

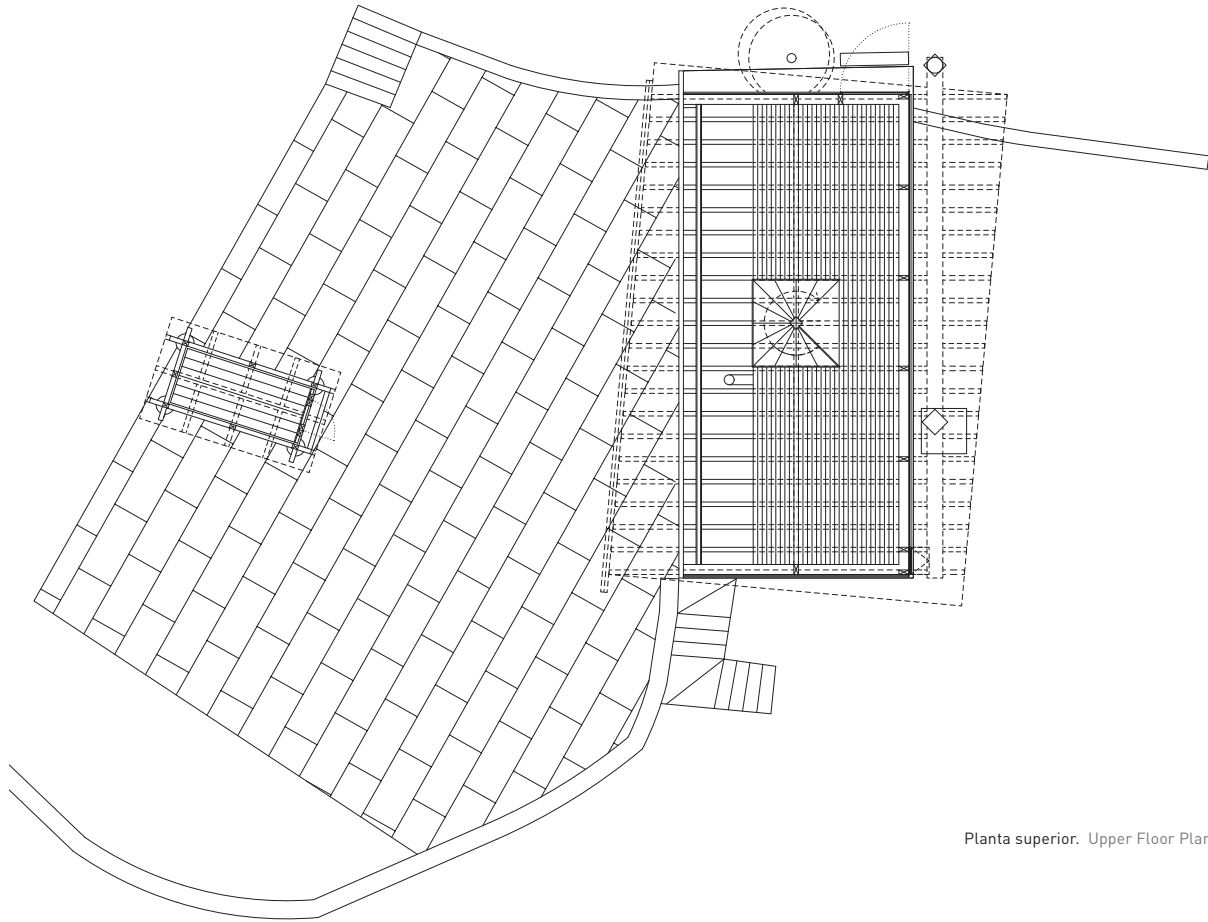
# REFUGIO ENGENHO I, CANELAS, PORTUGAL

ENGENHO I SHELTER, CANELAS, PORTUGAL

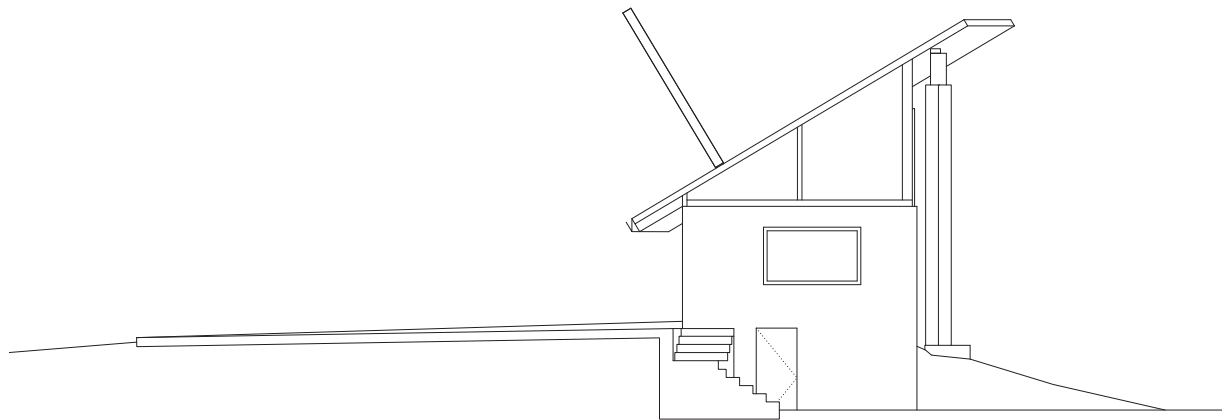
**Autor / Author:** Nuno Melo Sousa · **Colaboradores / Collaborators:** Ana Dias, João Taveira ·  
**Fotógrafo / Photography:** José Campos · **Emplazamiento / Location:** Canelas, Penafiel,  
Portugal · **Año / Year:** 2019 - 2022 · **Total de superficie construida / Total built area:** 90m<sup>2</sup>





