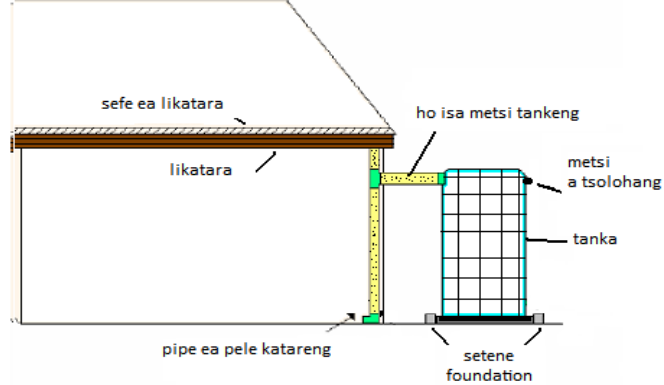


Ho Bokella Metsi Ka Mokhoa Oa Tsoelopele

Ho ka etsoa joang?

Metsi a pula a ka bokelloa ka ho fasa likatara mapolankeng a phethetseng marulelo, e le hore metsi a kene ka tankeng e tla behoa qetellong ea likatara tseo. Mokhoa oona o ka thusa haholo ka metsi a tsellang lijalo, a hlatsoang liaparo le a nooang ha metsi a hloekisitsoe pele. Ho latela limilimitara tsa pula e nang Lesotho tse balloang ho 700-800mm ka selemo, boholo ba eona e le hlabula, tanka ea metsi ea hlokahala ho bokella metsi a mangata a ka sebelisoang nakong ea Mariha.



Ho etsa hore tanka e sebetse nako telele.

Hore tanka e nke nako telele, e tlameha ho lula e hloekisoa ebile e sirelelitsoe. Bakeng sa likhoerere-khoere tse ka kenang ka tankeng, re kentse sefe kahara likatara, ra boela kenya pipe ea pele e tla tsela metsi a pele a hlatsiotseng marulelo, ra boela ra kenya pipe e koahetsoeng bakeng sa hore metsi a hloekileng a kene ka tankeng. Sekolong sa mathomo sa Masiamokeng L.E.C, re ahile lerako lerako la litene le lika-likanetseng tanka bakeng sa hore bana ba se e senye. Re boetse re kentse li loko e le hore pompo e sebelisoa ka tumello ea ba boholong. Haele kerekeng ea Ha Motlohelo re sebelisitse terata ho sireletsa tanka. Kamora khaho ea tanka, ho hlokahala hore e lule e hloekisoa le ho hlokomeloa bakeng sa hore e nke nako e telele e sebetse mme e fepela ka metsi.

LIKAROLO TSA EKHAKELETSI:

Sefe ea likatara

Lisebelisoa tsa bohlokoa tse khakeletsang metsi ke likatara tse fasoang qetellong ea morulelo. Likatara li fasa li pipe tse selikalikoe kapa tse sekoere tsa PVC. Pele o kenya likatara mapolankeng, hloekisa mapolanka, o ka sebelisa pente kapa carbolineum (e sebelise ka hloko e kotsi). Likatara li theohela kahara tanka ka 10° angle e le hore metsi a theohela kahara tanka. Bakeng sa porojeke ena , ea rona re sebelisitse ntho e methang ho etsa bonnete ba hore 10° angle e nepahetse. Ho etsa hore likatara li lule li hloekile selemo kaofela, re li koahetse ka sefe. Sefe ena e thusa ho bokella litsila le makhasi. Bakeng sa sefe ena, o ka e reka eaba oe khaole o li kokotelle finishing board. Sefe e ka fasetletsoa likatareng ka ho sebelisa rivets, lipekere, kapo teraka e bobebe (boseka).

Bakeng sa sekhakeletsi sa rona, re khokhothelletse lipekere mapolankeng, ra sireletsa sefe ka li krivets, ra nto etsa li pipe tse kenang ka tankeng.

