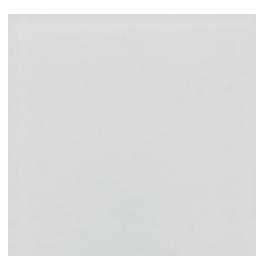
*Glass*

Staklo je vrlo bitan sastavni dio svih naših proizvoda, koji najviše utiče na ukupnu termičku provodljivost prozora, vrata i fasada. Zahvaljujući vrhunskoj opremi za proizvodnju termoizolacionog stakla mi smo u stanju da proizvedemo najbolje dvostruko i trostuko staklo, koje podrazumijeva odličnu zaštitu od prodora vlage unutar termo paketa stakla i punjenje temoizolacionog prostora stakla plamenitim gasom. Možemo se pohvaliti time da kod nas možete dobiti termoizolaciono staklo koje zadovoljava sve evropske standarde o uštedi energije. Ovladali smo tehnologijom proizvodnje svih najsvravnijih stakala sa specijalnim mekim film premazima sa velikom slojvitosti koja im omogućava da postignu najniže koeficijente prolaza toplote i druge parametre zavisno od želje kupca. Ova savremena stakla omogućavaju izgradnju objekata sa velikim staklenim površinama bez bojazni da ćemo time povećati utrošak energije za grijanje ili hlađenje. U kombinaciji sa odgovarajućim prozorskim ramom proizvodimo staklo koje zadovoljava Energetske standarde „pasivne kuće“. Takođe posjedujemo tehnologiju za preradu LAMISTAL (PAMPLEKS) stakala do debljine 10.10.4 (21,52 mm). To su stakla sa PVB folijom između 2 stakla koja služi za protivprovalnu zaštitu, sigurnost od loma prilikom slučajnog udarca i izuzetnu zvučnu izolaciju. Ovdje su prikazane najčešće korištene vrste stakla koje držimo na lageru, dok za velike objekte u saradnji sa vodećom svjetskom fabrikom stakla GUARDIAN možemo isporučiti i druge vrste zavisno od zahtjeva arhitekture objekta.

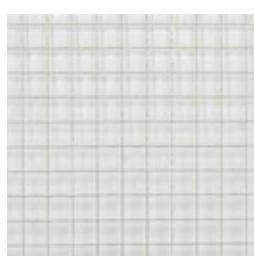


Glass is a very important part of all our products, which has the most influence to the total thermal insulation of the windows, doors and facades. Thanks to the top equipment for glass processing we are able to produce best double and triple glass, where the protection of insulation space of insulation glass (IG) unit from humidity is understood and filling of that space with inert gas. We can say that you can get from us IG unit which fulfills all the European standards of energy savings. We have technology to process most modern glass with special soft coating film and multiple layers

which enables very low coefficient of thermal insulation of glass and other parameters according to customer wish. This type of glass enables construction of the building which have great glass surfaces without a fear of greater consumption of energy for heating or cooling. Combined with adequate window frame it fulfills Energy savings standards of „passive house“. We have the technology for processing LAMINATED (PAMPLEKS) glasses up to a thickness 10.10.4 (21,52 mm). These are glasses with a PVB interlayer between two glass serving for burglar proof, safety from breakage from accidental impact and excellent sound insulation. Here enclosed you can find most often used types of glass, that we have on stock, while for big buildings in cooperation with leading glass factory GUARDIAN we can produce other types of glass depending on architecture requests.



Pjeskareno  
Sandblasted



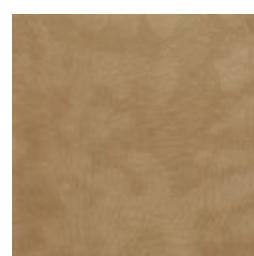
Armirano  
Wired patterned



Ornament Delta Bronza  
Delta Bronze



Ornament Kora Bronza  
Crust Bronze



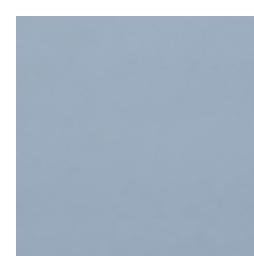
Ornament Činčila Bronza  
Chinchilla Bronze



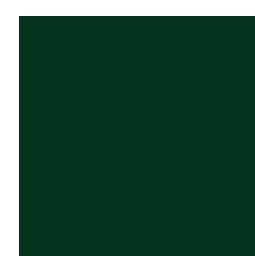
Ornament Griz-Pijesak  
Sand



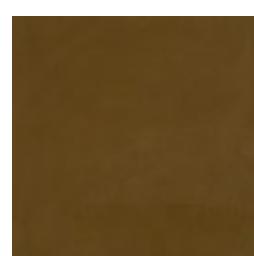
Ornament Katedral Žuti  
Cathedral Yellow



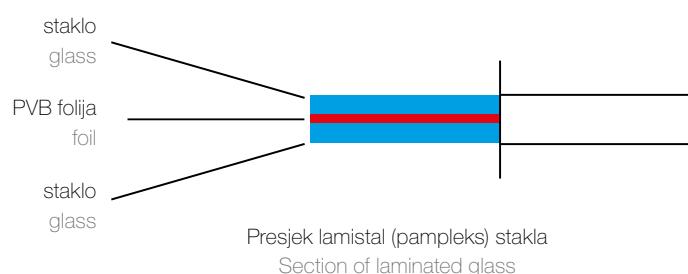
Parsol Plavi  
Parsol Blue



Parsol Zeleni  
Parsol Green



Parsol Bronza  
Parsol Bronze





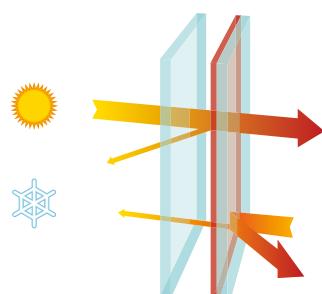
# ClimaGuard® Premium/Premium T+

Thermal Insulating Glass / Termoizolaciono staklo



## ClimaGuard® Premium / Premium T +

- Termoizolaciono staklo najboljih performansi, dizajnirano tako da nadmašuje sva vaša očekivanja povodom iskorištenja sunčeve topline
- ClimaGuard® Premium ne samo da ima pozitivan učinak na troškove grijanja, već aktivno doprinosi zaštiti životne sredine.
- Maksimalna transparentnost i sjaj:  $T_L = 80\%$
- Optimalna toplotna izolacija  $U_g = 1,1 \text{ W} / (\text{m}^2\text{K})$ , u skladu sa EN standardima, ClimaGuard® Premium ispunjava sve zahtjeve važećih propisa o uštedi energije
- Zadovoljavajuća solarna regulacija  $SF = 63\%$
- Izvanredna prozračnost uz optimalno korišćenje dnevnog svjetla



## ClimaGuard® Premium / Premium T +

- Thermal insulation glass with the best performance, designed to surpassing your expectations regarding the utilization of the sun's heat
- ClimaGuard® Premium not only has a positive effect on heating costs, but also actively contributes to environmental protection.
- Maximum transparency and luminosity:  $T_L = 80\%$
- Optimal thermal insulation  $U = 1.1 \text{ W} / (\text{m}^2\text{K})$ , according to the actual EN standards, ClimaGuard® Premium meets all the requirements of current regulations on energy saving
- Satisfactory solar control  $SF = 63\%$
- Excellent breathability with optimum use of the daylight

## Technical Data / Performance Table

Insulating glass unit	Coating on glazing surface	Gas filling *	Light Transmission [%]	Light Reflection [%]	Colour rendering index Ra	Solar Factor (g) EN 410 [%]	U-Value EN 673 (15K) W/(m²K)
4-16-4	3	argon	80	12	97	63	1.1
4-14-4-14-4	2 + 5	argon	71	15	96	49	0.6
4-12-4-12-4	2 + 5	krypton	71	15	96	49	0.5

\* Gas filling rate 90%



## ClimaGuard® Solar

Thermal Insulating Glass / Termoizolaciono staklo



### ClimaGuard® Solar -Termoizolaciono staklo

- Smanjenje potrošnje energije u modernim zgradama je od suštinskog značaja. Osim smanjenja troškova grijanja u zimskom periodu, takođe treba uzeti u obzir smanjenje količine energije koja se koristi za klima-uređaj tokom ljetnjeg perioda
- ClimaGuard® Solar je proizvod napredne tehnologije koja osigurava veliku osvetljenost prostorija i odličnu toplotnu izolaciju
- Upotreba ClimaGuard® Solar stakla omogućava uživanje u suncu jer predstavlja efikasnu zaštitu od sunčevog zračenja bez obzira na vanjske temperature  $U_g = 1,0 \text{ W/m}^2\text{K}$
- Poseduje karakteristike koje omogućavaju vrhunsku udobnost i uštedu energije tokom cijele godine
  - Inteligentna solarna regulacija: FS = 42%
  - Optimalna toplotna izolacija:  $U_g = 1,0 \text{ W/m}^2\text{K}$
  - Maksimalna transparentnost i sjaj:  $T_L = 67\%$

### ClimaGuard® Solar – Thermal insulating glass

- Reduction of energy consumption in modern buildings is essential. In addition to lowering heating costs in the winter, you also need to consider reducing the amount of energy used for air-conditioning during the summer period
- ClimaGuard® Solar is a product of advanced technology, which provides high light transmission of the rooms and excellent thermal insulation
- Use ClimaGuard® Solar glass allows enjoying in the sunlight and represents the effective protection against solar radiation regardless of the outside temperature  $U_g = 1.0 \text{ W / m}^2\text{K}$
- It has characteristics that provide superior comfort and energy saving throughout the year
  - Intelligent solar control: FS = 42%
  - Optimum thermal insulation:  $U_g = 1.0 \text{ W / m}^2\text{K}$
  - Maximum transparency and luminosity:  $T_L = 67\%$

### Technical Data / Performance Table

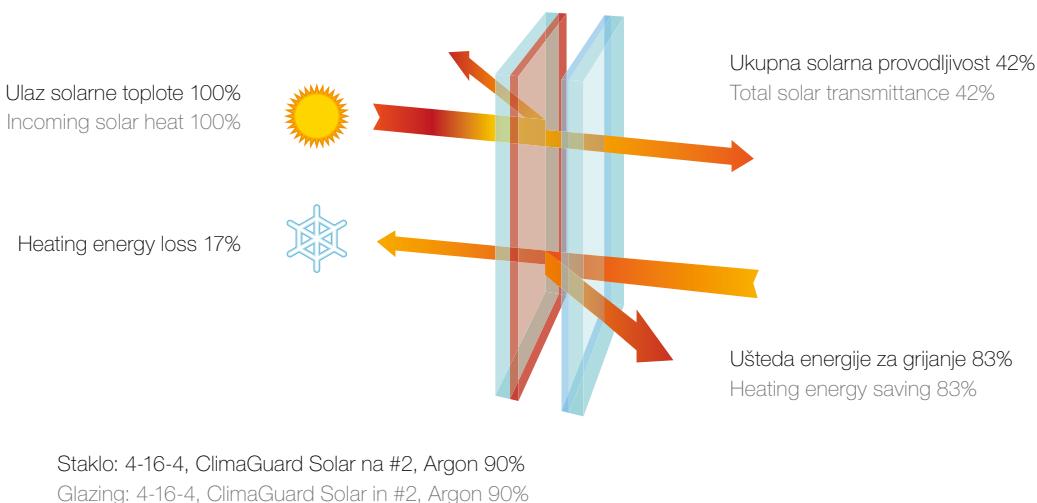
Visible light				Solar energy			Solar factor (g) EN 410 [%]	U-value (EN 673)	
Trans-mission [%]	Reflection outside [%]	Reflection inside [%]	Colour rendering index	Direct trans-mission [%]	Reflection outside [%]	Absorp. [%]		Air [W/m <sup>2</sup> K]	Argon 90% [W/m <sup>2</sup> K]
67	27	24	96	41	43	16	42	1.3	1.0

