

Design Resource

Prisma

Exhibition Stand

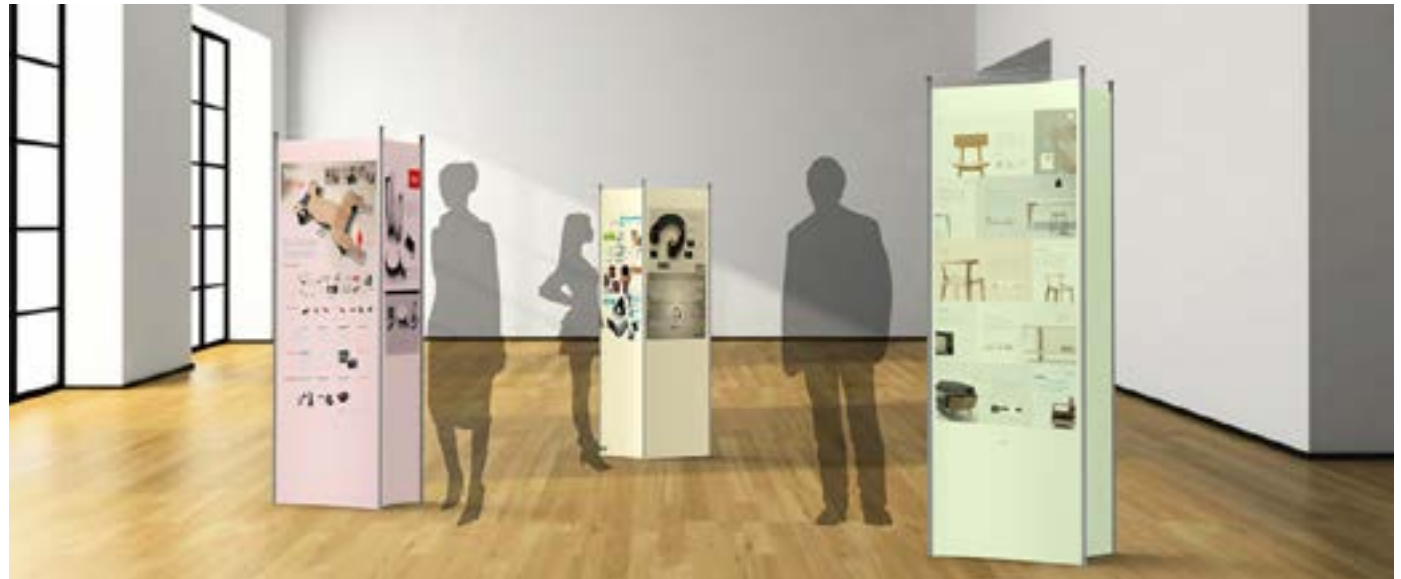
by

Prof. P. Kumaresan

IDC, IIT Bombay

Source:

