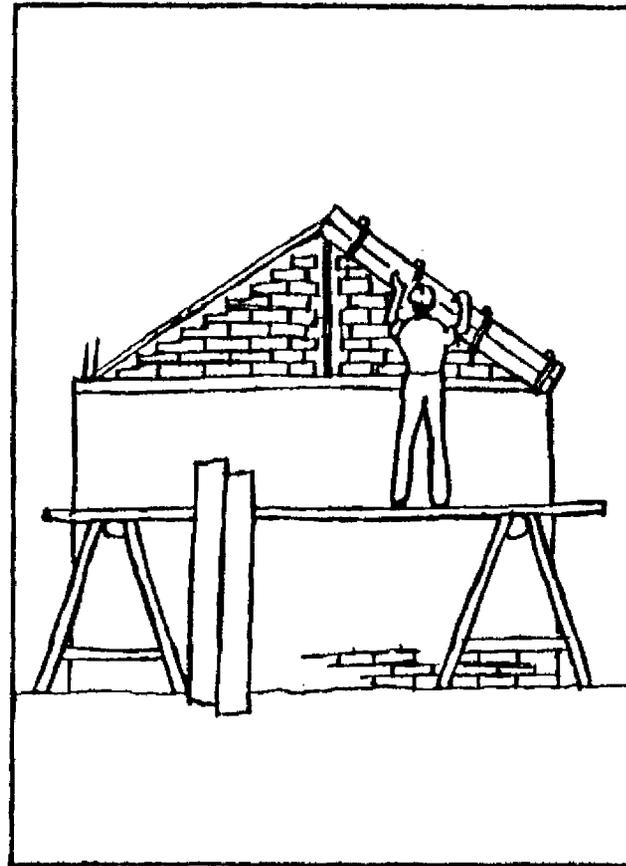


COMO CONSTRUIR UNA CASA SEGURA DE LADRILLO



SENA

(Servicio Nacional de Aprendizaje)

Programa de Reconstrucción

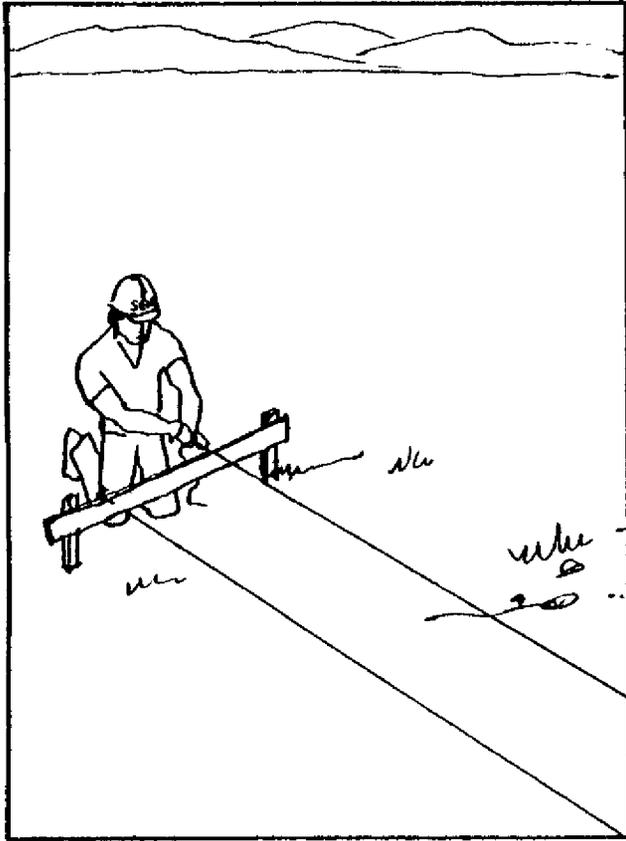
Colombia, 1983

SERVICIO NACIONAL DE APRENDIZAJE "SENA"
REGIONAL DEL CAUCA
PROGRAMA DE RECONSTRUCCION

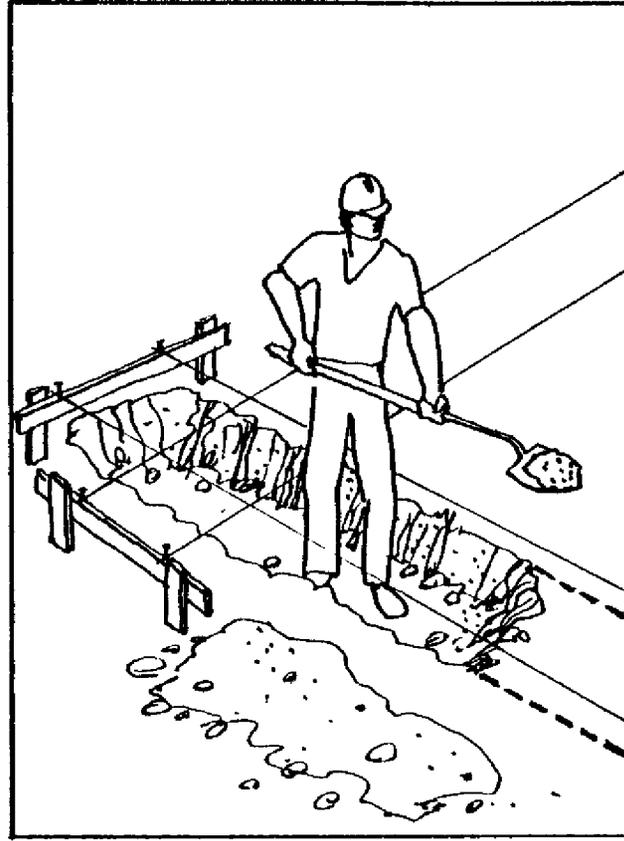
COMO CONSTRUIR UNA CASA SEGURA DE LADRILLO

ELABORADO POR: "INTERTECT": ESPECIALISTAS INTERNACIONALES EN RECONSTRUCCION
JAMES VIETS: Dibujante
COLABORACION DE: GERARDO OVIDIO AGREDO: Dibujante
Popayan, septiembre de 1983