Glazing: 4-16-4, ClimaGuard® Solar on #2



## ClimaGuard® Solar

Thermal Insulating Glass / Termoizolaciono staklo



### Karakteristike i prednosti ClimaGuard® Solar stakla

- Savršen izbor za modernu stambenu izgradnju, gdje je poželjna udobnost i pametno upravljanje energijom
- Pravi razliku između talasnih dužina sunčevog zračenja pri čemu odbija infra-crveno zračenje koje bi inače zagrijavalo prostor dok omogućava nesmetan prolaz dnevne svjetlosti
- U prostorima opremljenim ClimaGuard® Solar staklom nije potrebno instaliranje klima-uređaja, ili se njihovom primenom drastično smanjuje potrošnja energije
- Osim toga, njegova niska Ug vrijednost = 1,0 W / m<sup>2</sup>K u standardnoj opciji sa dvostrukim stakлом smanjuje troškove grijanja za vrijeme hladne zime
- Staklo koje smanjuje emisiju CO<sub>2</sub> pruža direktni doprinos zaštiti životne sredine

### Features and benefits ClimaGuard® Solar glass

- The perfect choice for modern residential construction, where the desired comfort and smart energy management are desirable
- The real difference between the wavelengths of solar radiation while refusing to infra-red radiation that would otherwise have heated space while allowing unhindered passage of daylight
- In areas equipped ClimaGuard® Solar glass is not necessary to install air-conditioning, or their application drastically reduces the energy consumption
- In addition, its low Ug value = 1.0 W / m<sup>2</sup>K in a standard option with double glazing reduces the heating costs during the cold winter
- Glass that reduces the emission of CO<sub>2</sub> provides a direct contribution to protection of the environment





## Guardian LamiGlass® Acoustic

Acoustic Insulating Glass / Staklo za zvučnu izolaciju



### Sigurnost i akustičke performanse

- Kombinuje odlične akustične performanse sa svim prednostima tradicionalnog višeslojnog sigurnosnog stakla
- Zbog upotrebe optimiziranog PVB međusloja, proizvod nudi jasno mjerljivo povećanje zaštite od buke, a posebno kod izolacionog stakla
- Guardian LamiGlass® Acoustic mogu se kombinovati sa svim GUARDIAN staklima i mogu se obradivati kao konvencionalna laminirana stakla.
- Smanjenje buke (RW) do 53 dB uz trostruko staklo i 52 dB uz dvostruko ostakljenje
- Sigurno ponašanje pri lomu, čak i sa najvišim zahtjevima testa udara klatna
- Klase zaštite do P4A na testu pada lopte
- Zadovoljava zahtjeve o linearno spojenim staklima i ostakljenju protiv naglog pada
- Vrhunski optički atributi svjetlosne stabilnosti, jasnoće, transparentnosti
- Dugi vijek trajanja i stabilnost ruba kroz optimalno prianjanje stakla sa PVB međuslojem
- Minimalni UV-prijenos
- Široke mogućnosti vizuelnog izgleda, prijenosa svjetlosti, solarne kontrole i nivoa toplotne izolacije u kombinaciji sa staklima iz GUARDIAN ClimaGuard® i SunGuard® asortimana

### Safety and acoustic performance

- Guardian LamiGlass® Acoustic combines excellent acoustic performance with all benefits of traditional laminated safety glass.
- Due to the use of an optimized PVB interlayer, an improved product is available, which specifically offers a clearly measurable increase of noise protection, especially in insulating glass.
- Guardian LamiGlass® Acoustic can be combined with all GUARDIAN function glasses and can be processed like conventional laminated glass.
- Sound reduction (RW) up to 53 dB in triple glazing and 52 dB in double glazing
- Safe break-behavior even with highest demands of the pendulum impact test
- Safety class up to P4A with ball drop test
- According to requirements on linear jointed glazing and glazing against sudden fall
- Supreme optical attributes light stability, clearness, transparency
- Long lifetime and edge stability through optimal glass-adhesion of PVB-interlayer
- Minimized UV-transmission
- Wide possibilities of appearances, light transmission, solar control and thermal insulation levels when combined with GUARDIAN ClimaGuard® and SunGuard® ranges



# Guardian LamiGlass® Acoustic

Acoustic Insulating Glass / Staklo za zvučnu izolaciju

Type	Glazing	Interlayer	Thickness	Rw	Ctr	Safety level	
			[mm]	[dB]	[dB]	Ball drop EN 356	Pendulum impact EN 12 600
<b>Single Glazing</b>							
SR 33.1	3/0.50/3	SR	6	36	-4	P1A	1(B)1
SR 33.2	3/0.76/3	SR	7	36	-4	P2A	1(B)1
SC 44.2	4/0.76/4	SC	9	37	-3	P1A	1(B)1
SR 44.1	4/0.50/4	SR	8	38	-4	P1A	1(B)1
SR 44.2	4/0.76/4	SR	9	38	-4	P2A	1(B)1
SR 44.4	4/1.52/4	SR	10	38	-4	P4A	1(B)1
SR 55.1	5/0.50/5	SR	10	39	-4	NA	1(B)1
SR 55.2	5/0.76/5	SR	11	39	-3	NA	1(B)1
SR 66.1	6/0.50/6	SR	12	39	-3	P1A	1(B)1
SR 66.2	6/0.76/6	SR	13	39	-3	P2A	1(B)1
SR 88.2	8/0.76/8	SR	17	41	-3	NA	1(B)1
SR 1010.2	10/0.76/10	SR	21	43	-3	NA	NA
<b>Double Glazing</b>							
25/36	44.2/12/4	PVB	25	36	-5	P2A	1(B)1
27/37	33.4/16/4	PVB	27	37	-6	P4A	1(B)1
32/39	44.4/16/6	PVB	32	39	-6	P4A	1(B)1
29/39	44.2/16/4	SC	29	39	-5	P1A	1(B)1
31/41	44.2/16/6	SC	31	41	-6	P1A	1(B)1
33/41	44.2/18/6	SC	33	41	-7	P1A	1(B)1
31/42	44.2/16/6	SR	31	42	-6	P2A	1(B)1
30/42	44.1/16/6	SR	30	42	-6	P1A	1(B)1
35/42	55.2/16/8	SC	35	42	-6	P1A	NA
33/42	44.2/16/8	SC	33	42	-7	P1A	1(B)1
29/43	44.1/14/6	SR	29	43	-8	P1A	1(B)1
34/43	44.1/20/6	SR	34	43	-7	P1A	1(B)1
37/43b	55.2/18/8	SR	37	43	-6	NA	1(B)1
37/43c	66.2/16/8	SC	37	43	-6	P1A	1(B)1
37/43d	66.3/16/8	SC	37	43	-6	NA	1(B)1
34/44	44.1/16/10	SR	34	44	-6	P1A	1(B)1
35/44b	44.2/16/10	SC	35	44	-6	P1A	1(B)1
36/44	44.1/20/8	SR	36	44	-7	P1A	1(B)1
36/45	44.1/18/10	SR	36	45	-6	P1A	1(B)1
39/45a	44.2/20/10	SC	39	45	-6	P1A	1(B)1
39/45b	66.3/16/10	SC	39	45	-4	NA	1(B)1
37/45	55.2/16/10	SC	37	45	-7	P1A	1(B)1
34/46	55.1/16/44.1	SR/SR	34	46	-7	P1A	1(B)1
43/46	66.2/20/10	SR	43	46	-6	P2A	1(B)1
38/47	44.2/16/66.2	SC/SC	38	47	-6	P1A	1(B)1
38/48	44.2/16/66.3	SC/SC	38	48	-8	NA	1(B)1
46/49	88.2/20/44.2	SC/SC	46	49	-5	P1A	1(B)1
41/49	44.2/20/66.2	SC/SC	41	49	-7	P1A	1(B)1
38/49	44.3/16/66.3	SC/SC	38	49	-7	NA	1(B)1
44/49	66.2/20/55.2	SR	44	49	-6	P2A	1(B)1
42/50	44.3/20/66.3	SC/SC	42	50	-7	NA	1(B)1
46/50	88.2/20/44.2	SC/SC	46	50	-6	P1A	1(B)1
46/51	88.2/16/66.2	SC/SC	46	51	-5	P1A	1(B)1
48/51	88.4/20/55.2	SR	48	51	-6	NA	1(B)1
52/52	88.2/24/46.2	SR	52	52	-6	NA	1(B)1
<b>Triple Glazing</b>							
48/37	6/14/44.1/14/6	SR	48	37	-5	P1A	1(B)1
45/42	44.2/12/4/12/8	SC	45	42	-6	P1A	1(B)1
53/42	44.2/18/4/16/6	PVB	53	42	-5	P2A	1(B)1
55/42	44.2/18/4/16/44.1	PVB	55	42	-5	P2A	1(B)1
46/43	44.2/12/5/12/8	SC	46	43	-7	P1A	1(B)1
47/43	44.1/14/4/14/6	SR	47	43	-7	P1A	1(B)1
47/44	44.1/12/6/12/8	SR	47	44	-7	P1A	1(B)1
48/46	44.1/12/6/12/10	SR	48	46	-7	P1A	1(B)1
48/47	44.1/12/6/12/10	SR	48	47	-7	P1A	1(B)1
66/53	88.2/16/6/16/55.2	SR	66	53	-6	P1A	1(B)1

(PVB) Polyvinyl-Butyral-Interlayer

(SR) Acoustic-PVB-Interlayer

(SC) Sound-Control-PVB-Interlayer

R<sub>w</sub>-value according to EN ISO 140 -3 and 717



## SunGuard® High Performance

HP Silver 43/31



### SunGuard® High Performance HP Silver 43/31

- Idealno rješenje za svako godišnje doba, kombinacija solarne zaštite i toplotne izolacije
- U savremenoj arhitekturi je sve veća upotreba raznih vrsta stakala. Domovi i poslovni prostori su sve više ispunjeni dnevnom svjetlošću što poboljšava kvalitet života.
- Naše moderno solarno staklo visokih performansi zaštite, kao što je SunGuard® HP Silver 43/31 omogućava smanjenje prolaska solarne energije istovremeno omogućavajući maksimalni prijenos svjetlosti u prostor
- Jedinstveno propuštanje i prenos boje
- Dostupno za laminirano sigurnosno staklo ili se može naknadno laminirati
- Može biti kaljeno, termički ojačano ili zakrivljeno