<https://dsource.in/resource/prisma>



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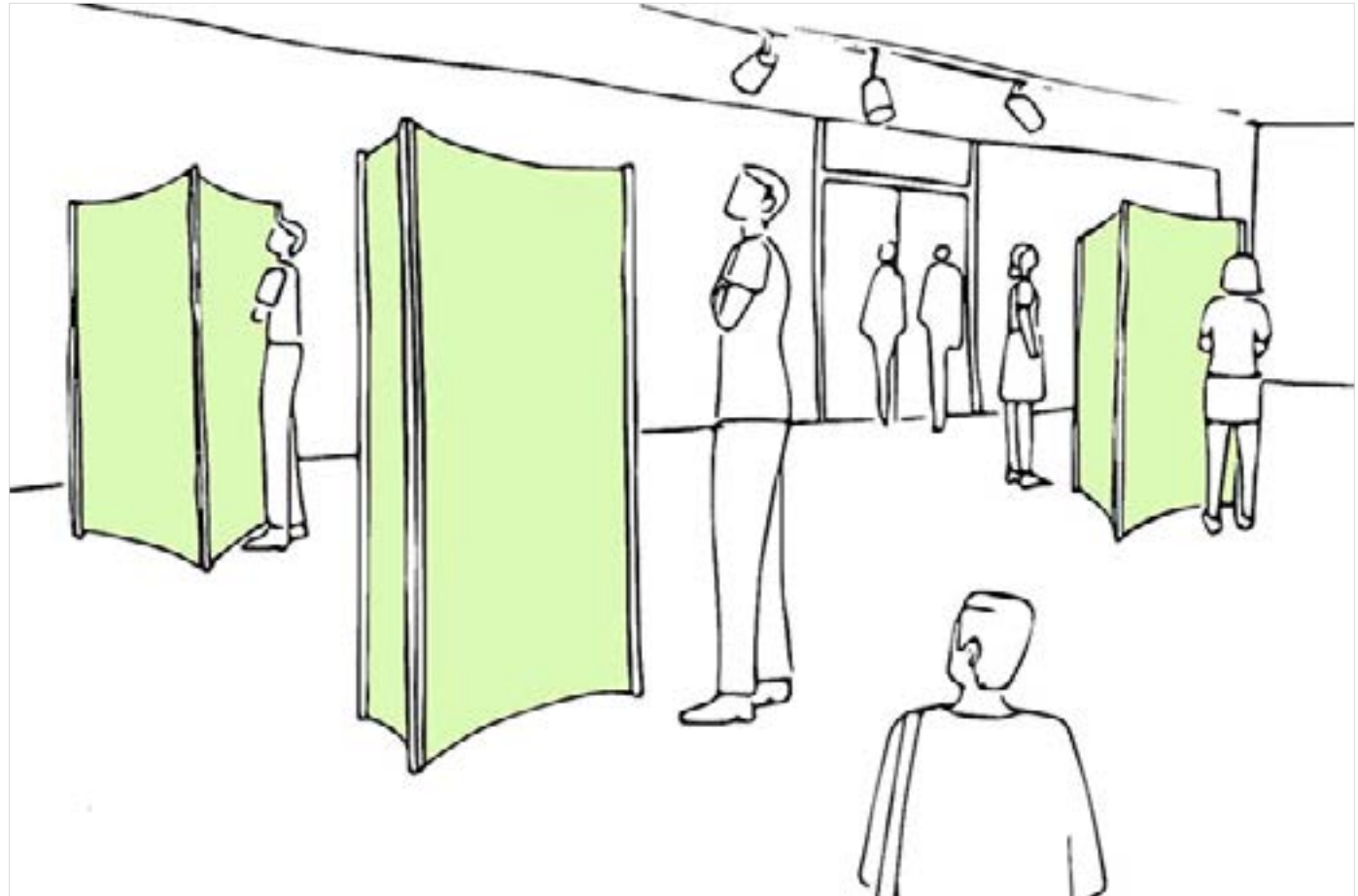
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Source:

<https://dsource.in/resource/prisma/introduction>

Introduction

Made by using the tensile strength of foam board, Prisma is a three-faced structural element, which can be used for multiple purposes. The beauty of the detail of this structure lies in binding the edges of three foam boards to form a rigid structure. The aluminium channel binds the foam board structure and gives a finish to the edges of the stand. It is a quick solution for an exhibition stand.



Prisma exhibition stand can accommodate three panels. The panels act as the support of the structure.

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With just a top planar member, it can also be used as a table. The top member can be of acrylic, glass etc.

