IZVEDBA I OBLIKOVANJE KONSTRUKCIJA 2

Prof. dr. sc. Damir Varevac

U predavanjima su korištene slike iz ove literature:

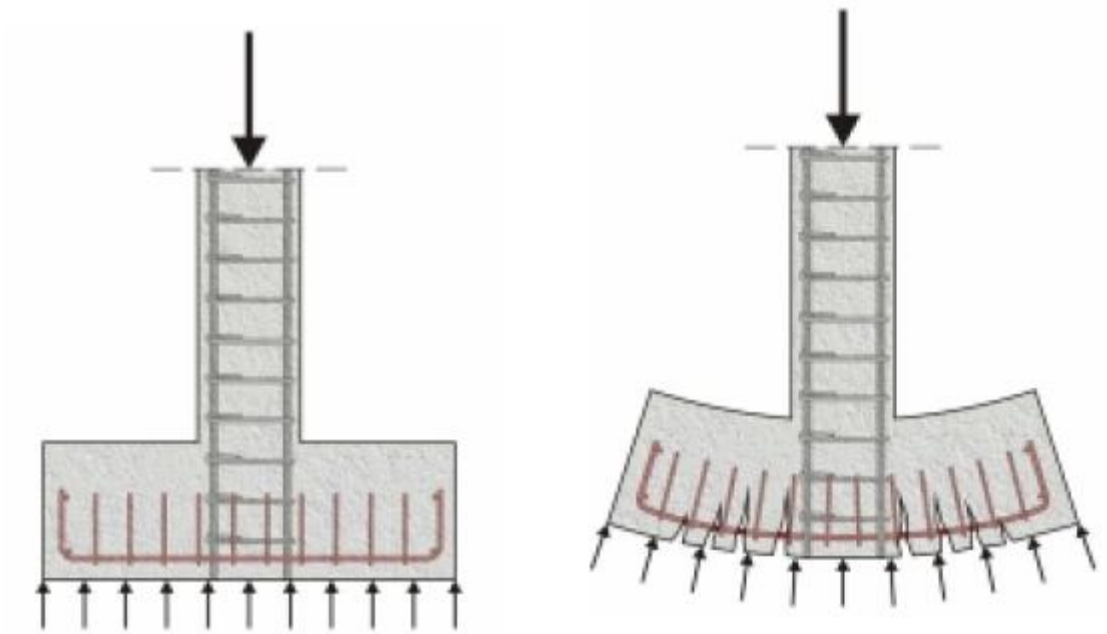
1. A. Konstantinidis: Earthquake Resistant Buildings made of Reinforced Concrete
2. J. Radić i drugi: Betonske konstrukcije – priručnik
3. European Concrete Platform ASBL: Worked Examples
4. C.H. Goodchild: Worked Examples to Eurocode
5. P. Bamford i drugi: Properties of Concrete for use in Eurocode 2

Armiranje elemenata građevina

Temelji samci

-ponašaju se kao obratne konzole

-reakcija tla opredstavlja opterećenje



Armiranje elemenata građevina

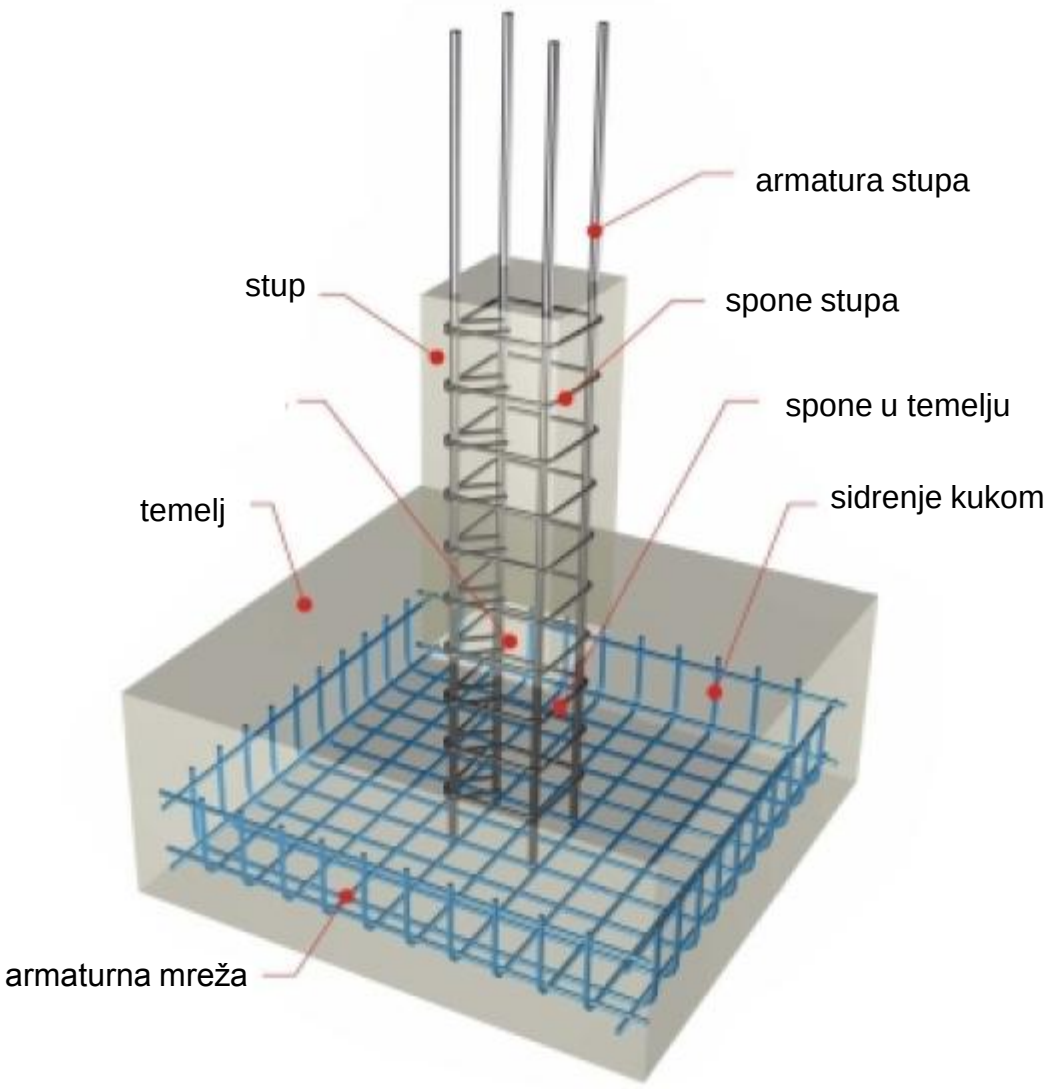
-raspodjela naprezanja (opterećenja) je linearna