### SunGuard® High Performance HP Silver 43/31

- The ideal solution for every season, a combination of solar protection and thermal insulation
- The contemporary architecture is the increasing use of various types of glass. Homes and businesses are increasingly filled with daylight, which improves quality of life.
- Our modern solar glass of high-performance protection, as SunGuard® HP Silver 43/31 allows reducing the passage of solar energy while allowing maximum transmission of light in space
- A single failure and transmission colors
- Available on laminated safety glass or can be subsequently laminated
- Can be tempered, heat-strengthened or curved

Visible light				Solar energy			Solar factor (g)	U-value (EN 673)	
Trans-mission [%]	Reflection outside [%]	Reflection inside [%]	Colour-rendering-index	Direct transmission [%]	Reflection outside [%]	Absorption [%]	EN 410 [%]	Air * Krypton 90% [W/m <sup>2</sup> K]	Argon 90% [W/m <sup>2</sup> K]
Double-glazing: 6-16-4, SunGuard									* High Performance on #2.
43	32	13	96	29	36	35	32	1,4	1,2
Triple-glazing: 6-12-4-12-4, SunGuard									* High Performance on #2 + ClimaGuard * Premium on #5
38	33	18	94	22	38	40	27	* 0,5	0,7



# SunGuard® SuperNeutral

SN 29/18



## SunGuard® SuperNeutral SN 29/18

- Visoka selektivnost solarne zaštite sa neutralnim izgledom
- Arhitekte se često odlučuju za stakla sa premazom koja nude vrlo visoko propuštanje prirodnog svjetla
- Ovaj multifunkcionalni premaz smanjuje potrebu za vještačkim svjetlom i nudi odličnu solarnu zaštitu u kombinaciji sa izuzetnom toplotnom izolacijom, uz osiguranje uštede energije
- Odlična selektivnost: omogućuje visoku solarnu zaštitu s visokim prijenosom svjetlosti
- Sofisticirana neutralna refleksija i transmisija boja
- Idealan za ostakljenje krovova i površina izloženih jakom suncu
- Dostupno na običnim i zvučno izolovanim lamistal staklima za veću sigurnost i udobnost

## SunGuard® SuperNeutral SN 29/18

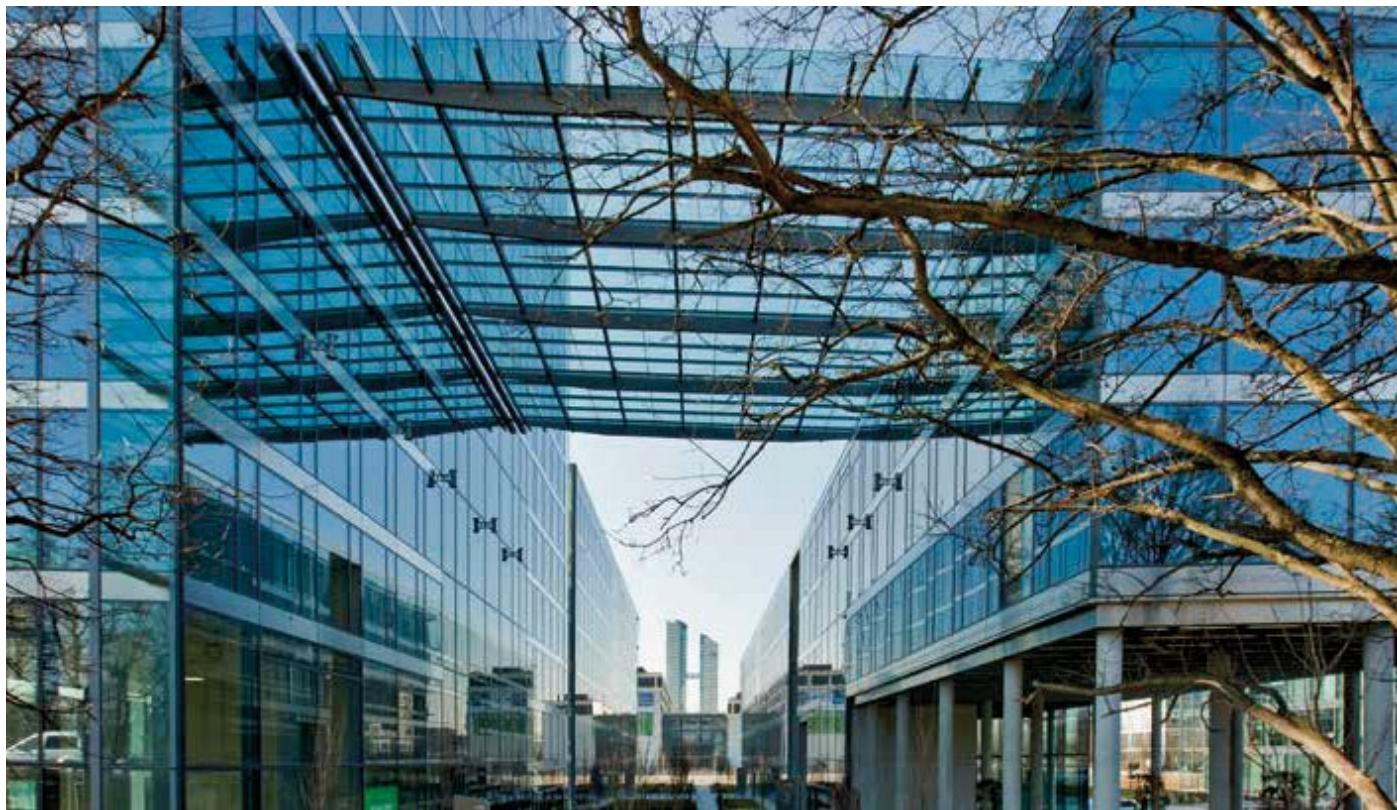
- High selectivity solar protection on neutral looking
- Architects often choose coated glass products that offer very high natural light transmittance
- This multifunctional coating minimizes the need for artificial light and offers excellent solar protection combined with outstanding thermal insulation, ensuring energy savings
- Excellent selectivity: allows high solar protection with high light transmission
- Sophisticated neutral reflected and transmitted color
- Ideal for roof glazing and areas with a high exposure to the sun
- Available in ordinary and sound-insulated laminated glass for increased safety and comfort

Visible light				Solar energy			Solar factor (g) EN 410 [%]	Selec-tivity	U-value (EN 673)	
Trans-mission [%]	Reflection outside [%]	Reflection inside [%]	Colour rendering index	Direct Transmission [%]	Reflection outside [%]	Absorption [%]			Air or * Krypton 90% [W/m <sup>2</sup> K]	Argon 90% [W/m <sup>2</sup> K]
Double glazing: 6-16-4, SunGuard      * SuperNeutral on surface #2.										
29	17	27	90	16	33	51	18	1.61	1.4	1.1
Triple glazing: 6-12-4-12-4, SunGuard      * SuperNeutral on surface #2 + ClimaGuard      * Premium on surface #5										
26	18	27	88	13	33	54	16	1.63	*0.5	0.7



# SunGuard® SuperNeutral

SN 51/28



## SunGuard® SuperNeutral SN 51/28

- Visoka selektivnost solarne zaštite sa neutralnim izgledom
- Arhitekte se često odlučuju za stakla sa premazom koja nude vrlo visoko propuštanje prirodnog svjetla
- Ovaj multifunkcionalni premaz smanjuje potrebu za vještačkim svjetlom i nudi odličnu solarnu zaštitu u kombinaciji sa izuzetnom toplotnom izolacijom, uz osiguranje uštede energije
- Odlična selektivnost: omogućuje visoku solarnu zaštitu s visokim prijenosom svjetlosti
- Sofisticirana neutralna refleksija i transmisija boja
- Idealan za potpuno ostakljjenje fasada i krovova
- Dostupno na običnim i zvučno izolovanim lamistal staklima za veću sigurnost i udobnost

## SunGuard® SuperNeutral SN 51/28

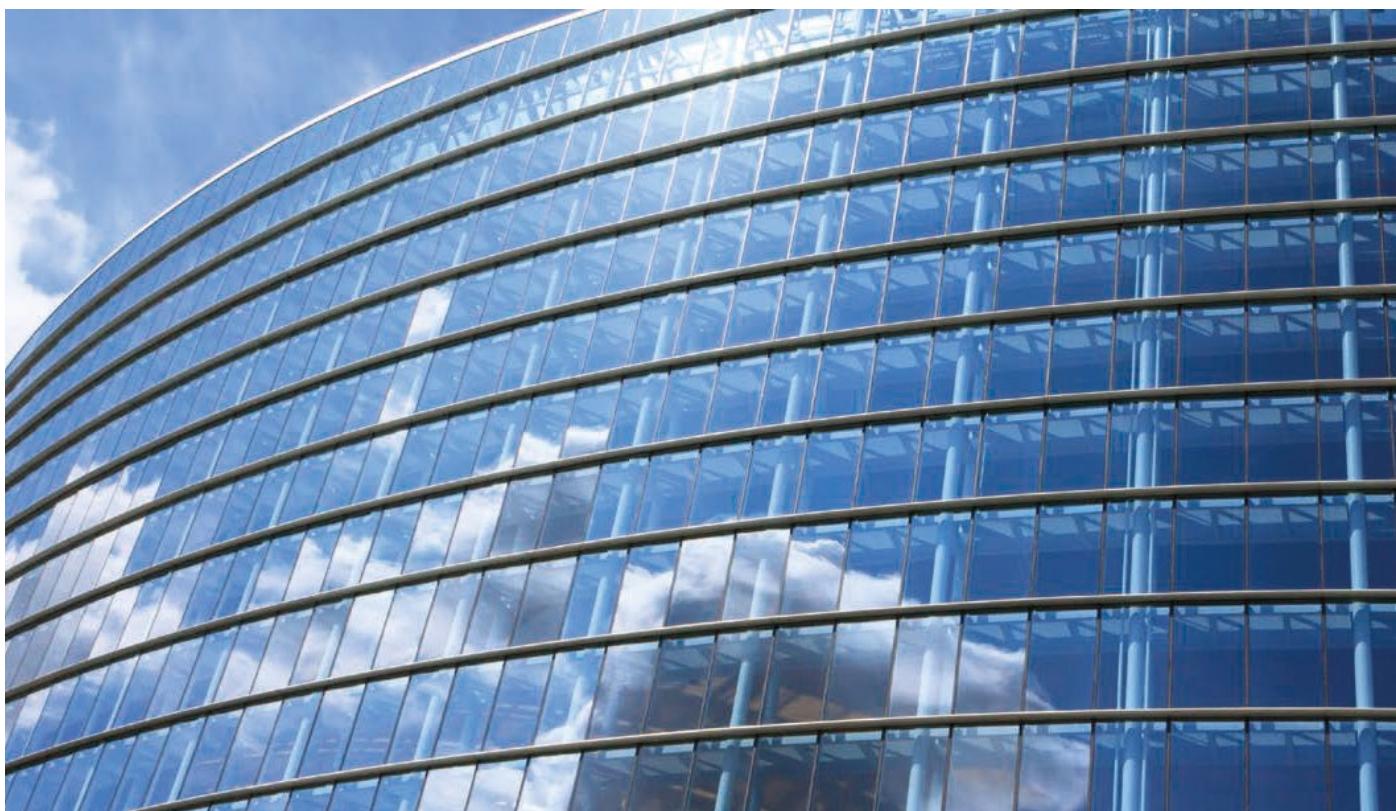
- High selectivity solar protection on neutral looking
- Architects often choose coated glass products that offer very high natural light transmittance
- This multifunctional coating minimizes the need for artificial light and offers excellent solar protection combined with outstanding thermal insulation, ensuring energy savings
- Excellent selectivity: allows high solar protection with high light transmission
- Sophisticated neutral reflected and transmitted color
- Ideal for fully glazed facade and roof glazing
- Available in ordinary and sound-insulated laminated glass for increased safety and comfort