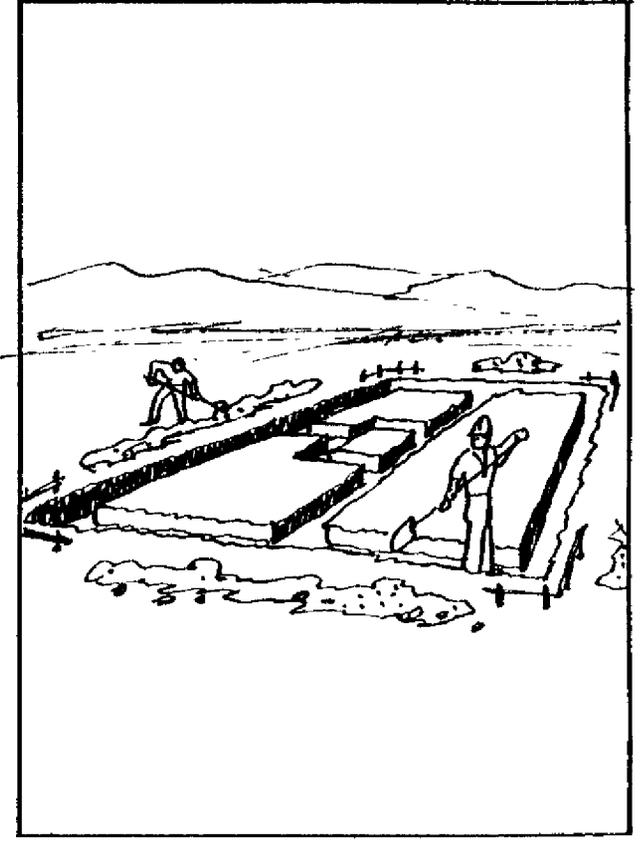
TRAZAR Y HACER EXCAVACION



Trace y tienda hilos

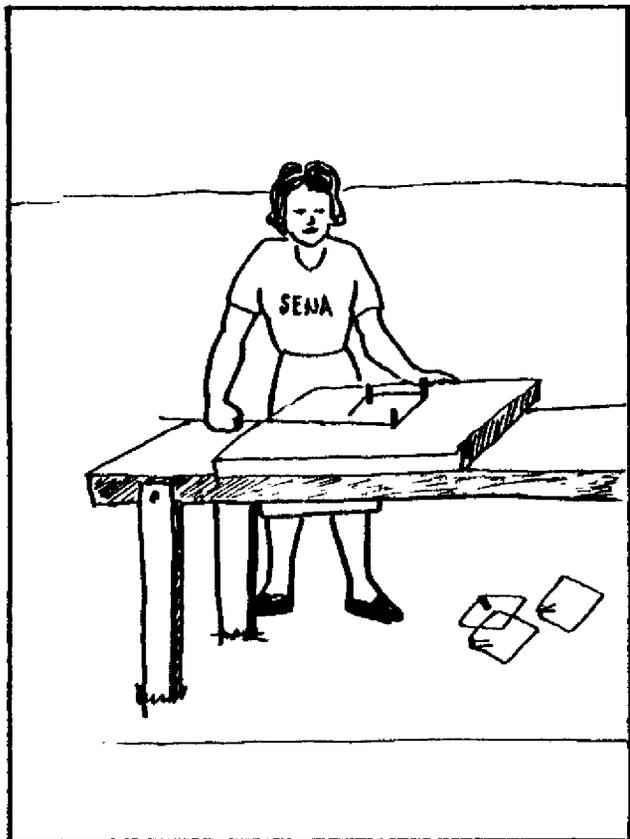


Marque en el terreno y haga excavación

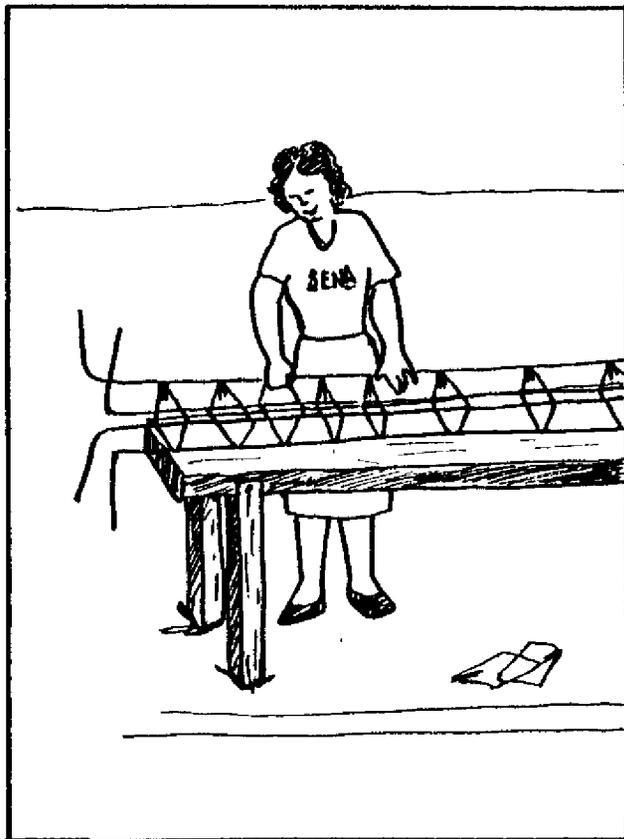


Perfile y nivele excavación

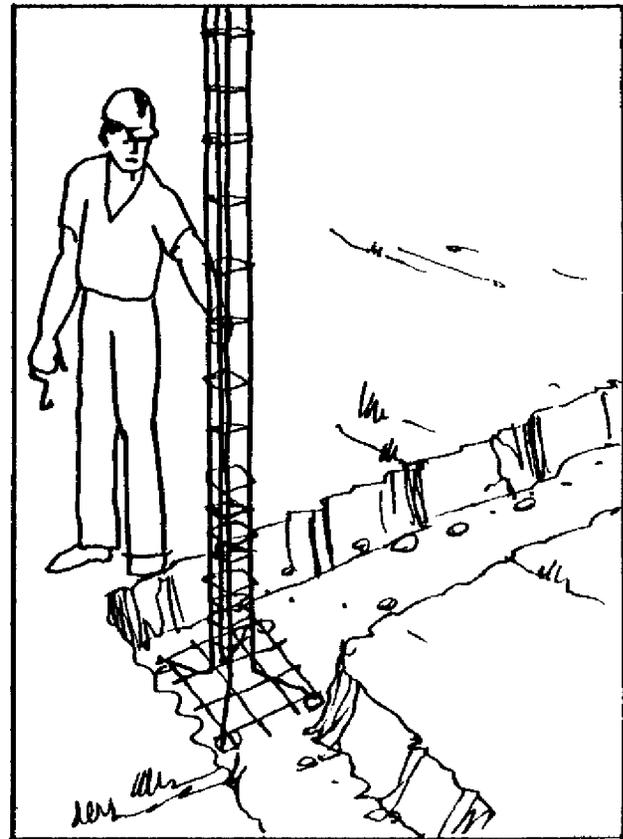
CONSTRUIR ARMAZON PARA COLUMNAS



Fleje los estribos

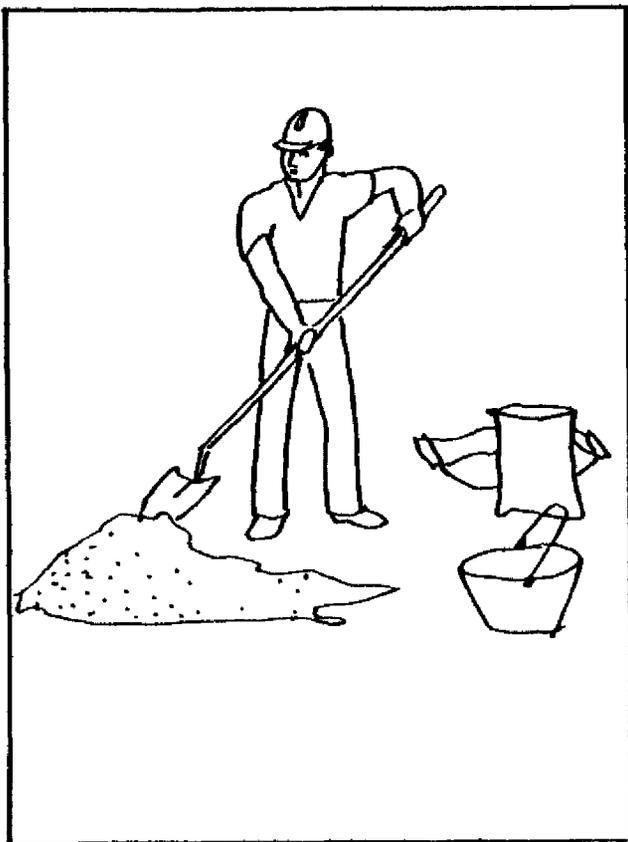


Amarre Castillo (canasta)

