

D.I.Y

كسفنڤ كلذ لعفت
wall

What will you need

- x20
- x50

18% clay
27% gravel
55% sand

2

3

Lay the rubble foundation

4

Infill the footing using the waste material from sifting gravel

compact gravel
mortar cement
gravel

5

Prepare the soil mix

Sand 50%
Clay 20%
Straw 10%

6

Use form of ramming on the foundation

7

Stagger joints on new level to avoid weak wall

8

D.I.Y

كسفنڤ كلذ لعفت
openings

What will you need

- x4
- x1
- x2
- x2
- x4
- x16

2

3

Establish location and size of the opening

door frame
rubble foundation

4

Form for ramming located over the door frame

Fix screws to avoid bulging

5

Diagonal corner pieces placed by one screw at the top

6

Place a timber over the frame and continue ramming

7

Remove the frame with a hammer

8

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كسفنڤ كلذ لعفت
window sill/threshold

What will you need

- x2
- x2
- x5
- x4 15% cement
75% gravel & sand
x4 10% water
- x2
- x2
- x42

2

Attach the molding and fill with concrete

3

Attach the molding and fill with concrete

4

Frame and shutter

horizontal plywood
vertical plywood
frame
lock

5

Attach frame into the opening

6

Fill the gaps with mixture

7

Attach the shutter

8

D.I.Y

كسفنڤ كلذ لعفت
roof

What will you need

- timbers
- plywood
- plastic
- metal sheets

15% cement
75% gravel & sand
10% water

2

Create a concrete bond beam on the top of the wall

3

Place timbers and fixate them with releas ramming boards

4

Remove the formers along the boundaries

5

Place counter timbers

6

Add a layer of plywood or parts of scaffolding and a layer of plastic

7

Reused metal sheets from the caravans which used sides for a drain

8

D.I.Y

كسفنڤ كلذ لعفت
floor

What will you need

- gravel
- clay
- rubble
- plywood boards

2

grid and pieces

clay layers
gravel
ground soil

3

Well tamped layer of ground soil
gravel layer, two layers of clay mixture

4

Establish grid on the floor

5

6

Grid filled and tamped with rubble

7

Height difference prevents flooding

8

D.I.Y

كسفنڤ كلذ لعفت
ramp

What will you need

- x3
- x5 (9)
- x2 (4)
- x36 (75)

2

3

Carve the surface of plywood for a better grip

4

Attach plywood to triangular shaped pieces

5

Add wooden curbs

6

7

Extending the ramp

8