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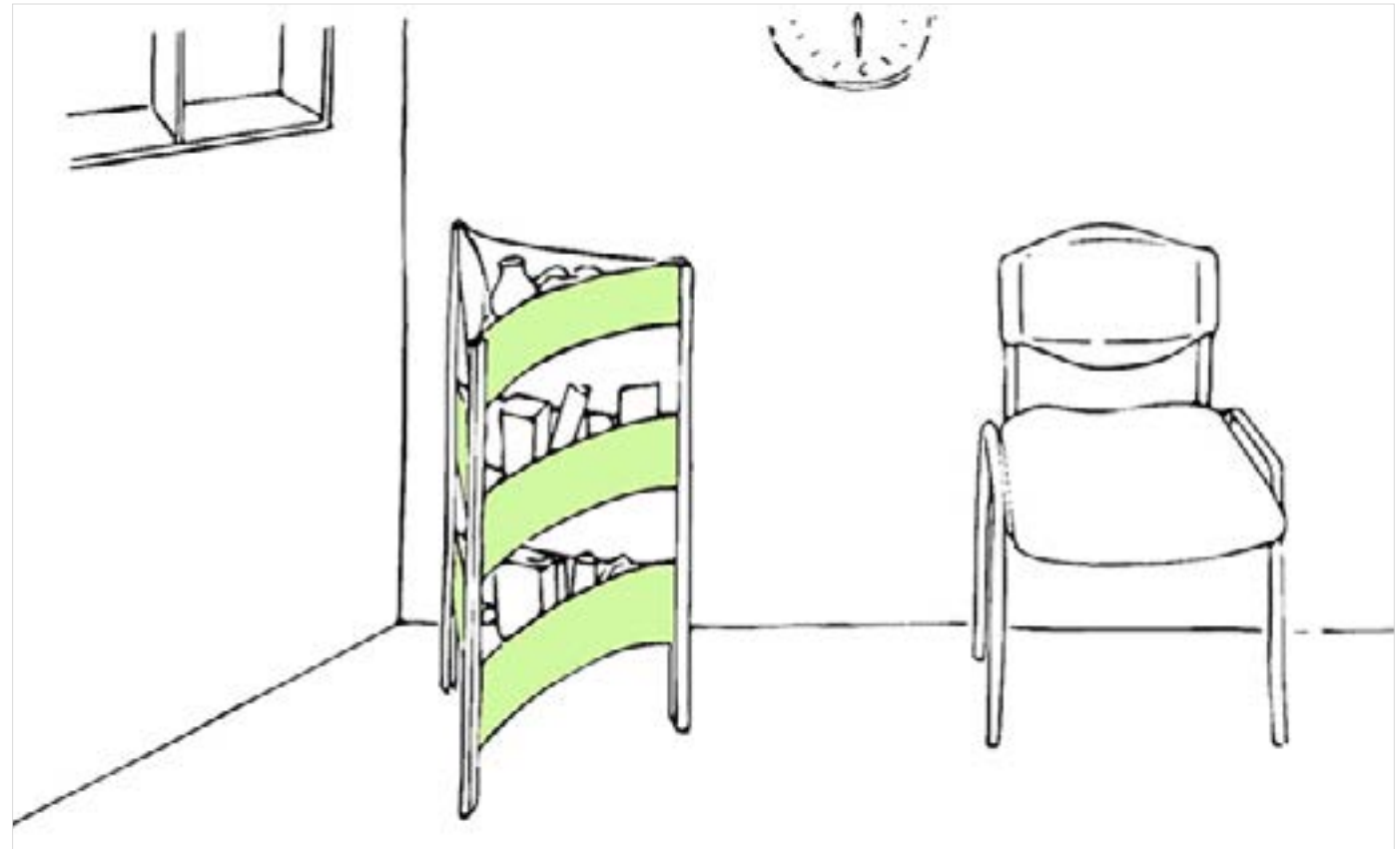
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The same structure can be also used as shelves to store daily objects. In this case, the panels require a bottom element to store things.

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It can also act as a lampshade with a translucent bottom member.

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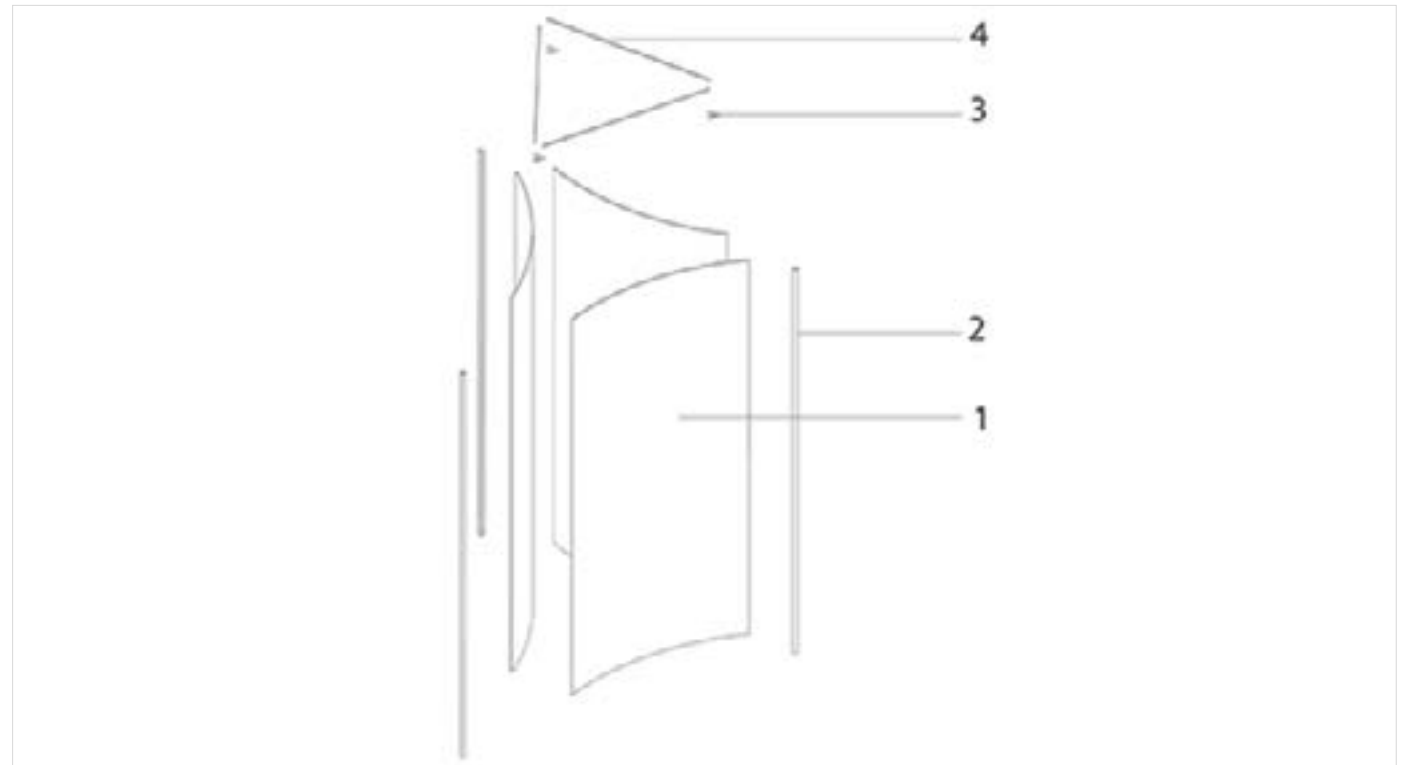
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Things You Need