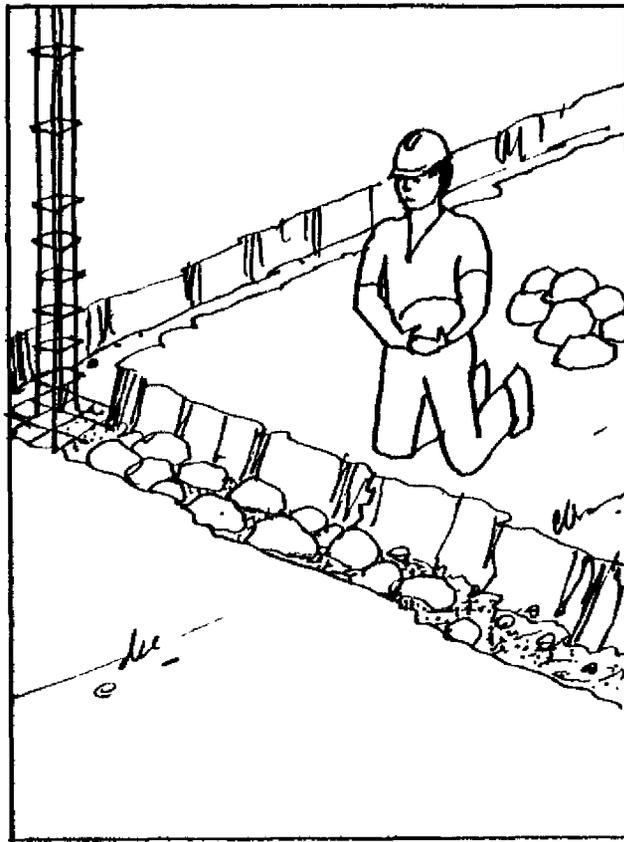


Ubique el castillo (armazón)

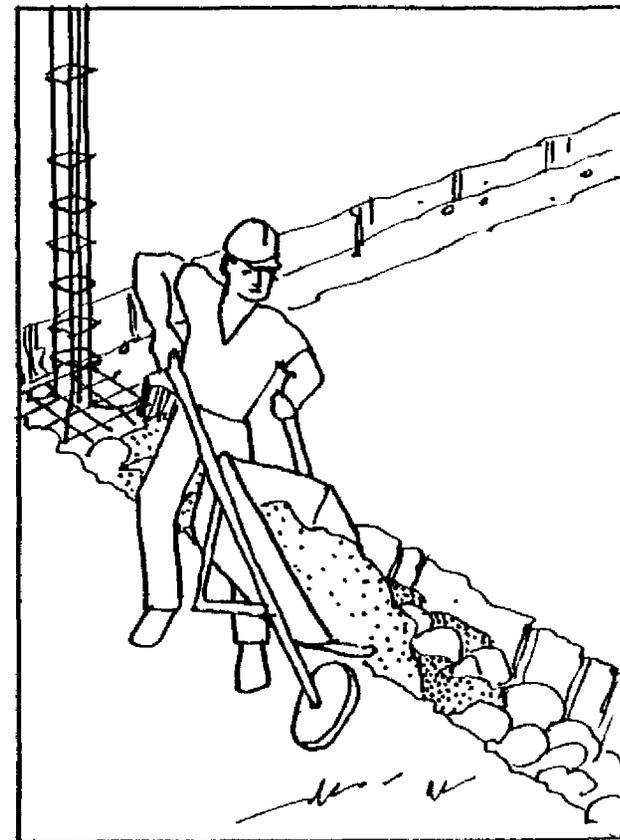
CONSTRUIR CIMENTO CICLOPEO



Prepare mezcla (hormigón)