-deformacije reda 1 mm

-armatura se mora sidriti

-sidrenje najčešće kukama pod pravim kutem, u slučaju malih debljina temeljne stope mogu se primijeniti kuke

Armiranje elemenata građevina



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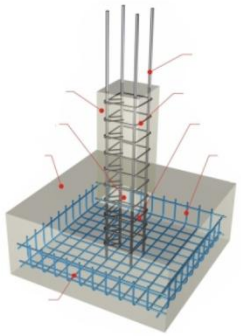
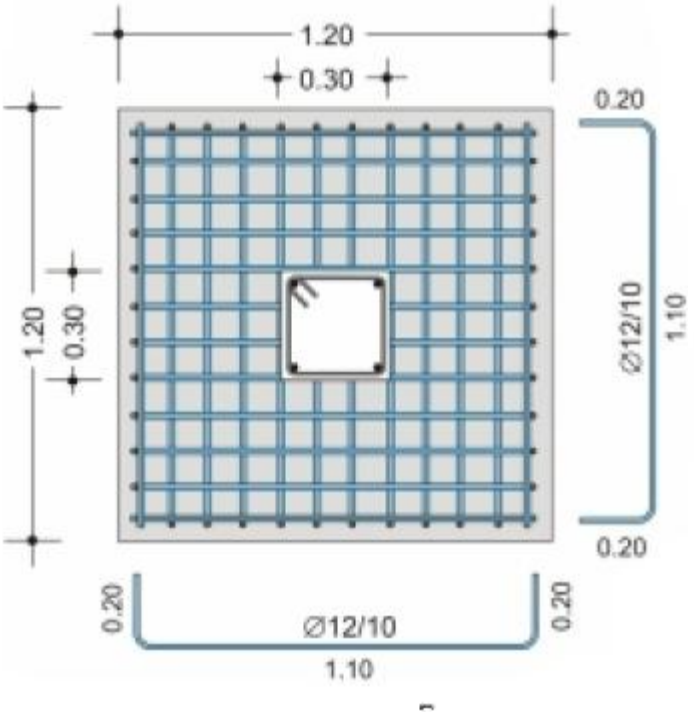
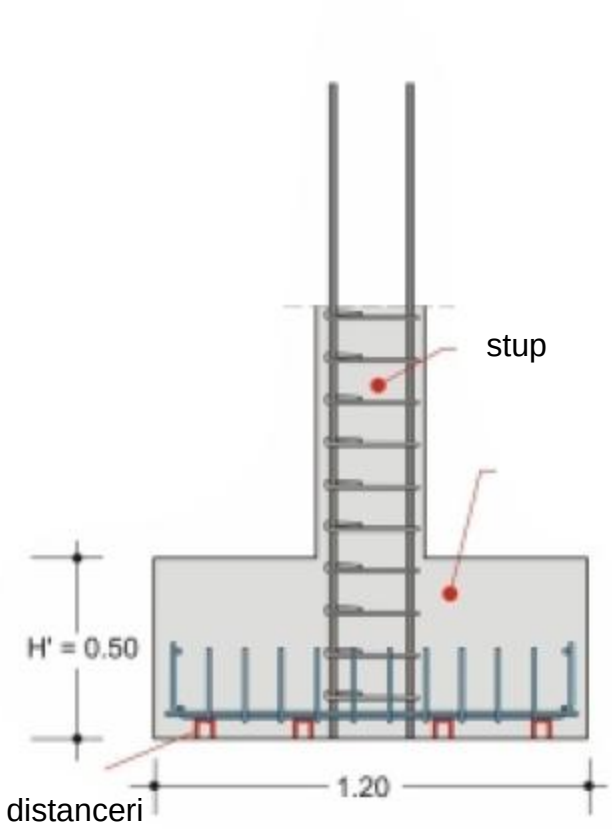
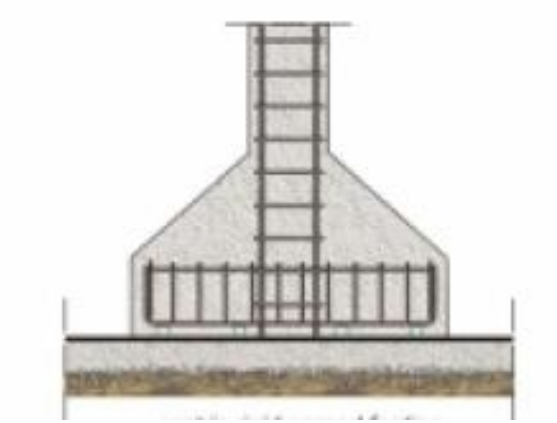