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The common large sheets come in four Imperial sizes of 96" x 48", 60" x 40", 48" x 36" and 40" x 32" in the thickness of 3mm, 5mm, 10mm and 20mm. For the stand, 96" x 48" size and 5mm thickness can be used.



The commonly available aluminum Channels are C type, H type, U type. For the stand, U type channel is used of 12mm x 20 mm size of 2mm thickness and 4.5 meters length.



An acrylic piece of size 165mm X 60mm and 5mm thickness should be used to get the stopper laser cut.

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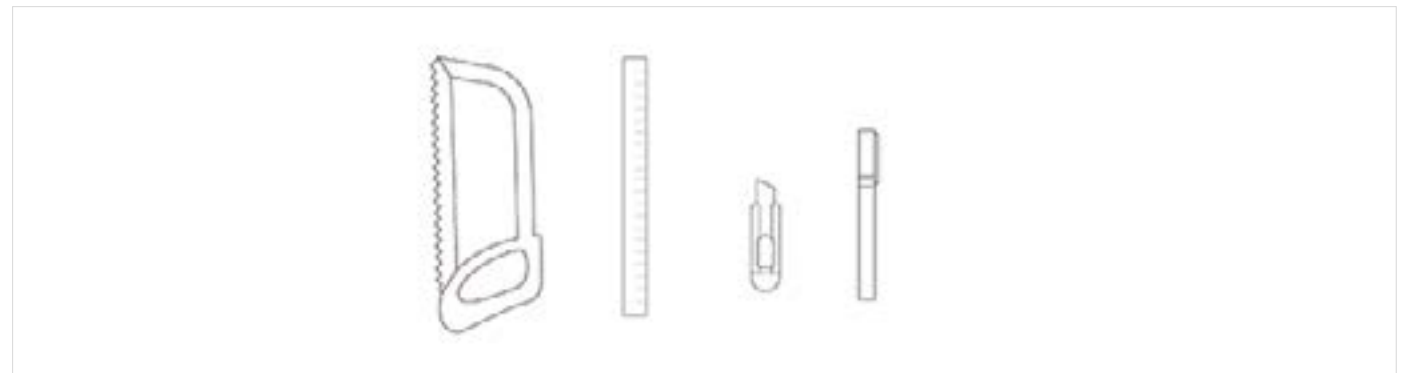
Nylon String 1 Nos

4 Nylon string is used to tie the three acrylic stoppers which hold the channels.



Nylon string of 1.5mm diameter is used.

Tools and Equipment



General Equipment: Hacksaw, Steel Scale, Cutter, marker.

Major Equipment: Laser cutting machine, Metal cutting machine.