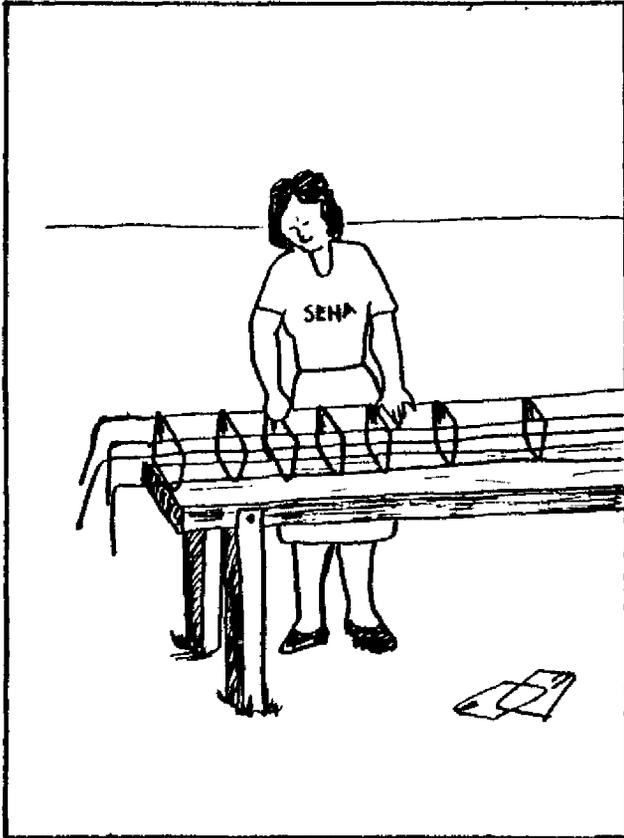


Haga solado y acomode primera capa de piedra

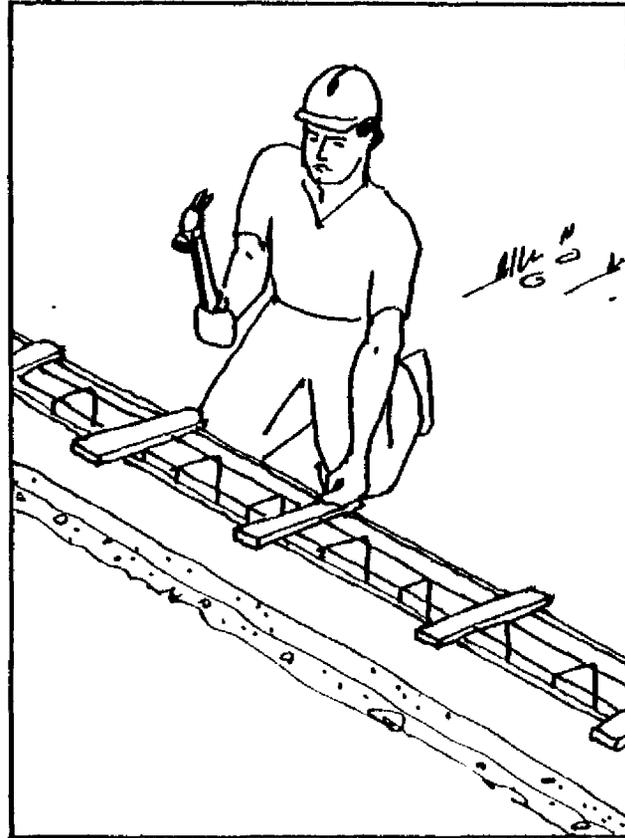


Vacie y vibre capa de hormigón

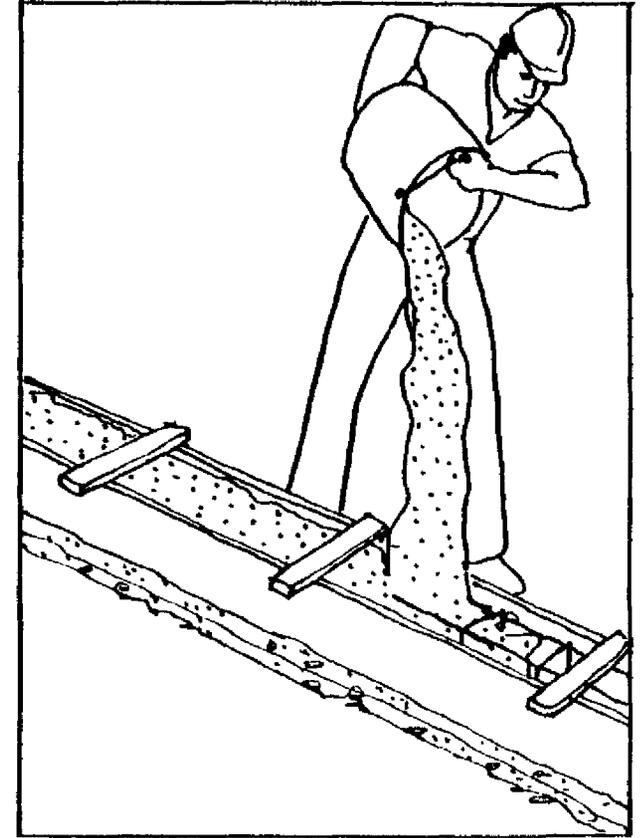
CONSTRUIR VIGA DE AMARRE (SOBRECIMIENTO)



Construya armazón viga

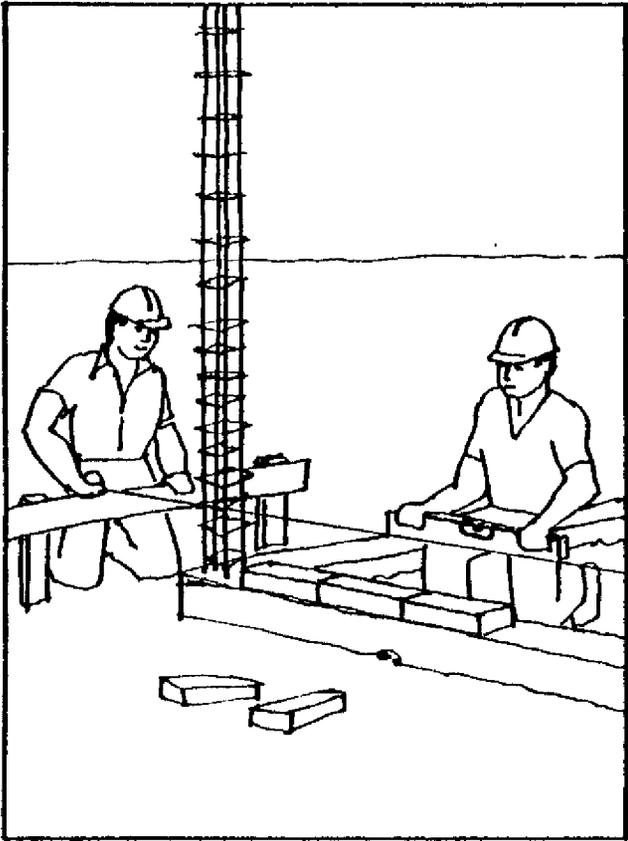


Construya formaleta (encofrado)

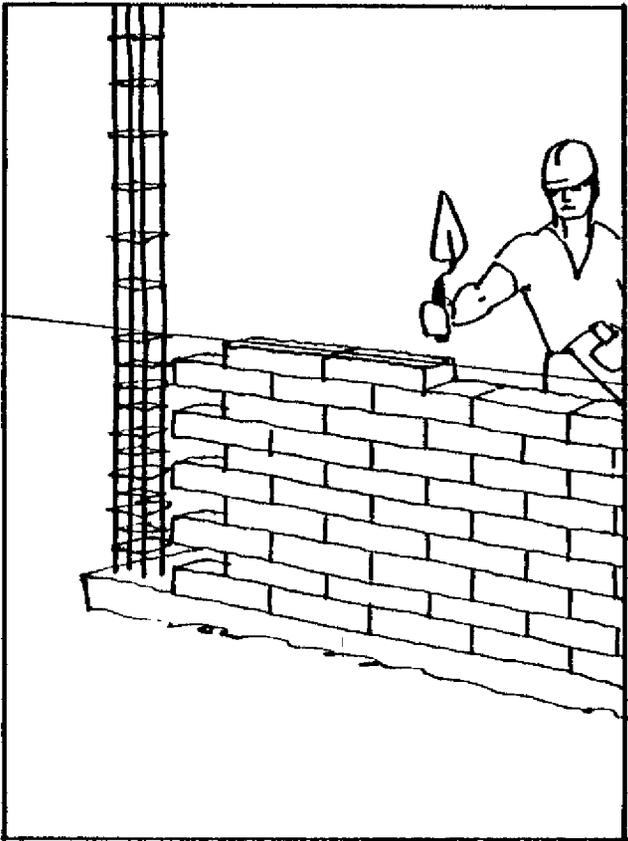


Vacie y vibre hormigón (funda viga)

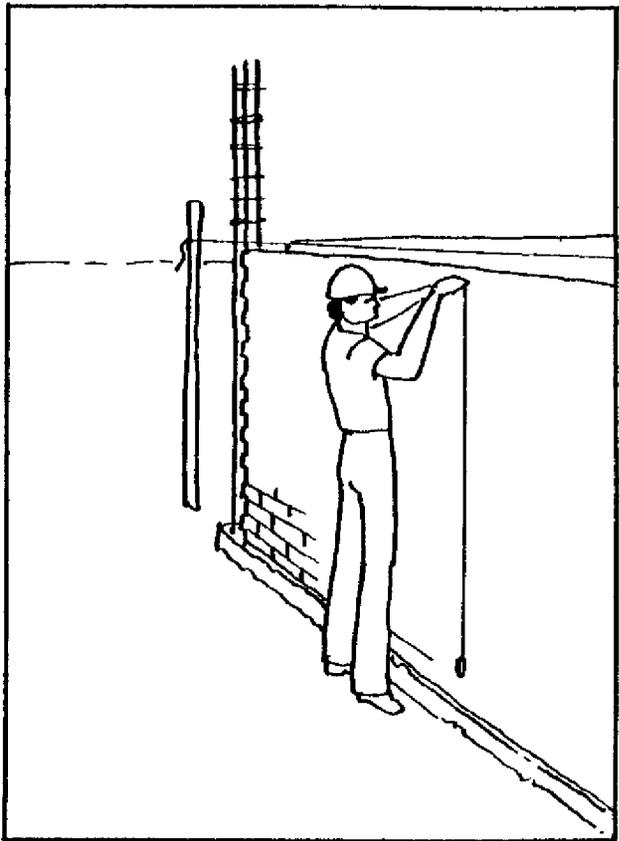
CONSTRUIR PARED (MURO)