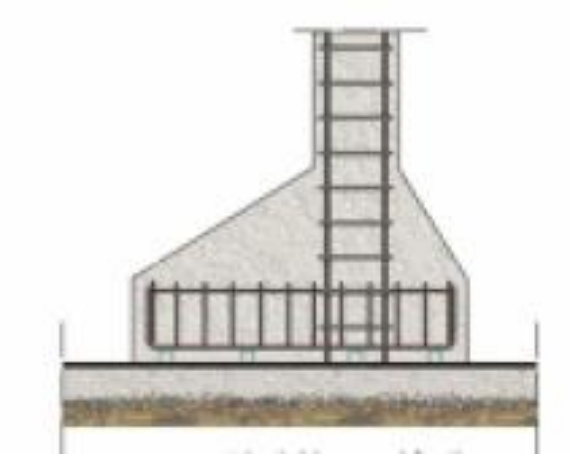




Armiranje elemenata građevina

Kruti temelji samci



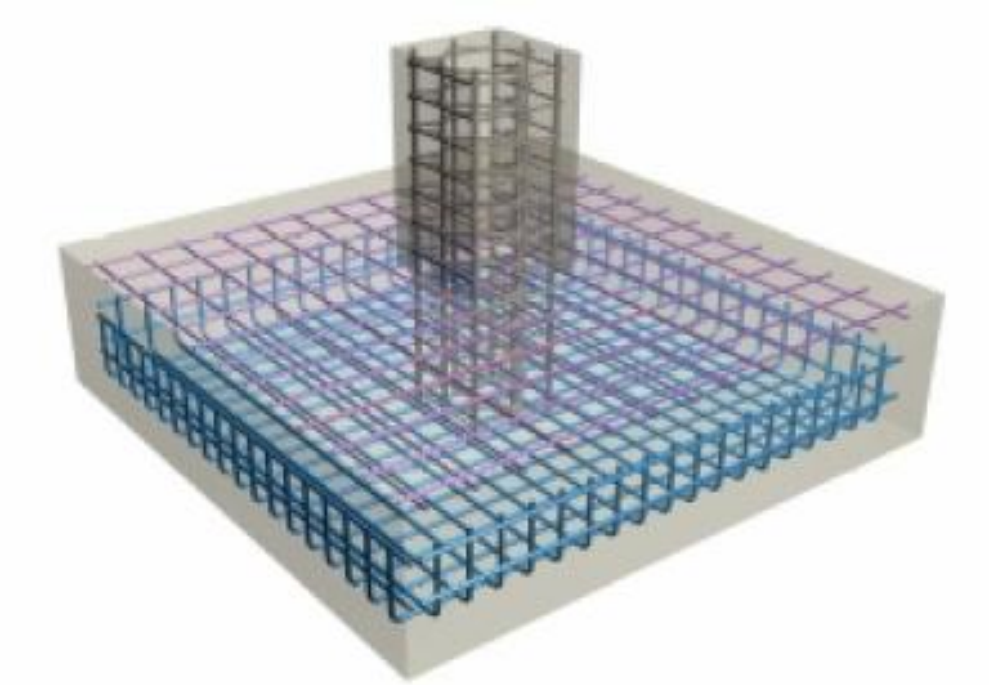


Armiranje elemenata građevina

Fleksibilni temelji samci

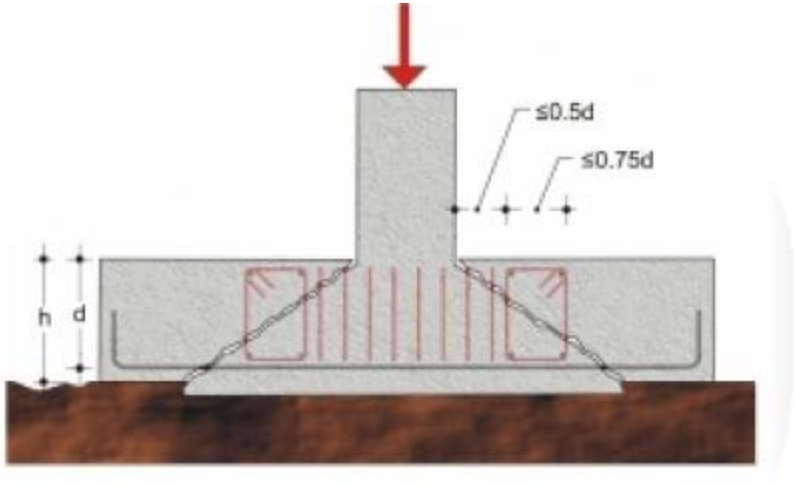
Armiranje elemenata građevina

Fleksibilni temelji samci



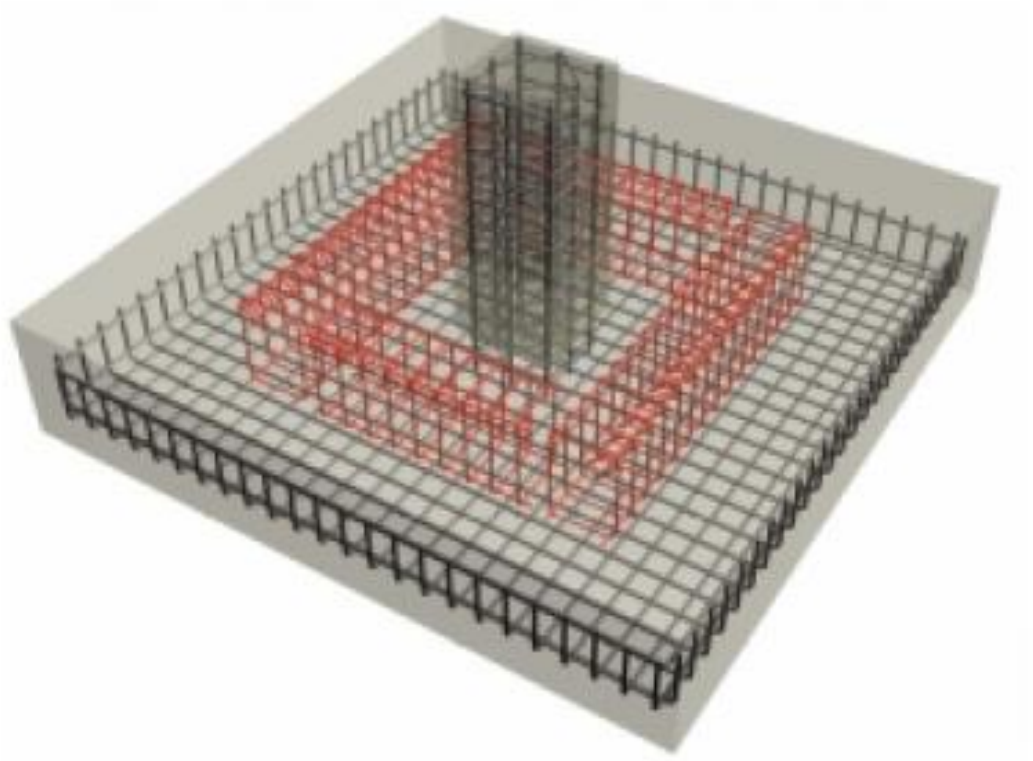
Armiranje elemenata građevina

-fleksibilni temelji samci mogu biti osjetljivi na problem proboja – mjerodavna posmična sila, a ne savijanje



