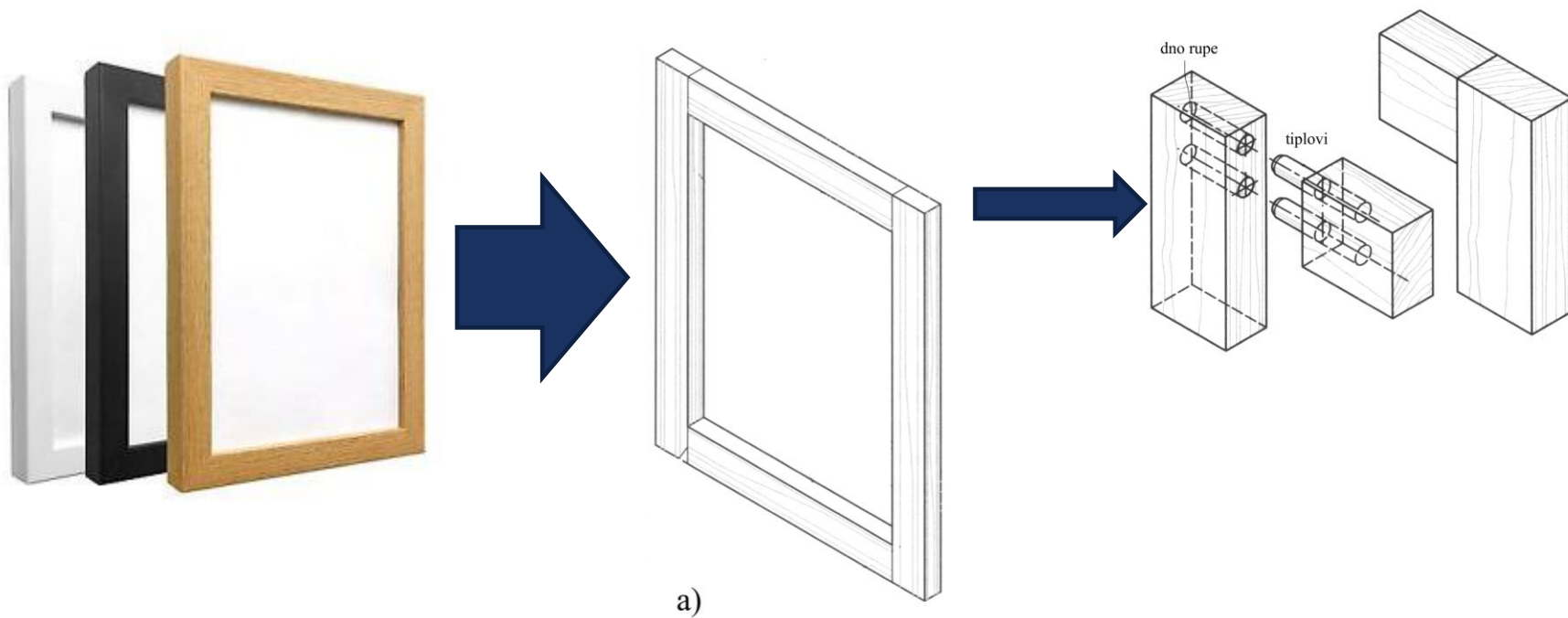
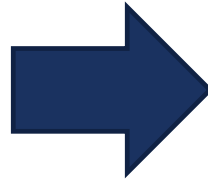


RAMOVSKI SPOJEVI



ŠTA JE RAM?





Mestu korišćenja
Nameni
Konstrukciji

Nameštaj
Građevinska stolarija
Drvena galanterija

PODELA PROIZVODI OD DRVETA PREMA KONSTRUKCIJI :

- Proizvodi rešetkaste – skeletne konstrukcije (prozori, stolice, kreveti, stolovi, vitrine, ormani)
- Proizvodi korpusne konstrukcije (ormani, plakari, vitrine)
- Proizvodi kombinovane konstrukcije (stolovi, kreveti, vitrine, ormani)
- Proizvodi pločaste konstrukcije (daske za meso, daske za povrće)

Svi navedeni proizvodi mogu biti fikni i montažno demontažni.

SISTEMI FORMIRANJA NAMEŠTAJA

ramova



ploča



kombinacija
ramova i ploča



BRF-1904

Mestu korišćenja
Nameni
Konstrukciji

Nameštaj
Građevinska stolarija
Drvena galanterija

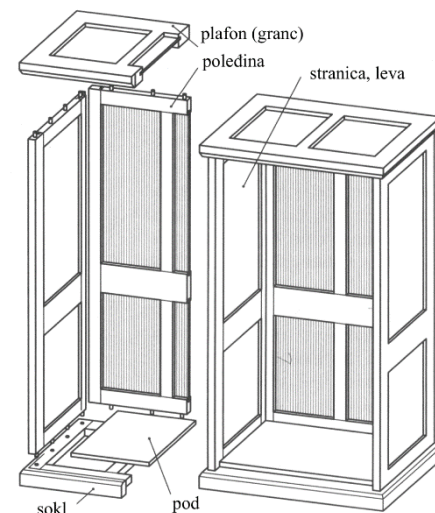
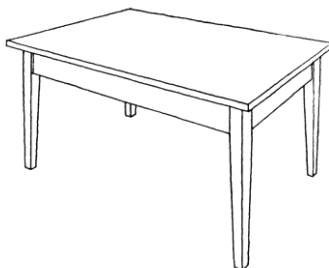
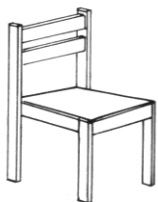
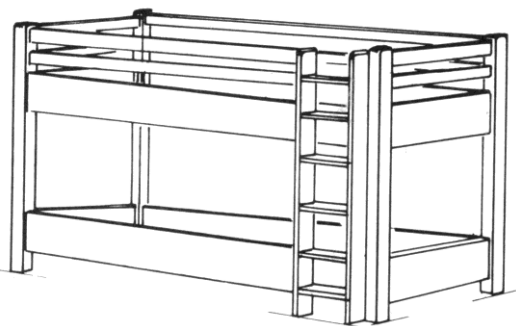
PODELA PROIZVODI OD DRVETA PREMA KONSTRUKCIJI :

- Proizvodi rešetkaste – skeletne konstrukcije (prozori, stolice, kreveti, stolovi, vitrine, ormani)
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Svi navedeni proizvodi mogu biti fikni i montažno demontažni.

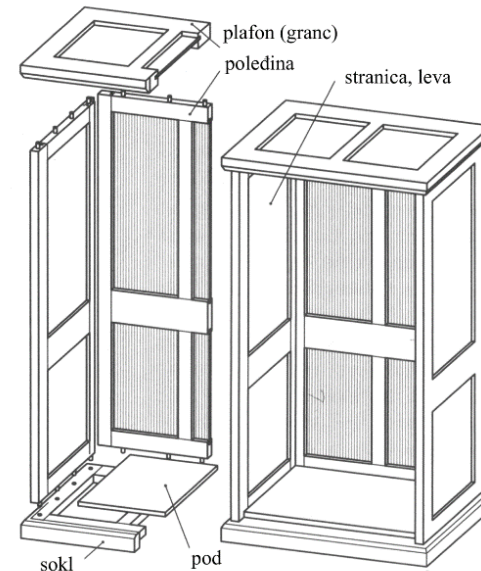
PODELA PROIZVODA PREMA KONSTRUKCIJI

- **Proizvodi rešetkaste – skeletne konstrukcije** (prozori, stolice, kreveti, stolovi, vitrine, ormani)
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PODELA PROIZVODA PREMA KONSTRUKCIJI

- Proizvodi rešetkaste – skeletne konstrukcije (prozori, stolice, kreveti, stolovi, **vitrine**, **ormani**)
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PODELA PROIZVODA PREMA KONSTRUKCIJI

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- **Proizvodi kombinovane konstrukcije** (stolovi, kreveti, vitrine, ormani)
- Proizvodi pločaste konstrukcije (daske za meso, daske za povrće)

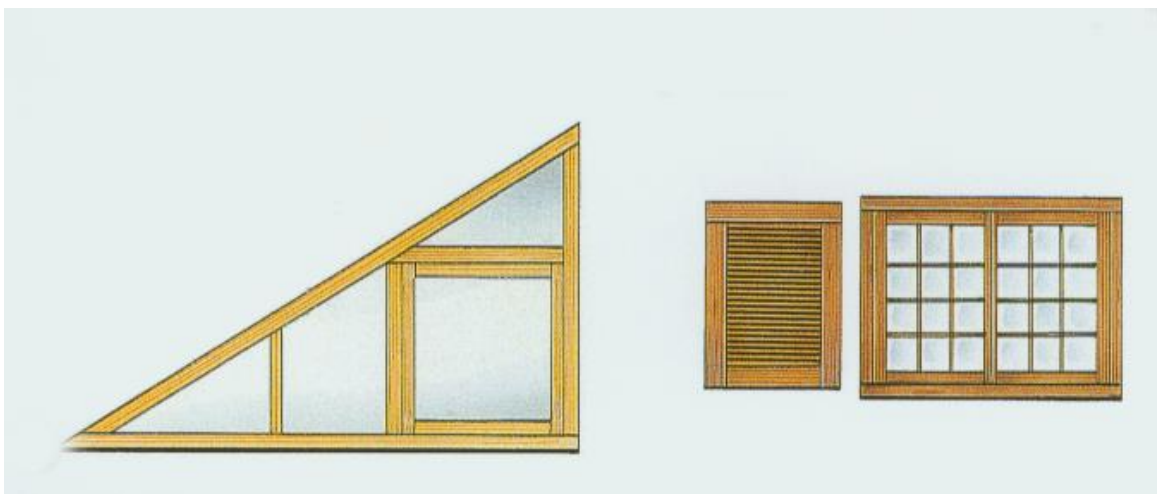


PODELA RAMOVSKIH SPOJEVA

- Prema obliku ramova
- Podela prema vidljivosti
- Podela prema načinu spajanja sljubnica
- Prema konstrukciji

OBLICI RAMOVA

- Prema obliku ramova
- Podela prema vidljivosti
- Podela prema načinu spajanja sljubnica
- Prema konstrukciji



- trouglasti
- **čtvorougao**ni
- višeu
- kružni
- ovalni

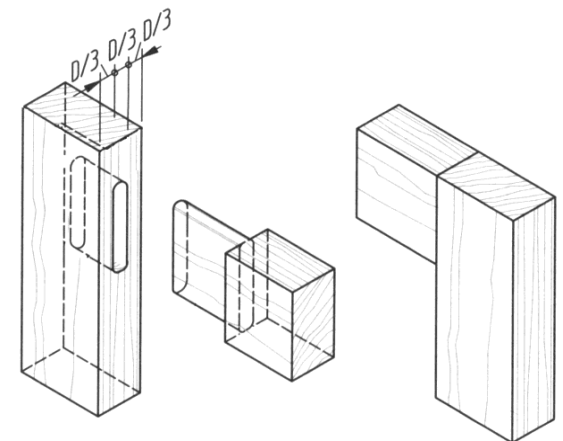
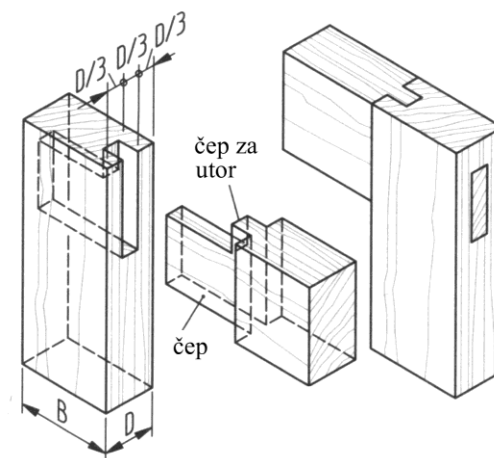
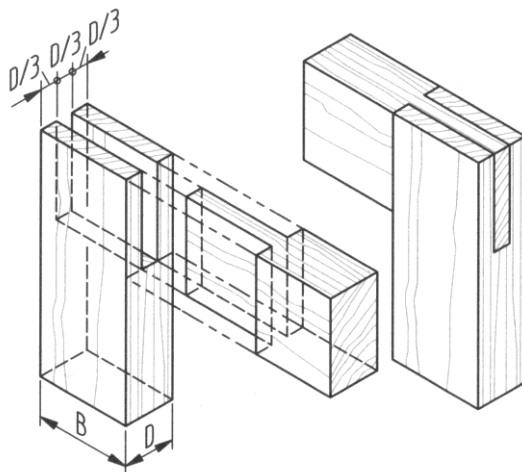
PODELA RAMOVSKIH SPOJEVA PREMA VIDLJIVOSTI

- Prema obliku ramova
- **Podela prema vidljivosti**
- Podela prema načinu spajanja sljubnica
- Prema konstrukciji

➤ vidljivi

➤ poluskriveni

➤ skriveni

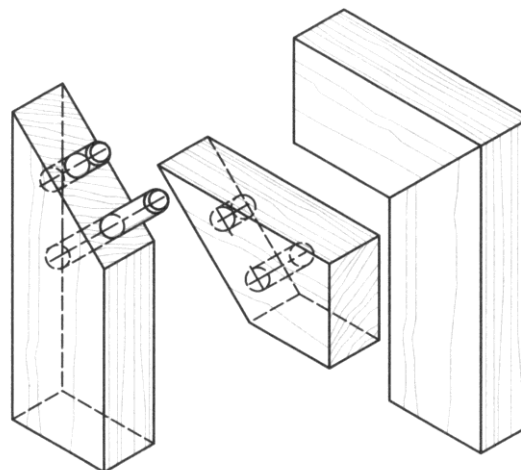
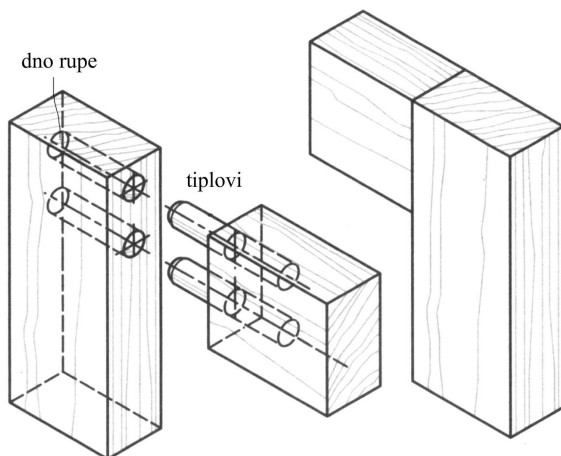


PODELA RAMOVSKIH SPOJEVA PREMA NAČINU SUDARA SLJUBNICA:

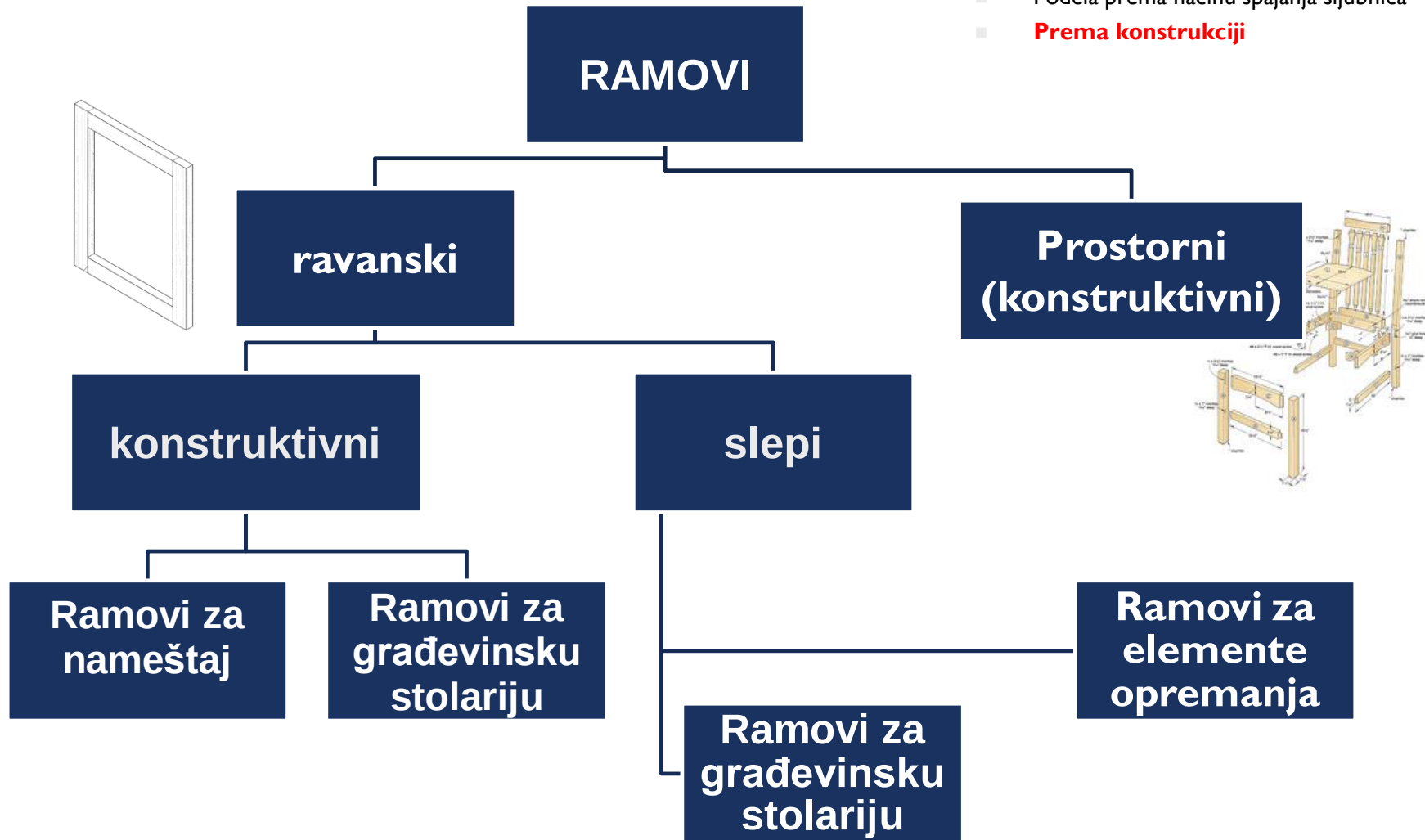
- Prema obliku ramova
- Podela prema vidljivosti
- **Podela prema načinu spajanja sljubnica**
- Prema konstrukciji

➤ Ravan sudar

➤ Kosi sudar

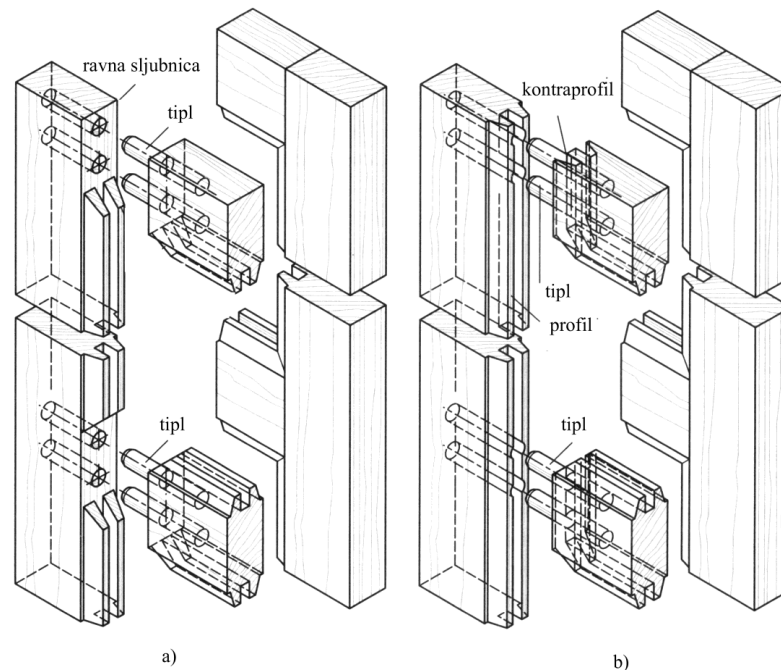
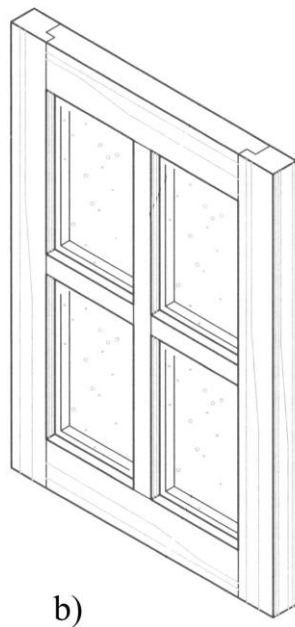
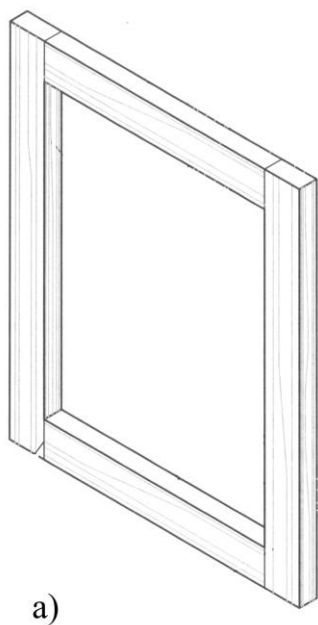


- Prema obliku ramova
- Podela prema vidljivosti
- Podela prema načinu spajanja sljubnica
- **Prema konstrukciji**



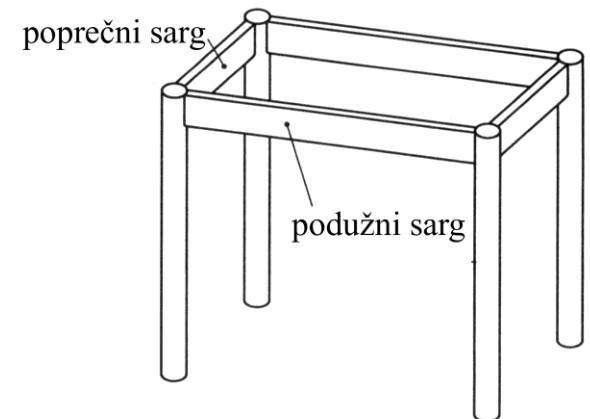
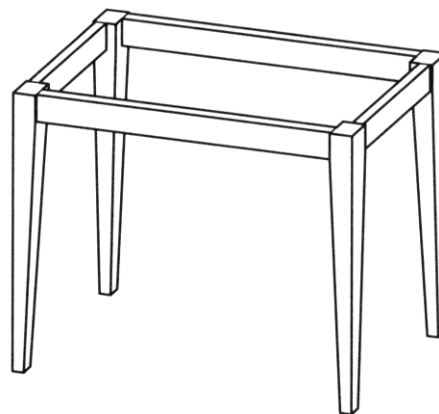
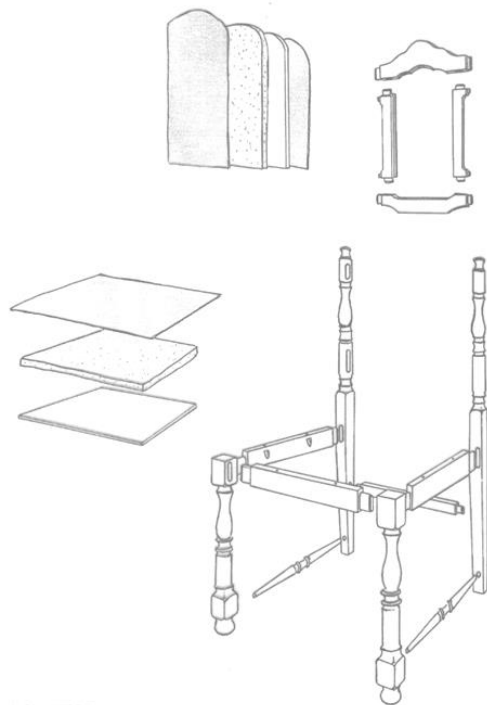
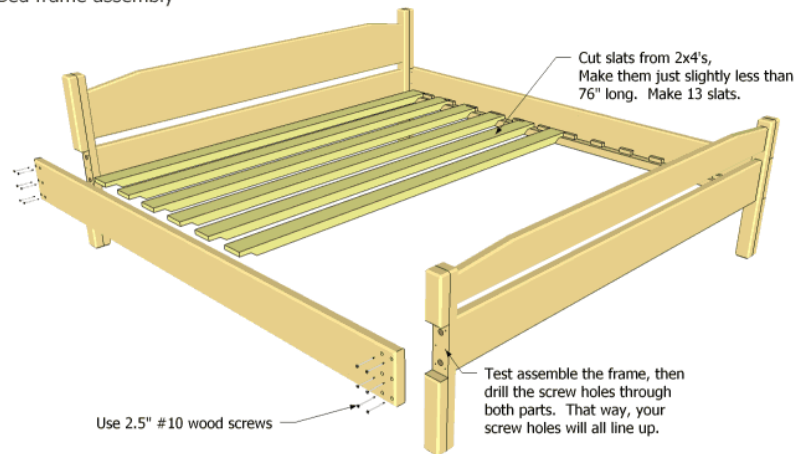
RAMOVI / RAVANSKI / KONSTRUKTIVNI

Gredice (detalji) spojeni različitim tipovima stolarskih veza uz primenu lepka.

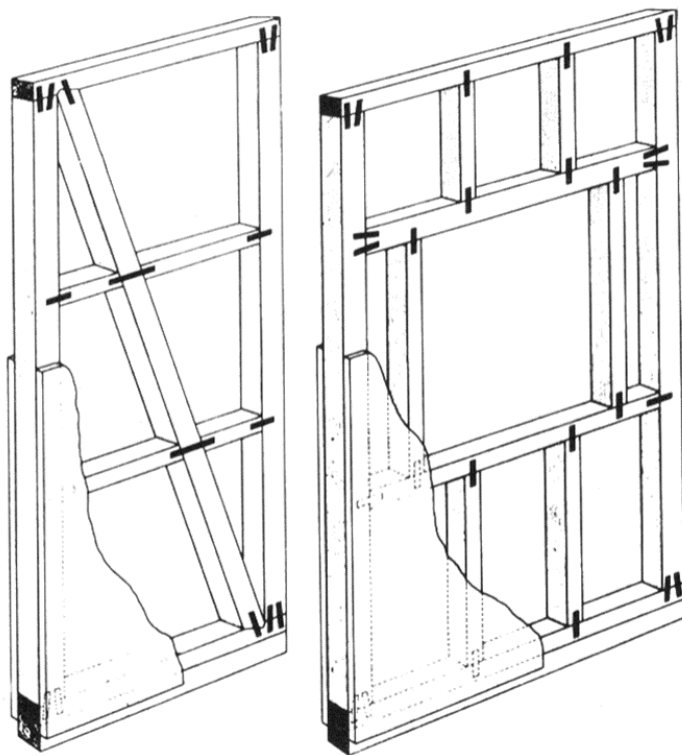


RAMOVI / PROSTORNI / KONSTRUKTIVNI

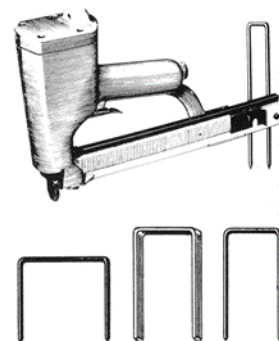
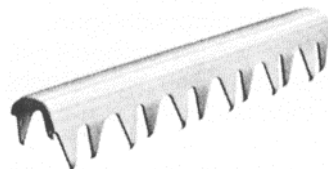
Bed frame assembly



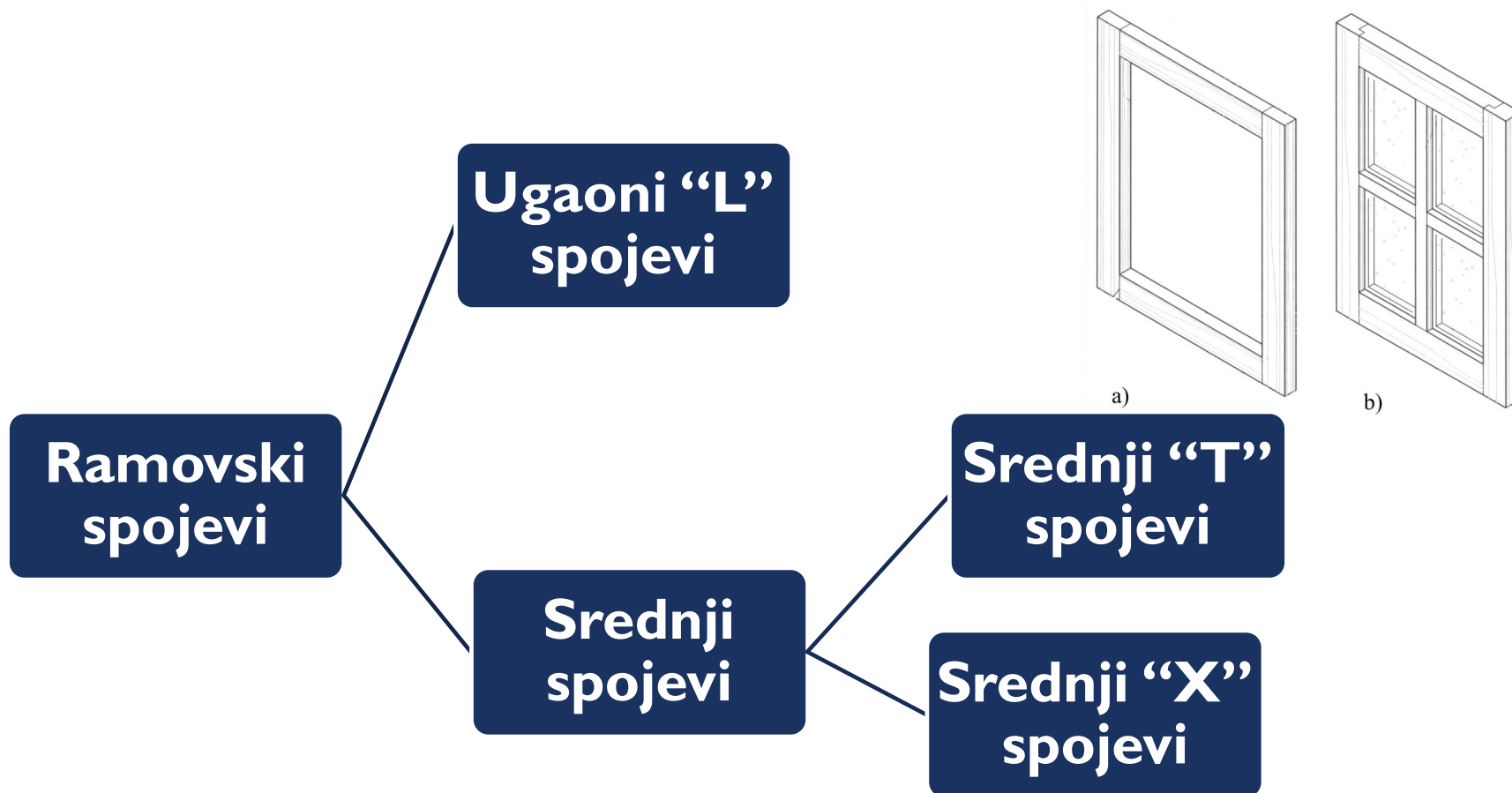
RAMOVI / RAVANSKI / SLEPI



Gredice (detalji) spojeni
klamficama (bez upotrebe lepka).



