

PROGRAD

# Katalog proizvoda

Products catalogue



ProgradHolz

## O nama

Preduzeće za proizvodnju, trgovinu i usluge Prograd Holz d.o.o. Žepče od 2015. godine posluje kao samostalno preduzeće. Ranije je, kao sporednu djelatnost, svoju proizvodnu djelatnost obavljalo u okviru građevinskog preduzeća Prograd d.o.o. Žepče. Preduzeće Prograd Holz d.o.o. Žepče ima dugogodišnju tradiciju i iskustvo u proizvodnji drvene i drvo-aluminij stolarije vrhunske kvalitete, što potvrđuje dobiveni Certifikat ISO 9001:2015 od strane poznate europske kuće za certifikaciju TÜV NORD Group. Isto tako, svi naši proizvodi iz asortimana drvene stolarije atestirani su od strane Mašinskog fakulteta u Sarajevu, preduzeća za certificiranje i testiranje Euroinspekt-drvokontrola d.o.o. Zagreb i prestižnog italijanskog Instituta za certificiranje i testiranje CSI S.p.A. - V.le Lombardia 20 - 20021 Bollate (MILANO) ITALY. Prema testovima koji su vršeni u spomenutim certifikacijskim preduzećima, a koji se odnose na vodopropusnost, vjetropropusnost, kvalitetu, vrsti i vlažnosti drveta, kvalitetu izrade i obrade, uštedi toplotne energije, te zvučnoj izolaciji, drvena i drvo-aluminij stolarija proizvedena u pogonima preduzeća Prograd Holz d.o.o. Žepče, svrstana je u sami vrh europske ali i svjetske drvene i drvo-aluminij stolarije, koja zadovoljava sve standarde i norme Europske unije. Prograd Holz d.o.o. Žepče posjeduje i certifikat za označavanje svojih proizvoda CE znakom, što znači da su svi naši proizvodi uspješno prošli proceduru za dobijane CE znaka, tj. da su zadovoljili sigurnosne zahtjeve za zaštitu života i zdravlja ljudi i životinja, zaštitu okoline i imovine. Preduzeće Prograd Holz d.o.o. Žepče je društveno i ekološki osvješćeno preduzeće, a dokaz tome je dobiveni FSC certifikat za označavanje svojih proizvoda. Vodeći se odredbama tog certifikata, naše preduzeće koristi prirodna bogatstva u skladu sa strogim ekološkim, socijalnim i ekonomskim standardima upravljanja šumskim resursima. Unazad tri godine, prateći svjetske trendove, kako bi smo poboljšali već odlične karakteristike naše drvene i drvo-aluminij stolarije, te proširili našu ponudu, počeli smo sa proizvodnjom drvo-aluminij stolarije sa termoizolacijom "Termo exclusive" i PVC stolarije. Takođe, dugi niz godina Prograd Holz d.o.o. bavi se proizvodnjom namještaja i kuhinja od masiva, svih vrsta pločastog materijala i iverala obloženog furnirom.

Tokom proteklih godina neprestano smo usavršavali tehnologiju izrade drvene stolarije, a sve u cilju zadovoljenja sofisticiranih potreba naših kupaca. Prograd Holz d.o.o. Žepče posjeduje vlastiti, savremeno i moderno opremljen, proizvodni pogon za proizvodnju drvene stolarije, namještaja, kuhinja, i ostalih proizvoda od drveta, koji se prostire na više od 7000 m<sup>2</sup>. Značajan dio svoje proizvodnje Prograd Holz d.o.o. Žepče plasira na tržište europskih zemalja, kao što su Italija, Njemačka, Austrija, Slovenija, Holandija, Hrvatska, Švicarska, Crna Gora, i ostale zemlje Europe.



# About us

Company for production, sale and services, Prograd Holz d.o.o. Žepče, has been having business operations independently since 2015. Earlier, as side activity, it carried out its production activities within the construction company Prograd d.o.o. Žepče. Company Prograd Holz d.o.o. Žepče has many years of tradition and experience in the production of top quality wood and wood-aluminum joinery, which is confirmed by obtained Certificate ISO 9001:2015 from well-known European certification house TÜV NORD Group. Also, all of our products from wood joinery assortment have been attested by Faculty of Mechanical Engineering in Sarajevo, certification and testing company Euroinspekt-drvokontrola d.o.o. Zagreb and prestigious Italian Certification and Testing Institute CSI S.p.A. - V.le Lombardia 20 - 20021 Bollate (MILANO) ITALY. According to tests, which were performed in the mentioned certification companies, and which are related to water permeability, wind proofing, quality, type and humidity of wood, quality of manufacturing and processing, saving of heating energy, as well as sound isolation, the wood and wood-aluminum joinery manufactured in the plants of company Prograd Holz d.o.o. Žepče, has been classified as the very top European, but also world wood and wood-aluminum joinery, which meets the European standards and norms. Prograd Holz d.o.o. Žepče has also certificate for marking of its products with CE sign, which means that all of our products have successfully passed procedure for CE sign acquirement, i.e. that they have met safety requirements for protection of life and health of people and animals, protection of environment and property. Company Prograd Holz d.o.o. Žepče is socially- and eco-friendly company, and the proof for that is the obtained FSC certificate for marking of its products. Led by provisions of that certificate, our company uses nature resources in accordance with strict ecological, social and economical standards of forest resources management. For three recent years, while following world trends, in order to improve already excellent characteristics of our wood and wood-aluminum joinery, we have widened our offer, and we started to manufacture wood-aluminum joinery with thermal isolation "Termo exclusive" and PVC joinery. Also, for a long series of years, Prograd Holz d.o.o. has been engaged in manufacturing of furniture and kitchens of solid wood, all types of laminated materials and refined chipboard covered with veneer.