Armiranje elemenata građevina

-temeljna stopa se dodatno armira sponama

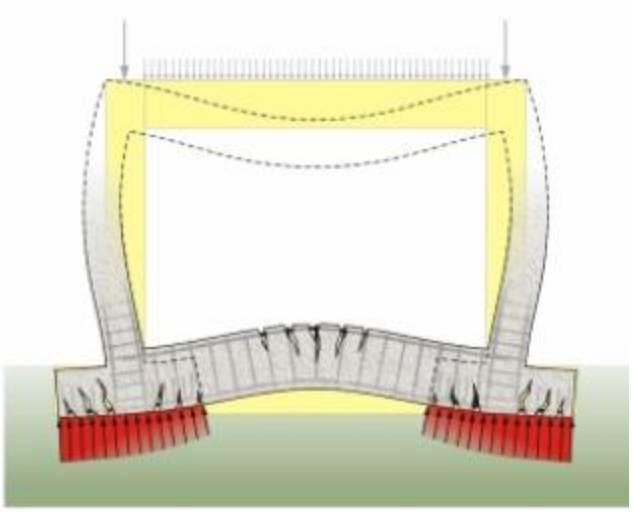


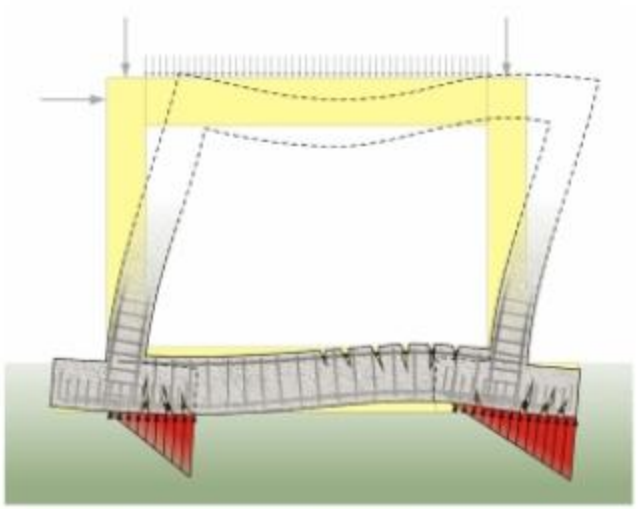
Armiranje elemenata građevina

Temelji samci sa spojnom gredom

Armiranje elemenata građevina

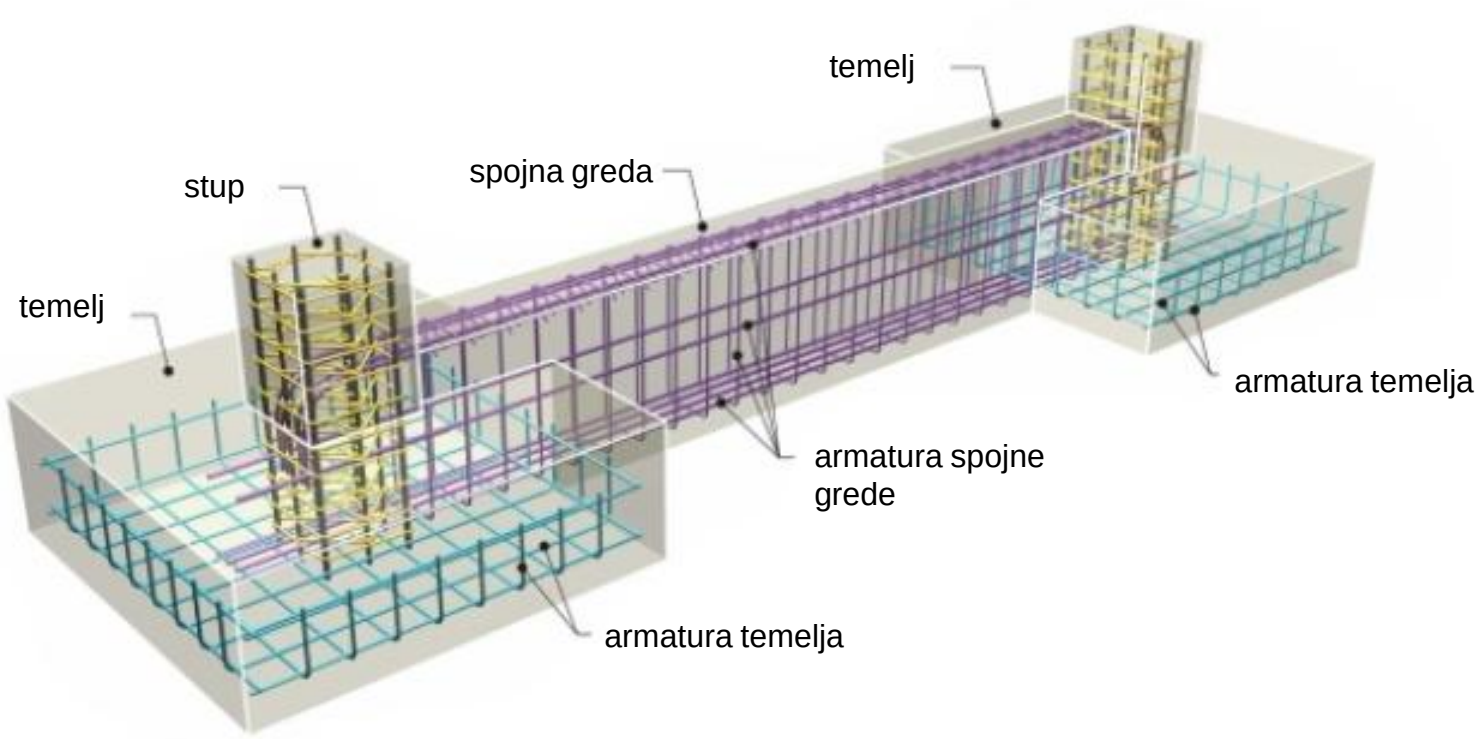
Ponašanje pri statičkom i dinamičkom (potresnom) opterećenju