Ho isa metsi tankeng

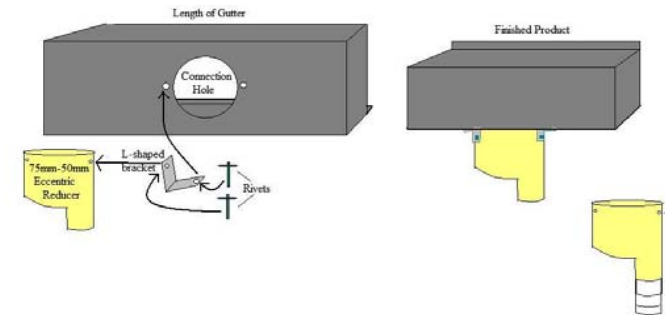
Ho latela lipatlisiso tsa rona, re fumane hore sekhakeletsi kapa tanka e butsoeng e ba litsila kapele ka baka la liphoofolo, likokonyana le marulelo a litsila .Ho fenyha bothata bona, re entse sekhakeletsi se koahetsoeng mme se kopantsoeng le likatara. Mathata ao rea fumaneng ho etsa sekhakeletsi sema ebile ho kopanya katara ea lesenke le li pipe PVC. Empa hao sebelisa li katara tsa PVC, bothata bo tla hlokahala. Le ha hole joalo likatara tsa lesenke li batla li le chipi, joale o ka sebelisoa mekhoha ena e meli e ka tlase

Likatara tsa lesenke ho li pipe tsa PVC:

Mekhoa e mmeli eo re e sebelisitseng ho etsa sena.

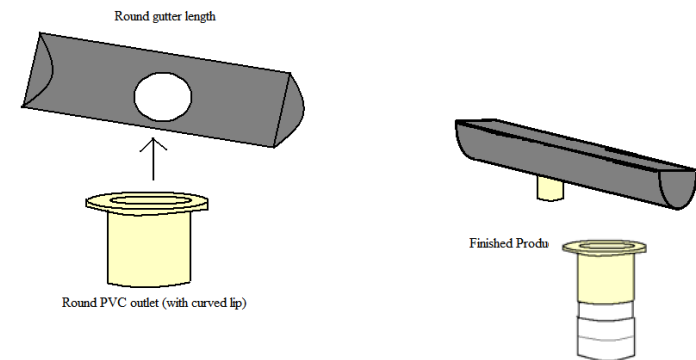
Kerekeng ea Ha Motlohelo , re entse lesoba le sekoere la boholo ba 75mm likatareng. Eaba li brackets tse entsoeng joalo ka tlhaku I le li rivets li sebelisoa ho sireletsa 75mm PVC likatareng. Glue easilicon ea sebelisa ho li kopanya.

Mohlala 1 (Kerekeng ea Ha Motlohelo):



Masianokeng Primary School teng re sebelisitse mokhoa o fapaneng le oa Motlohelo. Teng re entse lesoba le selikalikoe la boholo ba 75mm katareng ea lessnke, re sebelisa bolt cutter. Ra nto kenya PVC pipe e selikalikoe. Pipe ena e ka fumaneha "Build It" e Ladybrand. Le tsonr li ka kopangoa le kayara ka glue ea silicon.

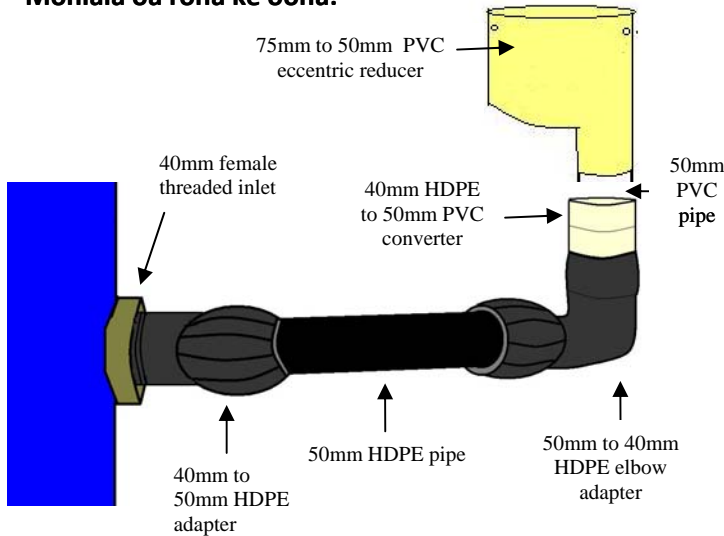
Mohlala 2 (Masianokeng Primary School):



Pipe e tlang ka tankeng:

Bakeng sa pipe e tlang metsi ka tankeng re ile ra fumana lisebelisoa tsohle le li adapter tse neng li hloka-hala. Ha feela ntho tsohle li le teng, metsi a tla kena a hloekile.