Levante puntos

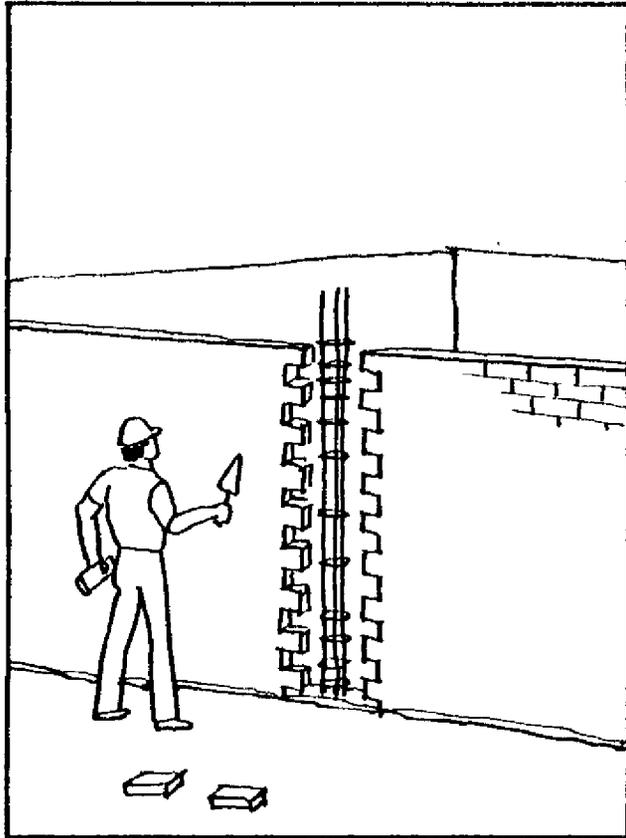


Pegue y nivele el ladrillo guiándose por el hilo

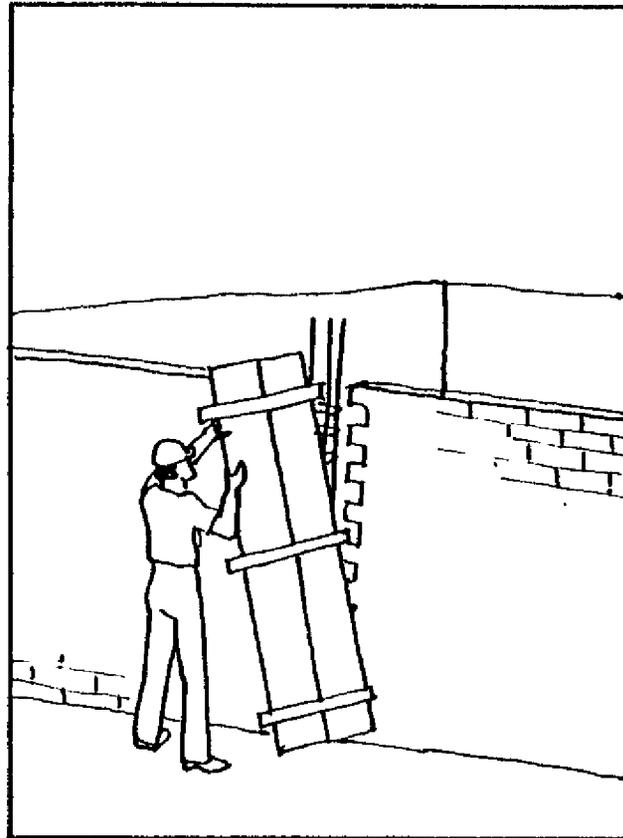


Rectifique plano del muro

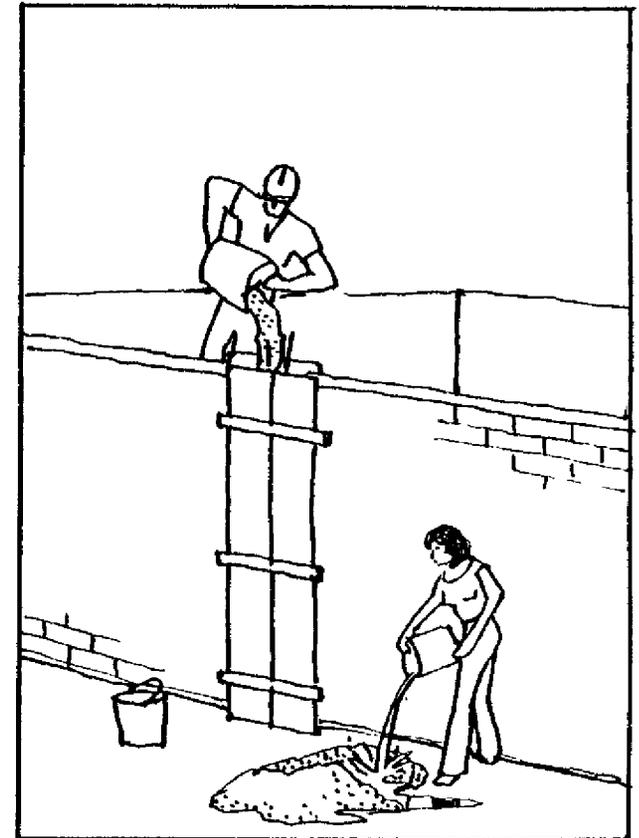
CONSTRUIR COLUMNETAS



Verifique armazón (castillo)

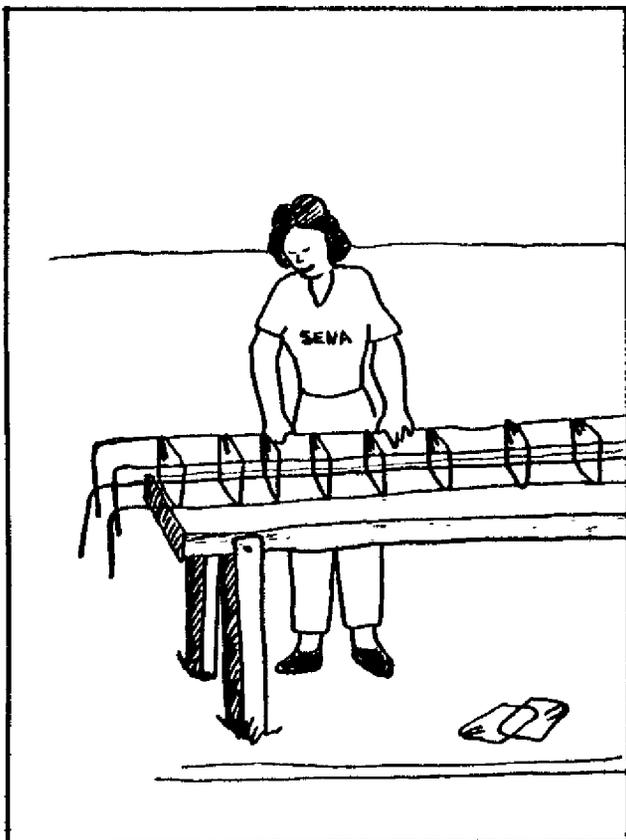


Coloque formaleta (encofre)