During previous years, we constantly perfected technology of wood joinery making, and all this in order to satisfy sophisticated needs of our customers. Prograd Holz d.o.o. Žepče has its own, contemporarily and modernly equipped manufacturing plant for manufacture of wood joinery, furniture, kitchens and other products made of wood, and it covers more than 7000 m<sup>2</sup>. Prograd Holz d.o.o. Žepče places a significant part of its production on the market of European countries such as Italy, Germany, Austria, Slovenia, Holland, Croatia, Switzerland, Montenegro and other European countries.



# PROZORI I BALKONSKA VRATA - DRVENI PROGRAM

U izradi PROGRAD HOLZ prozora, balkonskih vrata, kliznih stijena koristimo:

- ljepljene lamelirane profile za prozore izrađene od prvoklasne rezane građe – jela/smreka, bor, ariš, hrast, meranti, mahagoni sapelli;
- debljinski presjeci 68mm, 78mm i 92mm;
- najkvalitetnija izo-stakla za prozore ( $U_g=0,5-1,1W/m^2K$ ;  $R_w=30-42dB$ ) različitih debljina 24mm, 32mm, 36mm, 44mm. Dvoslojna i troslojna izo-stakla za prozore ispunjena plinom (Argon ili Krypton), izrađena od različitih vrsta stakala i različitih kombinacija (lamelirana, kaljena, stopsol, ornament, satinirana, pjeskarena, i dr.);
- okovi za prozore, balkonska i ulazna vrata, klizna balkonska vrata, renomiranih svijetskih proizvođača – skriveni i vidljivi (G-U, Rotto, Siegenia, Maco);
- četiri različita dihtunga i alu-okapnice, i veliki izbor poluoliva renomiranih svijetskih proizvođača;
- višestruka impregnacijska zaštita, svi proizvodi lakirani dva puta visokokvalitetnim vodenim eko lakovima

## WINDOWS AND BALCONY DOORS - WOOD PROGRAM

In the production of PROGRAD HOLZ windows, balcony doors, sliding doors we use:

- Glued laminated profiles for windows made of first class sawn lumber – fir/spruce, pine, larch, oak, meranti, sapelli mahogany;
- Diameter sections: 68mm, 78mm and 92mm;
- The highest quality insulation glass for windows ( $U_g=0,5-1,1W/m^2K$ ;  $R_w=30-42dB$ ) of various thickness: 24mm, 32mm, 36mm, 44mm. Double and triple insulation glass, for windows, filled with gas (argon or krypton), made of various types of glass and different combinations (laminated, tempered, colored, ornament, satin finish, sandblasted glass etc.);
- Fittings for windows, balcony and entrance doors, sliding balcony doors, of renowned world producers – hidden and visible (G-U, Rotto, Siegenia, Maco);
- Four different seals and alu-dripping, and a large selection of window handles of renowned world producers;
- Multiple impregnation protection, all products are varnished twice with high quality water eco varnishes (SIGMA German varnishes and HELIOS-BELINKA Slovenian varnishes) and painted as per color chart of Prograd according to customer's choice;