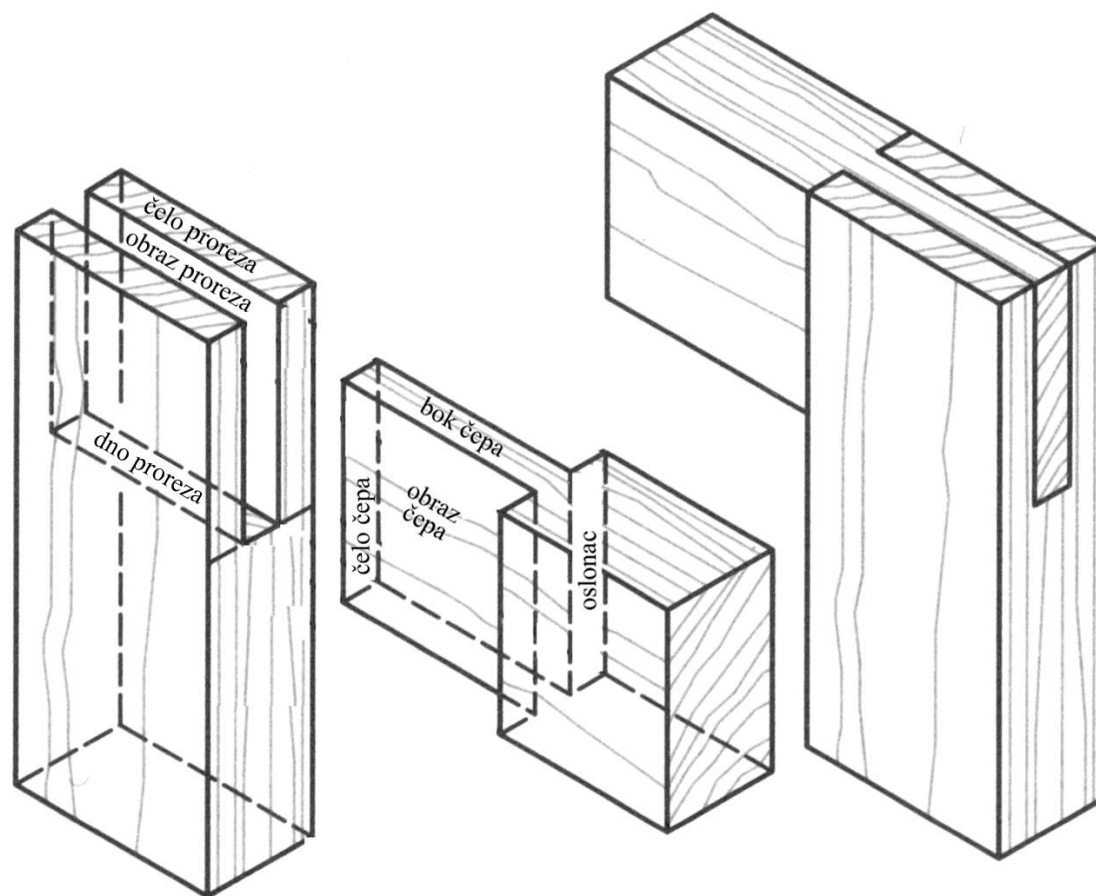
PODELA RAMOVSKIH SPOJEVA

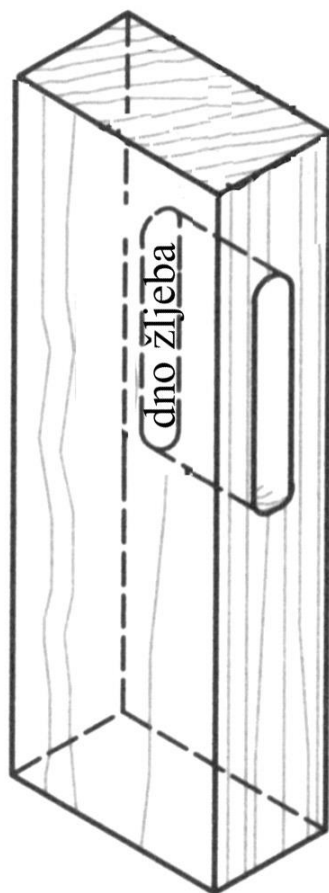


NAZIVI ELEMENATA STOLARSKIH VEZA

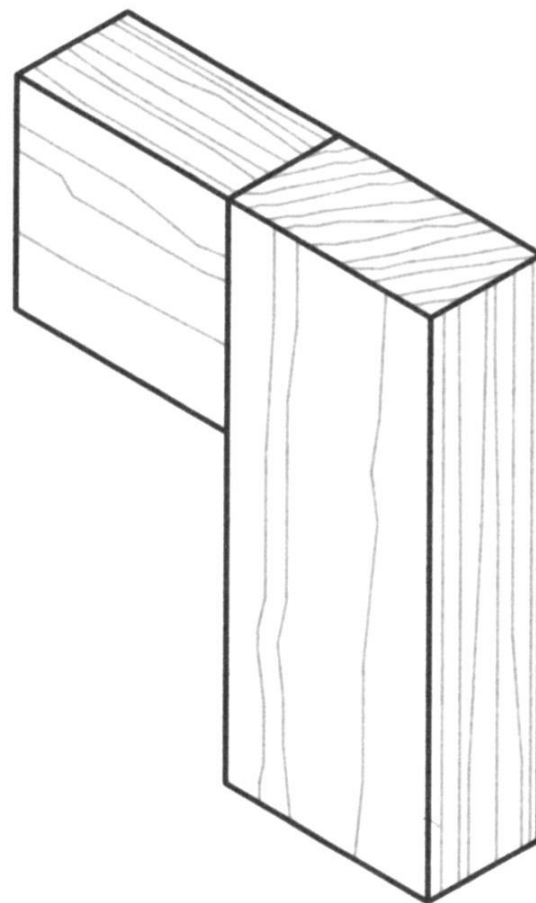
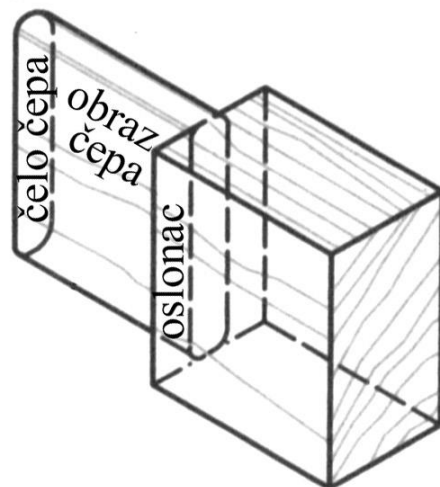
ČEPOVI

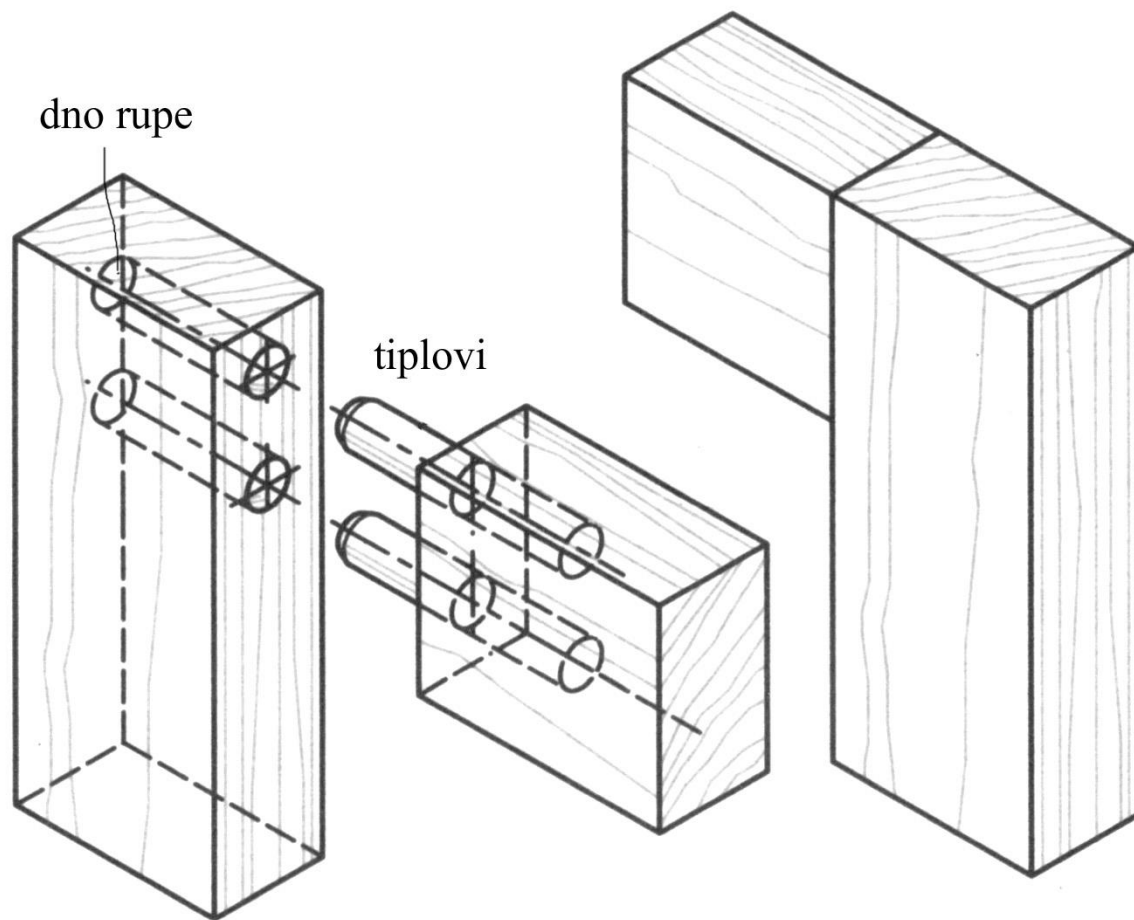
- prizmatični
- ovalni
- Okrugli / tiplovi