Visible light				Solar energy			Solar factor (g) EN 410 [%]	U-value (EN 673)	
Trans-mission [%]	Reflection outside [%]	Reflection inside [%]	Colour rendering index	Direct Transmission [%]	Reflection outside [%]	Absorption [%]		Air * Krypton 90% [W/m <sup>-2</sup> K]	Argon 90% [W/m <sup>-2</sup> K]
Double glazing: 6-16-4, SunGuard					* SuperNeutral on surface #2.				
51	12	23	93	26	37	37	28	1.3	1.0
Triple glazing: 6-12-4-12-4, SunGuard					* SuperNeutral on surface #2 + ClimaGuard				
45	14	24	91	22	38	40	25	* 0.5	0.7



## SunGuard® SuperNeutral

SN 70/35



### SunGuard® SuperNeutral SN 70/35

- Visoka selektivnost solarne zaštite sa neutralnim izgledom
- Arhitekte se često odlučuju za stakla sa premazom koja nude vrlo visoko propuštanje prirodnog svjetla
- Ovaj multifunkcionalni premaz smanjuje potrebu za vještačkim svjetlom i nudi odličnu solarnu zaštitu u kombinaciji sa izuzetnom toplotnom izolacijom, uz osiguranje uštede energije
- Odlična selektivnost: omogućuje visoku solarnu zaštitu s visokim prijenosom svjetlosti
- Atraktivna neutralno plava boja
- Idealan za potpuno ostakljjenje fasada i velikih prozora
- Dostupno na običnim i zvučno izolovanim lamistal staklima za veću sigurnost i udobnost

### SunGuard® SuperNeutral SN 70/35

- High selectivity solar protection on neutral looking
- Architects often choose coated glass products that offer very high natural light transmittance
- This multifunctional coating minimizes the need for artificial light and offers excellent solar protection combined with outstanding thermal insulation, ensuring energy savings
- Excellent selectivity: allows high solar protection with high light transmission
- Attractive neutral blue reflected color
- Ideal for fully glazed facade and large framed windows
- Available in ordinary and sound-insulated laminated glass for increased safety and comfort

Visible light				Solar energy			Solar factor (g)	Selec-tivity	U-value (EN 673)
Trans-mission [%]	Reflection outside [%]	Reflection inside [%]	Colour rendering index	Direct transmission [%]	Reflection outside [%]	Absorption [%]	EN 410		Argon 90% [W/m <sup>2</sup> K]
Double-glazing: 6-16-4, SunGuard					* SuperNeutral on surface #2				
70	14	16	94	33	42	25	35	2.00	1.0
Triple-glazing: 6-16-4-16-4, SunGuard					* SuperNeutral on surface #2 + ClimaGuard				
64	16	18	94	29	43	28	32	2.00	0.5

The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to EN 410; U-values according to EN 673.

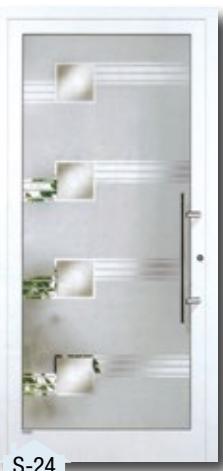


# Pjeskarenje

*Sandblasting*

Pjeskarenje vršimo na automatskoj mašini najnovije generacije kapaciteta 35 m<sup>2</sup>/h. Moguće je pjeskarenje na svim staklenim i pločastim materijalima (npr. alubond) u debljinama do 24 mm. U mogućnosti smo da izradimo bilo koji motiv-sliku po Vašoj želji. Prikazali smo mali dio shema pjeskarenja kao ilustraciju onoga što možemo uraditi.

We do the sand blasting on automatic machine of last generation with capacity of 35 m<sup>2</sup>/h. It is possible to do the sand blasting on all glasses and plate materials (such as alubond) in thickness up to 24 mm. We are able to do any motive-picture that you wish and here we show small part of sand blasting schemes as illustration of that what we can do.





Kiosci i kontejneri

*Kiosks and containers*

U našoj proizvodnji izrađujemo kompletну čeličnu konstrukciju za kioske i kontejnere koje zatim oblažemo kombinacijom Aluminijumskih ili PVC prozora, vrata i termoizolacionih panela prema zahtjevu kupca. Ovdje su dati neki primjeri do sada urađenih kioska i kontejnera. Oni se kod nas proizvode prema narudžbi tako da je broj mogućih kombinacija koje stoje na raspolaganju neograničen.

In our production, we make complete steel construction for kiosks and containers in which we install Aluminum or PVC doors, windows and thermal insulated panels according to customer wish. Here enclosed you can find examples of some kiosks and containers made up to now. We manufacture them according to customers wish so the combinations are unlimited.



K-1



K-2



K-3



K-4



Nadstrešnice od  
polikarbonatnih ploča

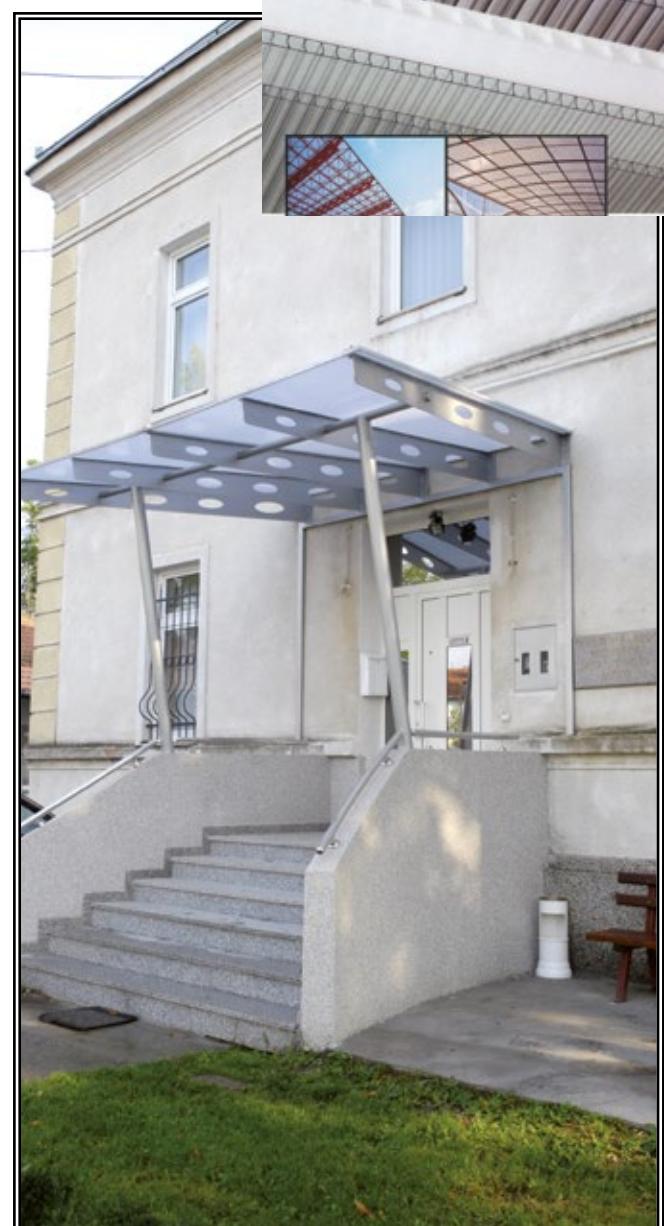
*Polycarbonate  
plates canopies*

Za nadstrešnice konstrukciju proizvodimo od Aluminijumskih ili čeličnih profila koji se zatim pokrivaju materijalom nove generacije - višeslojnim polikarbonatnim pločama koje se odlikuju malom specifičnom težinom, otpornošću na vremenske uticaje, mogućnošću prirodnog osvjetljenja prostora i lako se održavaju. Polikarbonatne ploče se izrađuju u različitim bojama i debljinama. Standardne su debljine d=10, 16 i 20 mm, gdje se sa povećanjem debljine povećava i broj vazdušnih komora. Standardne boje su mlijeko bijela i providna. Lako se savijaju pa možemo uraditi zalučene nadstrešnice.

Construction of canopies is made of Aluminum or steel profiles, which are covered with material of new generation - multi layer polycarbonate plates which have following characteristics: small specific weight, good weather conditions resistance, possibility of natural space illumination and easy maintenance. Polycarbonate plates are made in different colors and thickness. Standard thicknesses are d=10, 16 and 20 mm, where with thickness increase, increases also number of air chambers. Standard colors are milk white and transparent. It is easy to bend them so we can make arch canopies.



Brčko, Auto pravonica / Car wash „Drina”



Brčko, Katolička crkva / Catholic church



Roletne, komarnici  
i klupice

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*Rolling shutters, mosquito  
nets and window sills*

Roletne, komarnici i klupice predstavljaju dodatnu opremu stolarije koja daje dodatni kvalitet udobnosti stanovanja. Roletne se izrađuju od aluminijumskog termoizolovanog zastora koji se u svim klimatskim uslovima pokazao kao optimalan.

Roletne se mogu otvarati:

- 1) standardno-pomoću gurtne-trake,
- 2) opcionalno-pomoću kurble,
- 3) pogonom elektromotora sa upravljanjem preko tastera,
- 4) pogonom elektromotora sa daljinskim upravljanjem.

Kutija roletne se izrađuje u dvije varijante:

- a) PVC kutija sa termoizolacijom se postavlja iznad prozora/vrata i koristi se u novogradnji kada na objektu postoji „zub“ za roletnu. Ukoliko „zuba“ nema može se koristiti ako ugradnja ove kutije visine 190 mm ne predstavlja problem za dovoljno osvjetljenje prostorije jer ista umanjuje svjetli otvor za 190 mm.
- b) Aluminijumska kutija se postavlja ispred prozora/vrata i koristi se prilikom ugradnje roletni na postojeću stolariju ili u novogradnji kada nije predviđen „zub“ za roletnu. Ova kutija ima manje dimenzije i racionalnija je u pogledu smanjenja „svjetle visine“ otvora. Standardne dimenzije ove kutije su 137, 165 i 180 mm.