### Program drvo 68

Uf	1,4 W/m <sup>2</sup> K
Ug	1,1 W/m <sup>2</sup> K
Uw	1,5 W/m <sup>2</sup> K



### Program drvo 78

Uf	1,3 W/m <sup>2</sup> K
Ug	0,7 W/m <sup>2</sup> K
Uw	1,2 W/m <sup>2</sup> K



### Program drvo 92

Uf	1,1 W/m <sup>2</sup> K
Ug	0,6 W/m <sup>2</sup> K
Uw	0,99 W/m <sup>2</sup> K



# Prozori i balkonska vrata - program drvo-aluminij

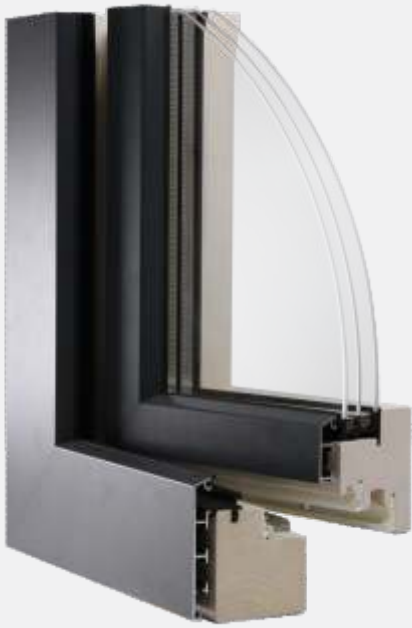
## EXCLUSIVE

Prozori i balkonska vrata izrađeni u kombinaciji drvo-aluminij pomirio je dva svijeta, unutrašnji i vanjski svijet prozora. Izrađen je na taj način da je unutrašnja strana prozora od drveta, a vanjska od aluminija, te na taj način omogućava da takav konstruktivni element u potpunosti bude s vanjske strane funkcionalan, lako održavan, i za klimatske utjecaje nedodirljiv, a da istovremeno u unutrašnjosti prostorije pruža osjećaj topline i sazvučja sa ostalim dijelovima prostorije. Iz svog proizvodnog asortimana izdvajamo PROGRAD HOLZ drvene prozore i balkonska vrata i balkonska klizna vrata obložene aluminijskim profilima renomiranih italijanskih proizvođača UNIFORM i OLIMPIA.

## Windows and balcony doors - wood-aluminum Exclusive program

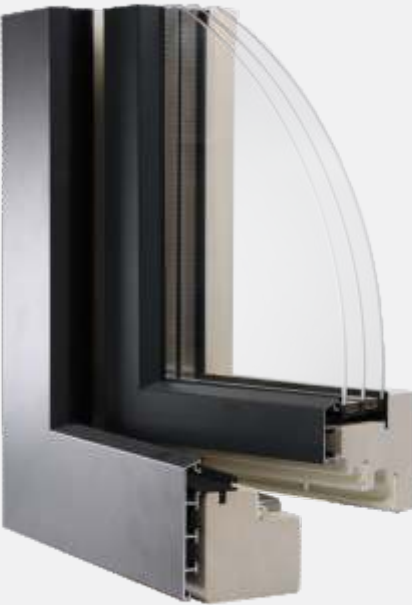
Windows and balcony doors made in wood-aluminum combination have reconciled two worlds, internal and external world of windows. It is made so that the internal side of windows is made of wood, while the external side is made of aluminum, and in such a way that the structural element is fully functional from external side, is easily maintained, and untouchable in relation to climatic impacts, and at the same time, in the interior of the room it provides a feeling of warmth and harmony with other parts of room. From the production assortment, we mention wooden windows PROGRAD HOLZ, as well as balcony doors and balcony sliding doors coated with aluminum profiles of renowned Italian manufacturers UNIFORM and OLIMPIA.





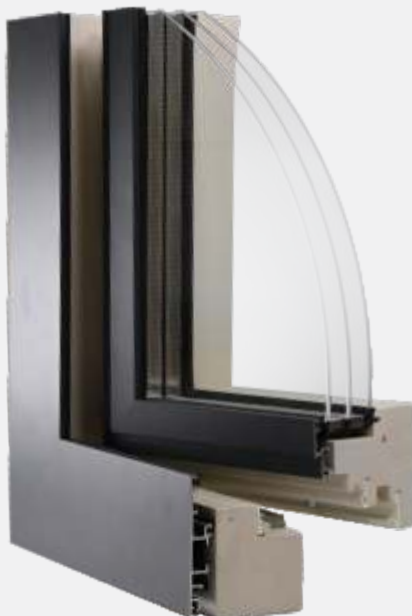
### Exclusive 68 Line

Uf	1,2 W/m <sup>2</sup> K
Ug	0,7 W/m <sup>2</sup> K
Uw	1,1 W/m <sup>2</sup> K



### Exclusive 78 Line

Uf	1,0 W/m <sup>2</sup> K
Ug	0,6 W/m <sup>2</sup> K
Uw	0,98 W/m <sup>2</sup> K



### Exclusive 68 Flat

Uf	1,2 W/m <sup>2</sup> K
Ug	0,7 W/m <sup>2</sup> K
Uw	1,1 W/m <sup>2</sup> K

## Prozori i balkonska vrata - program drvo-aluminij TERMO EXCLUSIVE

Prozori i balkonska vrata Termo Exclusive izrađeni su u kombinaciji drvo-termoizolacija-aluminij. Ovi prozori zadržali su sve prednosti drvo-aluminij prozora s tim da imaju prednost više, a ta prednost se prvenstveno ogleda u povećanju toplotne efikasnosti

prozora, koji svojom konstrukcijom učinkovito ispunjava sve vaše zahtjeve za snižavanjem potrošnje energije u objektu, a krasi ga izuzetan dizajn i vrhunska izvedba. S obzirom da ovi prozori postižu  $U_w$  koeficijent ispod  $0,8 \text{ W/m}^2\text{K}$  čini ga izuzetno pogodnim za pasivne kuće koje se odlikuju velikim stepenom uštede energije i postizanja najbolje