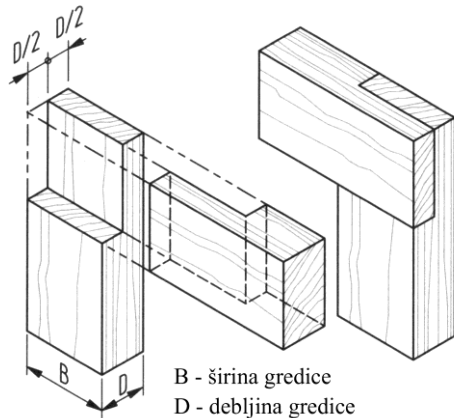
obraz
žljeba



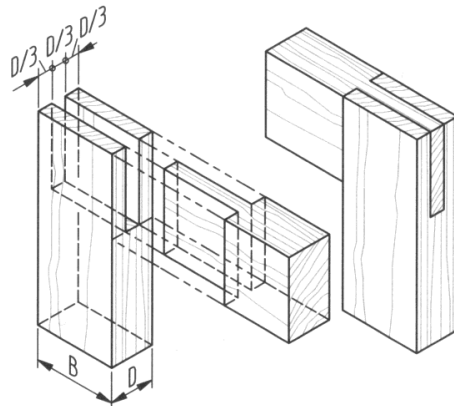




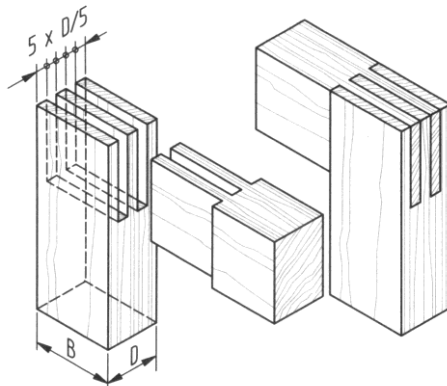
RAMOVSKI UGAONI SPOJEVI NA RAVNI SUDAR – L SPOJEVI



Spoj na preklop i ravni sudar

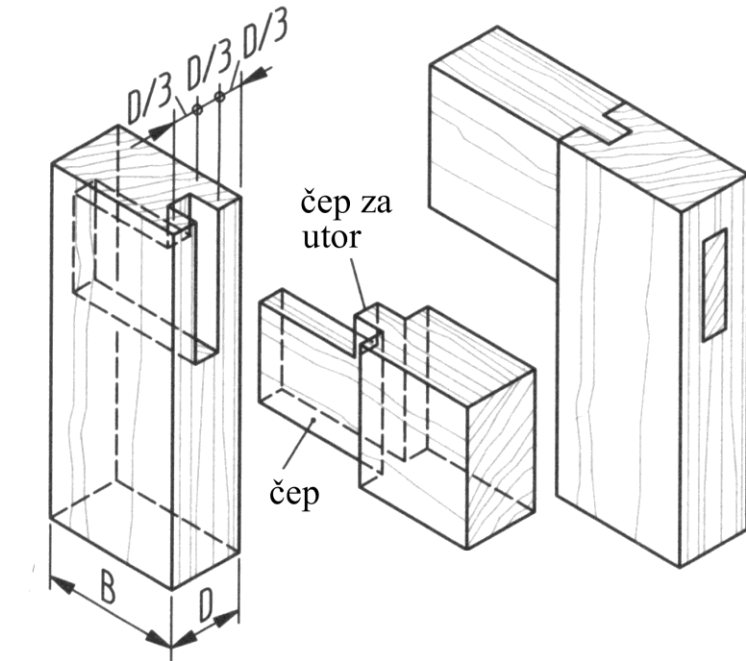


Spoj na jednostruki čep i prorez i ravan sudar

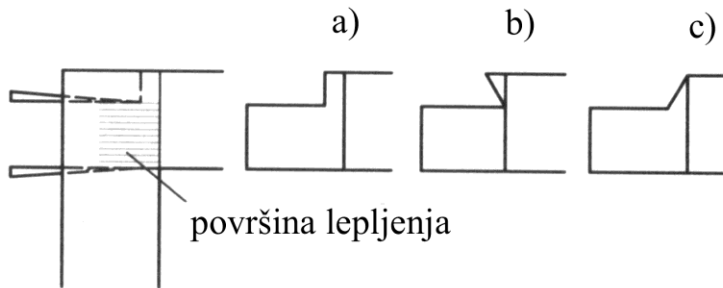


Spoj na dvostruki čep i prorez i ravan sudar

Ramovski "L" spojevi - ravan sudar - poluskriveni

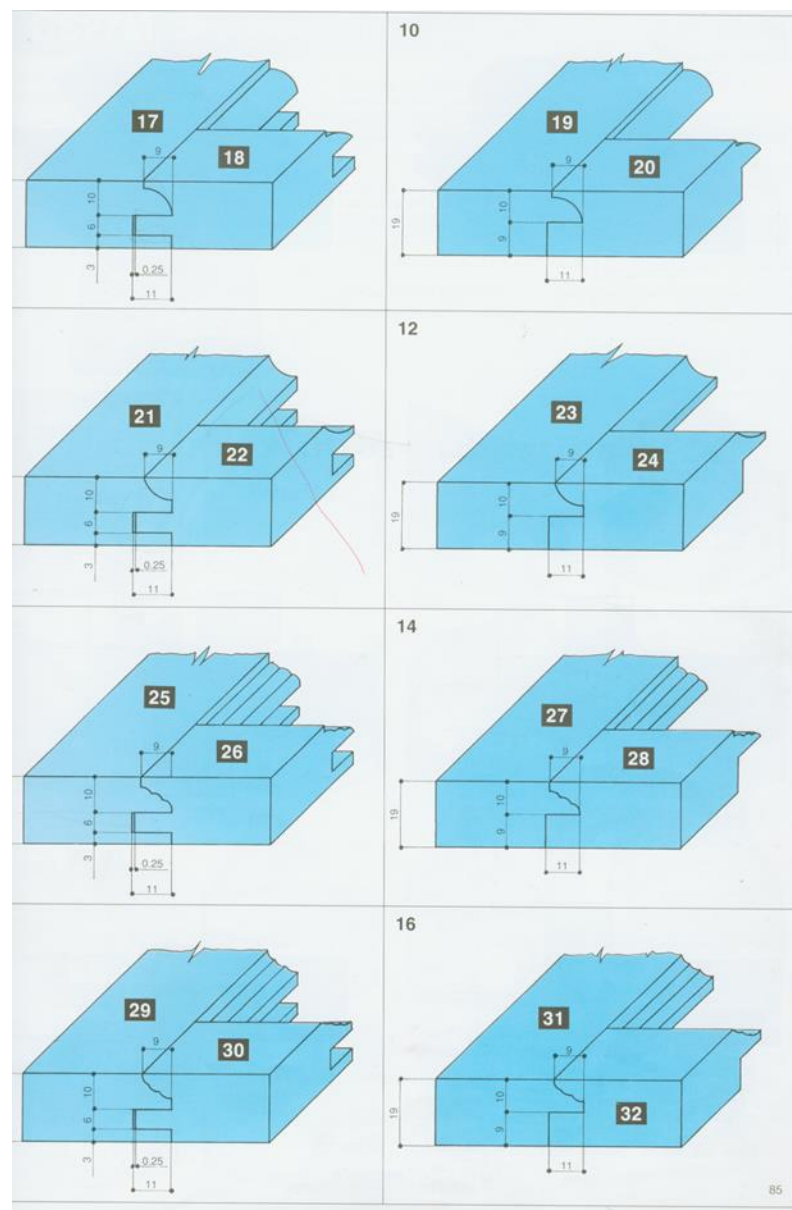
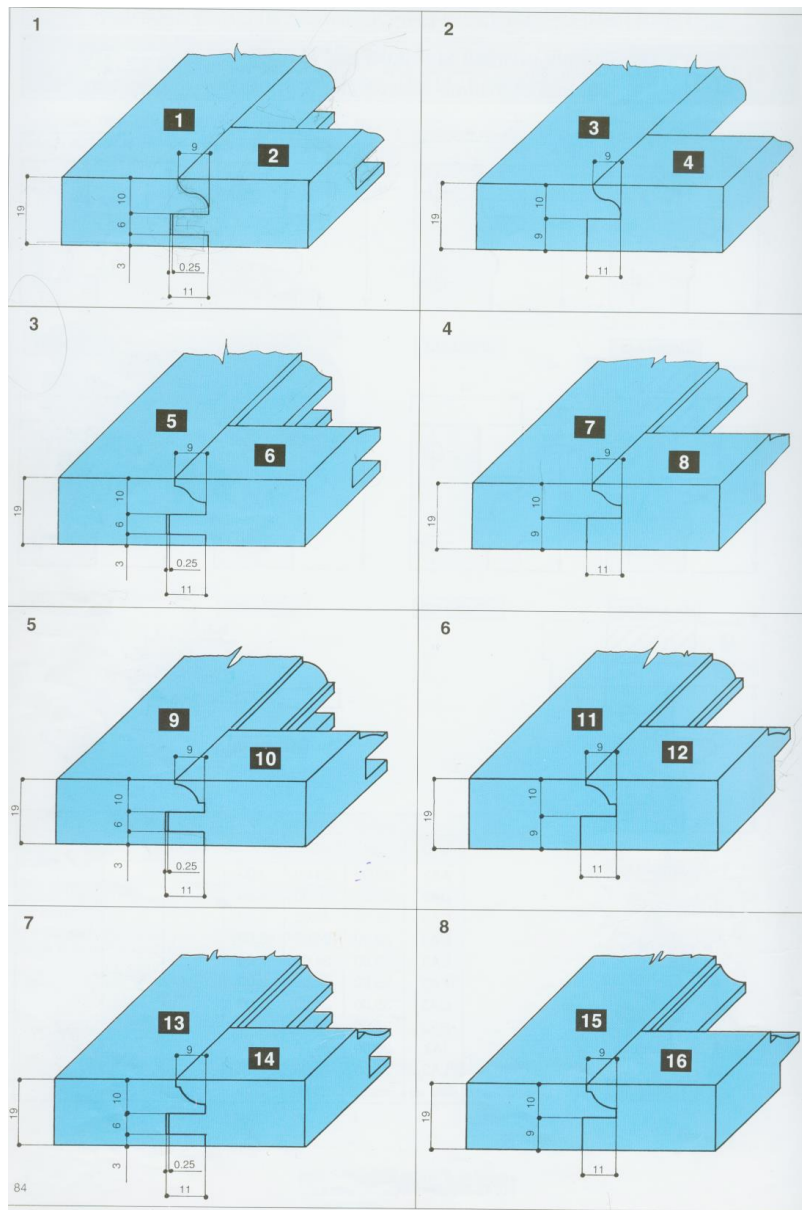


Spoj na prizmatični zarezani
čep i žljeb ojačan klinovima

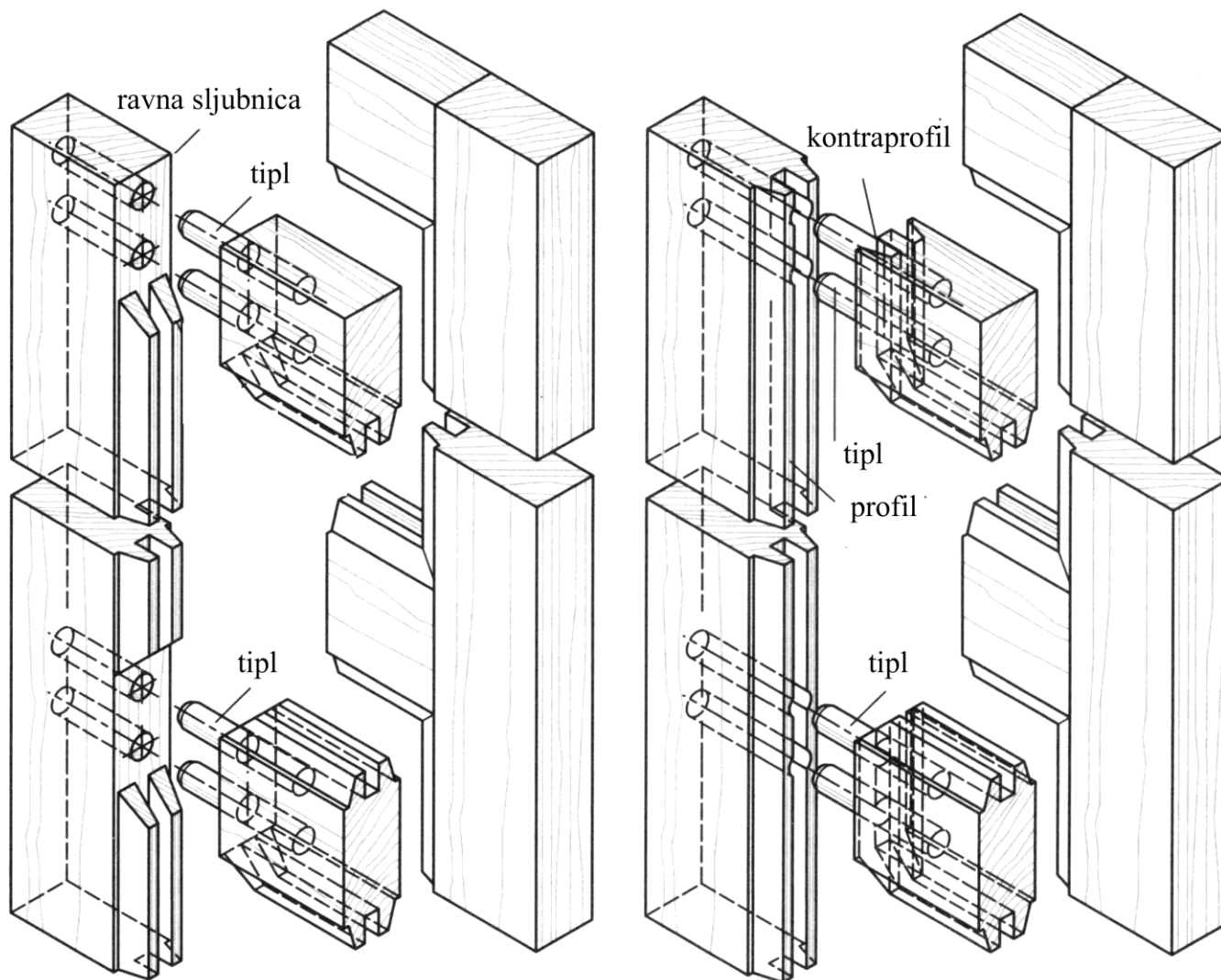


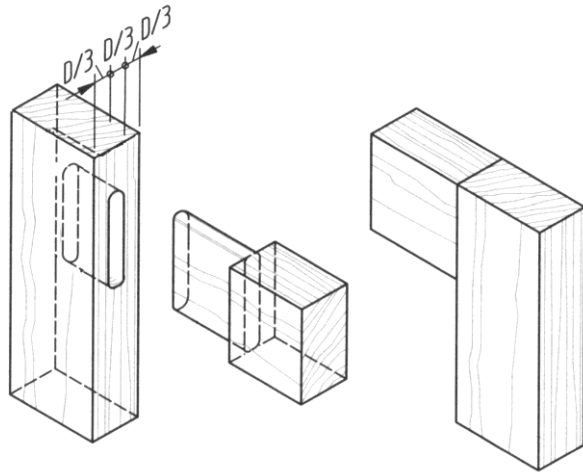
Ramovski "L" spojevi - ravan sudar - poluskriveni

Profil kontra profil

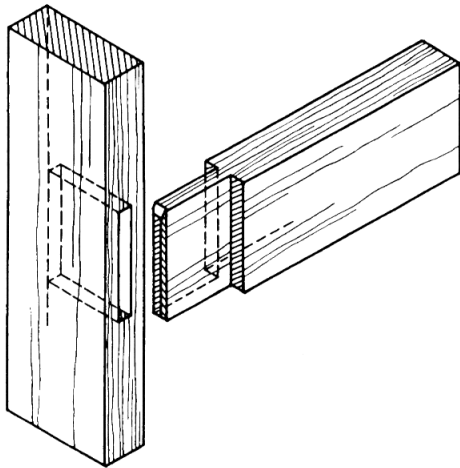


Ramovski "L" spojevi - ravan sudar - poluskriveni



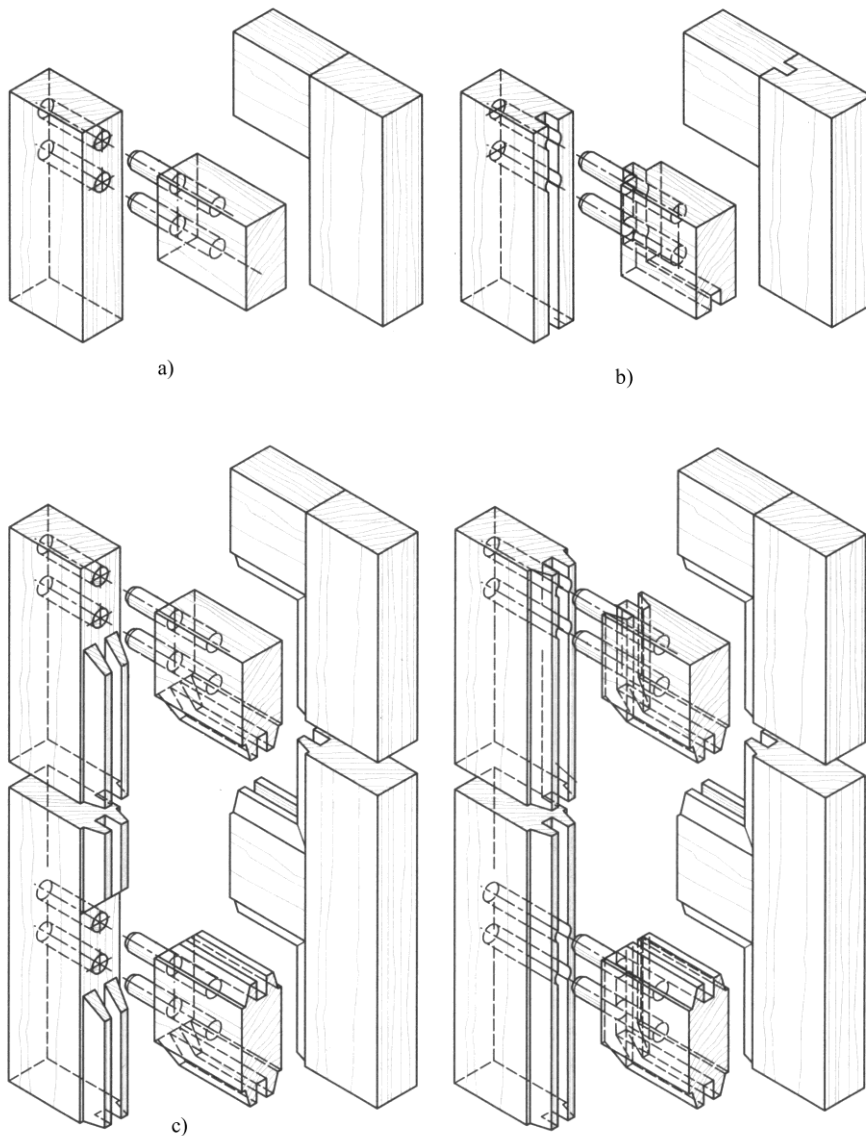


Spoj na ovalni čep i žljeb i ravan sudar



Spoj na prizmatični čep i žljeb i ravan sudar

Ramovski "L" spojevi - ravan sudar - skriveni



Spoj sa tiplovima:

a) spajanje gredica u ramove kod nameštaja

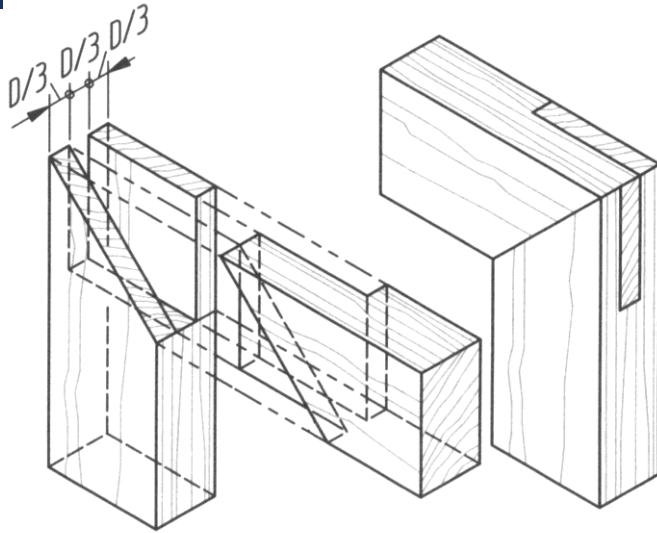
b) spoj na pero i utor ojačan tiplovima

c) spajanje gredica za ulazna vrata - profil kontra profil ojačan tiplovima

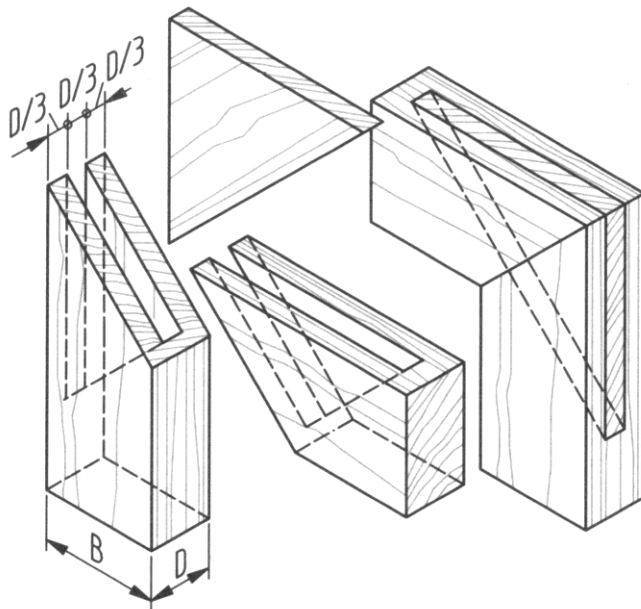


RAMOVSKI UGAONI SPOJEVI NA KOSI SUDAR – L SPOJEVI

Ramovski "L" spojevi – kosi sudar - vidljivi

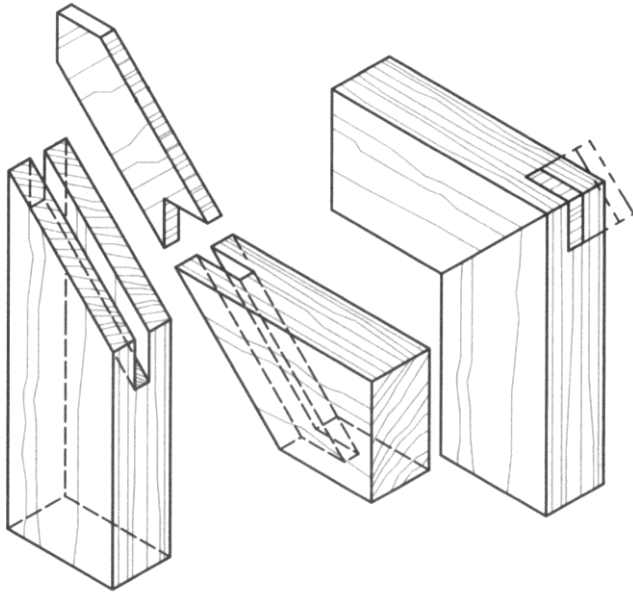


Ramovski kombinovani
spoj na čep i prorez i kosi
sudar

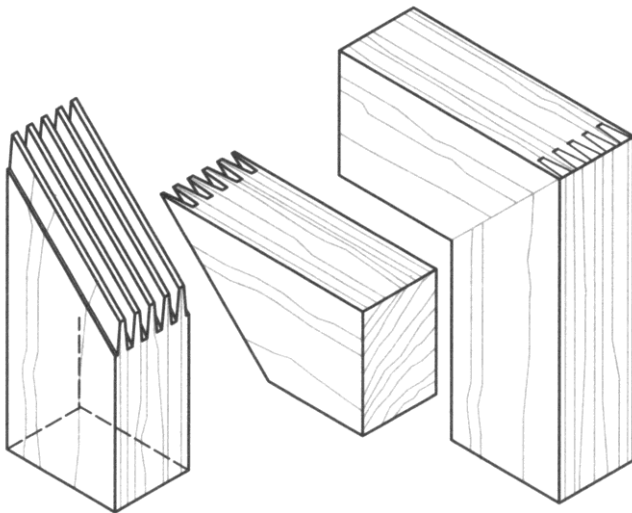


Ramovski ugaoni spoj na kosi
sudar sa umetnutim čepom

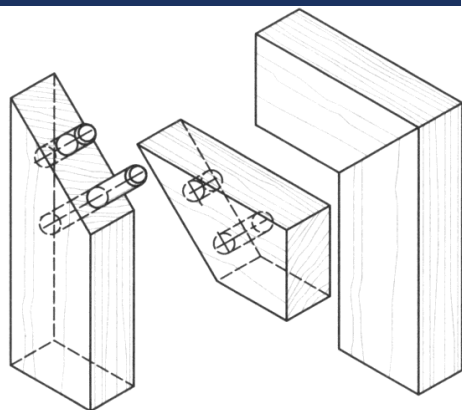
Ramovski "L" spojevi – kosi sudar - poluskriveni



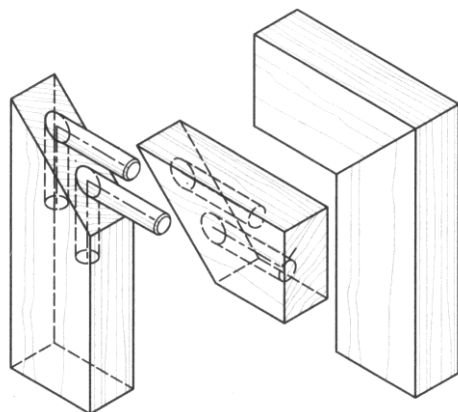
Ramovski ugaoni spoj na kosi sudar sa vidljivim oblikovnim perom



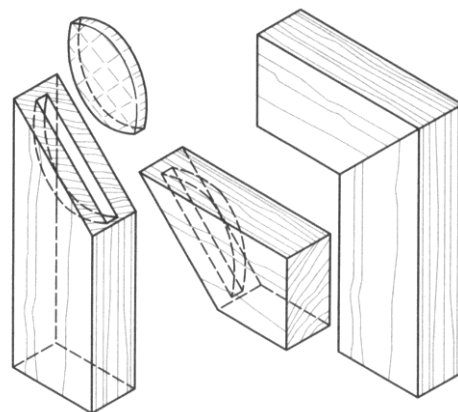
Ramovski ugaoni spoj na kosi sudar sa malim i srednjim klinastim zupcima



Ramovski ugaoni spoj na kosi sudar sa tiplovima



Ramovski ugaoni spoj na kosi sudar sa ugaonim tiplovima



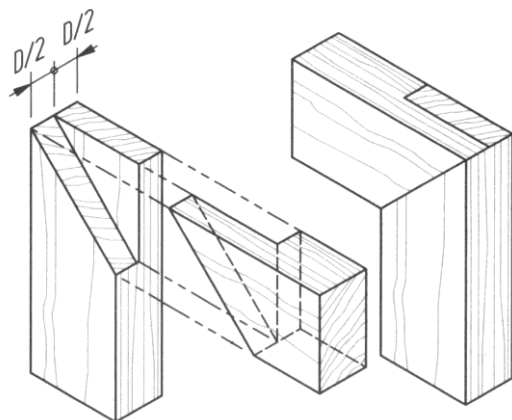
Ramovski ugaoni spoj na kosi sudar sa lameliranim umetkom



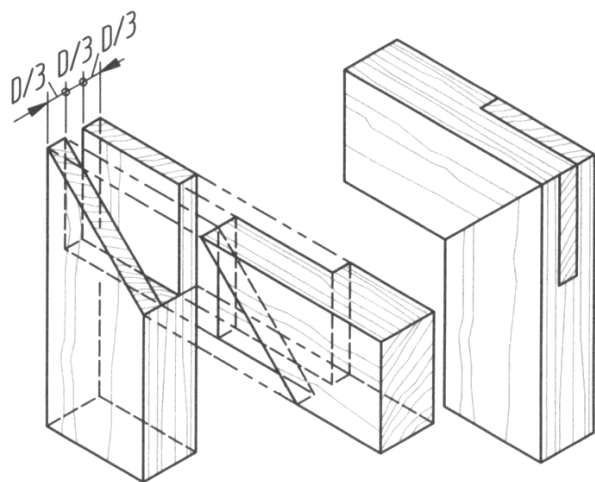
RAMOVSKI UGAONI SPOJEVI NA KOMBINOVANI SUDAR – L SPOJEVI

RAMOVSKI UGAONI SPOJEVI NA KOMBINOVANI SUDAR – L SPOJEVI

- Ramovski ugaoni spojevi na preklop i kosi sudar,
- Ramovski ugaoni spojevi na čep i prorez i kosi sudar.



Ramovski kombinovani
spoj na preklop i kosi
sudar

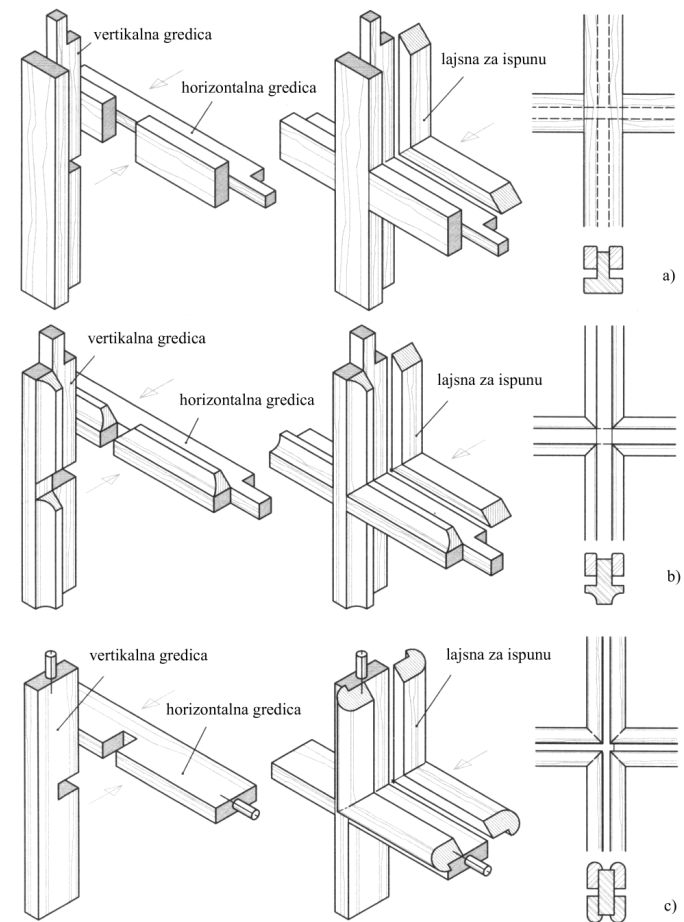
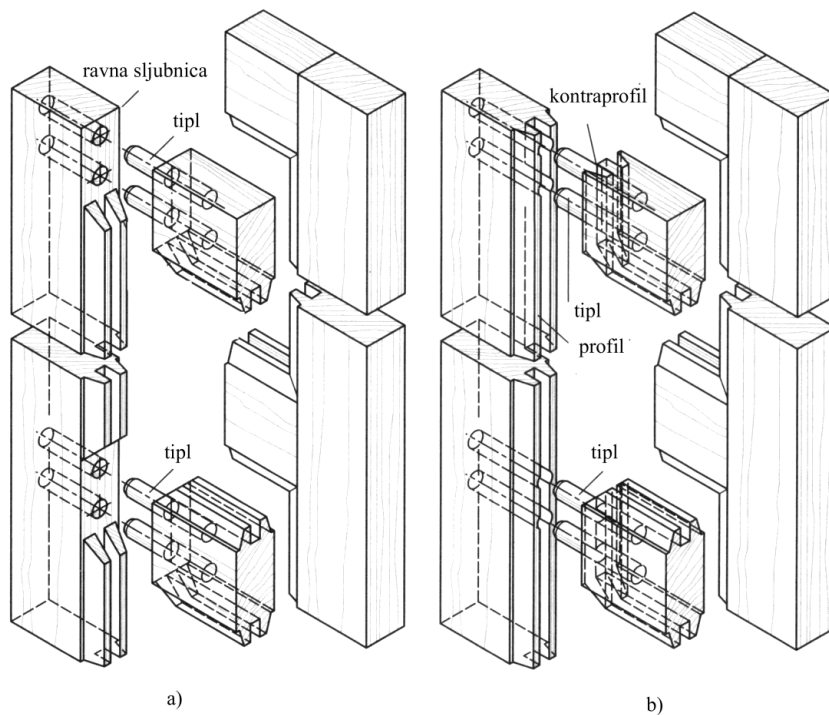


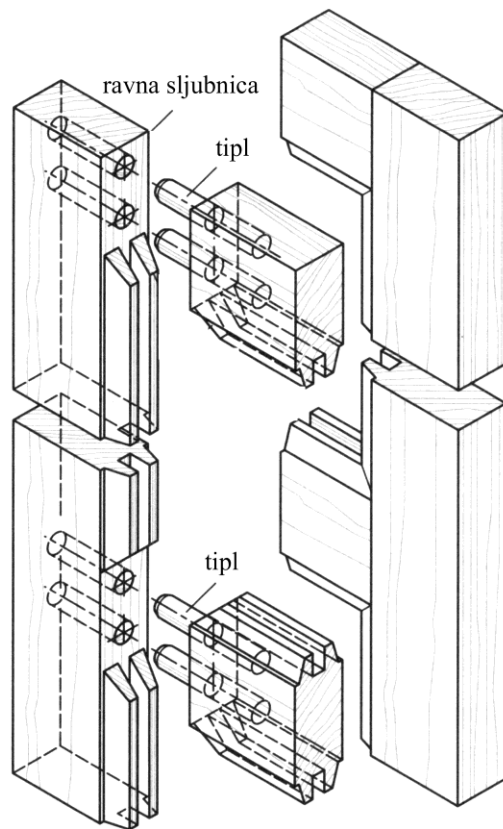
Ramovski kombinovani
spoj na čep i prorez i kosi
sudar



