

ACRYLIC

TWO WAY MIRROR

Front Side



Back Side



What is an acrylic two way mirror?

*No, it's not magic. It's **SCIENCE!***

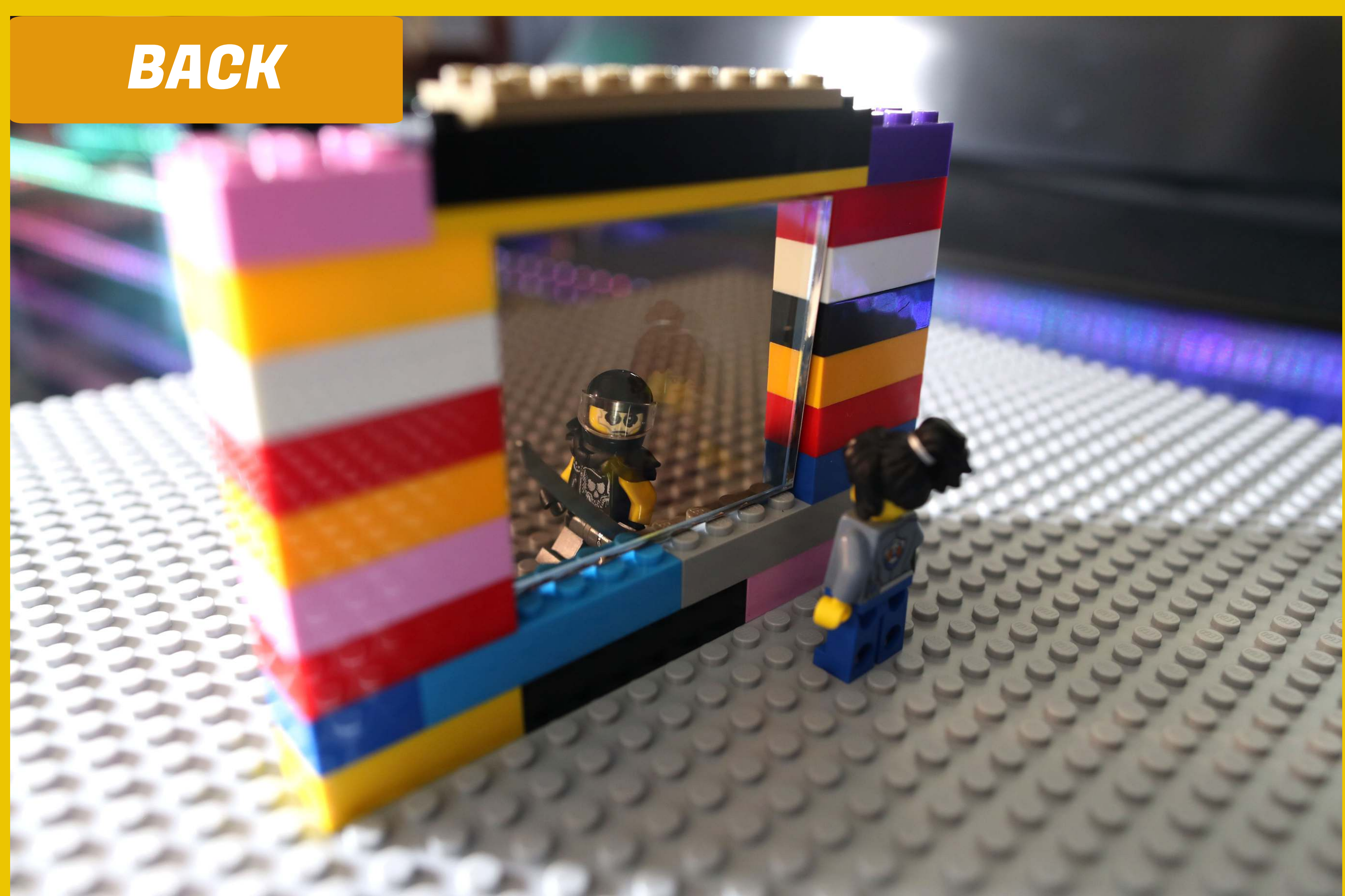
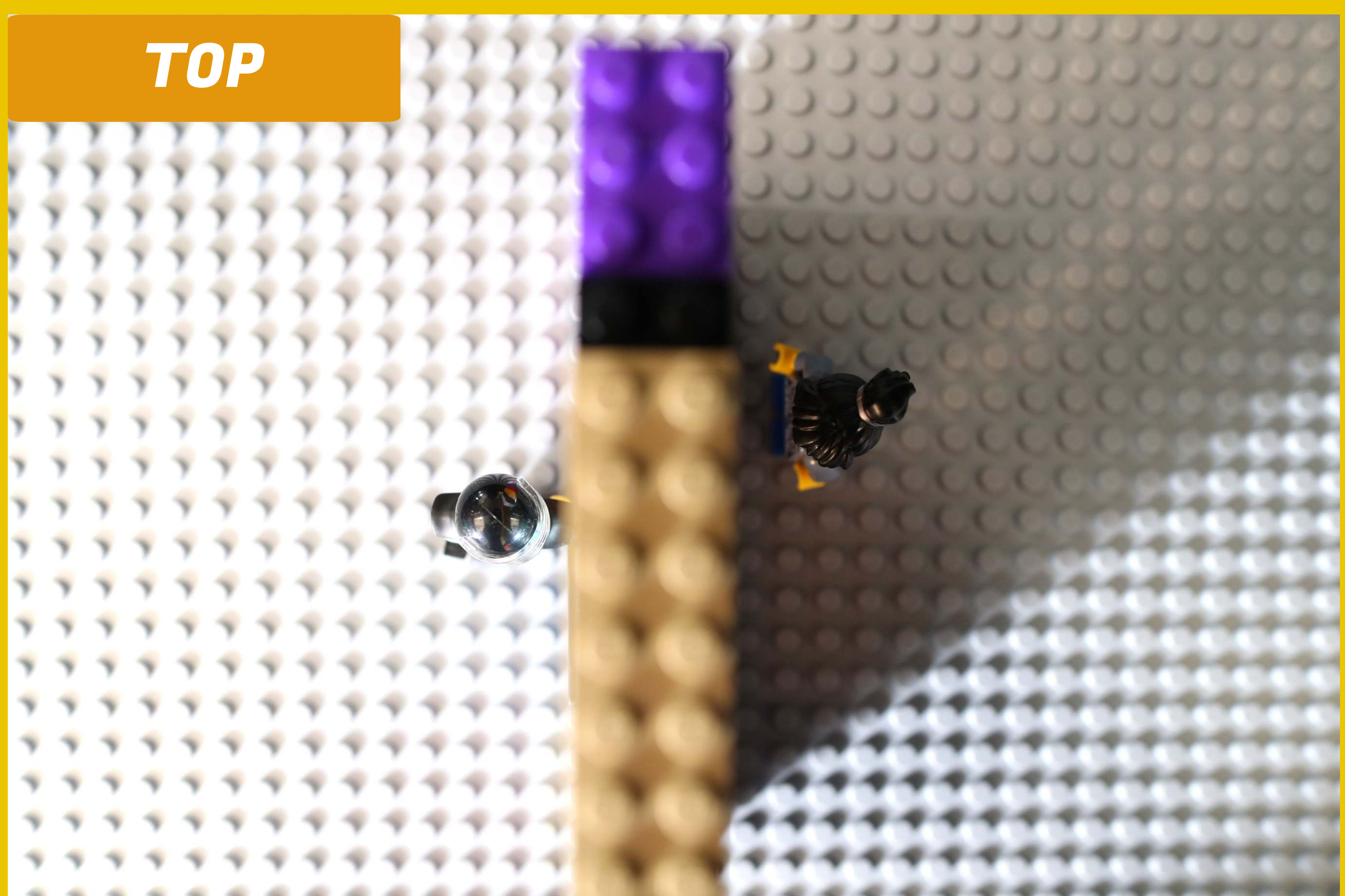
A two way mirror, also known as a one way mirror, is a semi-transparent mirror that is traditionally made for privacy and security purposes. It is made with an acrylic substrate and the mirror coating is applied using a sputter coating process.