### Windows and balcony doors - wood-aluminum T H E R M A L E X C L U S I V E program

Thermal Exclusive windows and balcony doors are in combination wood-thermal insulation-aluminum. These windows have kept all the advantages of wood-aluminum windows and they have even one more advantage, it is the advantage that is primarily reflected in window's thermal efficiency

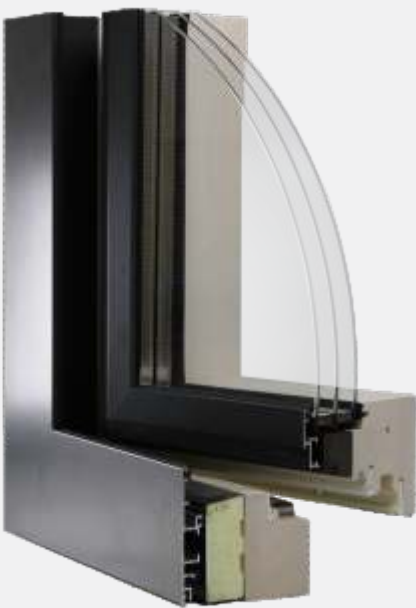
increase, and by its construction, the window meets all of your requirements for energy consumption decrease, and it is characterized by exceptional design and top performance. Considering that these windows achieve  $U_w$  coefficient below  $0,8 \text{ W/m}^2\text{K}$ , this makes it exceptionally suitable for passive houses which are characterized by a high degree of energy saving and achieving the best possible utilization of available energy.





### TermoExclusive Line

Uf	0,9 W/m <sup>2</sup> K
Ug	0,5 W/m <sup>2</sup> K
Uw	0,8 W/m <sup>2</sup> K



### TermoExclusive Flat

Uf	0,9 W/m <sup>2</sup> K
Ug	0,5 W/m <sup>2</sup> K
Uw	0,8 W/m <sup>2</sup> K

## Prozori i balkonska vrata - program PVC SALAMANDER

U proizvodnji pvc prozora koristimo pvc profile njemačkog proizvođača Salamander, koji je jedan od svjetskih lidera na tržištu pvc stolarije.

U proizvodnji prozora koristimo sljedeće četiri linije PVC profila i to: petokomorni profili Streamline 76AD i Streamline 76MD i šestokomorne profile BluEvolution 82AD i BluEvolution 82MD.

Salamander prozori ujedanjuju vrhunsku tehnologiju s modernim, funkcionalnim dizajnom u novoj generaciji vrhunskih pvc prozora.

### Windows and balcony doors - PVC program SALAMANDER

In the production of PVC windows we use PVC profile of German manufacturer SALAMANDER, which is one of the world leaders in the market of PVC.

In the window production we use the following four lines of PVC profiles: Streamline 76AD, 5-chamber profile, Streamline 76MD, bluEvolution 82AD, 6-chamber profile and bluEvolution 82MD

SALAMANDER windows combine excellent technology with a modern, functional design in a new generation of high-quality PVC windows.





### Streamline 76AD

Uf	1,3 W/m <sup>2</sup> K
Ug	0,7 W/m <sup>2</sup> K
Uw	1,3 W/m <sup>2</sup> K



### Streamline 76MD

Uf	1,2 W/m <sup>2</sup> K
Ug	0,7 W/m <sup>2</sup> K
Uw	1,0 W/m <sup>2</sup> K



### BluEvolution 82AD

Uf	1,1 W/m <sup>2</sup> K
Ug	0,5 W/m <sup>2</sup> K
Uw	0,99 W/m <sup>2</sup> K



### BluEvolution 82MD

Uf	0,99 W/m <sup>2</sup> K
Ug	0,5 W/m <sup>2</sup> K
Uw	0,77 W/m <sup>2</sup> K

## Klizna balkonska vrata

## Sliding balcony doors

HS - podizno klizna  
HS-lift-sliding balcony doors



PSK - odklopno klizna  
PSK-tilt-sliding balcony doors



Harmo **klizna**  
Folding-sliding balcony door



## Grilje, kapci, aluminijske roletne i komarnici

Grilje (škure), kapci dodatno uljepšavaju i dočaravaju vanjski vizuelni identitet objekta i omogućuju dodatnu zaštitu od provala i nepovoljnih vremenskih prilika. Izrađuju se od visokokvalitetne drvene građe jela/smreka, zaštićene završnim premazima i opremljene odgovarajućim okovima. Grilje (škure) izrađuju se sa fiksnim ili pokretnim lamelama. Iz našeg proizvodnog asortimana izdvajamo i izradu prozora i balkonskih vrata sa aluminijskim roletnama različitih tipova, boja i dezena.

## Shutters, covers, aluminum roller shutters, roller screens (against insects) and pleated sliding screens (against insects)

Shutters with movable lamellas, shutters with fixed lamellas, shutters with timber infill, shutters filled with marine plywood, aluminum roller shutters in different colors and of different types, with and without integrated screen for insects, roller screens and pleated sliding screens.

Shutters additionally enhance and evoke external visual identity of facility and make possible additional protection against break-ins and unfavorable weather conditions. They are made of high quality timber fir/spruce, and are protected with final coatings and equipped with corresponding fittings. Shutters are made with fixed and movable lamellas.