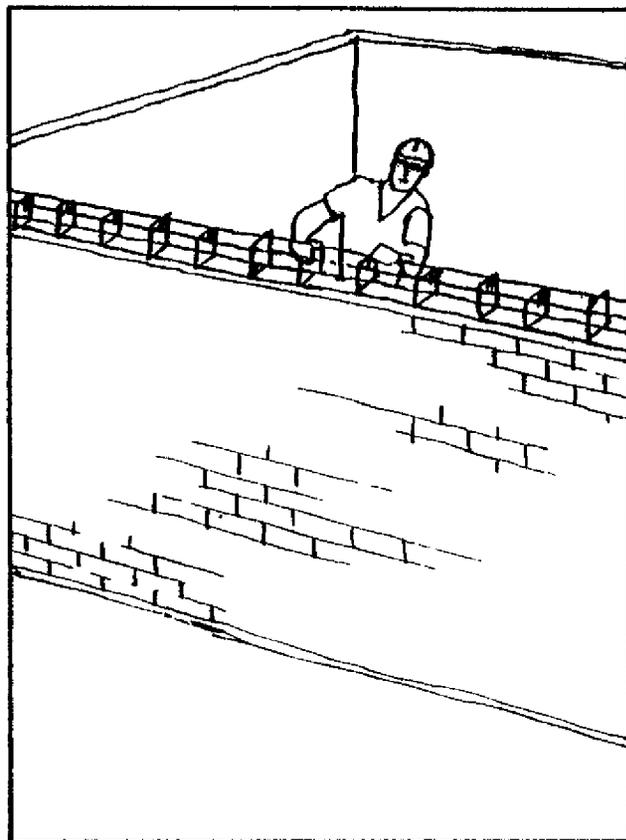


Funda columneta

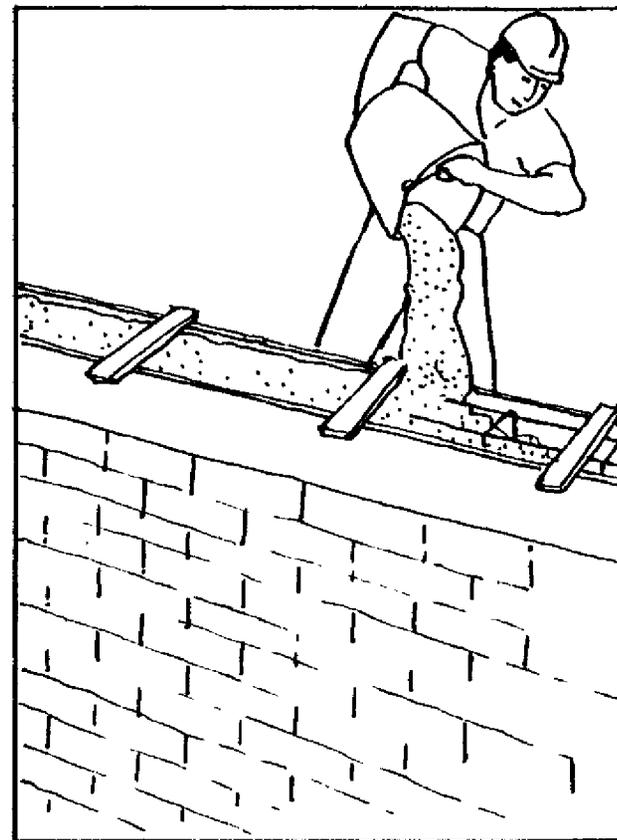
CONSTRUIR VIGA AMARRE SUPERIOR



Construya armazón viga

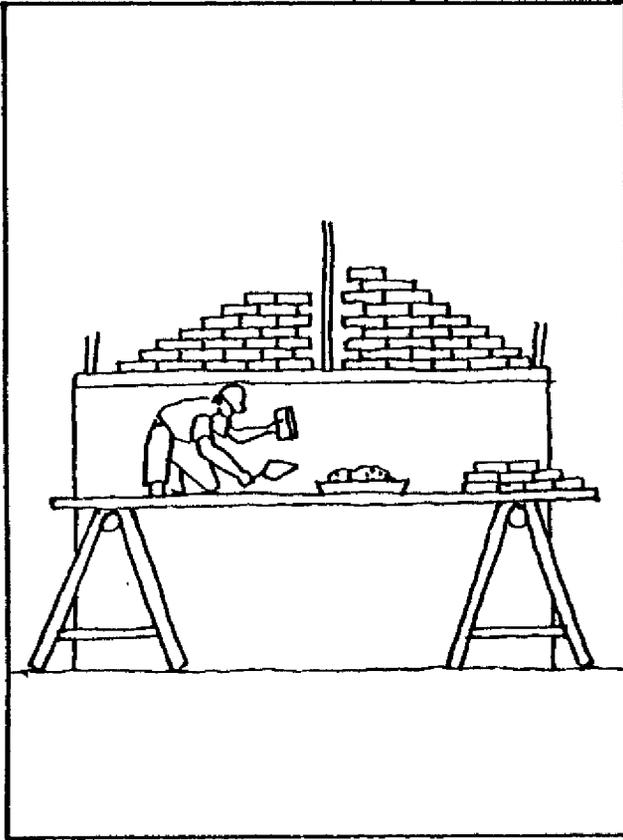


Coloque armazón sobre muro

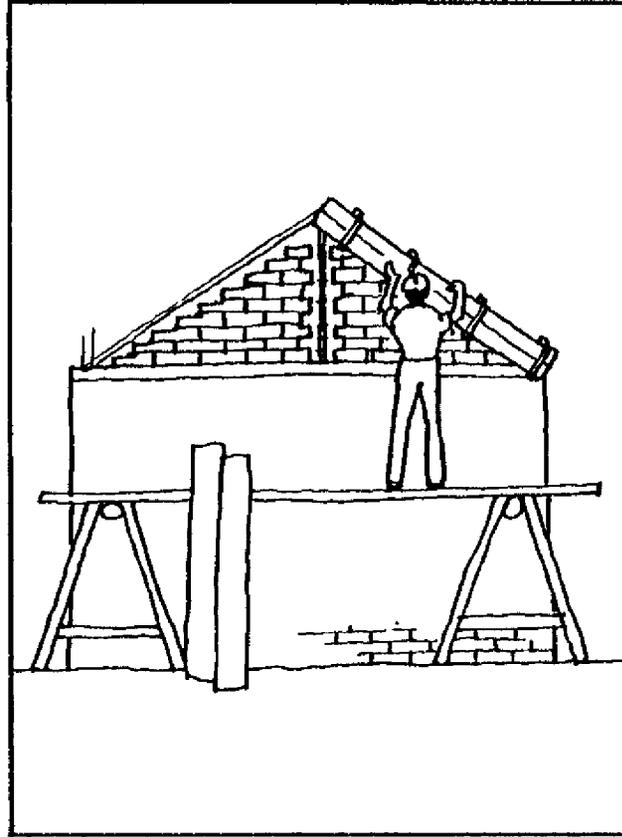


Funda viga superior (perimetral)

