

DESIGN DECODED 2021 : ART EXHIBITION



*Decrypt your  
visual creativity*

# DESIGN DECODED 2021 : ART EXHIBITION



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## Amirah Husna Abd.Latiff Norarifah Ali

### RIO (Antimicrobial) - Protective Door

In 2020, we are shocked by the pandemic that is spreading around the world, namely Covid-19. Covid-19 easily spreads through exposed surfaces such as in public places. When a person lacks or does not practice hygiene and does not wash his hands often is more susceptible to infection. When we go to a public place, the thing we always touch is the door handle. Doors that often have handles are available at stores such as petrol stations, marts, offices, shopping malls and more. When we are in a public place, frequent contact with the door handle contributes to high risk of spreading the infection, quoted from an article from Veena Babulal on 18 September 2020 entitled "Sceptical of outdoor sanitisation". Infection control expert Dr Tengku Zetty Maztura Tengku Jamaluddin confirmed that the chemicals and their concentrations administered by the authorities, which were recognized by the World Health Organization (WHO), have the capability of killing the virus effectively. The solution (concentration) is between low and medium strength, but even mild solution can deactivate and kill SARS-CoV-2, "refers to the Covid-19 causing virus, which can live for hours on porous surfaces, such as cupboards, three or four days on plastic and stainless steel, and up to seven days on discarded face masks. With this hook, the user only uses hand sanitation when necessary because it has provided protection to the user.

This product is designed according to the organic style that is very suitable for every age. These hooks use antimicrobial substances to kill viruses or germs when touched. It is a substance that performs the process of killing microorganisms that constantly clean this product. The product is portable and has antimicrobial criteria. This product has a small size (105 mm) that is suitable for adult users. The color chosen (grey color) is also a minimalist color that can blend in with the organic concept and is not too bright. This color is also often an option for users. In addition, this product is easy to use and carry everywhere. It can be hung like a keychain on a handbag. This product is used to protect the user's hands from being easily infected with virus when using vulnerable public doors. With this product, the cleanliness of the user's hands will be more assured because the antimicrobial technology used can help kill germs. This product is produced through a 3D printing process that uses machines. Before using a 3D printing machine, the shape was made from Rhino software. Every part made in the software should be thorough and ensure the correct and accurate size. It is to facilitate the printing process to run smoothly without any problems. When everything is done, the printing process can be started. 3D printing takes hours and even days to complete a model. The time taken depends on producing a model, 3D printing will take time to make it layer to layer to make the object as desired. Next, the material to be used for this marketed product is ABS plastic which has antimicrobial technology.



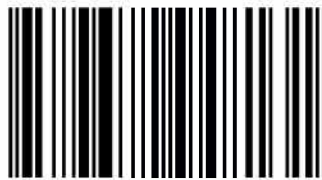
**AMIRAH HUSNA ABD.LATIFF**  
RIO (Antimicrobial) -  
Protective Door

ABS Plastic  
105 mm x 22mm  
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