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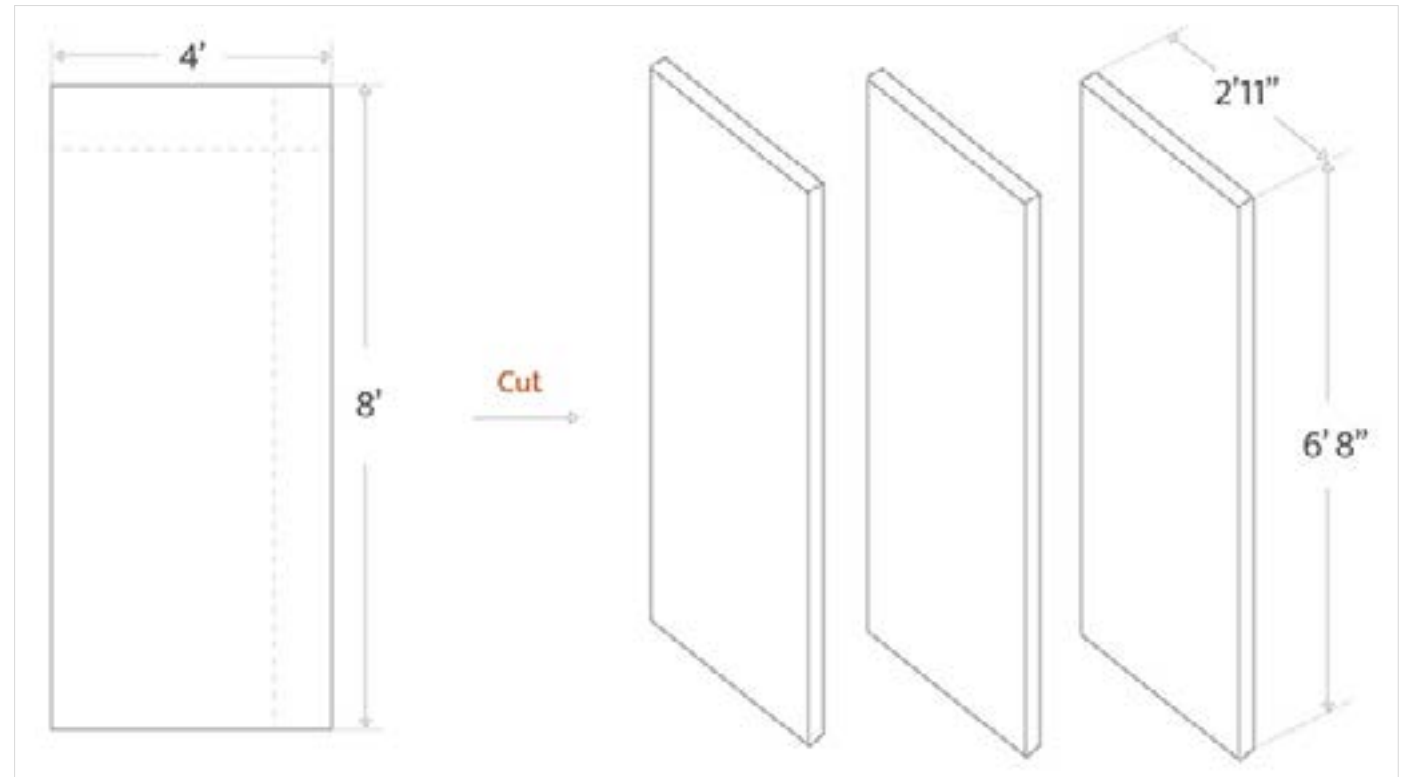
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Source:

<https://dsource.in/resource/prisma/lets-make>

Let's Make

Drawings Download.....**Step 1:** Cut the Foam boards to the size of 2'11" x 6'8". with a paper cutter.

Outsource: Get it done by a local manufacturer
Contacts of Styrofoam vendors.

Make it yourself: Cut the foam board using a paper cutter and a steel edge.
Links to videos for Foam board cutting.

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Step 2: Cut the aluminium channel into 3 parts of 2m length each.



Outsource: Get it done by a local manufacturer.

Contacts of aluminium channel vendors.

Make it yourself: Get the tools for cutting aluminium section.

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Step 3: Laser cut the acrylic triangular pieces.



Outsource: Get it done by a local manufacturer.

Contacts of laser cutting vendors.