Mohlala oa rona ke oona:



Pipe ea pele katareng:

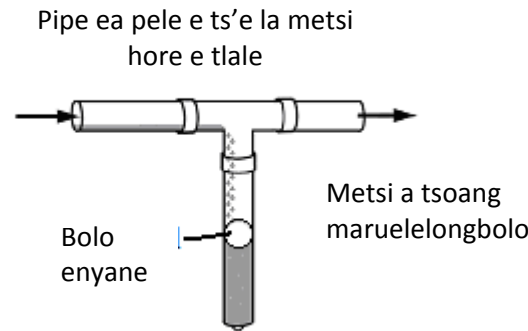
Pipe ena e khona ho nka metsi nakong eo pula e nang. Molemo oa eona ke ho ts'e la metsi a pele a lits'ila a tsoang marulelong e le hore a se fetele ka tankeng. Haa se a tletse metsi a hloekileng a ka fetela ka tankeng joale.

Ho metha hore na metsi a kenang ka moo a makae, o tlamaha ho metha sebaka sa ho tloha fatse ho ea marulelong. Bakeng sa 100 m² ea marulelo, sebelisa limithara tse nne tsa 110 mm ea pipe ea PVC. Empa hao sebelisa pipe ea PVC ea diameter e boholo bo fetang 110 mm o ka sebelisa pipe e khutsoa'nyane.

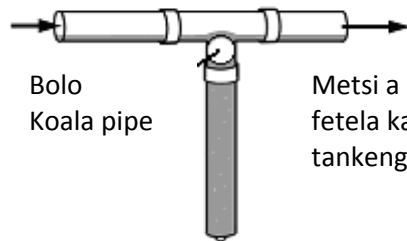
Pipe ena ea pele e faseletsa likatareng joaloka ka e isong metsi ha tankeng katara ea lesenke e kopango a le pipe ea PVC. Pipe e bolelele ba 110mm ea PVC e etsa 90°

degree e kobehile e be theohela tlase ka leboha. Li holdergat lia hloka-hala ho sireletsa pipe leboteng e le hore likatara li se e imele ha li na le metsi. Ebe ho kengoa bolo ea tenese kahara eona. Ha pula ena metsi a kena ka pipeng bolo ea nyoloha ho fihlela e fihla molomong oa pipe, e be e thiba moo hore metsi a hloekileng a fetele ka tankeng. Haeba pipe e cheketsoe fatse, etsa bonnete ba hore bolo e seke ea fihla lipipeng tse cheketsoeng. O ka sebelisa terata ho koala selikalikoe se ka tlase kapa oa tlosa ka glue ho thibelo ba bolo.

Mokhoa oo e sebetsang ka oona:



Metsi a tletse joale a fetela ka tankeng



Qetellong ea pipe ena ho na le sekoaelo seo o ka se tlosang ha bobebe hao e hloekisa. O seke oa koala sekoaelo ka thata e le hore metsi a nne a tsoe butle.

Foundation ea Tanka:

Foundation e matla ea hloka-hala bakeng sa tsi'reletso ea tanka. Haeba tanka e tlo behoa mobung, foundation e chekoe pele. Bakeng sa tanka a boholo ba 5000L, sekoti se chekoang se tlameho ho ba botebo ba mithara (1m). Sekoti sena se tseloe gravel e be ho behoa wire mesh kaholimo. Motsoako oa konkoreiti o latele. Motsoako oona o etsoe ka part tse tharo tsa konkoreite, tse peli tsa lehlabathe le e le ngoe ea samente. Etsa lerako la litene le sekoere ka holimo ho mo o ka holimo tse' gravel le wire mesh. Emela foundation ho oman kamora bonyane lihora tse 24, joale o ka kenya tanka. Tanka e ka faseletsoa foundationeng ka terata. Haeba o nahana hore tanka e tla senyeha kapa ho chesoa ke letsatsi lerako la litene le ka ahoa ho potoloha tanka.