Armiranje elemenata građevina

-armiranje temelja samaca i spojne grede

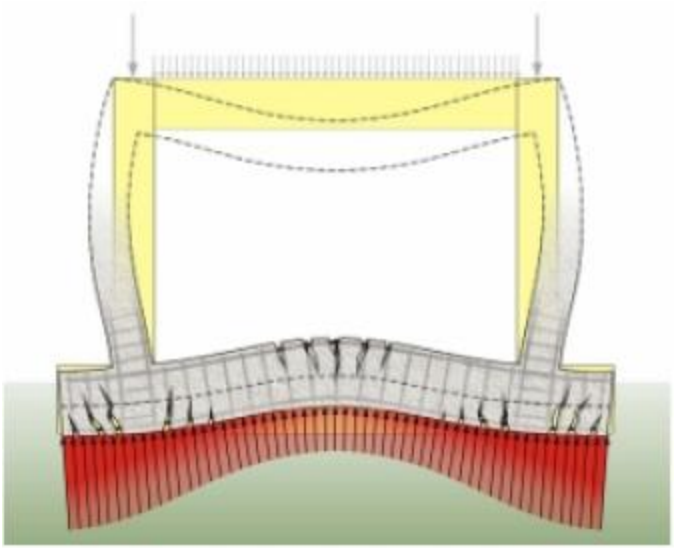


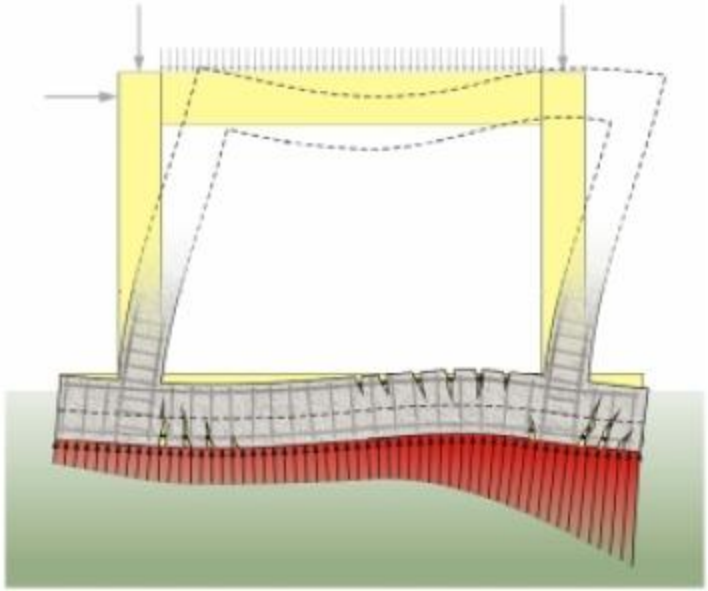
Armiranje elemenata građevina

Trakasti temelji

Armiranje elemenata građevina

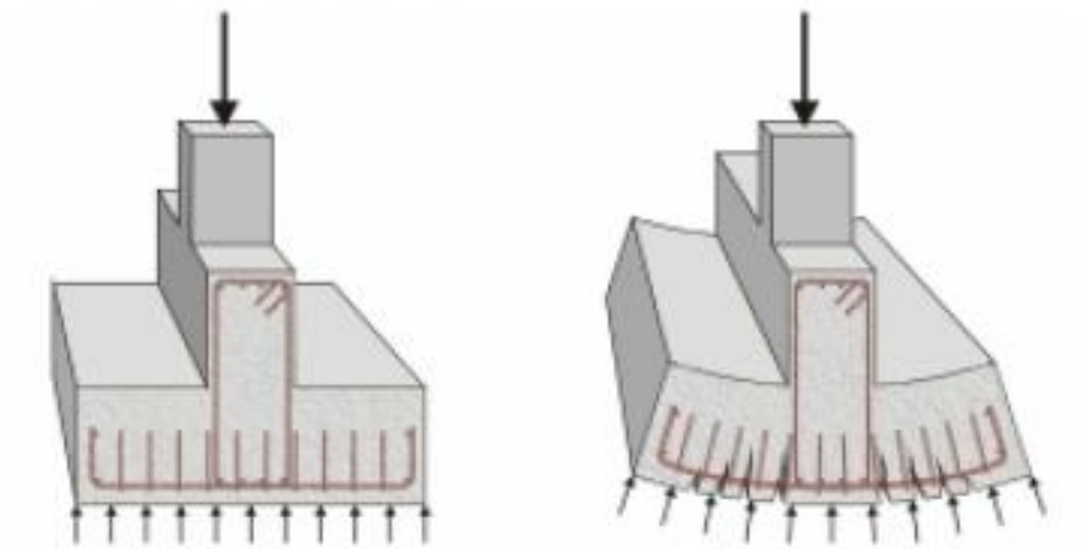
Ponašanje pri statičkom i dinamičkom (potresnom) opterećenju – uzdužni smjer





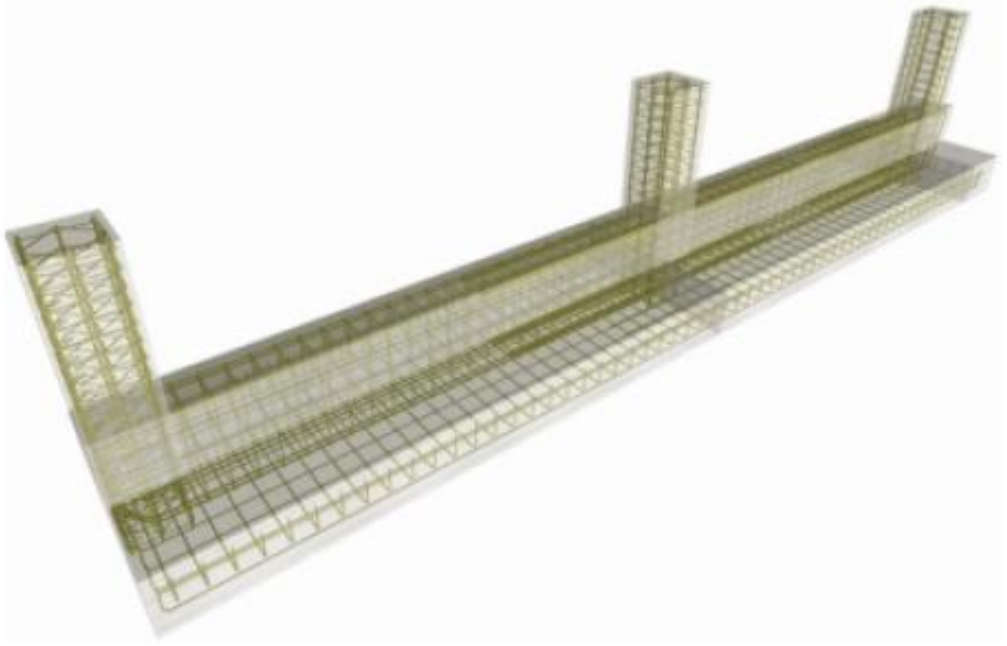
Armiranje elemenata građevina

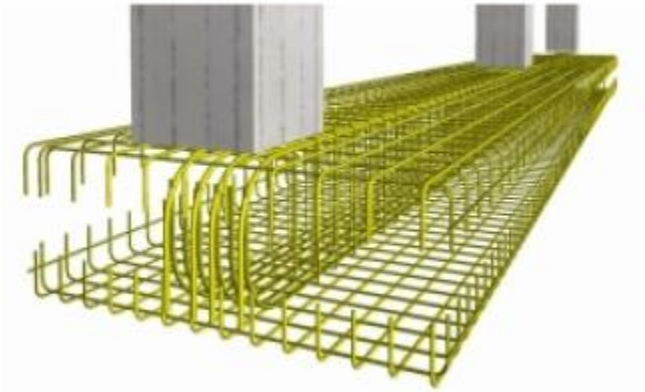
Ponašanje pri statičkom i dinamičkom (potresnom) opterećenju – poprečni smjer