Komarnici se mogu postavljati zajedno sa roletnom ili samostalno. Izrađuju se u dvije varijante:

- 1) Fiksni kod kojih se mrežica postavlja u fiksni aluminijumski ram kojeg je moguće kompletog demontirati u periodu kada nije potreban. Može se montirati samo na prizemne objekte jer je demontaža predviđena sa spoljašnje strane.
- 2) Rolo koji poput roletne imaju kutiju u koju se namotava mrežica. Mogu se postavljati u vertikalnom smjeru kao roletna ili u horizontalnom smjeru koji se koristi npr. za balkonska vrata.

Standardno roletne, komarnike i spoljašnje aluminijumske klupice izrađujemo u bojama:

1. Bijela plastificirana RAL 9016
2. Braon plastificirana RAL 8014
3. Siva Elosirana (Silver) S-1
4. Antracit tamno siva Plastificirana RAL 7016 ferogrey mat, dok se za veće količine mogu poručiti i druge boje.

Unutrašnje PVC klupice izrađujemo u bijeloj boji i dezenu mermera.



Aluminijumska kutija sa rolo komarnikom  
Aluminum box with rolling mosquito net

Rolling shutters, mosquito nets and window sills represent the additional equipment of doors and windows, which give a new quality to a living space. Rolling shutters are made of Aluminum thermo slats that in all weather conditions proved to be optimal.

Opening of rolling shutters is possible:

- 1) In a standard way by a belt,
- 2) Optionally with the crank,
- 3) By an electro motor, with a push button,
- 4) By an electro motor, with a remote control.

Rolling shutter box can be made in two ways:

- a) PVC box with thermal insulation is mounted above window/door and it is used in new buildings when there is a „teeth“ for rolling shutter. If there is no „teeth“ than it can be used if installation of this box with height of 190 mm does not make problem for good illumination of room, because this box lowers light opening for 190 mm.
- b) Aluminum box is mounted in front of window and it is used for installation of rolling shutters on existing windows/doors or in new buildings when there is no „teeth“ for rolling shutters. This box has smaller dimensions and it is more rational considering reduction of „light height“ of opening. Standard dimensions of these boxes are 137, 165 and 180 mm.

Mosquito nets can be mounted together with rolling shutters or independently. They are made in two ways:

- 1) Fixed - where net is mounted on fixed Aluminum frame that can be removed completely when there is no necessity for mosquito nets. It can be mounted only on terrestrial buildings because dismantling has to be done from outside.
- 2) Rollo - as rolling shutter has box in which net is roll up. They can be mounted in vertical direction as rolling shutters or in horizontal direction, which is used for balcony doors.

Standard rolling shutters, mosquito nets and outside window sills we made in colors:

1. White powder coated RAL 9016
2. Brown powder coated RAL 8014
3. Silver Anodized S-1
4. Anthracite dark gray RAL 7016 powder coated ferogrey mat, while for bigger quantities is possible to order other colors.

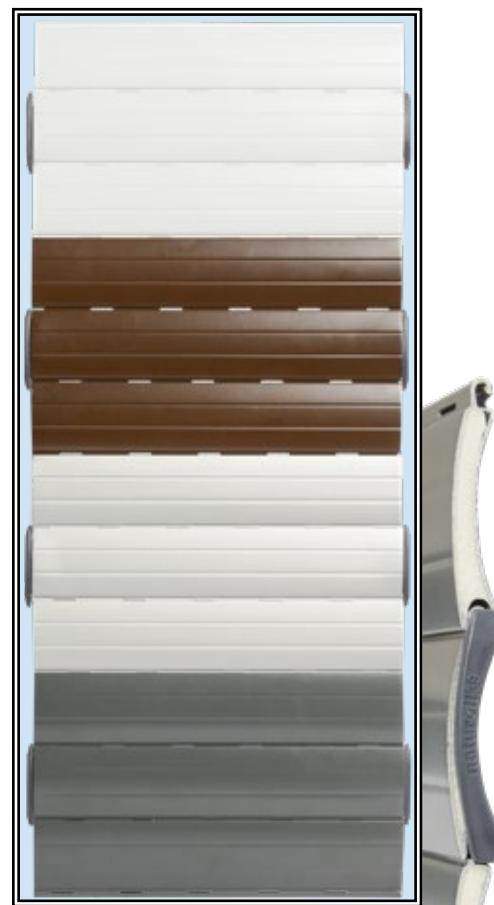
Internal PVC windowsills are made in white color and in marble design.



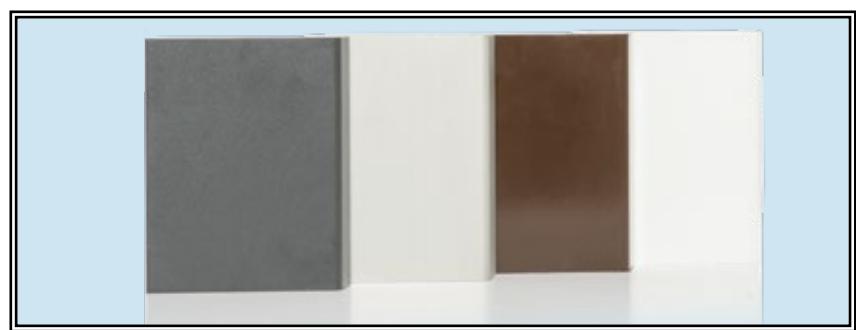
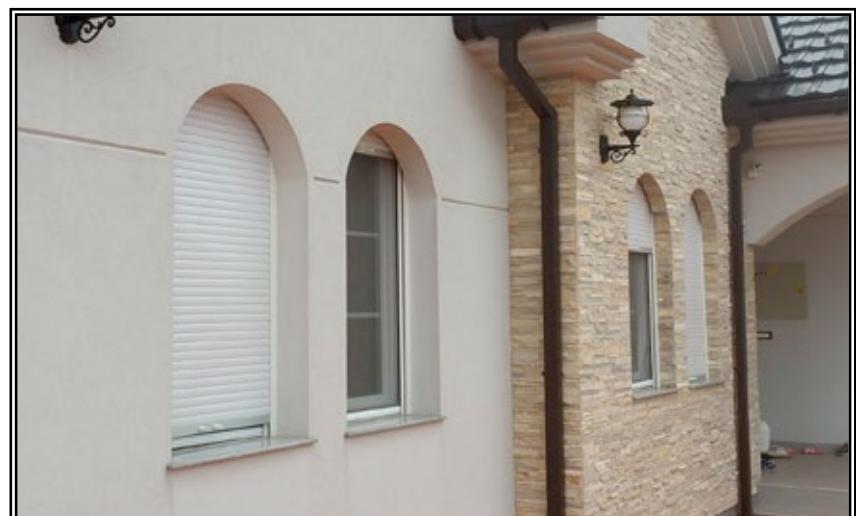
PVC termoizolovana kutija sa rolo komarnikom  
PVC thermal insulated box with rolling mosquito net



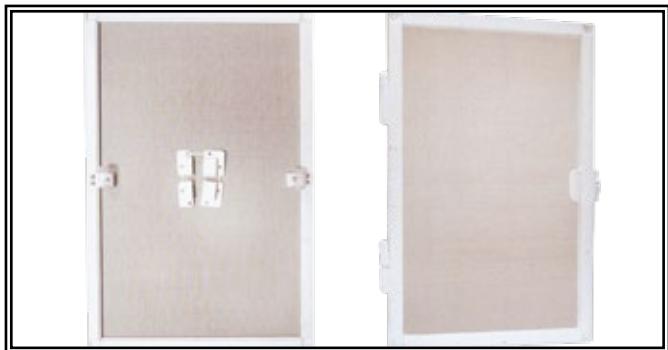
Sistemi otvaranja roletni  
Systems for opening of rolling shutters



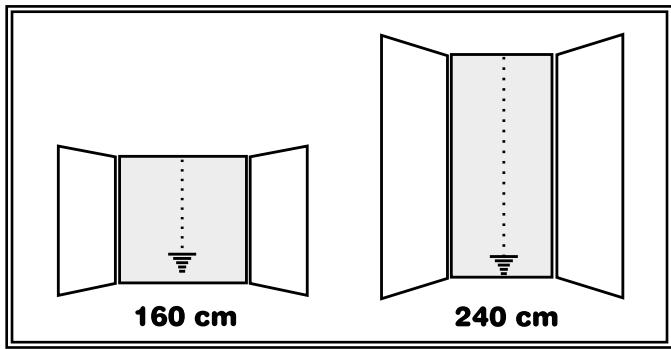
Paleta boja Aluminijumskog zastora-lamelica  
The color palette of Aluminum slats



Boje kutija i vodilica roletni  
Colors od boxes and guides of rolling shutters



Fiksni komarnici / Fixed mosquito nets



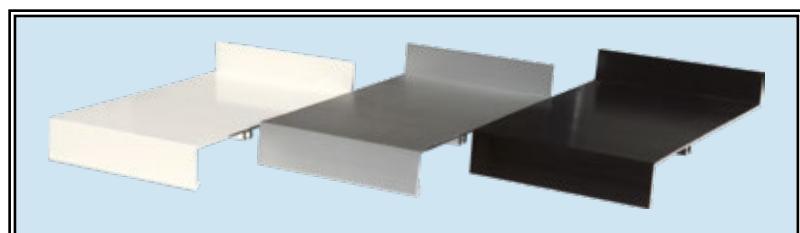
Prozor i Balkonska vrata / Window and Balcony door



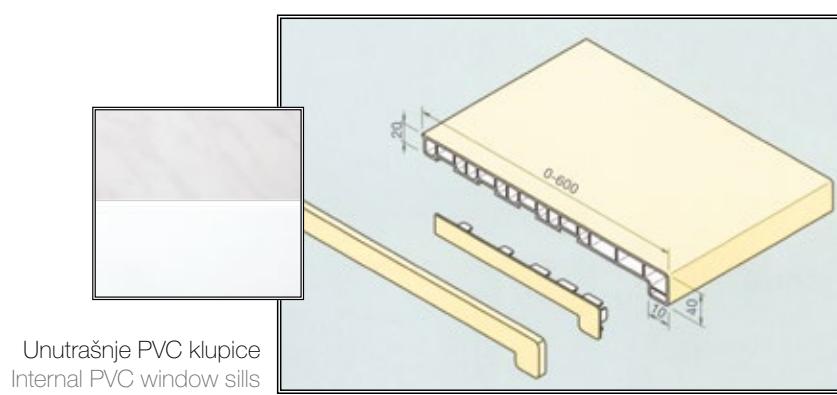
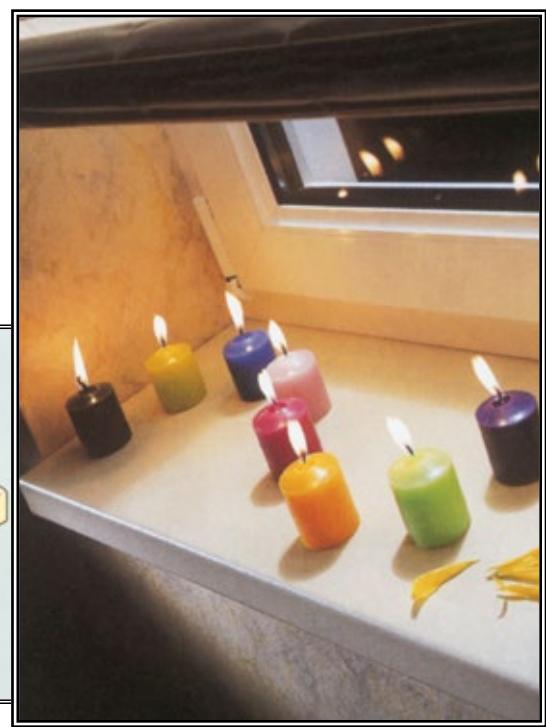
Otvarajući komarnici / Opening mosquito nets