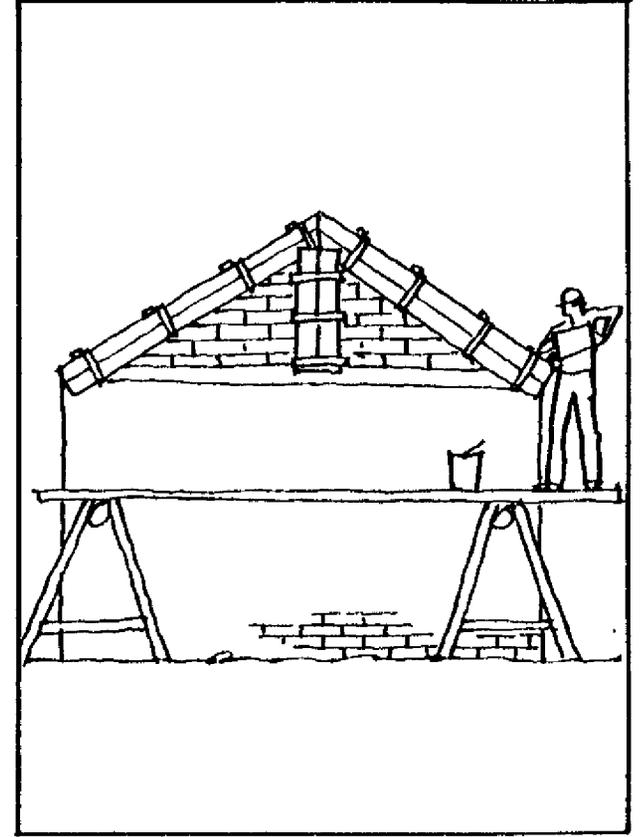
CONSTRUIR CULATA (MOJINETE)