From our production assortment, we mention also the production of windows and





## ULAZNA VRATA

Ulazna vrata proizvedena u pogonima preduzeća Prograd Holz d.o.o. Žepče su dizajnom i veličinom u potpunosti prilagođena Vašoj kući. Pored toga što poboljšavaju vizuelni identitet Vaše kuće i što svojim elegantnim dizajnom privlače poglede prolaznika i Vašim gostima daju osjećaj dobrodošlice, Prograd Holz ulazna vrata svojom snažnom i trajnom konstrukcijom daju sigurnost Vama i Vašoj imovini.

## ENTRANCE DOORS

The entrance doors which are produced in the plants of company Prograd Holz d.o.o. Žepče are completely adapted, by their design and type, to your home. In addition to improving the visual identity of your home, and the fact that their elegant design attracts the looks of passersby, and that they give your guests the feeling of being welcome, Prograd Holz entrance doors, by their strong and durable construction, give safety to you and your property.



Mahal



Imperial



Maitea





Armara



UMV 01



UMV 02



UMV 03



UMV 04



UMV 05



# Ulazna vrata



UMV 06



UMV 07



UMV 08



UMV 09



UMV 10



UMV 11



# Entrance doors



UMV 12



UMV 13



UMV 14



UMV 15

## UNUTRAŠNJA VRATA

Nudimo Vam jedinstvenu kolekciju unutrašnjih vrata vrhunskog dizajna i besprijekorne izvedbe, koja će dodatno uljepšati Vaš životni prostor i učiniti Vam život ljepšim i toplijim. Iz našeg proizvodnog asortimana izdvajamo sljedeće vrste unutrašnjih vrata, a u svakoj vrsti nudimo veliki broj različitih modela:

### INTERNAL DOORS

We offer you a unique collection of internal doors of superior design and flawless performance, which will additionally make your living space and your life nicer and warmer. From our product assortment, we mention the following types of internal doors, and for every type we offer a large number of different models:

#### MASSIV - masivna unutrašnja vrata

Krila i štok MASSIV unutrašnjih vrata izrađena su od punog drveta prvoklasne rezane građe sušene na 8-12% vlažnosti od različitih vrsta drveta jela/smreka, hrast, ariš, meranti, bor. Krila ovog tipa unutrašnjih vrata se izrađuju kao falcovana i nefalcovana.

#### MASSIVE - solid internal doors

Leaves and frame of MASSIVE internal doors are made of solid wood i.e. first-class sawn timber at 8-12% of humidity of various types of wood: fir/spruce, oak, larch, meranti, pine. The leaves of this type of internal doors are made as edgebanded and non-edgebanded.



MSV OI





MSV 02



MSV 03



MSV 04



MSV 05



MSV 06



MSV 08





MSV 01H



MSV 09



MSV 12



## VENEER - furnirana unutrašnja vrata

Konstruktivni dio krila VENEER sobnih vrata izrađen je od J/S građe sa ispunom od impregniranog kartonskog saća ili perforirane iverice, obostrano obložena panelima medijapana obloženih prirodnim furnirom hrast, bukva, javor, jasen, mahagoni, trešnja, orah i druge vrste furnira, takođe su moguće kombinacije prirodnog furnira u različitim izvedbama sve po želji i potrebi naših kupaca. Krila ovog tipa unutrašnjih vrata se izrađuju kao falcovana

## VENEER - veneered internal doors

The structural part of leaves of VENEER interior door is made of fir/spruce timber with filling of impregnated cardboard honeycomb or perforated chipboard, both sides coated with MDF panels covered with natural veneer of oak, beech, maple, ash, mahogany, cherry, walnut and other types of veneer, in different makes, all this according to wishes and needs of our customers. The leaves of this type of internal doors are made as edgebanded and non-edgebanded.



FSV 01



FSV 02



FSV 03



FSV 04





FSV 05



FSV 06



FSV 07



FSV 08



FSV 09



FSV 10





FSV 11



FSV 12



FSV 13



FSV 14



FSV 15



FSV 16





FSV 17



FSV 18



FSV 19



FSV 20



FSV 21



FSV 22





FSV 23



FSV 24



FSV 25



FSV 25-1



FSV 26



FSV 27

## CRAFA unutrašnja vrata

Konstruktivni dio krila CRAFA unutrašnjih vrata izrađen je od od J/S rezane građe sa ispunom od impregniranog kartonskog saća, obostrano obložen gotovim panelima „Craft-Master“ različitih dekora. Krila vrata mogu biti falcovana ili nefalcovana.

## CRAFA internal doors

The structural part of leaves of CRAFA internal doors is made of fir/spruce sawn timber with impregnated cardboard honeycomb filling, on both sides covered with ready-made panels "Craft-Master" of different patterns. The door leaves may be edgebanded or non-edgebanded.