Armiranje elemenata građevina

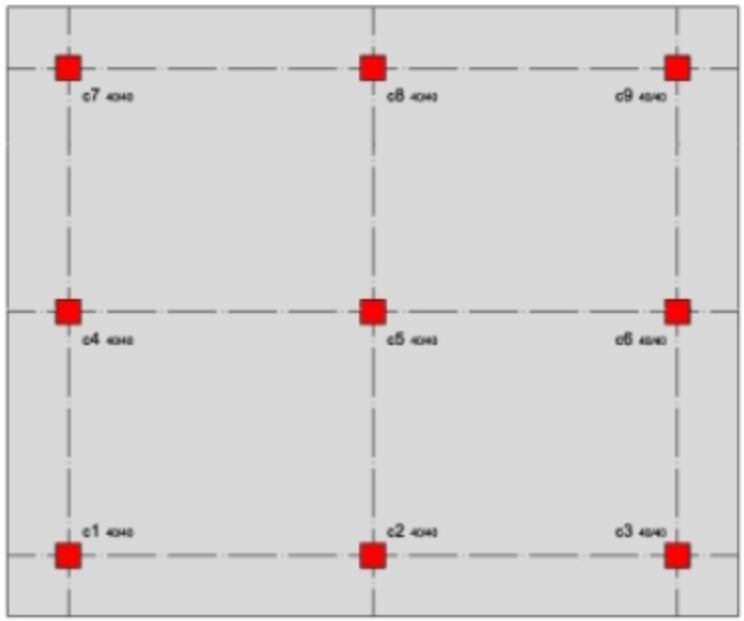
Armiranje trakastih temelja

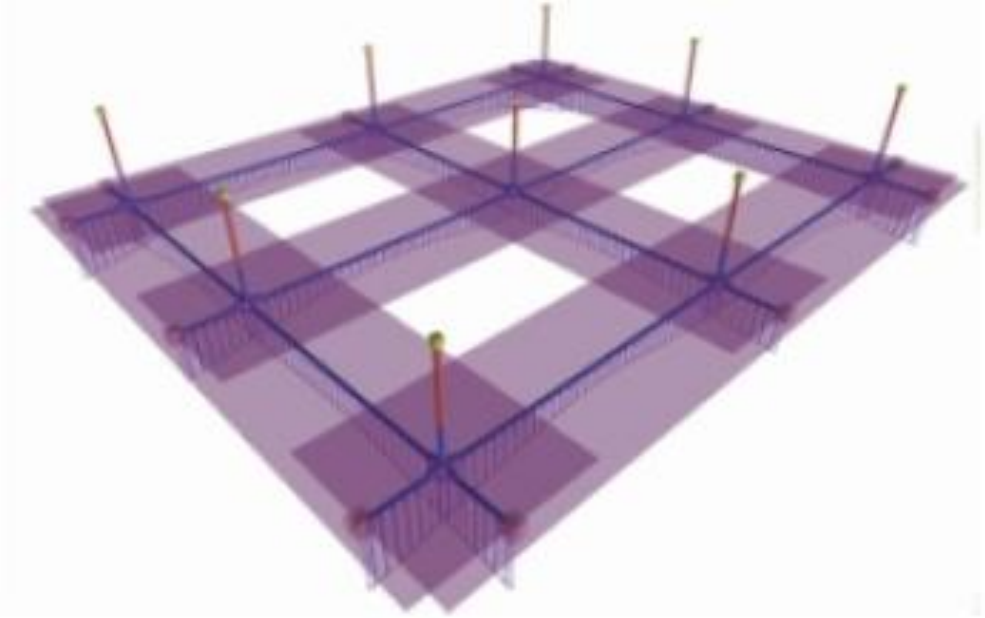




Armiranje elemenata građevina

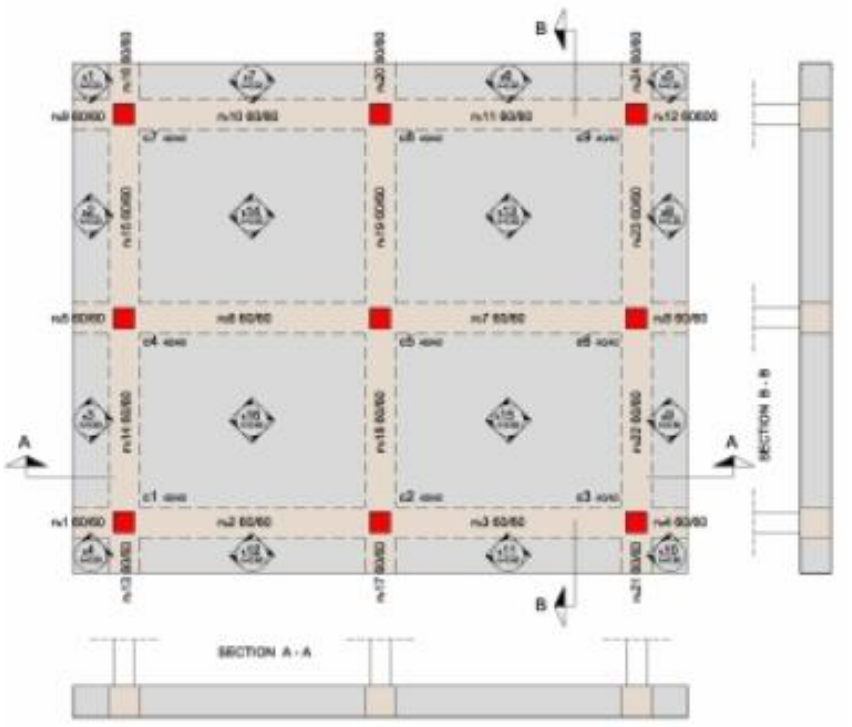
Temeljna ploča

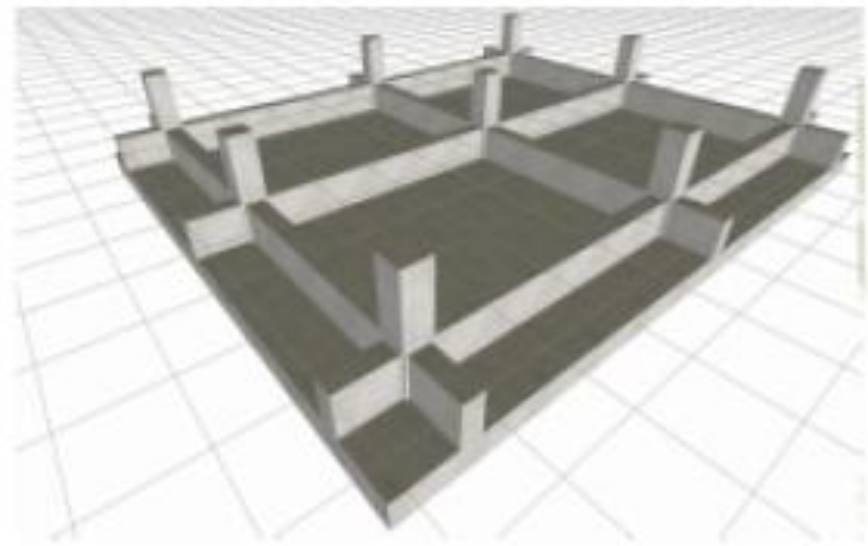




Armiranje elemenata građevina

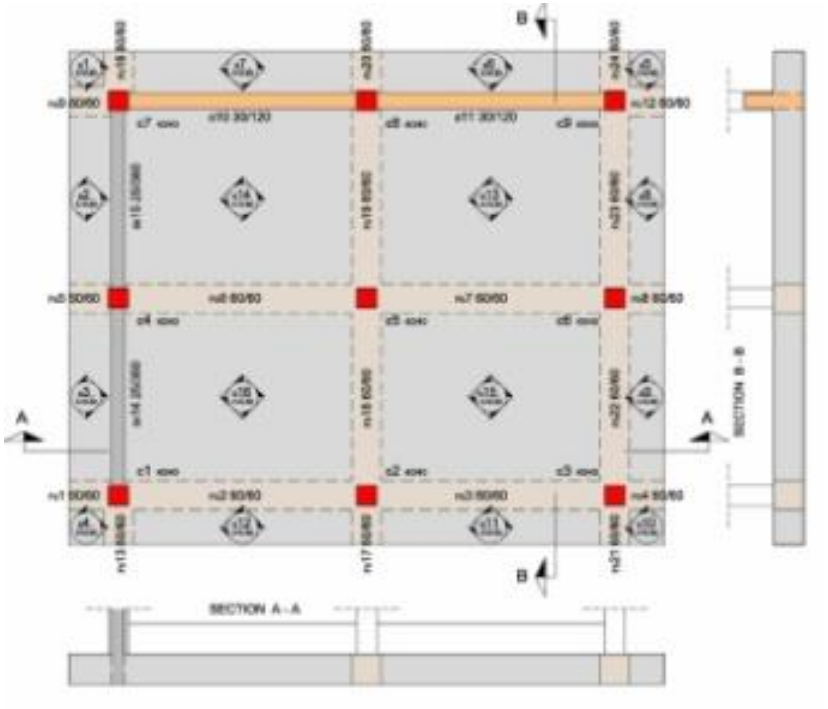
Temeljna ploča ojačana gredama

