

# Thermal curtain - prototype 2


 Low-tech with Refugees - Low-tech & Réfugiés




[https://wiki.lowtechlab.org/wiki/Rideau\\_thermique\\_-\\_prototype\\_2/en](https://wiki.lowtechlab.org/wiki/Rideau_thermique_-_prototype_2/en)

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 Difficulté Facile

 Durée 4 heure(s)

 Coût 1EUR (€)

## Description

A prototype for making a thermal curtain using milk cartons, which is mainly made up of: -75% cardboard -21% polyethylene (plastic). -4% aluminium.

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# Introduction

To create the Thermal Curtain, we have chosen materials with the following properties:

- Limits incoming draughts
- Inert, non-toxic, tear-proof material.
- Thermal insulation.
- Good aesthetic level.
- economic.

The milk carton contains these materials:

- Polyethylene: (Plastic)
  - can catch fire at 260°C
  - Non-toxic and tear-proof
  - chemically inert material (does not react in any chemical or biological way)
- Aluminium:
  - thermal insulation.
- Cardboard and plastic limit wind currents; fewer pores than fabric.

What's more, milk cartons are economical and we recycle.

Fabric has been added for aesthetic appeal and to improve heat retention.



## Matériaux

- Milk bricks (you need more than 5 bricks to make an average curtain).
- Fabric (more usable clothes...).

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## Outils

- Thread and needle or sewing machine.
- scissors and stapler
- tape





## Étape 1 - Preparation of Milk carton

- Clean the remaining milk cartons thoroughly.
- Flatten the bricks so that there are no creases.
- Cut the brick as shown in the photo.
- Remove the outer layer of the brick so that a little cardboard remains (be careful not to tear the brick).



## Étape 2 - Grouping together the different cartons

- Attach the different cartons (using scotch tape).
- Staple any parts that don't fit properly.



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## Étape 3 - Adding fabric

You can add clothes to be thrown away or torn fabrics.

- For aesthetics, you can add a decorative fabric to wrap the bricks and also to increase efficiency.



## Étape 4 - Addition of wire for closure

- To finish, pass a thread over the curtain to close and open it.
- Use the thread to make a knot on one side and pull on the other to close.