CMSV 01



CMSV 02



CMSV 03



CMSV 05



CMSV 06



CMSV 07



## CLASSIC PANEL unutrašnja vrata

Konstruktivni dio krila CLASSIC sobnih vrata izrađen je od J/S rezane građe sa ispunom od impregniranog kartonskog saća ili perforirane iverice, a koji može biti obložen na tri načina:

- laminatnim MDF pločama d=4mm različitih dekora (trešnja, orah, bijelo, hrast, wenghe, mahagoni), ili
- sirovim MDF pločama d=4mm obloženim melamin folijama različitih boja i dekora.

## CLASSIC PANEL internal doors

The structural part of leaves of CLASSIC interior doors is made of fir/spruce sawn timber with filling of impregnated cardboard honeycomb or perforated chipboard, and which may be covered in three ways:

- Laminated MDF panels THK=4mm of different patterns (cherry, walnut, white oak, wenghe, mahogany)
- Raw MDF panels - THK d=4mm covered with melamine films of different colors and



CPSV 01



CPSV 02



CPSV 03



CPSV 04



CPSV 05



CPSV 06

## CLASSIC COLOR unutrašnja vrata

Konstruktivni dio krila CLASSIC sobnih vrata izrađen je od J/S rezane građe sa ispunom od impregniranog kartonskog saća ili perforirane iverice, obložen sirovim MDF pločama d=4mm lakiranih i obojenih prema RAL karti po Vašem izboru kupca.

Krila ovog tipa unutrašnjih vrata se izrađuju kao falcovana ili nefalcovana.



CCSV 01



CCSV 02



CCSV 03



CCSV 04



CCSV 05



CCSV 06



## CLASSIC COLOR internal doors

The structural part of leaves of CLASSIC internal doors is made of fir/spruce sawn timber with filling of impregnated cardboard honeycomb or perforated chipboard, covered with raw MDF panels THK = 4mm, varnished and painted as per RAL chart according to your choice of customers. The leaves of this type of internal doors are made as edgebanded or non-edgebanded.



CCSV 08



CCSV 09



CCSV 09-1



CCSV 09-2



CCSV 09-3



CCSV 09-4



## **PRATICA - preklopna unutrašnja vrata**

Svi tipovi vrata se mogu praviti kao PRATICA unutrašnja vrata, koja su izuzetno pogodna i praktična za prostorije u kojima nema dovoljno prostora za otvaranja normalnih krila vrata.

## **PRATICA - folding internal doors**

All types of doors may be made as PRATICA internal doors, which are exceptionally suitable and practical for rooms that do not have enough space for opening of normal door leaves.



PSV OI

## **SLIDE - klizna unutrašnja vrata**

Sve tipove sobnih vrata nudimo i u kliznoj

## **SLIDE - sliding internal doors**

We offer all types of interior doors also in





Krilo vrata sa papirnatim saćem  
The door panel filled with honeycombed cardoard



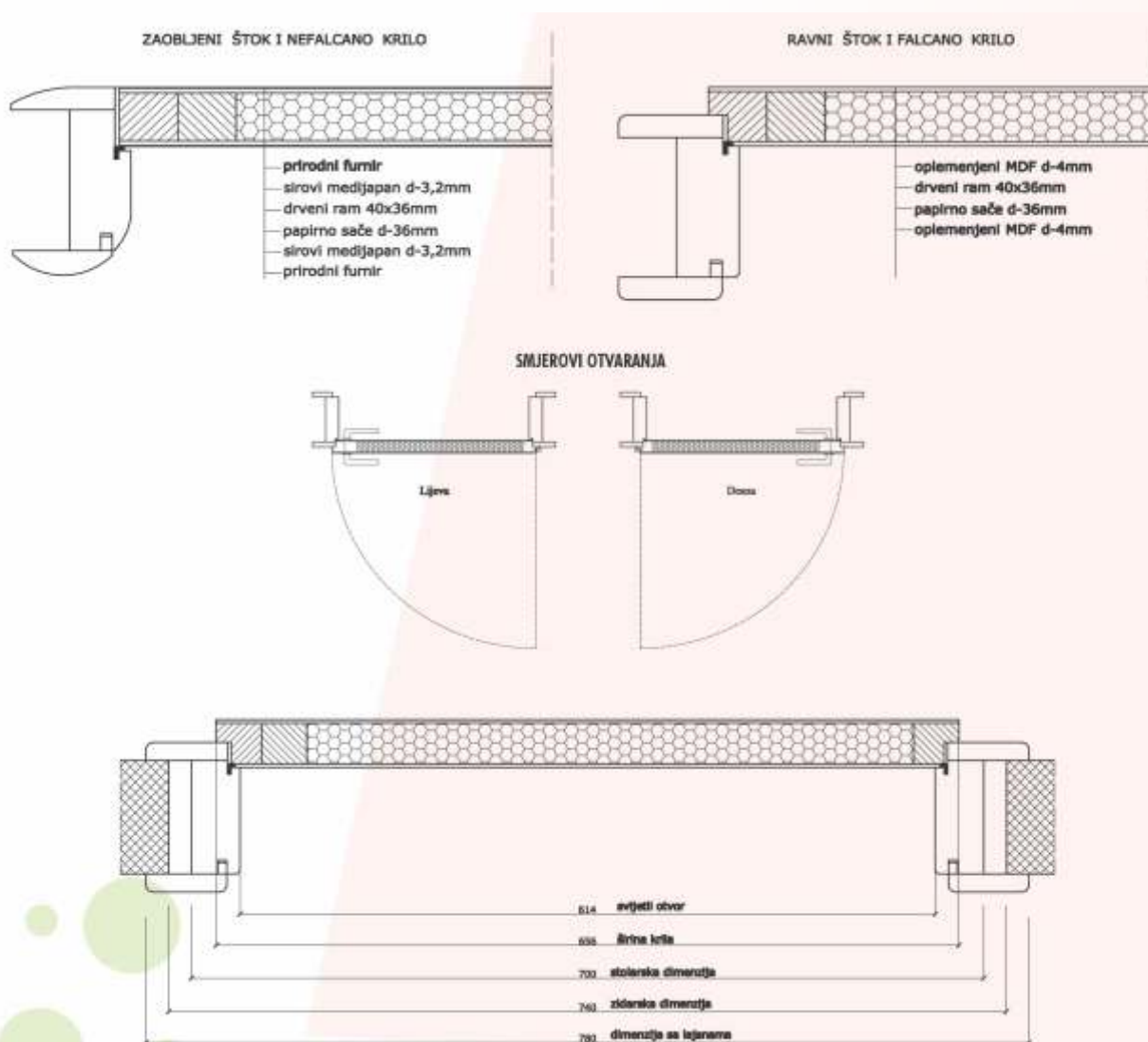
Krilo vrata sa punom ivericom  
The door panel filled with plain chipboard