Rolo komarnici / Rolling mosquito nets



Spoljašnje klupice  
External window sills





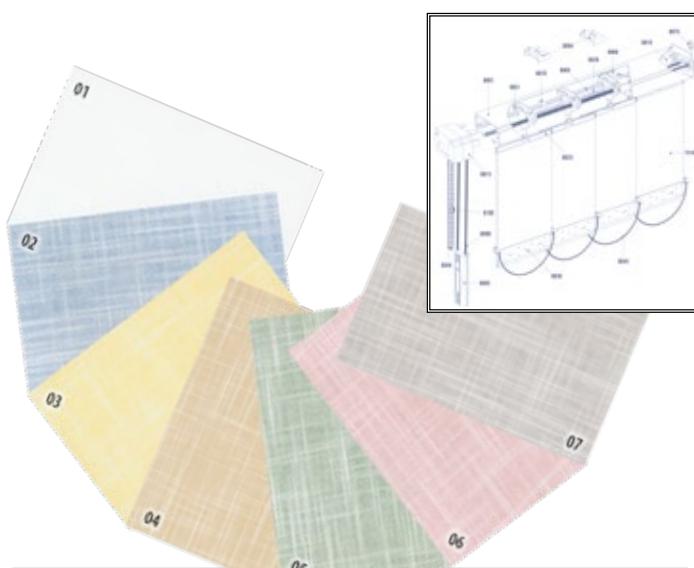
Trakaste zavjese,  
venecijaneri i  
lajsne u staklu

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*Vertical blinds, venetian  
blinds and glass transoms*

Trakaste zavjese i venecijaneri koriste se za regulaciju osvjetljenosti prostorije. Trakaste zavjese izrađujemo od „shantung“ materijala (100% poliester) težine 185 g/m<sup>2</sup>, od traka širine 127 mm. Venecijanere izrađujemo od aluminijumskih lamelica širine 25 mm. U standardnoj ponudi imamo različite boje i dezeni prikazane u paletama boja, dok se za veće količine mogu naručiti druge boje i dezeni. Lajsne u staklu radimo u dizajnu po želji kupca. Mogu biti prave ili savijene u luku. Ugrađuju se u vazdušni međuprostor termoizolacionog stakla, pa nema potrebe za održavanjem. Sav repro-materijal koji koristimo za ove proizvode, je uvozni od italijanskih proizvođača vrhunskog kvaliteta.

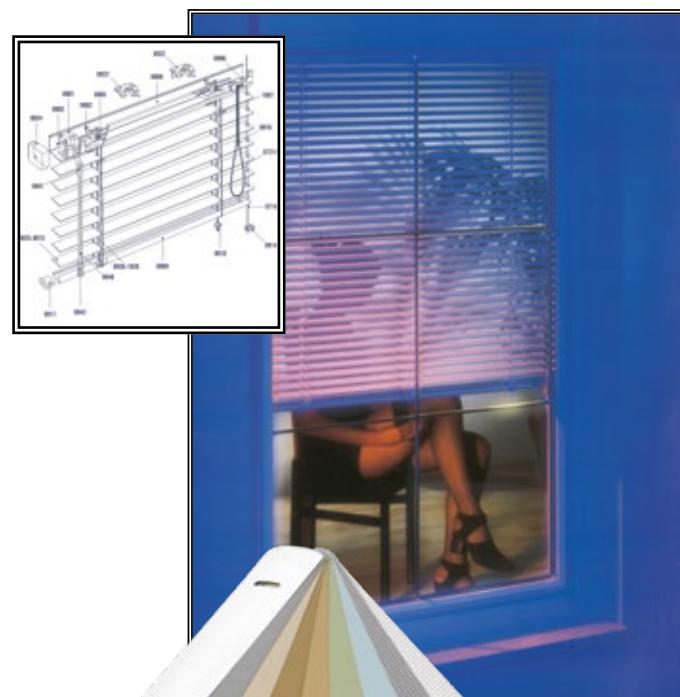
Vertical and Venetian blinds are used for regulation of illumination of the room. Vertical blinds are made of „shantung“ material (100% polyester) weight 185 g/m<sup>2</sup>, from strips with width of 127 mm. We produce Venetian blinds from Aluminum lamellas with width of 25 mm. We have different colors and designs in our standard offer that are shown in color schemes, but for bigger quantities, it is possible to order other colors and designs. We install glass transoms designed according to customer wish. They can be straight or arc bended. They are installed in air space of thermal insulating glass so there is no necessity for maintenance. All materials that we use for these products are top quality imported from Italian producers.



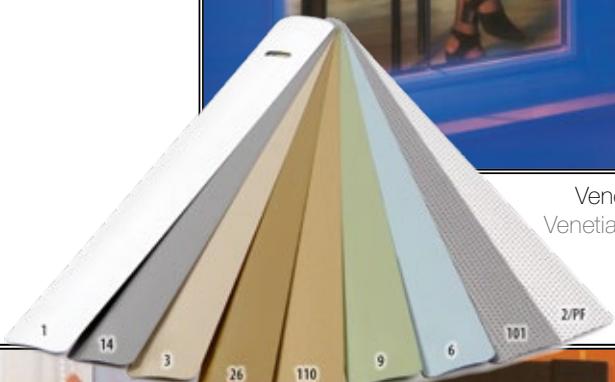
Trakaste zavjese  
Vertical blinds



Lajsne na staklu  
Glass transoms



Venecijaneri  
Venetian blinds





U proteklom periodu uradili smo na hiljade poslovnih, industrijskih, stambenih, kulturnih, zdravstvenih, sportsko - rekreativnih, hotelskih i niz drugih objekata u zemlji i inostranstvu.

U novije vrijeme izvodili smo radeve na objektima:

- Švajcarska, Ciriš , Schauenbergstrasse
- Švajcarska, Zweidlen , Lettenstrasse
- Švajcarska, Wollerau , Heiniweidstrasse
- Novi Beograd, Crkva Svetog Simeuna
- Švajcarska, La Tour-de-Peilz
- Švajcarska,Wohlerstrasse 20, Dottikon
- Poslovni objekat "Kožara" Ruma
- Stambena zgrada u ulici Radoja Dakića, Zemun
- Fabrika "Plamen" Indija
- Objekat pod zaštitom države, Strahinjića Bana 9, Beograd
- Apartmani "Sporting-MB" Zlatibor, Srbija
- Poslovni objekat "Uniprogres" Ruma
- Izložbeni salon "Bosch Security Systems" Beograd
- Fabrika "Hutchinson" Ruma
- Stambena zgrada "MMI projekt" Strumička 57, Beograd
- Hotel „Drina“ u Bijeljini
- Pravoslavna crkva u Breziku i Koreniti u Brčkom
- Restoran objekta Termoelektrana u Ugljeviku
- Stambeni objekat „Finalprom“ Bijeljina
- Stambeno poslovni objekat „GK Pejić“ Brčko
- Stambeni objekat „MDA“ Brčko
- Stambeni objekat „Sporting- MB“ Ugljevik
- Dječiji vrtić u Doboru
- O.Š. „Mihajlo Pupin“ Derventa
- Poslovna zgrada „Željeznice BiH“ Doboj
- Stambena zgrada Block A + Block B, MUTENZ, Švajcarska
- Stamb. zgrade Haus 1 + 2, Zweidlen, Glattfelden, Švajcarska
- Poslovna zgrada „Autorad“ Novi Sad
- Poslovna zgrada „Autotehnika“ Novi Sad
- Restoran u Kuršumliji
- Benzinska pumpa i restoran „Klas“ na putu Brčko-Bijeljina
- Stambeni objekat „PARK“ Brčko
- Poslovni objekat „ALFI“ Brčko
- Poslovni objekat „Komunalno“ Brčko
- Fabrika „COOPER STANDARD“ Sremska Mitrovica
- Centralni magacin – trafo stanice „DELHAIZE“ Nova Pazova
- Fabrika čarapa „FULGAR“ Zrenjanin
- Upravna zgrada i servis „EUREX“ Stara Pazova

In the past period we have done thousands of commercial, industrial, residential, cultural, health, sports - recreational, hotel and other buildings in the country and abroad.

In recent years, performed works on the facilities:

- Switzerland, Zurich , Schauenbergstrasse
- Switzerland, Zweidlen , Lettenstrasse
- Switzerland, Wollerau , Heiniweidstrasse
- Novi Beograd, Temple Saint Simon
- Switzerland, La Tour-de-Peilz
- Switzerland, Wohlerstrasse 20, Dottikon
- Commercial building "Kozara" Ruma
- Residential building in the Radoja Dakica Street, Zemun
- Factory "Plamen" Indija
- The building under state protection, Str. Bana 9, Belgrade
- Apartments building Sporting-MB, Zlatibor mountain, Serbia
- Commercial building "Uniprogres" Ruma
- Showroom "Bosch Security Systems" Belgrade
- Factory "Hutchinson" Ruma
- Residential building "MMI projekt" Strumicka 57, Belgrade
- Hotel "Drina" Bijeljina
- Orthodox church in the Brezik and Korenita, Brcko
- Restaurant in Thermal Power Plant in Ugljevik
- Residential building "Finalprom" Bijeljina
- Residential and commercial building " GK Pejic " Brcko
- Residential building "MDA" Brcko
- Residential building "Sporting-MB" Ugljevik
- Kindergarten in Doboj
- Primary School "Mihajlo Pupin" Derventa
- Business Building "Zeljeznice BiH" Doboj
- Residential building Block A + B Block, Muttenz, Switzerland
- Residential Haus Haus 1 + 2, Zweidlen, Glattfelden Switzerland
- "Autorad", administration building, Novi Sad
- "Autotehnika", administration building, Novi Sad
- Restaurant in Kursumlija
- Gas station and restaurant "Klas" on the road Brcko-Bijeljina
- Residential building "PARK" Brcko
- Commercial building "ALFI" Brcko
- Commercial building "Komunalno" Brcko
- Factory "COOPER STANDARD" Sremska Mitrovica
- The central warehouse "DELHAIZE" Nova Pazova
- Socks factory "FULGAR" Zrenjanin
- Administrative buildings and service "EUREX" Stara Pazova