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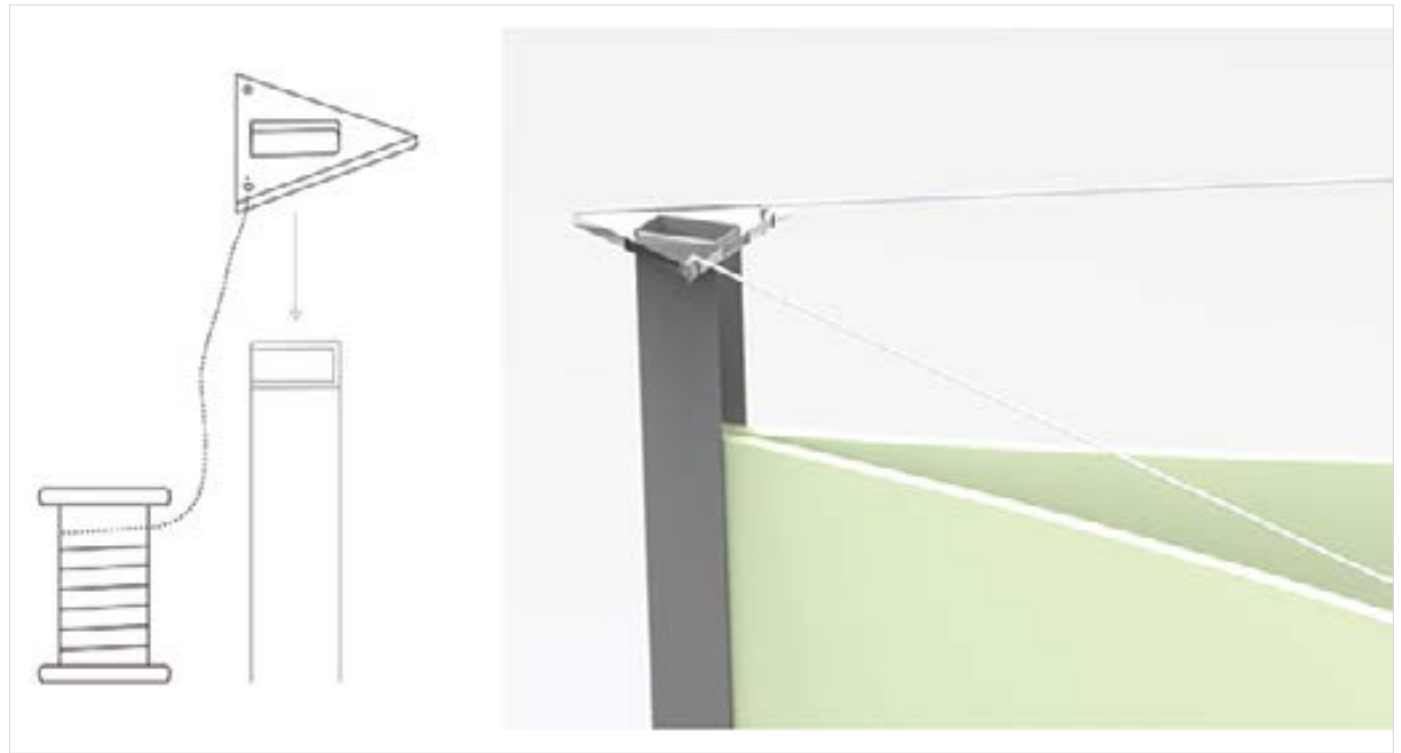
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Step 4: Assemble it !



Step 5: Insert the Acrylic Triangular pieces through the aluminum channels on the top. Then tie all the three pieces using a nylon thread through the holes of the acrylic pieces.

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Personal Touch

Prisma can be personalized according the following functions.



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Coffee Table



Shelves

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Lamp Shade



Prisma exhibition stand being used in Design Degree Show at IDC.

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Source:

<https://dsource.in/resource/prisma/links-and-references>

Links and References

Videos:

Styrofoam Cutting

- <https://www.youtube.com/watch?v=CwT30SUwUk0>
- https://www.youtube.com/watch?v=H_GVANPyI18

Aluminium Section Cutting

- <https://www.youtube.com/watch?v=drullUw5Yug>
- <https://www.youtube.com/watch?v=ECQhaxO4JIU&t=52s>

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Source:

<https://dsource.in/resource/prisma/video>

Video



Open Make - Prisma Exhibition Stand:
Aluminium Channel Cutting



Open Make - Prisma Exhibition Stand:
Assembly

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Source:

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Contact Details

This design was done by Prof. Kumaresan and team at [IDC, IIT Bombay](#)

You can get in touch with him at [kums\[at\]iitb.ac.in](mailto:kums[at]iitb.ac.in)

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Styrofoam Board

A TO Z Digital Prints
A-10/11, Vertex Vikas Shopping Centre,
Opp. Railway Station, M.V Road,
Andheri East, Mumbai, Maharashtra 400069
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Laser Cutting

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