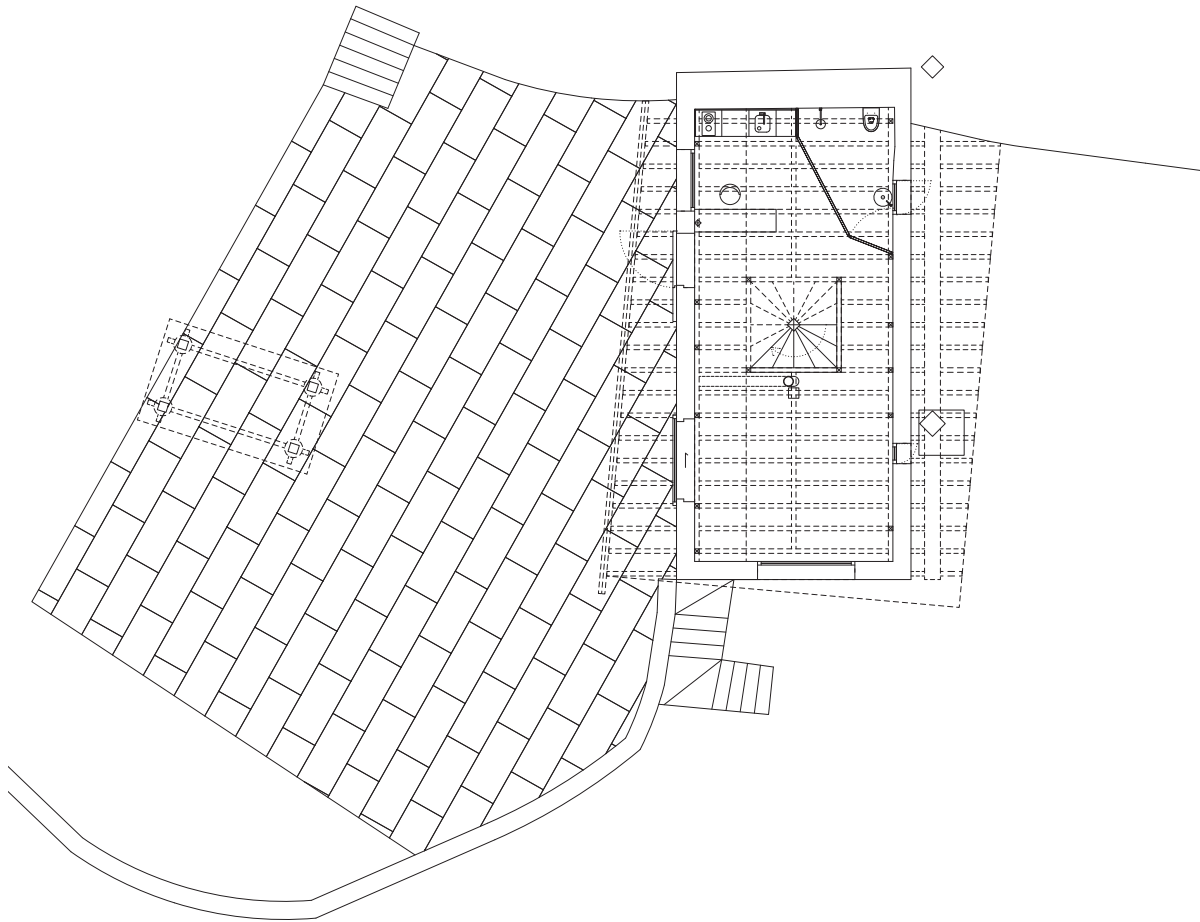


Planta superior. Upper Floor Plan

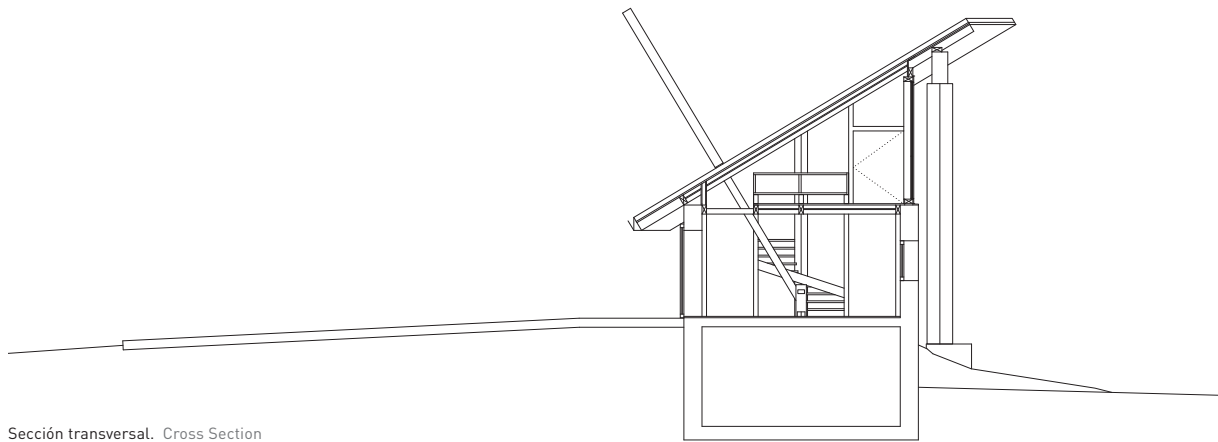


Alzado sur. South Elevation





Planta baja. Ground Floor Plan



Sección transversal. Cross Section





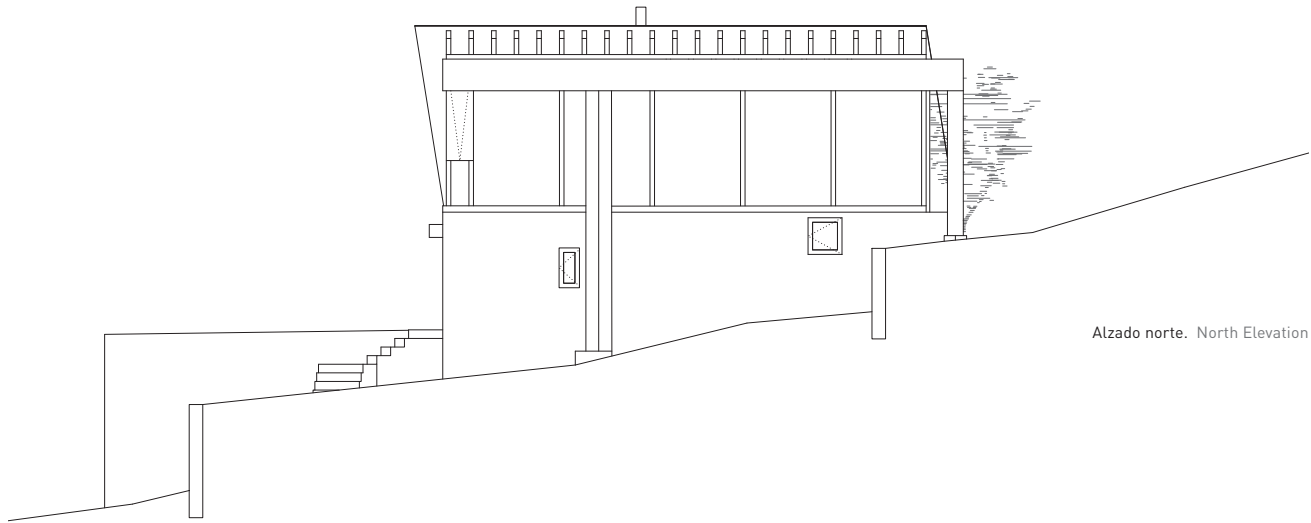