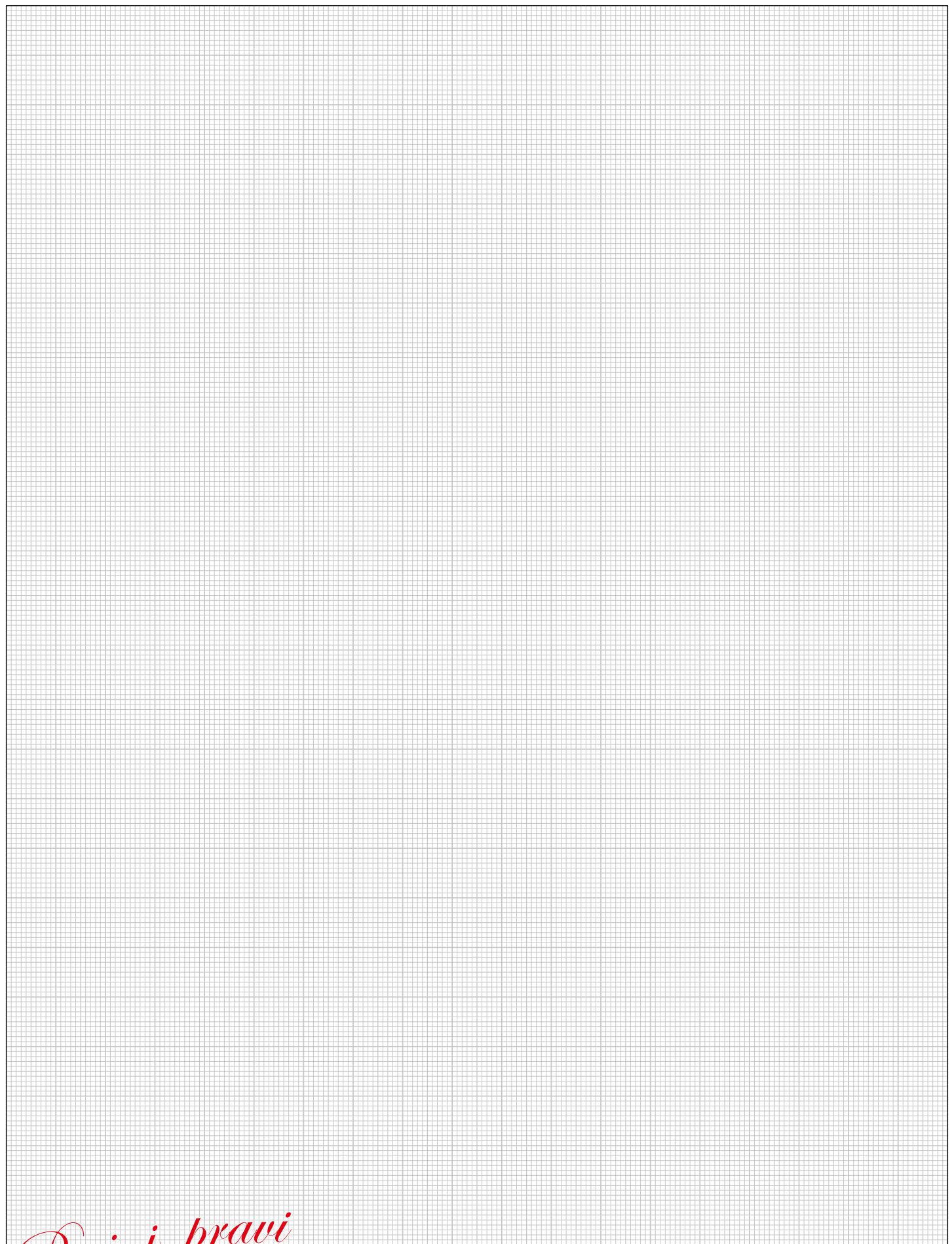
- Poslovni objekat "MEDINI keramika" Batajnički drum, Beograd
- OŠ „Glamoč“ Glamoc
- Poslovni objekat "Milobratović" Petrovaradin, Novi Sad
- Stambena zgrada "CITY HOLDING" Antona Čehova 1, Novi Sad
- Stambena zgrada "CITY HOLDING" Voj. Knićanina 28, N. Sad
- Stambena zgrada "Zidar" kod Gimnazije Brčko
- Stambena zgrada "Zidar" ulica Klosterska, Brčko
- Stambena zgrada "EŠ Naselje" MDA d.o.o. Brčko
- Stambena zgrada "MMI projekt" ulica Grčića Milenka, Beograd
- Stambeno-poslovni objekat "ILV" ulica Katanićeva, Beograd
- Stambeni objekti 2, 2A i 2B Märstetten, Unterräuliweg, Švajcarska
- Stambena zgrada "House of Trust" Zemun, Beograd
- Stambeno-poslovna zgrada "Klas" Brčko
- Stambeni objekti HAUS 1 i 2, Thayngen, im Gatter, Švajcarska
- Upravna zgrada "Martini gradnja" Indija
- Poslovni objekat "Nova trgovina" Brčko
- Stambena zgrada "Lamela C" Zidat Brčko
- OŠ „Vladimir Pavlović“ Čapljina
- OŠ „Bijelo Polje“ Mostar
- Stambena zgrada "SZ Institut" Beograd
- Auto kuća "ŠKODA SAMARDŽIĆ" Rakovica, Beograd
- Fabrika "SIGIT" Fiat automobili Srbija, Kragujevac
- Upravna zgrada „ENERGOSISTEM“ Brčko
- Fabrika "MUEHLBAUER" Stara Pazova
- Stambena zgrada "CITY HOLDING" Cara Dušana 63, Novi Sad
- Objekat „Gorenje“ Šimanovci
- OŠ „Drvar“ Drvar
- „Starački dom“ u Derventi
- Proizvodne hale „Gorenje Home“ Zajecar
- Stambena zgrada „Daneks Gradnja“ Cerska 74-76, Beograd
- Upravna zgrada „Geokop“ Derventa
- Tržni centar i pijaca Bosanski Brod
- Lamela „Zidar“ Bijeljinska cesta, Brčko
- Benzinske pumpe „Brčko Gas“ Laktasi i Gradiška
- Stambene zgrade u Salzburgu i Beču "Lovric GmbH"
- Hotel "Kardijal" Teslić
- OŠ „Muhsin Rizvić“ Fojnica
- OŠ „Vareš“ u Varešu
- Poslovni kompleks „Gatarić“ Krnješevci, Beograd
- Stambena zgrada „Vins021“ u Ul. Cara Dušana, Novi Sad
- Stambena zgrada „Uni-invest“, Stepe Stepanovića, B. Luka
- OŠ „Veselin Masleša“ Foča
- OŠ „Vuk Karadžić“ Vlasenica
- OŠ „Petar Petrović Njegoš“ u Potočarima, Srebrenica
- Područne zdravstvene ambulante u Brčkom
- Poljoprivredna i Medicinska škola u Brčkom
- Prva Osnovna škola „Jelenka Vočkić“ Brčko
- Treća Osnovna škola, Brčko
- Peta Osnovna škola, Brčko
- Šesta Osnovna škola, Brezovo Polje
- Sedma Osnovna škola, Palanka
- Deveta Osnovna škola u Prutačama
- Petnaesta Osnovna škola, Šatorovići
- Upravna zgrada „Metal-Vis“ Derventa
- Upravna zgrada sa proizvodnom halom „Karlito“ Beograd
- Proizvodna hala „Euro dom“ Beograd
- Proizvodna hala „Čugura print“ Beograd
- Sportska hala „Lukavica“ Sarajevo
- Upravna zgrada „Mandić Komerc“ Derventa
- Stambeno poslovni objekat „Dijana“ Banja Luka
- Commercial bldg "Medini keramika" Batajnici drum, Belgrade
- Primary School "Glamoc" Glamoc
- Commercial building "Milobratovic" Petrovaradin, Novi Sad
- Residential building "CITY HOLDING" Antona Cehova 1, N. Sad
- Residential building "CITY HOLDING" Vojv. Knicanina 28, N. Sad
- Residential building "Zidar" Near Gymnasium Brcko
- Residential building "Zidar" Klosterska Street, Brcko
- Residential building "ES Naselje" MDA Brcko
- Residential building "MMI project" Grcica Milenka, Belgrade
- Residential building "ILV" Katanićeva Street, Belgrade
- Residential building 2, 2A and 2B Märstetten, Unterräuliweg, Switzerland
- Residential building "House of Trust" Zemun, Belgrade
- Residential and commercial building "Klas" Brcko
- Residential bldg HAUS 1 and 2, Thayngen, im Gatter, CHE
- Administration building "Martini gradnja" Indija
- Business building "Nova trgovina" Brcko
- Residential building "Lamela C" Zidat Brcko
- Primary School "Vladimir Pavlović" Capljina
- Primary School "Bijelo Polje" Mostar
- Residential building "SZ Institut", Belgrade
- Car service "SKODA SAMARDZIC " Rakovica, Belgrade
- Factory "SIGIT" Fiat Automobiles Serbia, Kragujevac
- Administration building "ENERGOSISTEM" Brcko
- Factory "MUEHLBAUER" Stara Pazova
- Residential building "CITY HOLDING" Cara Dusana 63, N. Sad
- Administration building "Gorenje" Simanovci
- Primary School "Drvar" in Drvar
- "Nursing home" Derventa
- Production hall "Gorenje Home" Zajecar
- Residential building "Daneks Gradnja" Cerska 74-76, Belgrade
- Administration building "Geokop" Derventa
- Shopping center and market in Bosanski Brod
- Residential building "Zidar" Bijeljinska cesta, Brcko
- Gas Stations "Brcko Gas" Laktasi and Gradiška
- Residential buildings in Salzburg and Vienna for Lovric GmbH
- Hotel "Kardijal" Teslic
- Primary School "Muhsin Rizvic" Fojnica
- Primary School "Vares" Vares
- Business complex "Gataric" Krnjesevci, Belgrade
- Residential building "Vins021" Cara Dusana Street, Novi Sad
- Residential building „Uni-invest“ Stepe Stepanovica, B. Luka
- Primary School "Veselin Maslesa" Foca
- Primary School "Vuk Karadzic" Vlasenica
- Elementary School "Petar Petrovic Njegos" Potocari, Srebrenica
- Regional health clinics in Brcko
- Agricultural and Medical School in Brcko
- The first primary School "Jelenka Vockic" Brcko
- Third Primary School, Brcko
- Fifth Primary School, Brcko
- Sixth Primary School, Brezovo Polje
- The seventh Primary School, Palanka
- Ninth Primary School, Prutace
- Fifteenth Primary School, Satorovic
- Administration building "Metal-Vis" Derventa
- Administrative bldg with production building "Carlito" Belgrade
- Production hall "Euro dom" Belgrade
- Production hall "Cugura print" Belgrade
- Sports hall "Lukavica" Sarajevo
- Administrative building "Mandic Komerc" Derventa
- Residential and commercial building "Dijana" Banja Luka