Krilo vrata sa perforiranom ivericom  
The door panel filled with perforated chipboard

Sva vrata su obrađena na vrhunskim CNC mašinama lakirana dva puta, premazana višestrukom impregnacijskom zaštitom, obojena prema RAL karti, sa vidljivim i skrivenim spojnica, te raznim modelima šteka renomiranih svjetskih proizvođača. Takođe svi tipovi unutrašnjih vrata dostupni su u polustaklenoj izvedbi i sa nadsvjetlom. Pored krila vrata sa ispunom od impregniranog kartonskoh saća, nudimo i krila vrata sa ispunom od perforirane iverice i pune iverice.

All the doors are processed on top CNC machines and varnished twice, coated with multiple impregnation protection, painted according to RAL chart, with visible and hidden joints, and different models of handles of renowned world producers. Also, all types of internal doors are available in semi-.glass design and with top light. In addition to door leaves with filling of impregnated cardboard honeycomb, we offer also door leaves with filling of perforated chipboard and solid chipboard.



# NAMJEŠTAJ

Prograd d.o.o. Žepče bavi se proizvodnjom namještaja od punog drveta vrhunske kvalitete lakiranog i bojenog prema ton karti Prograd i pločastih materijala prema Vašem izboru. Sve vrste elemenata namještaja kao i gotove elemente pravimo prema Vašoj želji i mjeri. Pored navedenih materijala, namještaj proizvodimo i od pločastih materijala svestrano obloženih prirodnim furnirom (hrast, bukva, jasen, javor, trešnja, orah, mahagoni) prema Vašem izboru.

## FURNITURE - solid and panel custom-made furniture,

Prograd d.o.o. Žepče deals with furniture production made of solid wood which is of top quality, varnished and painted according to color chart of Prograd and panel materials according to your choice. We make all kinds of furniture elements, as well as ready-made elements according to your preferences and measurements.

In addition to the mentioned materials, we produce furniture also of panel materials that are covered on all sides with natural veneer (oak, beech, ash, maple, cherry, walnut, and





## KUHINJE

Kuhinje kao i namještaj izrađujemo od punog drveta vrhunske kvalitete (bukva, hrast, meranti i dr.) lakiranog i bojenog prema ton karti Prograd, lakiranih medijapan ploča visokog sjaja u bojama prema RAL karti i pločastih materijala svestrano obloženih prirodnim furnirom (hrast, bukva, jasen, javor, trešnja, orah, mahagoni) prema Vašem izboru.

## KITCHENS - Kitchens tailored and made upon customer's request

We make kitchens and furniture of solid wood of top quality (beech, oak, meranti etc.), which is varnished and painted according to color chart of Prograd, varnished MDF boards of high gloss and in colors as per RAL chart and panel materials that are covered on all sides with