Front side of acrylic two way mirror with pen touching the surface.

LEGO FIGURES EXAMPLE

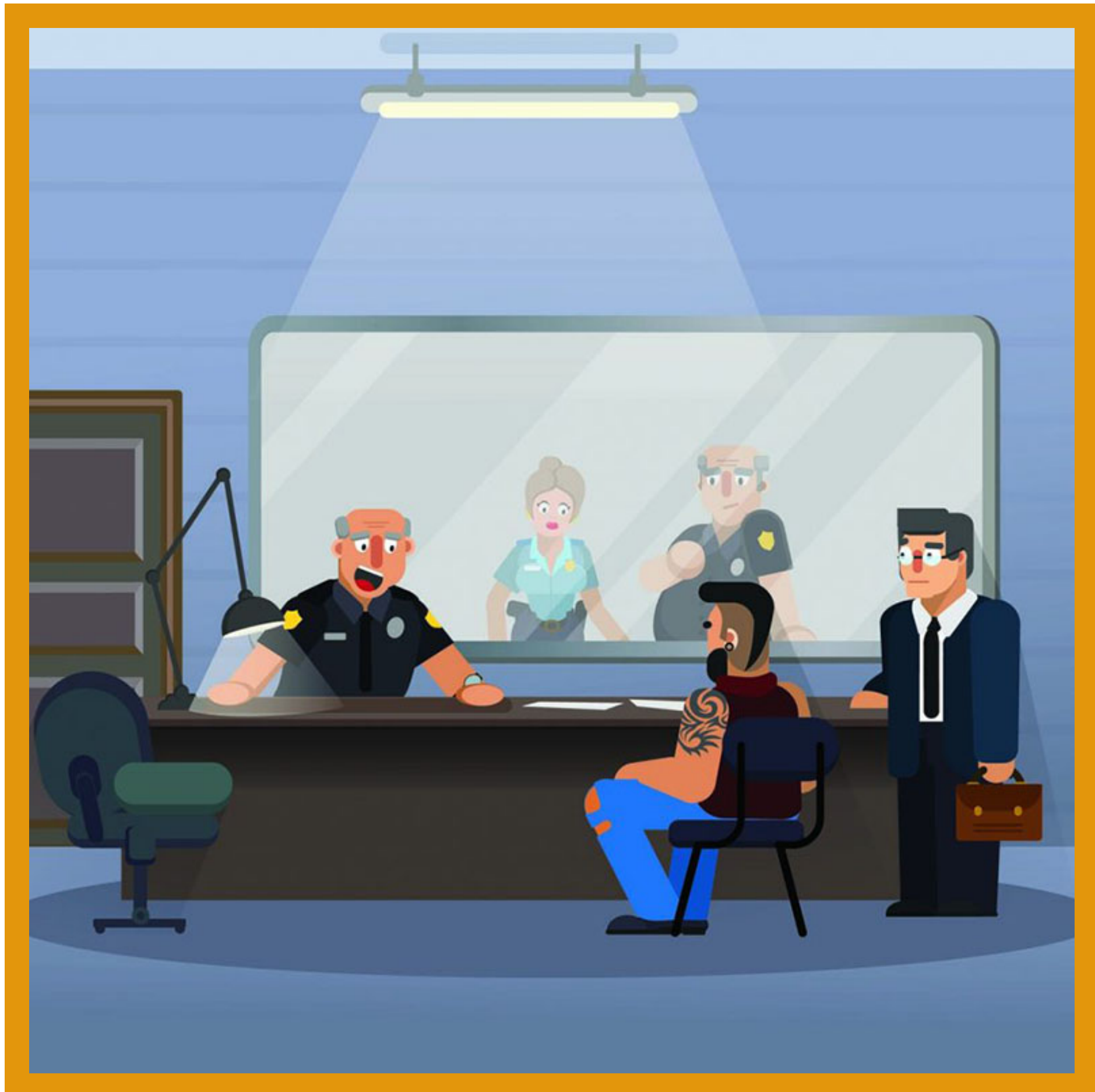
We've constructed a mock wall with two way mirror within a lego wall. On either side we have a figure to demonstrate the reflection and light transmission. Notice the Light is much brighter on the front side of the mirror with the reflection coating compared to the back.



The appearance of acrylic two way mirror is reflective from both sides and can pass the "Fingernail Test". With lighting darker on the observation side, the observer is able to see straight through it, but from the other side all you see is a regular mirror when the lighting conditions are ideal.

Advantages of the Acrylic Two Way Mirror

An acrylic two way mirror reflects 70% of light, allowing the rest to pass through. This makes it more transparent and color neutral than a glass two way mirror, It is ideal for security applications where extra strength is needed, or for recording through the mirror.



Cartoon interrogation drawing using two way mirror.

Product Features

- Stronger than glass
- Excellent viability
- Resembles regular mirror
- multiple colors available
- works with touch overlay
- Passes "fingernail" test

Technical Specifications

- 70% Reflective
- 30% Transparent
- Maximum Size: 49" x 97"
- Cutting Accuracy: +/- 1/16"
- Thicknesses: 1/4" and 1/8"
- Made in the USA

Applications

- | | | |
|--|--|--|
| <ul style="list-style-type: none">• Smart Mirror• Education• Architecture• Home Privacy• Photo Booth | <ul style="list-style-type: none">• Reality Television• Stage Magic• Pepper's Ghost• Scientific Research• Interrogation Room | <ul style="list-style-type: none">• Security Cameras• Infinity Mirror• Animal Research• Safe Room• Market Research |
|--|--|--|

Cleaning & Maintenance

Top Recommended Cleaning Supplies:

- [Novus Plastic Clean & Shine #1](#)
- [Novus Polish Mates](#)
- [Kimwipes](#)
- [50% Isopropyl Alcohol](#)

Avoid These Products:

- Water
- Ammonia Based Cleaners
- Windex
- Lysol Wipes
- Abrasive Sponges
- Brushes



Reflective side of mirror from inside interrogation room

Examples of Observation Rooms

We have all seen a cop drama TV show or film in which a criminal suspect is interrogated while police watch from behind a mirror. Why can't the suspect see those watching him behind the mirror?



Transparent side of mirror from observation side

The answer lies in the level of lighting in both rooms. The room the suspect is in is kept very brightly lit, so that the light in the room reflects off the mirror's surface. The observation room containing the police, on the other hand, is kept dark, so that little to no light gets through the mirror.



Suspect being interrogated on reflective side of mirror

As a result, the suspect sees only his own reflection and the police see into the suspect's room clearly. If the lights in the suspect's room were suddenly turned out, or the lights in the observation room suddenly turned on, then the two way mirror would become a window.



It's the same effect you see in a mirrored office building at night — if there is a light on in one of the offices, you can see into that office just fine.

***Acrylic two way mirror
cuts/drills easily!***



Questions? We've got answers

With 20 years experience manufacturing two way mirrors, our team of engineers & glaziers has the expertise to quickly and accurately answer any questions you have.



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***For More Information
Please Visit***

<https://www.twowaymirrors.com/acrylic/>