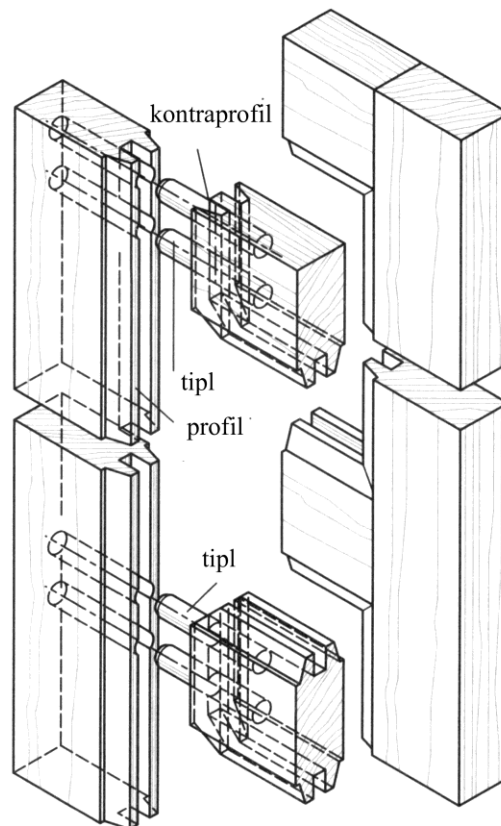
RAMOVSKI SREDNJI SPOJEVI – T I X SPOJEVI

Ramovski srednji T spoj sa tiplovima,
Ramovski srednji T spoj sa čepom i žljebom,
Ramovski unakrsni spoj, X spoj, sa preklop.





a)

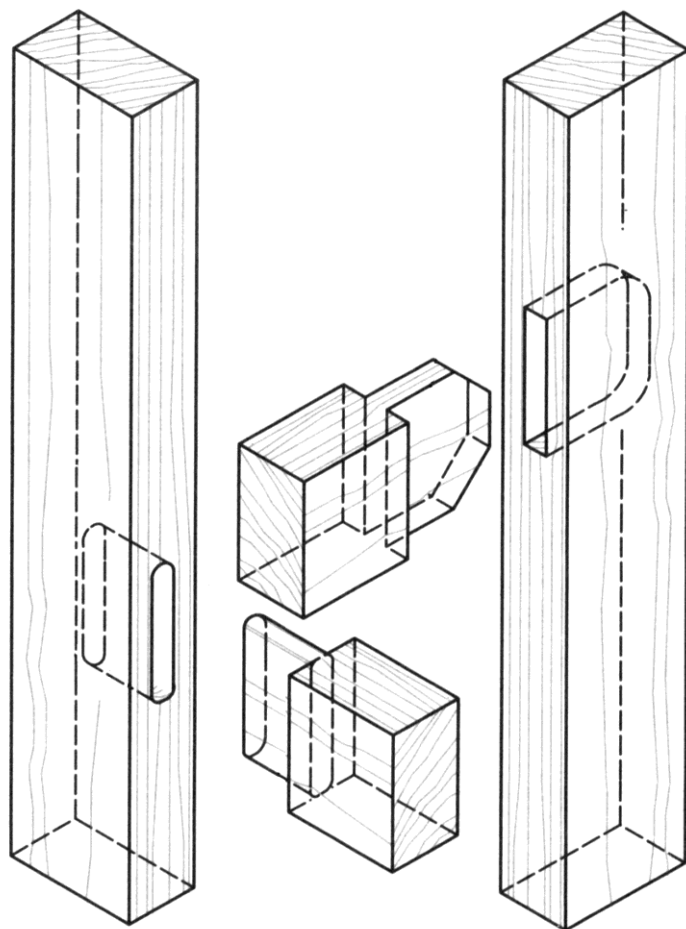


b)

Ramovski srednji T spoj:

a) sa tiplom

b) p-k-p ojačan tiplovima



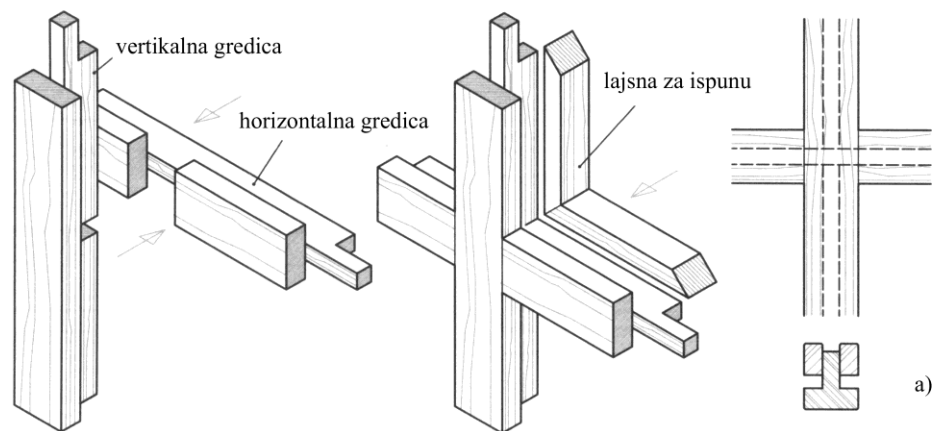
a)

b)

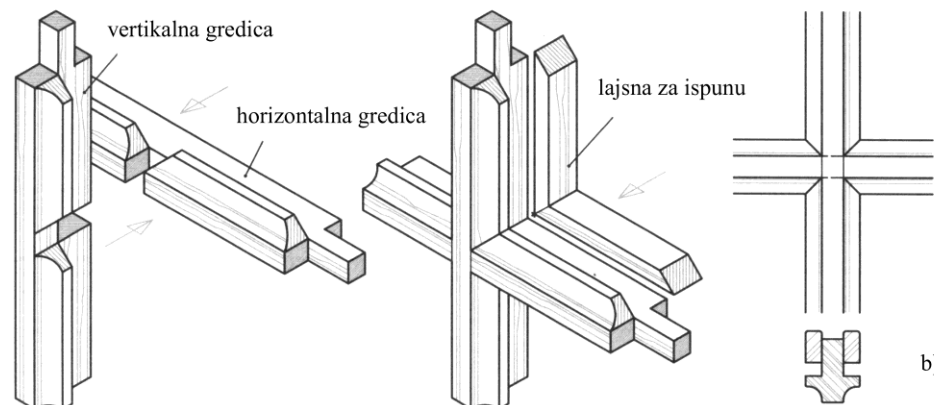
Ramovski srednji T spoj:

a) sa ovalnim čepom i žljebom

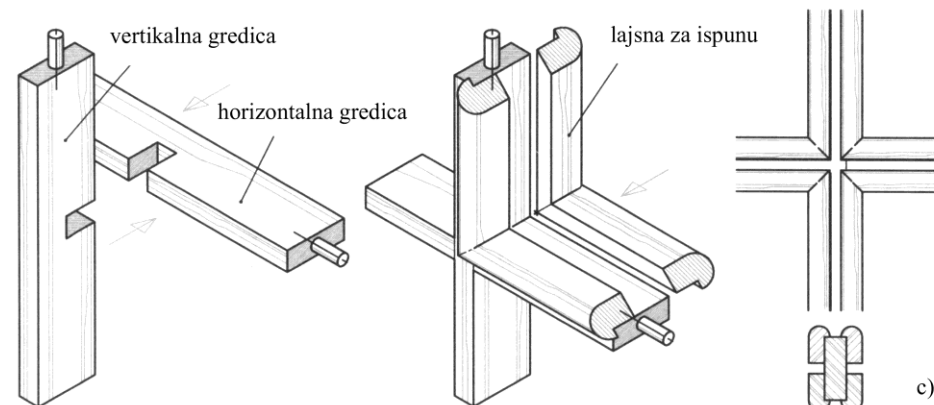
b) sa prizmatičnim čepom i žljebom



a)



b)



c)

Ramovski unakrsni
spoj, X spoj, sa
preklop



RAMOVSKJE ISPUNE

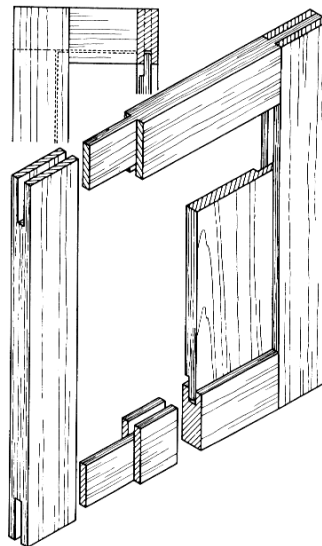
ISPUNE

Kod konstruktivnih ramova

- daščane ploče
- ploče na bazi drveta
- staklo

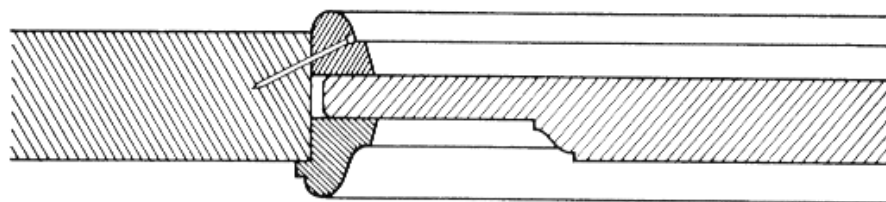
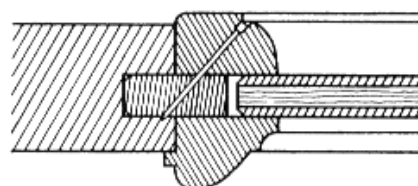
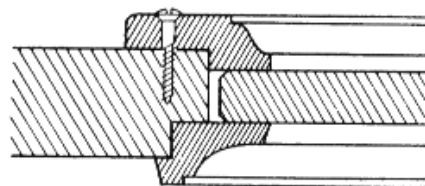
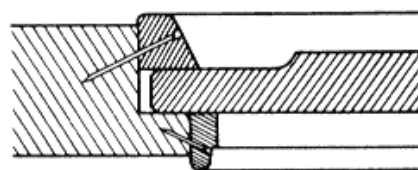
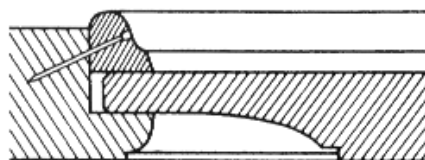
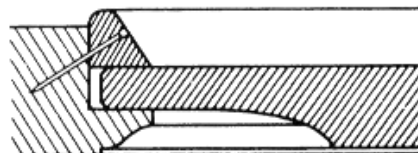
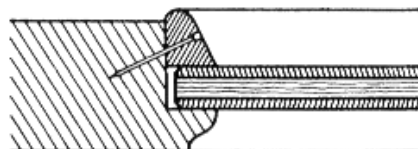
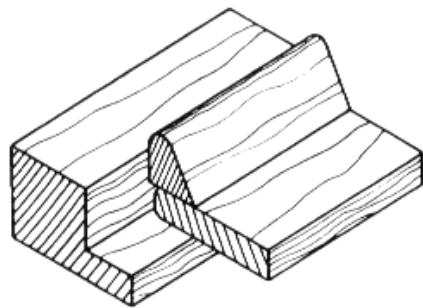
Kod slepih ramova

- Papirno saće
- Drvene letvice



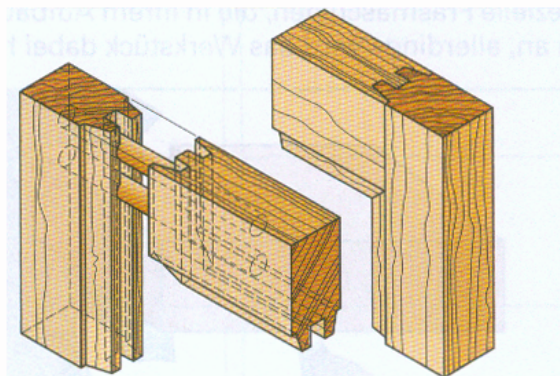
NAČINI POSTAVLJANJA ISPUNA

- **U utor:** Ispuna se postavlja prilikom lepljenja gredica u ram,
- **U falc:** Ispuna se postavlja u predhodno slepljeni ram i pričvršćuje odgovarajućim letvicama,
- **Pomoću profilisanih letvica:** Ispune se pričvršćuju pomoću profilisanih letvica, koje se polažu na ravne unutrašnje strane ramova
- **Preklapanjem:** Ispune se postavljaju preko spojeva pero-utor ili umetnuto pero-utor prilikom spajanj gredica u ramove,
- **Imitacija ramova i ispuna:** Na punim pločama glodanjem se radi imitacija ramova i ispuna.

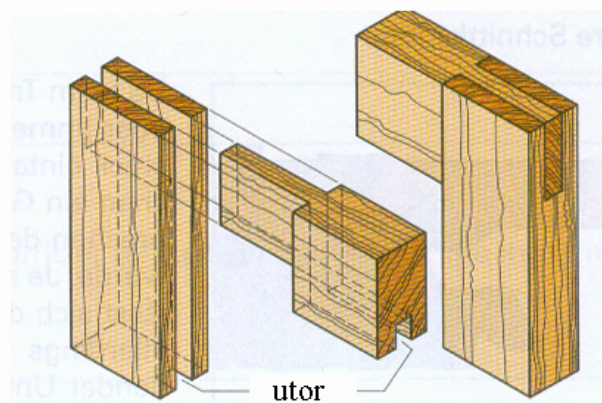
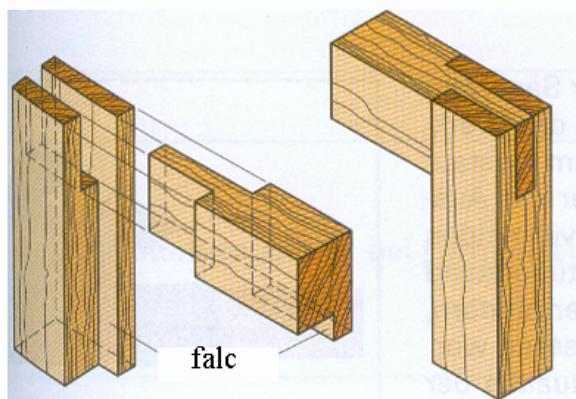


**Razlika
između
ispuna
ubačenih na
falc, utor i na
ravno?**

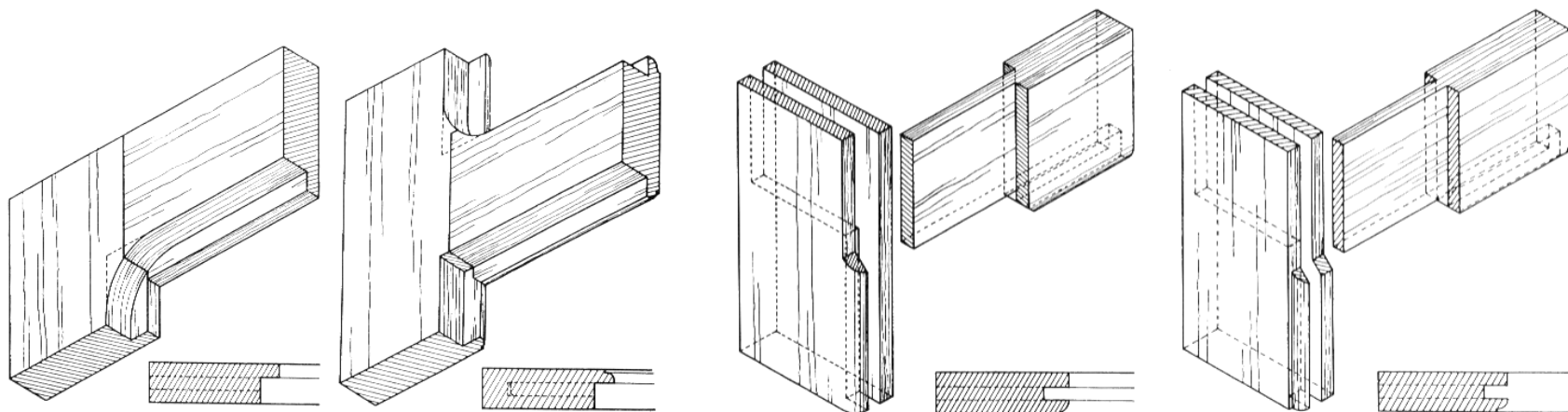
Ispuna ubačena na ravno



Pozicija utora i falca na
horizontalnim i vertikalnim
gredicama za smeštaj ispuna