Un granero de piedra abandonado, una ruina, para reconstruir un refugio y crear un cobertizo.

Se conserva el muro de mampostería y se plantea un nuevo pórtico que soporta una estructura de madera que desliza sobre él, aislada con una gruesa capa de revestimiento negro.

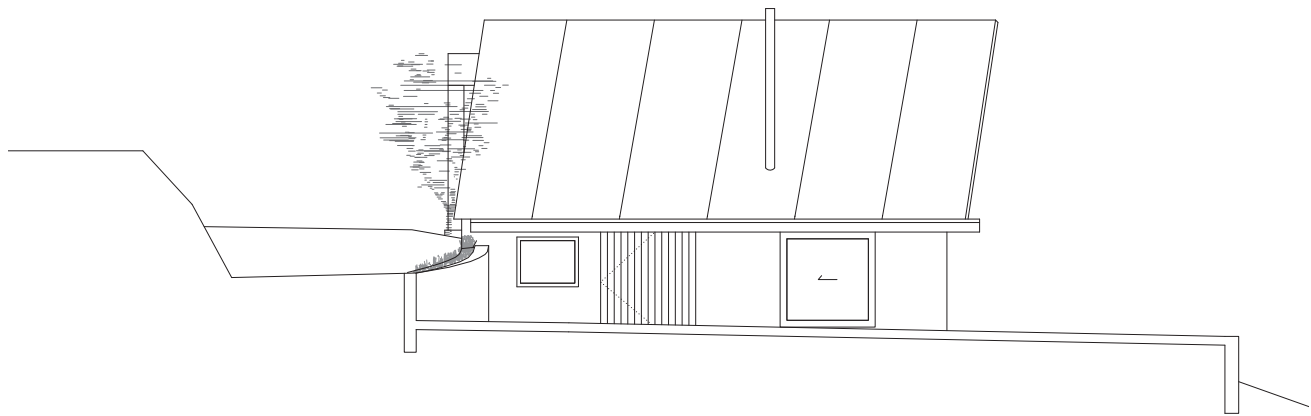
An abandoned stone barn, a ruin, to re-build a shelter, to create a shed.

The masonry wall was kept and a new portico arose, sustaining a sliding black coated wooden structure insulated with a thick black roof layering.