Levante muro para culata



Formaletee (encofre) viga de corona y columneta

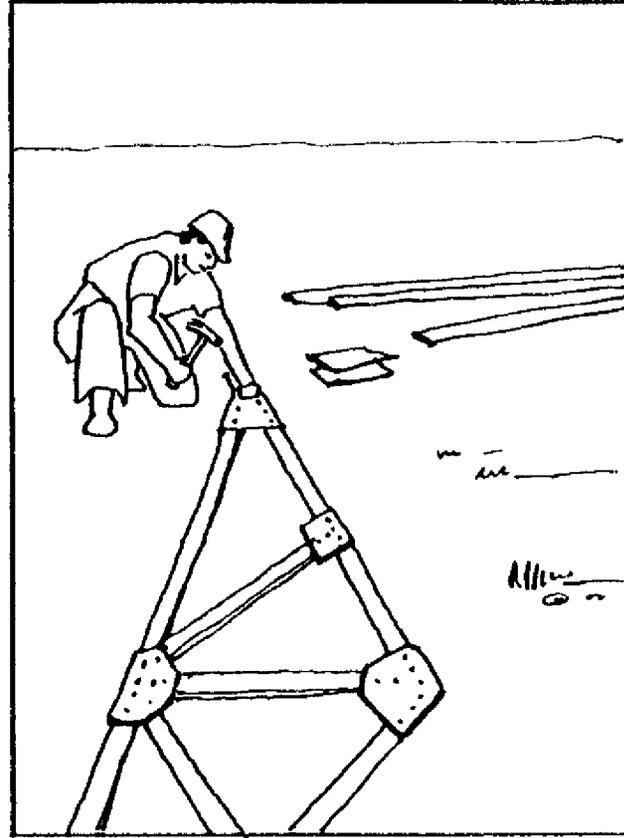


Coloque ganchos (pelos) y funda

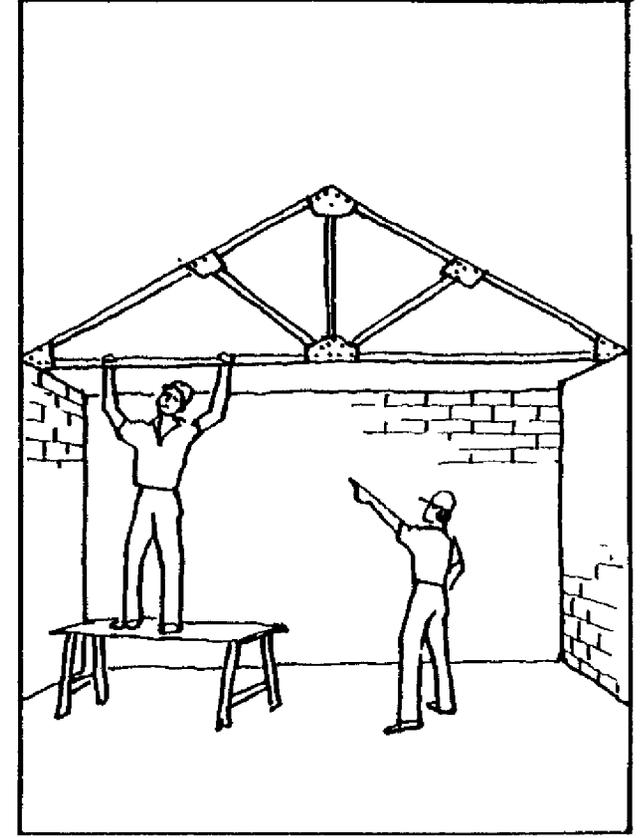
CONSTRUIR CERCHAS



Prepare madera



Arme cercha

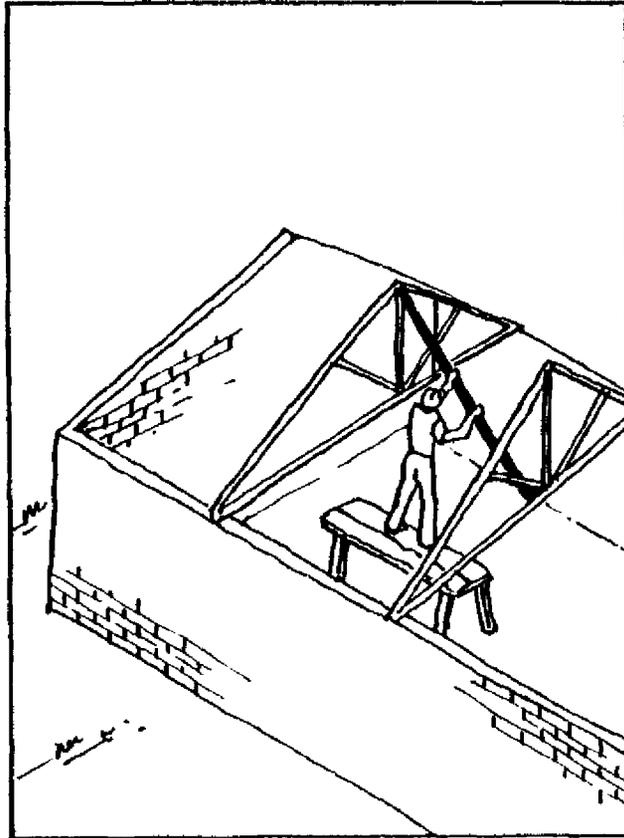


Coloque cercha

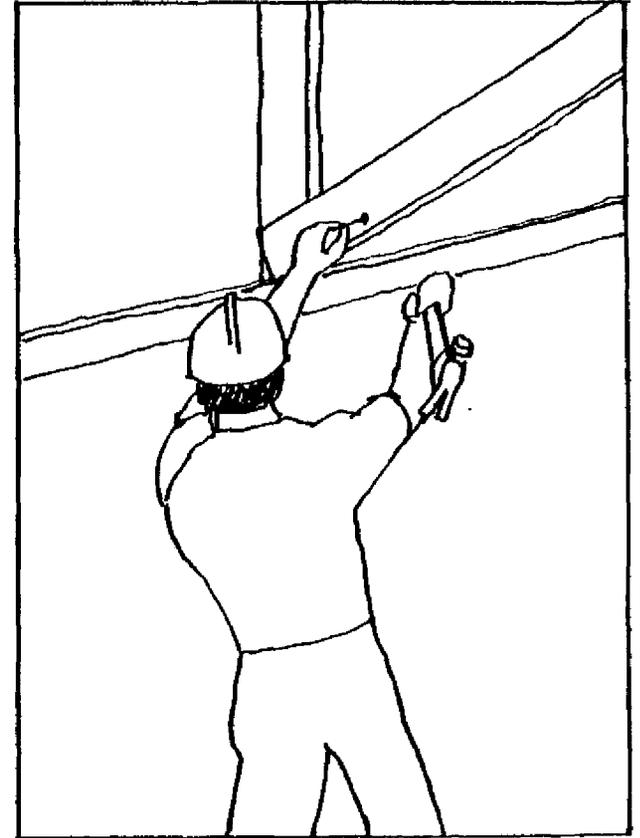
ASEGURAR CERCHAS



Prepare madera

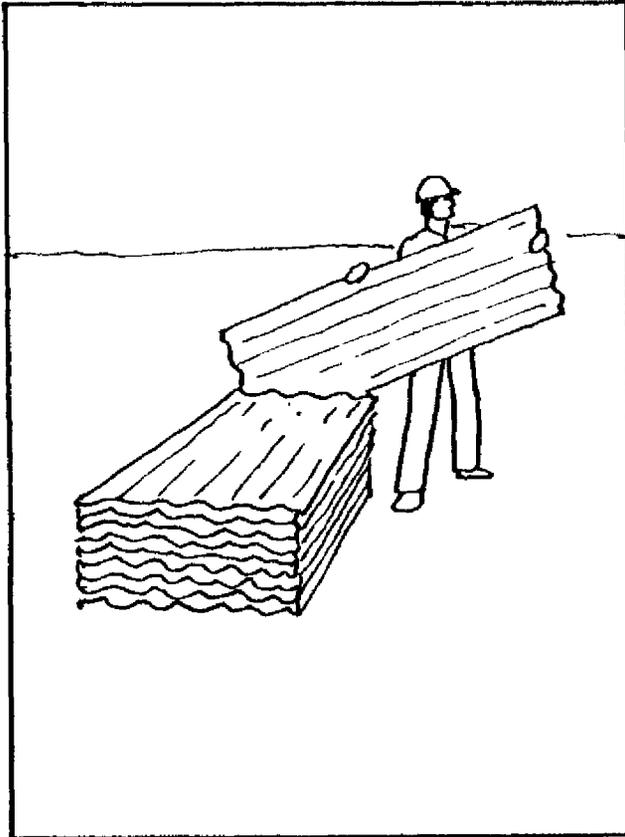


Coloque riostra (diagonal) entre cerchas

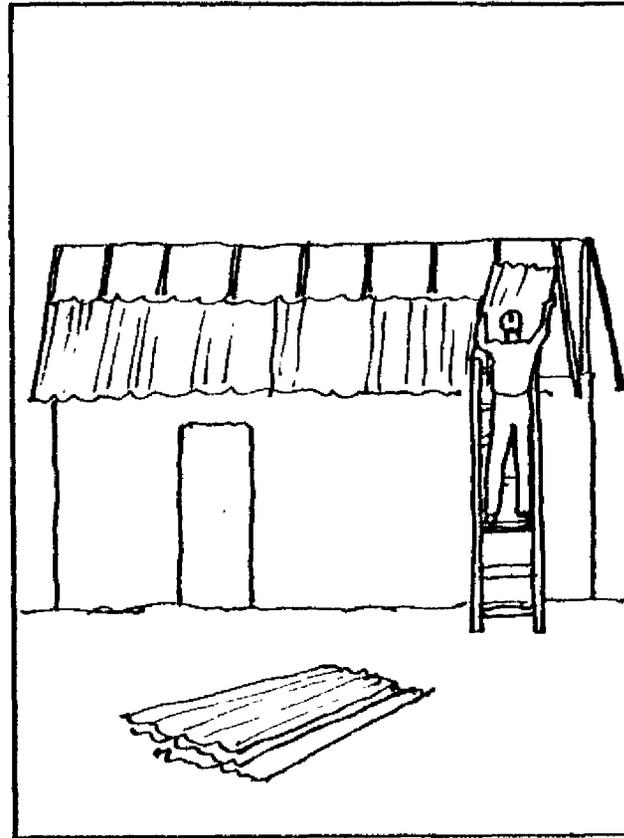


Fije riostra

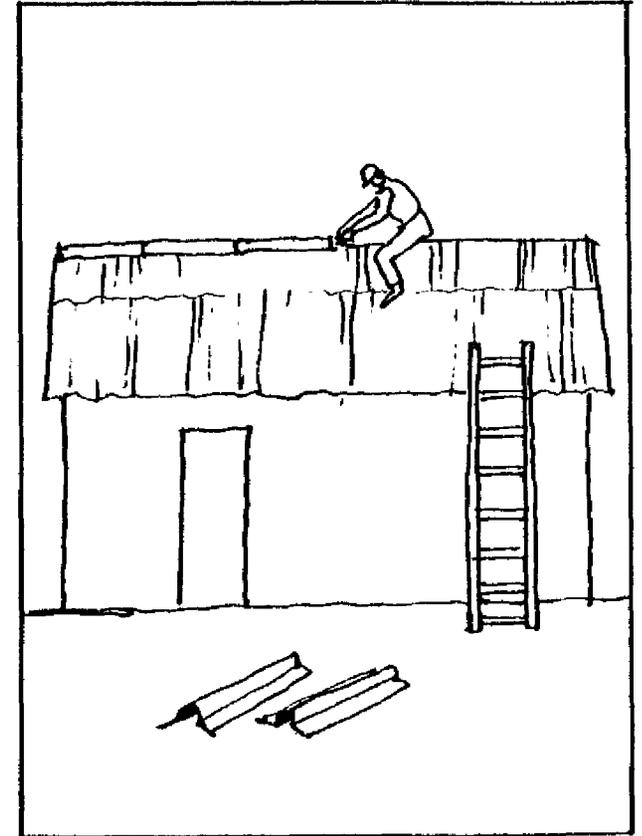
COLOCAR TECHO LIVIANO



Aliste teja liviana



Coloque teja de abajo hacia arriba



Coloque caballetes