## DRVO

Drvo predstavlja najstariji građevni materijal. To je jedinstven i cijenjen materijal koji se koristi u proizvodnji najrazličitih predmeta počevši od najjednostavnih proizvoda pa do veoma zahtjevnih drvenih konstrukcija. Drvo je prirodan materijal koji raste uz pomoć sunčeve energije, zraka, vode i zemlje i dostupan je u velikim količinama. Ono ima sposobnost dugoročnog pohranjivanja ugljika, jer tokom svog rasta iz atmosfere uzima ugljični dioksid ( $\text{CO}_2$ ) a iz vode u tlu hranjive sastojke i na taj način izrađuje organski materijal drvo. Procesom fotosinteze drvo razlaže ugljendioksid na ugljik i kisik, kisik se oslobađa u okolinu, a ugljik ostaje vezan za drvo tokom cijelog životnog vijeka drveta i služi za organski rast stabla. Udio ugljika u nastaloj drvenoj masi iznosi oko 50%. Drvo je obnovljiv resurs koji se prerađuje, često u malim ali i u visoko specijaliziranim pogonima, može se u potpunosti reciklirati, a kao građevinski materijal daje značajan doprinos u borbi protiv klimatskih promjena. Prema svemu navedenom možemo zaključiti da je drvo ekološki najprihvatljiviji materijal za proizvodnju raznoraznih proizvoda.

Izuzetno je važno spomenuti da drvo kao prirodni materijal nema negativnih uticaja na ljudsko zdravlje. Drvo je živo i utiče na sva čula. Ugodno miriše, toplo je, može se čuti kada se pomjera, higijensko je, antistatično, apsorbuje štetne materije, robusno je i osigurava dobru akustičnost prostora. Drvo je materijal koji „diše“ odnosno to je hidroskopan materijal što znači da reguliše vlažnost zraka (tako što apsorbuje višak vlage iz zraka ili ga prirodno navlažuje kada je presuh) i na taj način omogućuje ugodnu i ravnomjernu mikroklimu unutar zatvorenog prostora.

Drvo je dobar zvučni i toplotni izolator, izdržljiv i trajan materijal, a uz to jeftiniji nego bilo koji drugi.

Drvo kao građevinski materijal otporno je na brojne agresivne agente i jedini je materijal koji gorenjem ne mijenja bitno svoja mehanička svojstva. Ekspertnim analizama utvrđeno je da se drvo u uslovima požarnog opterećenja, ponaša bolje nego ostali materijali. Brzina gorenja drveta iznosi od 0,4 – 0,8 mm/min. Pored prirodnog mehanizma za odbranu od požara, formiranjem sloja gareži po obimu presjeka koji sprečava dalji dotok kisika za razvoj plamena u unutrašnjost drveta i čini drvo praktično samogasivim, ukoliko se plamen ne dovodi negdje sa strane, zaštita drveta od požara se vrši i jednostavnim premazivanjem zaštitnim protupožarnim premazima koji još povećavaju njegovu otpornost na vatru.

I ono najbitnije, ljepotu koju pruža drvo ne može da zamjeni nijedan drugi materijal. Zato je drvo i najzastupljeniji materijal u proizvodnji drvene stolarije, namještaja i materijala za enterijer.



# WOOD

Wood is the oldest construction material. It is a unique and valued material used in the manufacture of the most various items starting from the simplest products to the highly demanding timber structures. Wood is a natural material that grows with the help of sun's energy, air, water and earth and it is available in large quantities. It has the capability of long-term carbon storage, because during its growth it takes, from the atmosphere, carbon dioxide (CO<sub>2</sub>) and it takes, from the water in the soil, nutrients and in such a way it produces organic material – wood. By the process of photosynthesis, the tree breaks down carbon dioxide to carbon and oxygen, the oxygen is released into the environment, while carbon remains tied to the tree during the lifetime of wood and it serves for organic growth of tree. The carbon content in the resulting wood mass is about 50%. Wood is renewable resource that is processed, often in small but also highly specialized plants, it may be completely recycled, and as construction material, it makes a significant contribution in the fight against climate changes. According to all of the above-mentioned, we may conclude that the wood is ecologically the most acceptable material for production of various products.

It is exceptionally important to mention that the wood as natural material has no negative impacts on human health. Wood is alive and influences all senses. It smells nice, it is warm, one may hear when it moves, it is hygienic, anti-static, it absorbs harmful substances, it is robust and provides good acoustic space. Wood is a material that "breathes" i.e. it is a hygroscopic material, which means that it regulates air humidity (by absorbing excess humidity from the air or it humidifies it naturally when the air is too dry) and in such a way, it allows pleasant and uniform microclimate in closed premises.

Wood is good acoustic and thermal insulation, it is durable material, and also cheaper than any other material.

Wood as construction material is resistant to many aggressive agents and it is the only material that, by burning, does not change importantly its mechanical properties. Expert analyses have established that the wood, in conditions of fire load, behaves better than other materials. Speed of wood burning is from 0,4 – 0,8 mm/min. Besides the natural mechanism of defense against fire, formation of a layer of soot on section prevents further supply of oxygen for the development of flames inside the wood and it makes a wood practically self-extinguishing, if the flame is not brought somewhere from the side, wood protection from fire is performed also by simple coating with fire protection coatings, which additionally increase its fire resistance.

And most importantly, the beauty provided by the wood cannot be substituted by any other material. Therefore, wood is the most represented material in production of wood joinery, furniture and materials for interior.





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