Alzado norte. North Elevation



Alzado este. East Elevation





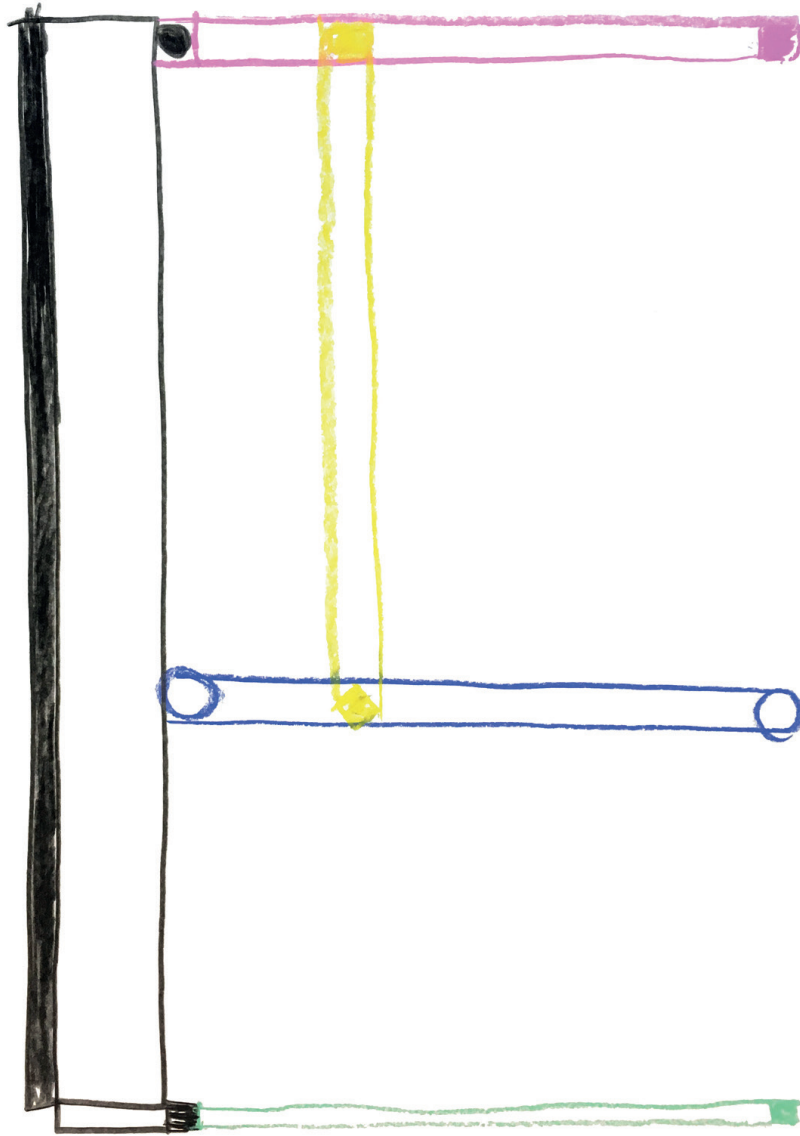








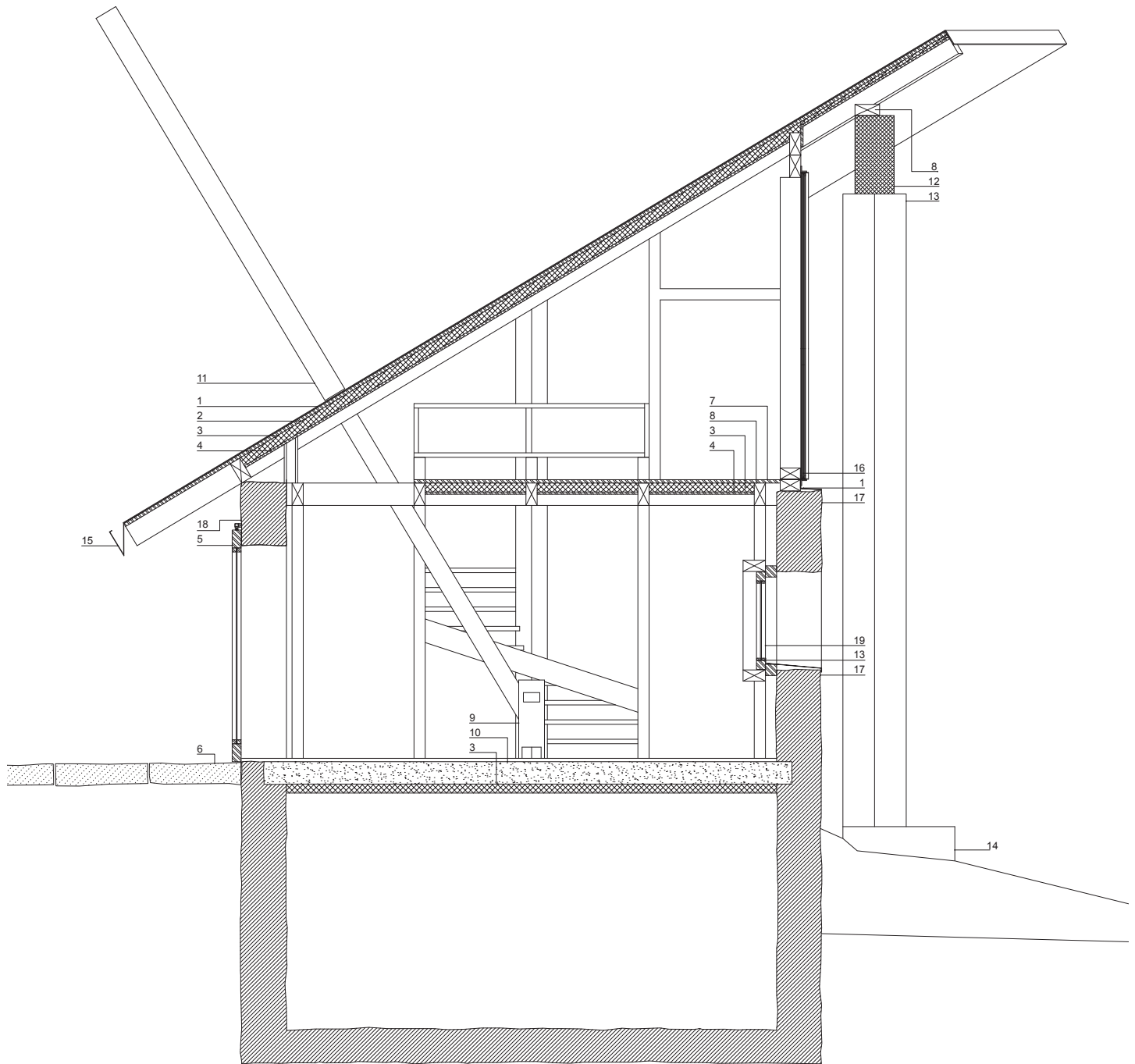






#### Sección constructiva. Constructive Section

01. Tela asfáltica mineral negra sobre dos capas cruzadas de tela de asfalto  
Black mineral asphalt screen over two crossed layers of asphalt screen
02. OSB de 2 cm de espesor  
OSB 2cm thick
03. Aislamiento térmico de 10 cm  
10cm Thermal insulation
04. Madera contrachapada pintada de negro  
Black painted plywood
05. Puerta corredera de madera  
Sliding wooden door
06. Piedra de pizarra existente  
Existing slate stone
07. Pavimento de madera de pino de 2 cm  
2cm Pine wood floor
08. Viga de madera de 12cm x 20cm  
12cm x 20cm Wooden beam
09. Estufa de leña  
Wood stove
10. Pavimento autonivelante sobre losa aligerada  
Self-levelling floor on lightened slab
11. Chimenea de acero inoxidable cepillado  
Brushed stainless steel chimney
12. Viga de hormigón 70cmx35cm  
Concrete beam 70cmx35cm
13. Pilar de hormigón 40cmx40cm  
Concrete column 40cmx40cm
14. Zapata de hormigón  
Concrete footing
15. Canalón de acero inoxidable cepillado  
Brushed stainless steel guttering
16. Marco metálico de hierro pintado en negro  
Metallic iron framework painted in black colour
17. Piedra de granito de la ruina existente  
Granite stone from existing ruin
18. Tapajuntas de chapa negra  
Black metal sheet flashing
19. Ventana abatible en madera de pino pintada de negro  
Casement window in pine wood painted black



0 0,5 1 2m