- Stambeno poslovni objekat „Vidovdanka” Doboј
- Stambeno poslovni objekati „Progres I i II” Doboј
- Stambeno poslovni objekat „Sara” Doboј
- Stambeno poslovni objekat „Kristina” Doboј
- Stambeno poslovni objekat „Maja” Doboј
- Stambeno poslovni objekat „Boračka” Doboј
- Upravna zgrada „Gatarić” Derventa
- Stambeno poslovni objekat „Lamela SM-4” Banja Luka
- Stambeni objekat „Gas petrol” Brčko
- Stambeni objekat „AD Trgovina” Banja Luka
- Zgrada Ministarstva unutrašnjih poslova Doboј
- Zgrada Ministarstva unutrašnjih poslova Bosanski Brod
- Zgrada Ministarstva unutrašnjih poslova Derventa
- Zgrada Ministarstva unutrašnjih poslova Šamac
- Zgrada Ministarstva unutrašnjih poslova Lazarevo
- Zgrada Ministarstva unutrašnjih poslova Omarska
- Benzinska pumpa „Oktan promet YU” na autoputu kod Šida
- Zgrada Opštine Derventa
- Stambena zgrada u Beču, Austrija
- Ekonomski škola u Brčkom
- Ekonomski fakultet u Brčkom
- Vila „Mandić” Novi Sad
- Stambena lamela u Novom Sadu
- Zdravstveni centar u Brčkom
- Dom mladih u Brčkom
- Opšta Bolnica u Brčkom
- Poslovni centar u Salzburgu, Austrija
- Tržni centar „Emporium” Bijeljina
- Poslovna zgrada „Telekom” Brčko
- Glavna Pošta u Brčkom
- Zgrada Vlade Brčko Distrikta
- Lamela A, B, C i D u Brčkom, investitor MB Radić
- Robna kuća „Sloboprom-S” Brčko
- Hotel „Jelena” Brčko
- Poslovna zgrada carinarnice i špedicije u Brčkom
- Upravna zgrada „Elektrodoboj” Doboј
- Upravna zgrada „Rafinerije ulja Modriča” Modriča
- Poslovni centar „Milenijum” Derventa
- Robna kuća i restoran „Zovko” Žepče
- Upravna zgrada „Termogradning” Gacko
- Stambeni objekat „S - 45 stanova” Doboј
- Sportska sala pri OŠ „Lukavica” Sarajevo
- „OŠ sa bazenima Ugljevik” u Ugljeviku
- Upravna zgrada Elektrodistribucije PJ Derventa
- Upravna zgrada i benzinska pumpa „Oktan promet” Bijeljina
- Proizvodna hala i upravna zgrada „Metal” Teslić
- Upravna zgrada i benzinske pumpe „Gas-petrol” u Šamcu i Brčkom
- Upravna zgrada Elektrodistribucije Brčko Distrikta
- Proizvodna hala „Metalik” Derventa
- Zgrada za socijalni rad Brčko Distrikta
- JU „Tehnička škola” Brčko Distrikta
- Fabrika za proizvodnju piva u Bečeu
- Poslovni objekti „Sojaprotein” Bečej
- Poslovni objekti PP „Klas” Brčko
- Upravna zgrada fabrike akumulatora „Tesla” Brčko
- Pozorište „Atelje 212” Beograd
- PSC Mercedes Benz „Babić” Brčko
- Salon automobila Škoda „Autorad” Pelagićevo

i mnogi drugi...

- Residential and commercial building "Vidovdanka" Doboј
- Residential and commercial building "Progres I i II" Doboј
- Residential and commercial building "Sara" Doboј
- Residential and commercial building "Kristina" Doboј
- Residential and commercial building "Maja" Doboј
- Residential and commercial building "Boracka" Doboј
- Administrative building "Gataric" Derventa
- Residential and commercial bldg "Lamela SM-4" Banja Luka
- Residential building "Gas petrol" Brcko
- Building "AD Trgovina", Banja Luka
- The building of the Ministry of Internal Affairs in Doboј
- The building of the Ministry of Internal Affairs in Bosanski Brod
- The building of the Ministry of Internal Affairs in Derventa
- The building of the Ministry of Internal Affairs in Samac
- The building of the Ministry of Internal Affairs in Lazarevo
- The building of the Ministry of Internal Affairs in Omarska
- Gas station "Oktan promet YU" on the highway near Sid
- The building of the Municipality of Derventa
- Residential building in Vienna, Austria
- School of Economics in Brcko
- Faculty of Economics in Brcko
- Vila "Mandic" Novi Sad
- Residential lamella in Novi Sad
- Health Center in Brcko
- "Youth House" in Brcko
- General Hospital in Brcko
- Business center in Salzburg, Austria
- Shopping center "Emporium" Bijeljina
- Business building "Telekom" Brcko
- Main Post Office in Brcko
- The building of the Government of Brcko District
- Lamela A, B, C and D in Brcko, investor MB Radic
- Department store "Sloboprom-S" Brcko
- Hotel "Jelena" Brcko
- Customs office in Brcko
- Administration building "Elektrodoboj" Doboј
- Administration building "Modrica Oil Refinery" Modrica
- Business center "Milenijum" Derventa
- Shop and restaurant "Zovko" Žepče
- Administration building "Termogradning" Gacko
- Building "S – 45 flats" Doboј
- Sports hall at Primary School "Lukavica" Sarajevo
- Primary School with swimming pools, Ugljevik
- Administrative buildings Power Supply PJ Derventa
- Administration bldg and petrol station "Oktan promet" Bijeljina
- Production hall and administrative building of "Metal" Teslic
- Administrative buildings and gas stations "Gas-petrol" Samac and Brcko
- Administrative buildings Power Supply Brcko District
- Production hall "Metalik" Derventa
- Administrative bldg of Center for Social Work in Brcko District
- Technical School in Brcko District
- Factory for production of beer in Becej
- Administrative building "Sojaprotein" Becej
- Office buildings PP "Klas" Brcko
- Administrative building of battery factory "Tesla" Brcko
- Theatre "Atelje 212" Belgrade
- Mercedes Benz automobiles "Babic" Brcko
- Skoda automobiles "Autorad" Pelagicevo

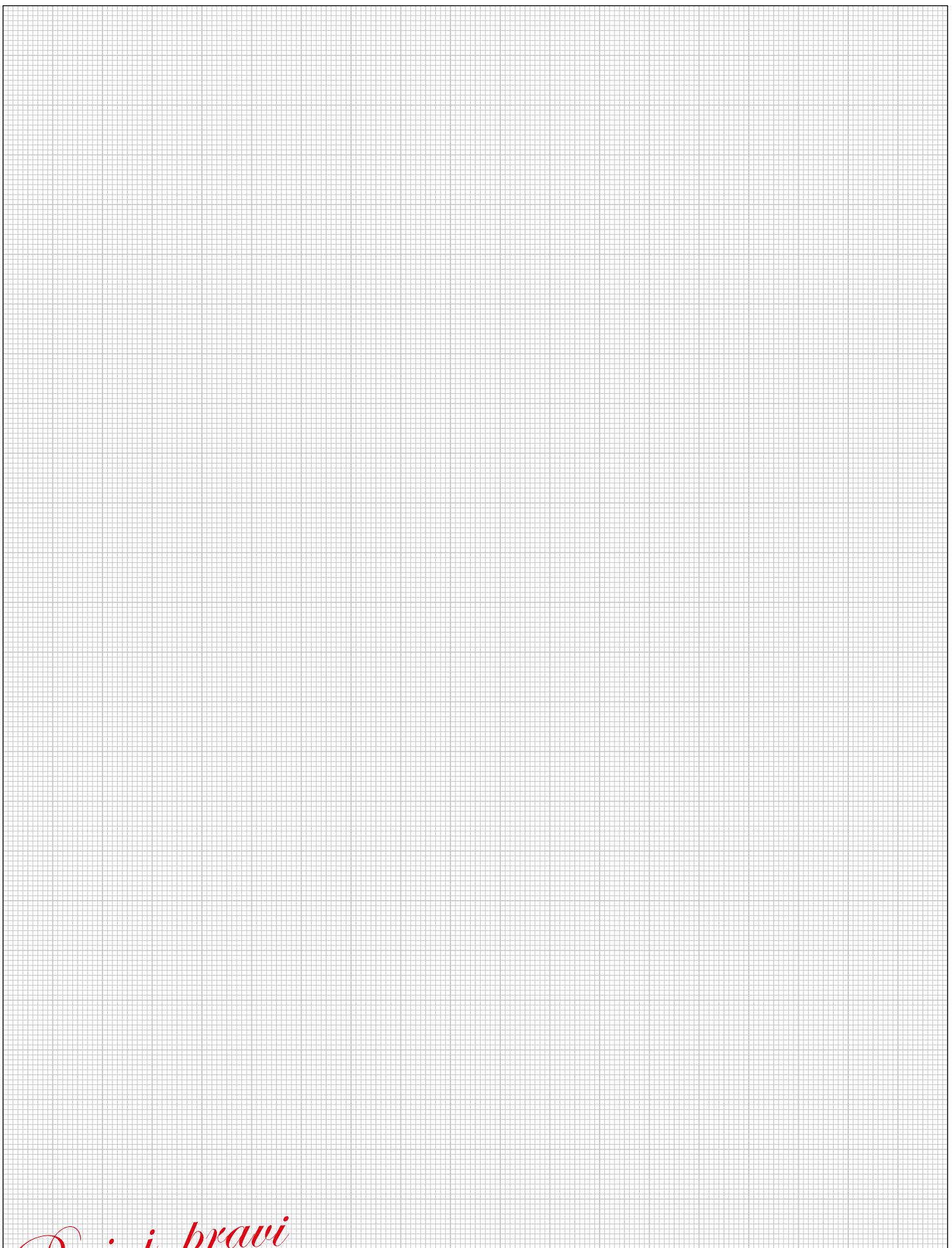
and many others...



*Prvi i pravi*

**FABRIKA**

*alu i pvc stolarije, termo stakla, fasada...*



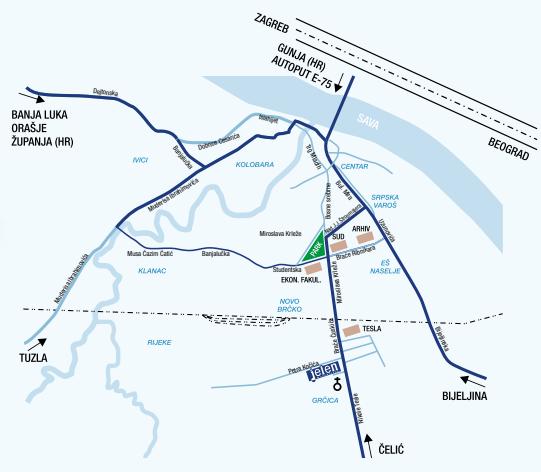
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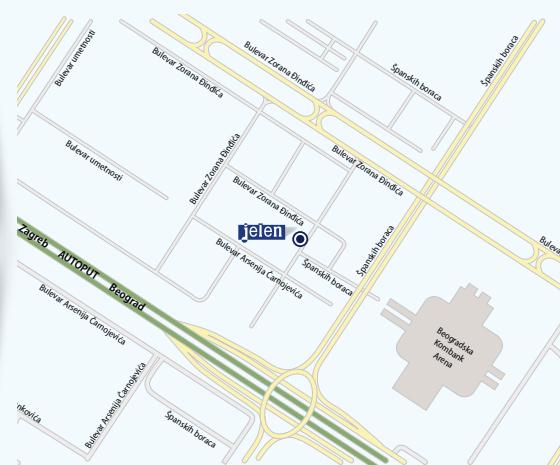
alu i pvc stolarije, termo stakla, fasada...



*Prvi i pravi*



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