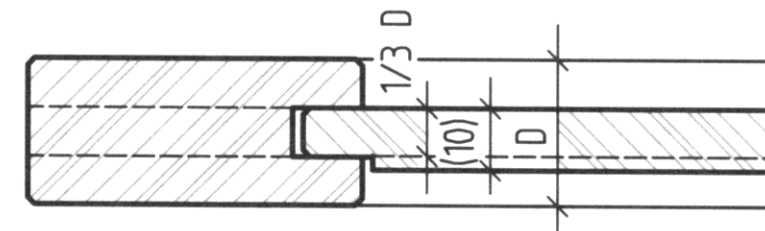


ISPUNE KOD KONSTRUKTIVNIH RAMOVA

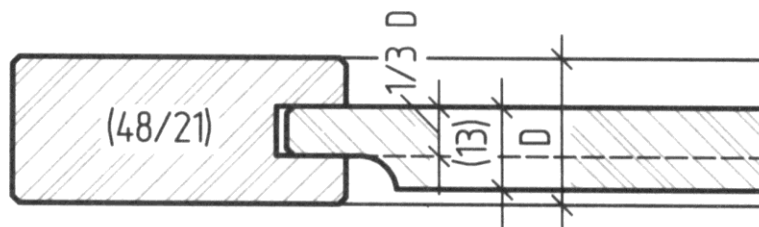


Ispuna ubačena u falc

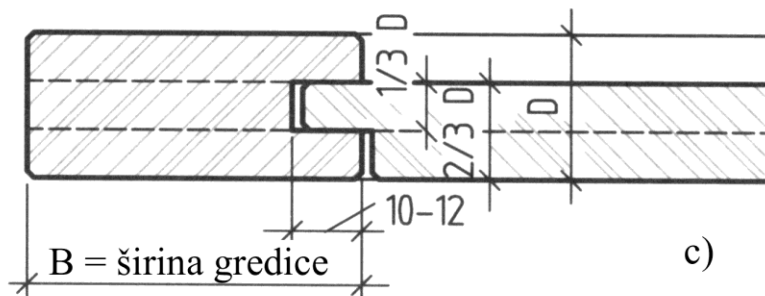
Ispuna ubačena u utor



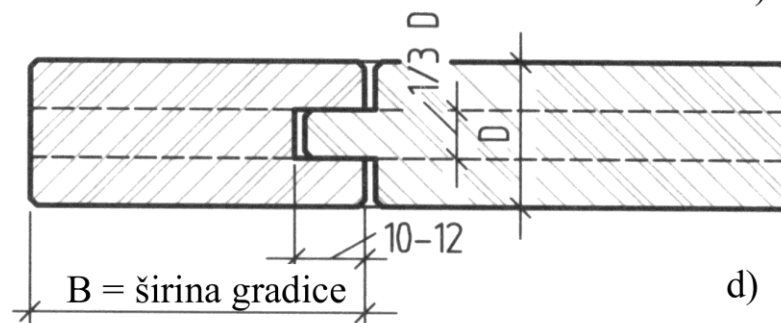
a)



b)



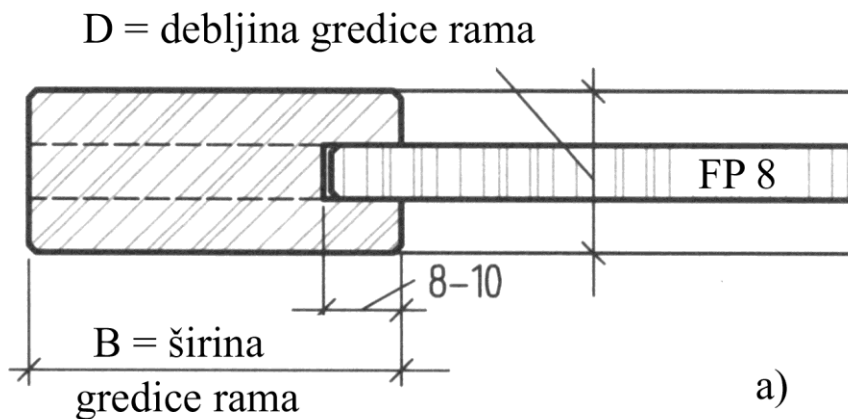
c)



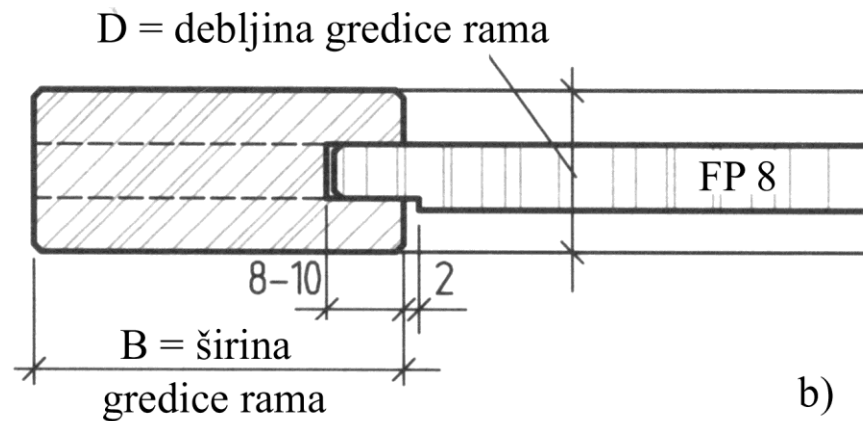
d)

Način postavljanja ispune od masivnog drveta u ram sa utorima

- a) Jednostrano stanjena i uvučena ispuna
- b) Jednostrano stanjena, profilisana i uvučena ispuna
- c) Jednostrano stanjena i sa jedne strane poravnata ispuna sa gredicama rama
- d) Dvostrano stanjena i obostrno poravnata ispuna



a)

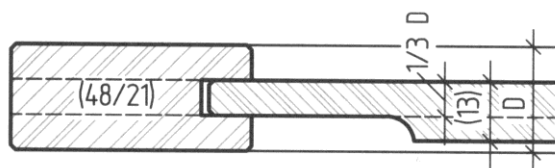


b)

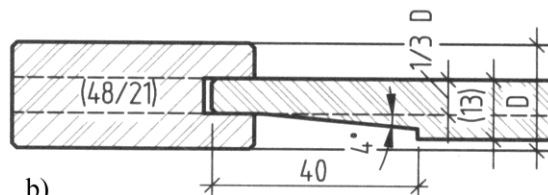
Način postavljanja ispune od punih ploča

a) Ispuna ulazi u utor celom svojom debljinom

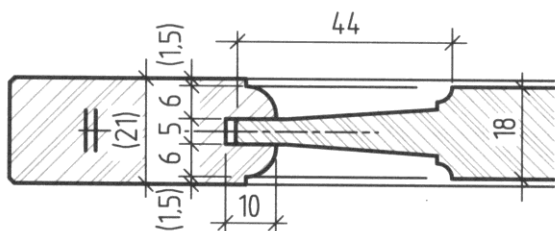
b) Stanjena ispuna ulazi u utor



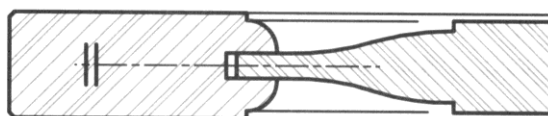
a)



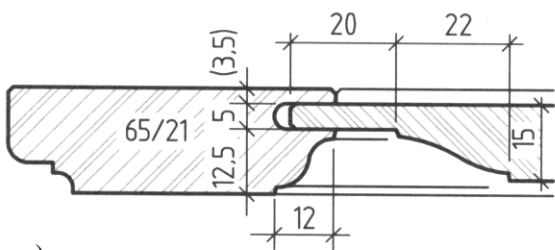
b)



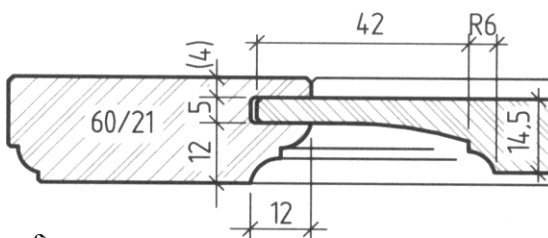
c)



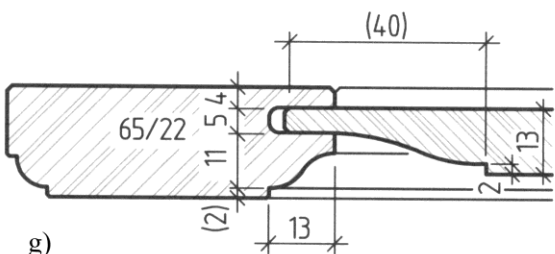
d)



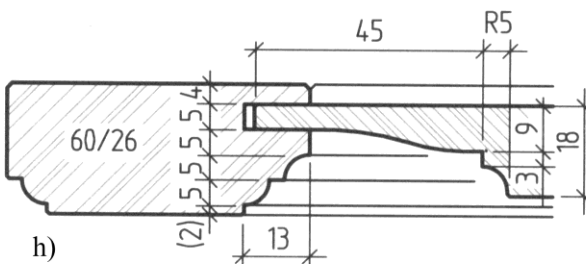
e)



f)

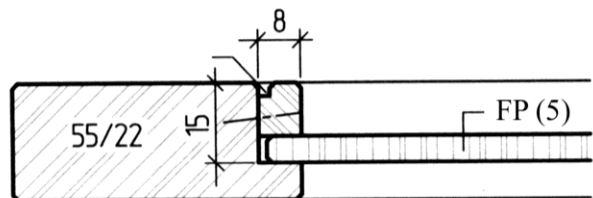


g)

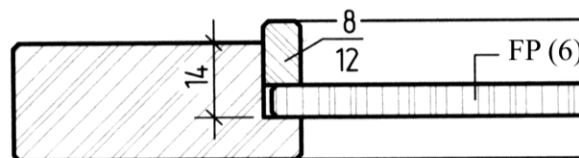


h)

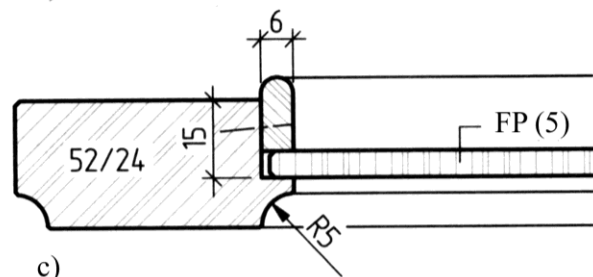
Način
postavljanja
ispuna u utor



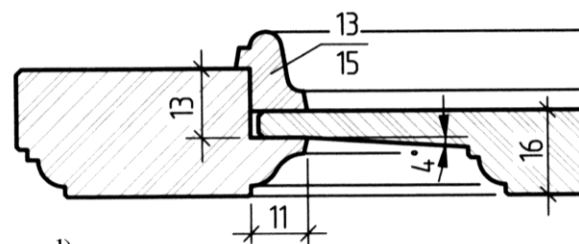
a)



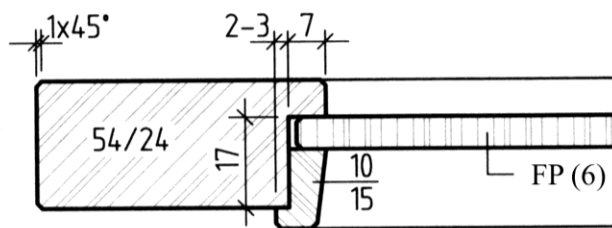
b)



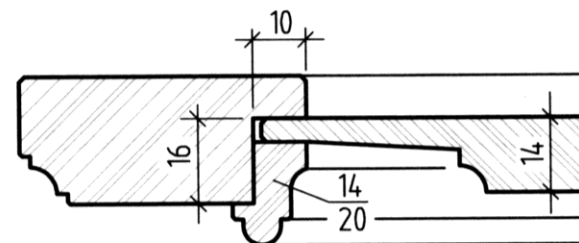
c)



d)

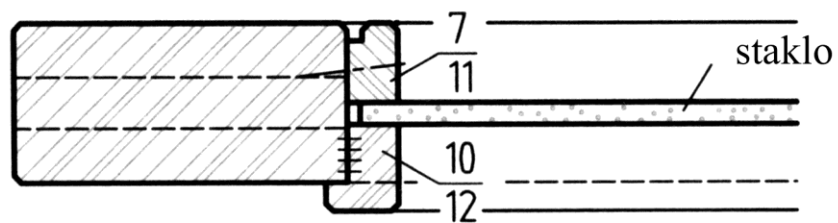


e)

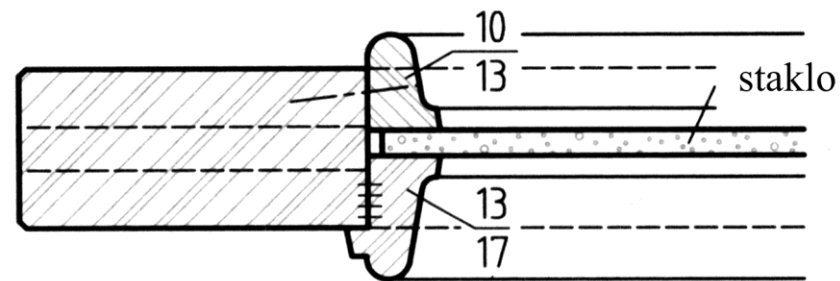


f)

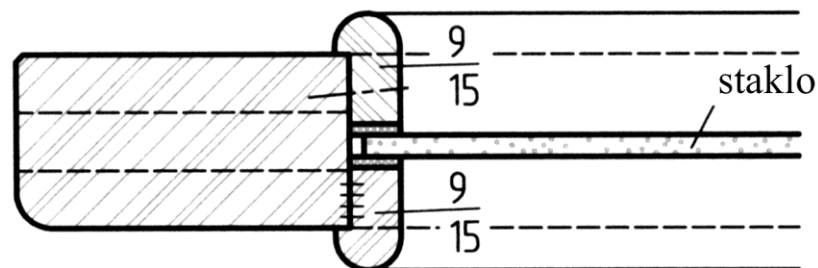
Načini postavljanja ispuna u falc



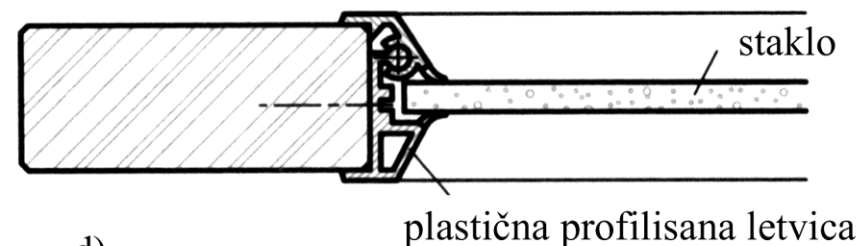
a)