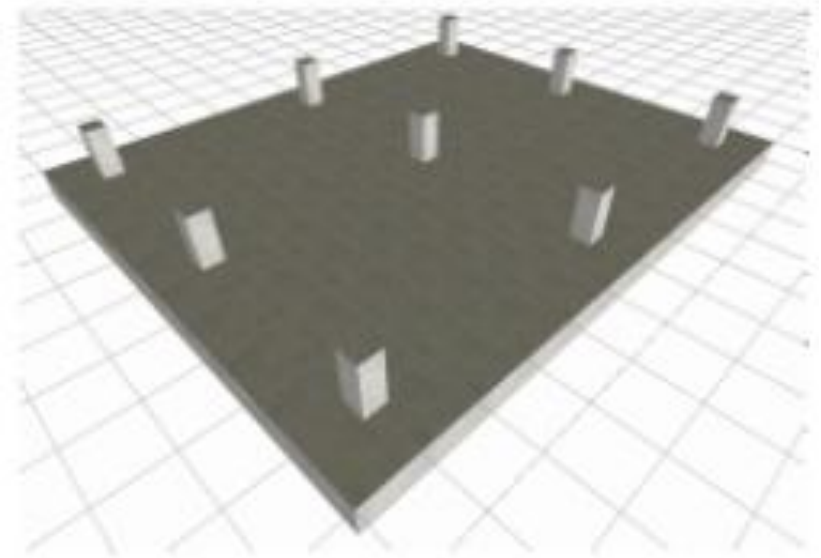




Armiranje elemenata građevina

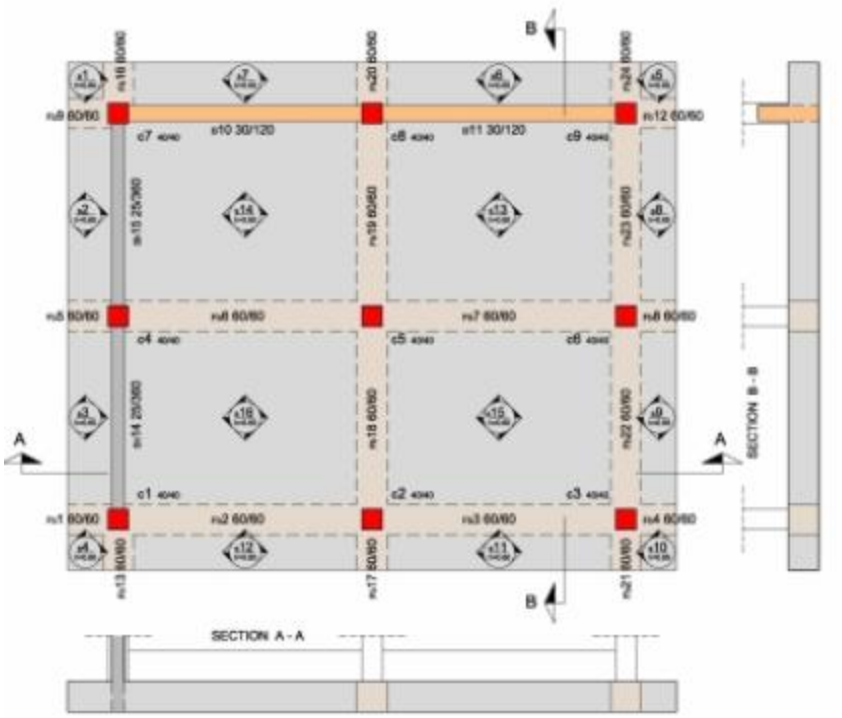
Temeljna ploča ojačana skrivenim gredama

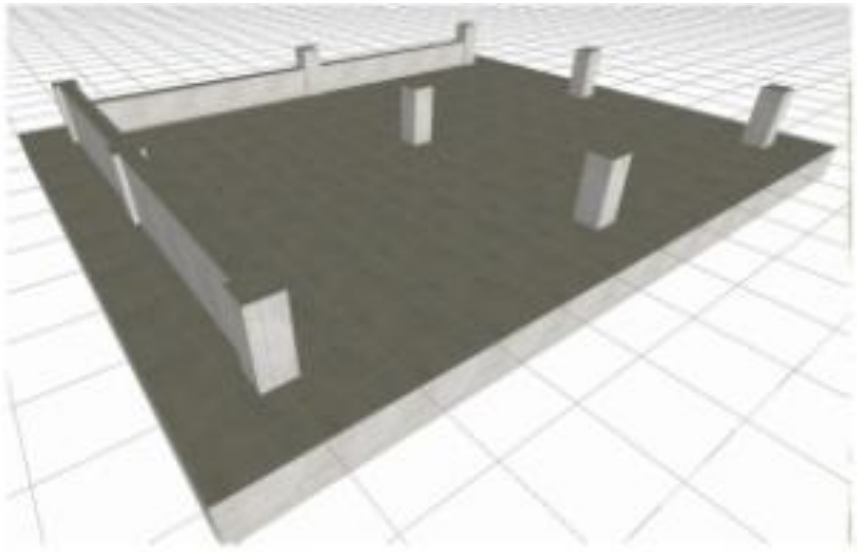




Armiranje elemenata građevina

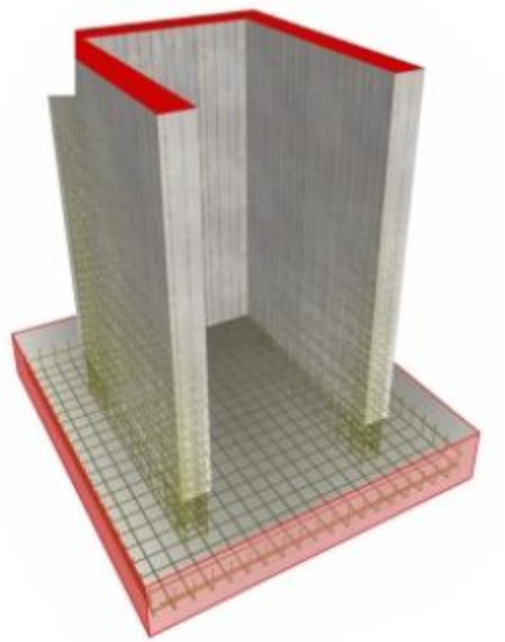
Temeljna ploča ojačana gredama – mješoviti sustav

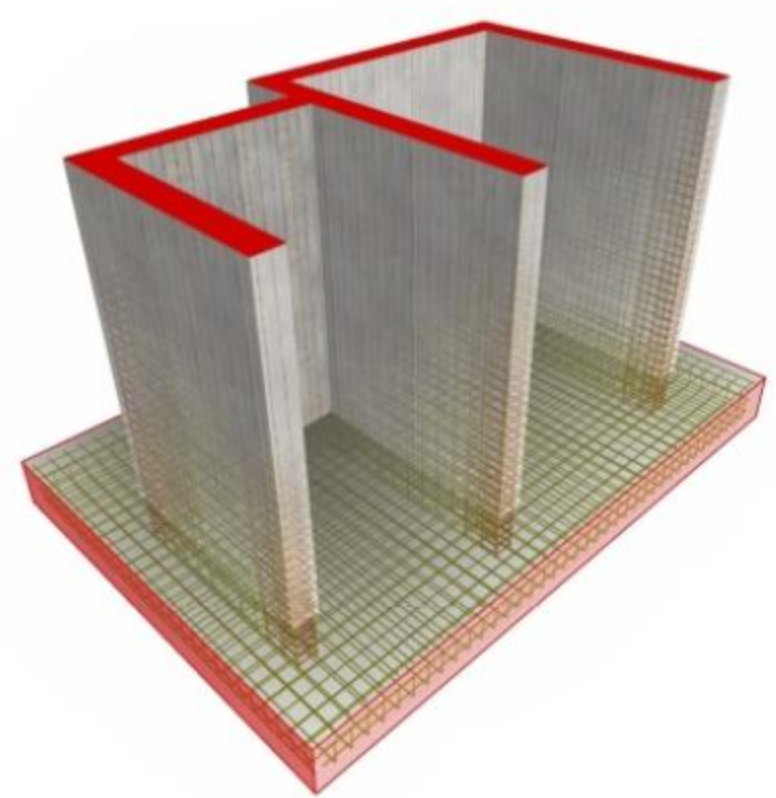




Armiranje elemenata građevina

Temeljno postolje





1. Nabrojati načine temeljenja i objasniti kada se koji način upotrebljava, skicirati
2. Skicirati primjere temelja samaca (simetrični i nesimetrični, kruti i fleksibilni)
3. Skicirati način armiranja fleksibilnog simetričnog temelja samca
4. Skicirati način armiranja trakastih temelja (u poprečnom presjeku)
5. Navesti razlike u ponašanju temelja samaca sa spojnom gredom i trakastih temelja okvira.