Sekopti se etsoang tlasa pompo:

Se thusa ho bokella metsi a ntseng a rotha pompong e le hore a se etse metsi a monyepere kathoko ho tanka. Hona ho boela ho thusana le ha tanka a tletse haholo. Ho esta sekoti sena cheka sekoti sa 30 cm botebo Tsela majoana. Sebelisa litene ho etsa sekoere. Tsela mobu.



Kea leboha!

Mokhoa Oa Ho Hlokomela Sekhakeletsi Sena



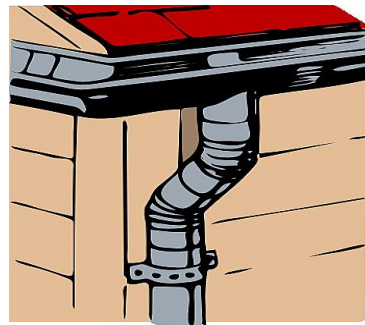
Ho etsa bonnete ba hore sekhakeletsi se sebetsa nako e telele, ho bohlokoa ho se hlokomela le ho se tsotella.

Likatara

- ✓ KHOELI E NGOE LE E NGOE, sheba rusi le masoba a ka bang teng. Sebelisa glue ea silicon ho kata masoba likatareng. Etsa bonnete ba hore lukatara li ntse li fasehile mapolankeng, le hore mpolanka haa so bole.

Sefe ea Likatara

- ✓ KHOLE E NGOE LE E NGOE, etsa bonnete ba hore sefe eo hae ea senyeha kapa hona ho bokella makhasi a lifate. Ha makhasi a le teng metsi a keke a tsamaea ka bolokolohi. Fiela sefe eo ho e hloekisa. Ha sefe e senyehile, kenya e ngoe. Ke sefe e entsoeng ka literata e ka sehoang bophara bo 25-30cm e leng sebaka sa ho koahela katara kahare. Sefe ena e ka fumaneha Thetsane Hardware kapa li hardware tse ling tse haufi.



Pipe ea pele katareng:

- ✓ Kamora Pula e ngata, pipe ea pele e tlameha ho hloekisoa. Bula sekoaelo se qetellong ea pipe ho nts'a metsi a salletseng ka piping. Nts'a likhoere-khoere, koala ho etsa hore metsi a se tsoe moo ha pula e ena.

Sekoti se Entsoeng Tlasa Pompo

- ✓ KHOELI E NGOE LE E NGOE, sheba hore na sekoti se tlasa pomp ha se ea mela litlama na. Hkoekisa moo, o nto ts'ela mobu o mocha ho etsa hore o nne o monye metsi.

Tanka

- ✓ HANG KA SELEMO, hloekisa tanka ho thibela ho mela ha bacteria le ho mela ha bolele.
- ✓ Hao hloekisa tanka, se ke oa kena kahare. Qala ka ho nts'a metsi oohle a ka tankeng ebe o koala pompo. Ho bohlokoa ho emela hore metsi a fele ka tankeng nakong ea komello, ebe joale o ka e hloekisa. Nts'a litsila tse kahara tanka ka ho li hlatsoa ka metsi. Nts'a metsi a ka tankeng le bolele bo fatse ka ho bula spigiot. Sebelisa lipilisi tsa chlorine ho tlosa mafu kappa lits'ila tse kahara tanka. O ka sebelisa le bleach (khabana ea bleach kahara lithara ea metsi) ebe oa li kopanya. Ha metsi a kahara a se ts'etsoe chlorine, tloehla motsoaka oa chlorine kahara tanka lihora tse 3 ho isa ho tse hlano. Nts'a motsoako oo ebe o ts'ela metsi a hloekileng. Nts'a metsi ao ho fihlela ho se ho sena monko oa chlorine. Joale o ka boela oa sebelisa tanka!
- ✓ Ha ho ka ba le matsatsi a mmolaa ao boemo ba leholimo bo bang katlasa 0°C, metsi a ntsoe ka tankeng, e le ho thibela hore metsi ho etsa leqhoa le ka etsang ho phatloha hoa pompo.

Kea leboha!

Marielle Schweickart

mcs8@rice.edu

Maggie Murphy

maggie.murphy@rice.edu