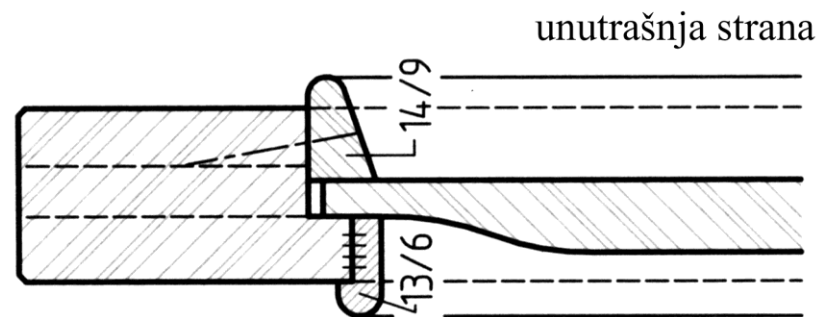
b)



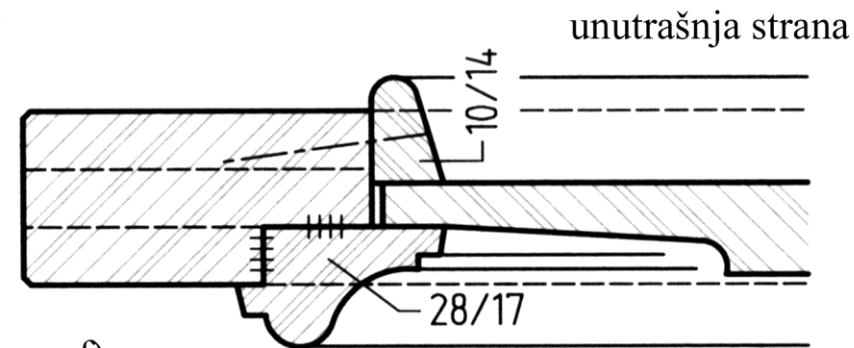
c)



d)

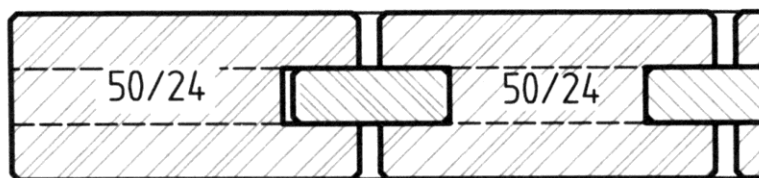


e)

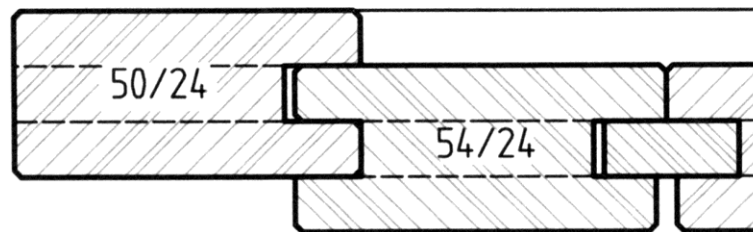


f)

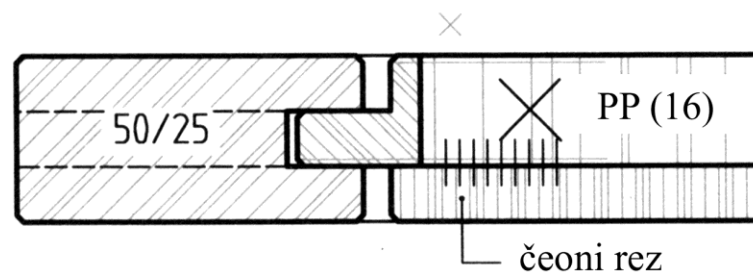
Postavljanje ispuna u ramove (na ravno) pomoću profilisanih letvica



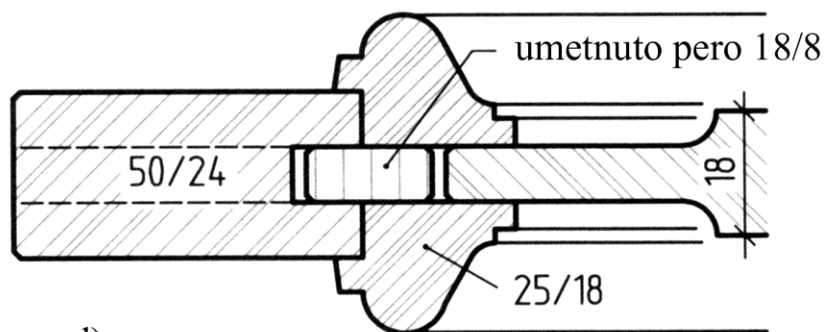
a)



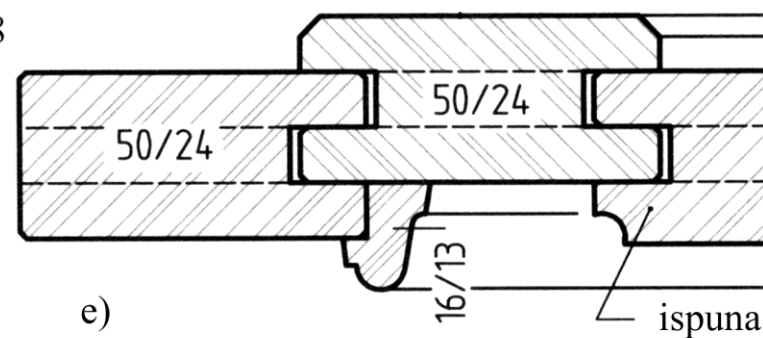
b)



c)

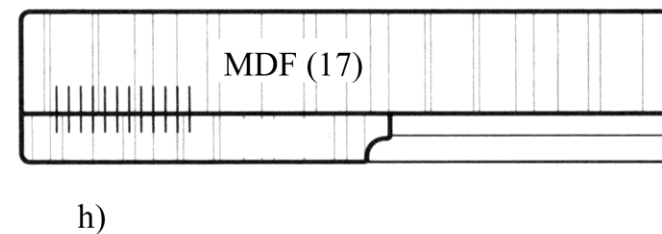
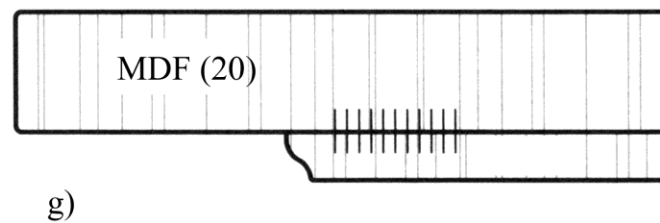
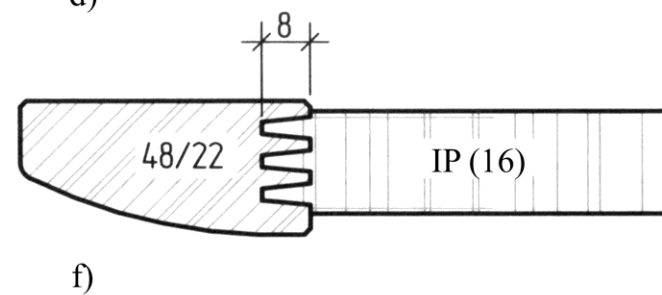
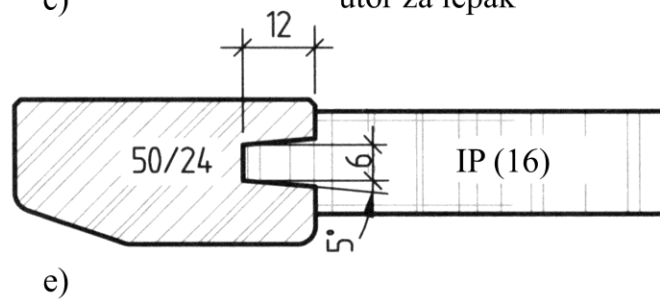
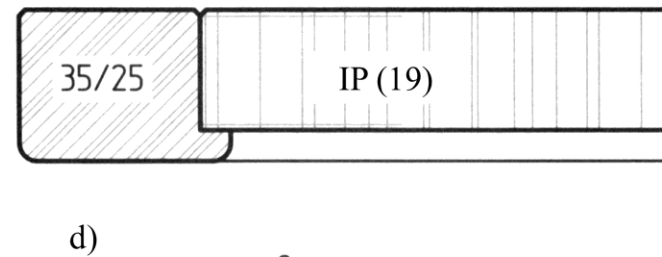
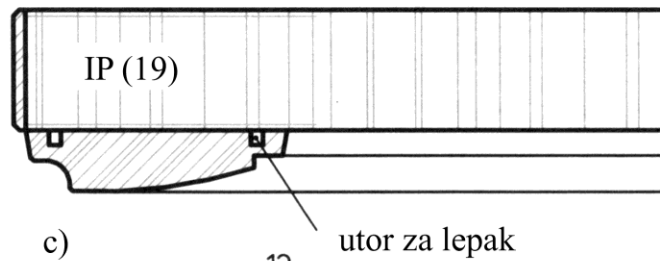
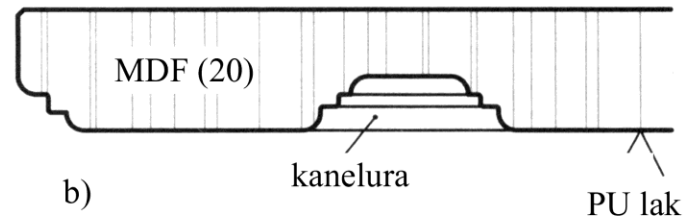
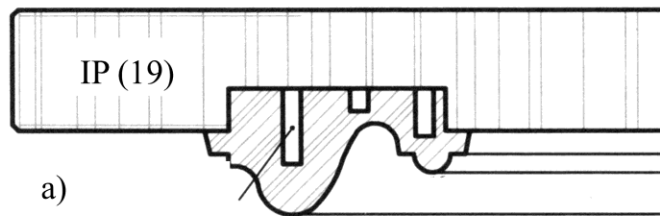


d)

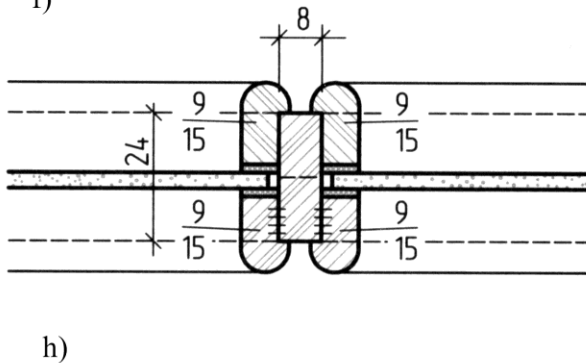
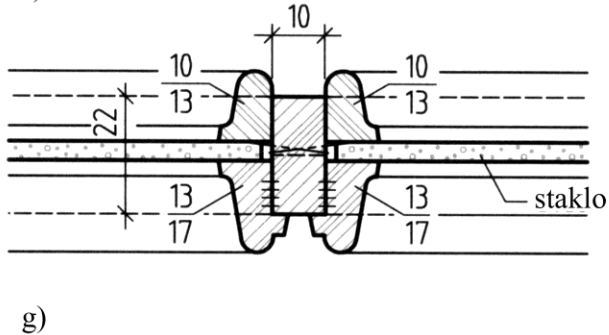
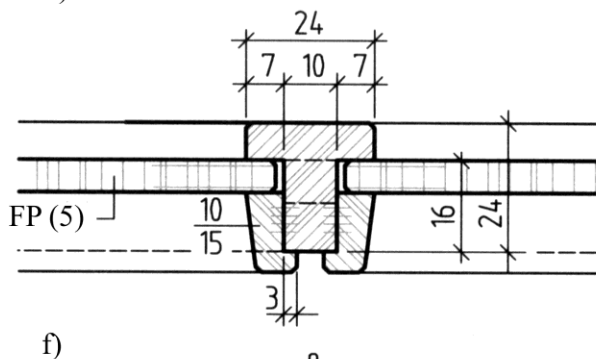
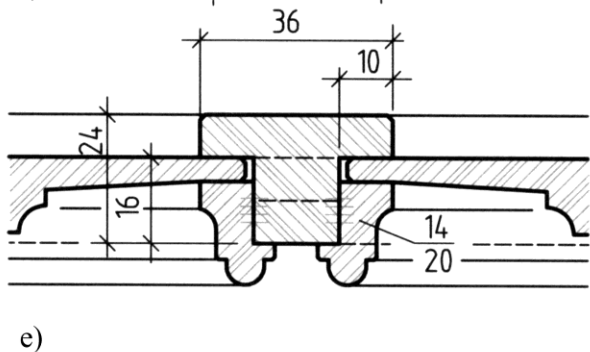
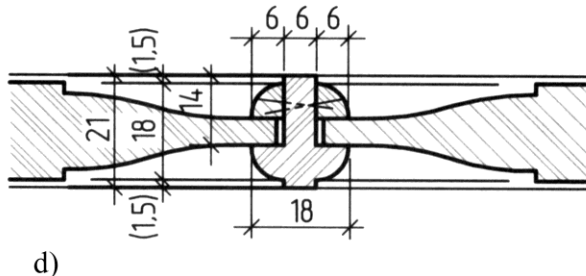
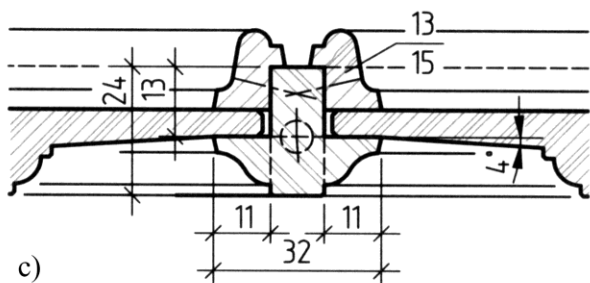
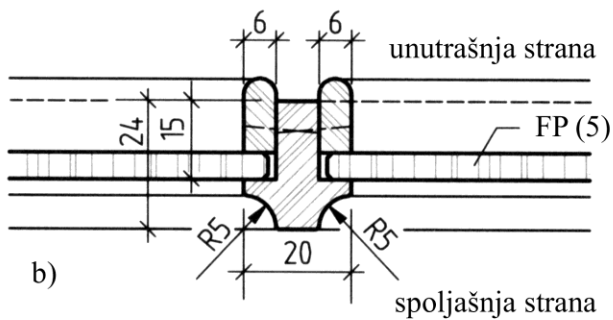
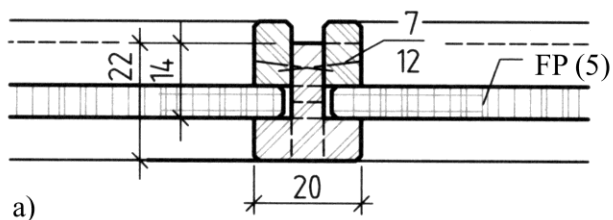


e)

Postavljanje ispuna u ramove preklapanjem



Imitacija ramova i ispuna na punim pločama



Postavljanje
ispuna u
ramove koji
su pregrađeni
šprosnama



Store No: 1300023



