

Thermal curtain - prototype 1

 Low-tech with Refugees - Low-tech & Réfugiés




https://wiki.lowtechlab.org/wiki/Rideau_thermique_-_prototype_1/en

Dernière modification le 17/08/2024

 Difficulté **Moyen**

 Durée **7 heure(s)**

 Coût **1EUR (€)**

Description

The aim of this tutorial is to show the steps involved in producing a prototype thermal curtain.

Sommaire

Sommaire

Description

Sommaire

Introduction

Étape 1 - material preparation

Étape 2 - material assembly

Étape 3 - Sewing

Commentaires

Introduction

Insulating curtains are essential accessories for the home, for nomads in a van, converted lorry or camper van. They protect your home on wheels from the cold in winter and the heat in summer.



Matériaux

- Blue part of the mask :
 - Waterproof
 - Inter-layer part of the mask (white part) :
 - Contains polypropylene (High durability - excellent insulation - recyclable ...)
 - Empty packet of crisps (contains aluminium):
 - Heat-reflecting layer
 - Sponge:
 - To separate showers from aluminium, to create a gap between two layers of aluminium to increase thermal insulation (R-value).
 - Cartoon:
 - More specifically, in the areas where the stitching runs, so that the two layers of aluminium don't stick together, thus avoiding heat transmission.
-

Outils

Scissors, needle thread (many), stapler

Étape 1 - material preparation





Étape 2 - material assembly

from outside to inside:

- Overlay 4 layers of the blue part of the mask.
- Overlay 4 layers of the part in the middle of the mask (white-polypropylene part).
- Add a layer of the extended chip package (reflective layer).
- Glue the rough part of the sponge previously cut into pieces.
- Glue pieces of card on the lines where the seam will be made.
- Mettre l'autre couche de l'aluminium (pour réfléchir la chaleur qui est à l'intérieur).
- Superposer 2 couches du tissu de polypropylène.



Étape 3 - Sewing

Sew!

As simple as that!

....Not really

it'll be easier if we use a sewing machine.

