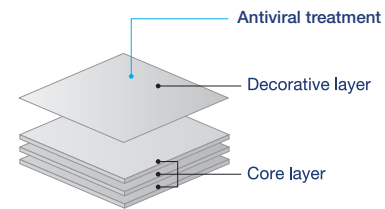


## Virutect / High Pressure Laminates

Virutect has good anti-bacterial and anti-viral performance. We recommend to use Virutect for furniture, wall panel etc.



- Available for both vertical and horizontal use.
- Recommend to use Virutect for the place of medical, nursing, child care, education facilities and restaurant.

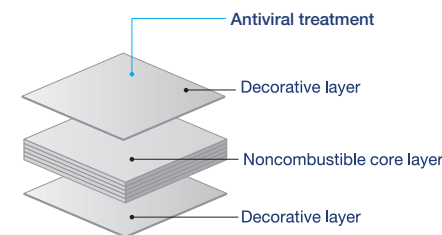


## CERARL Virutect / Noncombustible decorative wall panel

Cerarl is well-known as noncombustible decorative panel and AICA added "Anti-viral performance" on Cerarl.



- High heat resistance and moisture resistance.
- Impact resistance.
- Recommend to use CERARL Virutect for the medical, nursing, child care, education facilities, restaurant and toilet areas.



Sales Representative Name card



## COMPANY INFORMATION (For any inquiries please contact us)

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### PT Marga Bharata

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DKI Jakarta 10730  
Phone: +62216019838  
Fax: +62216295312  
Email: info@margabharata.com

# WHY Virutect?



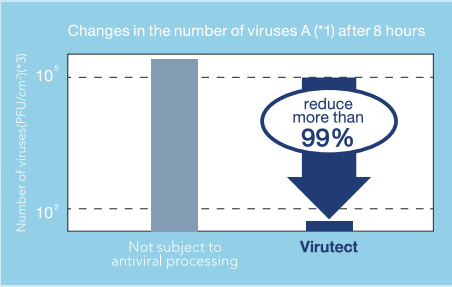
AICA would like to propose “Virutect” for your facility to reduce the number of viruses on surfaces using the building materials.

### Strong point



Virutect is the interior building material that has antiviral performance.

### Result of anti-virus test



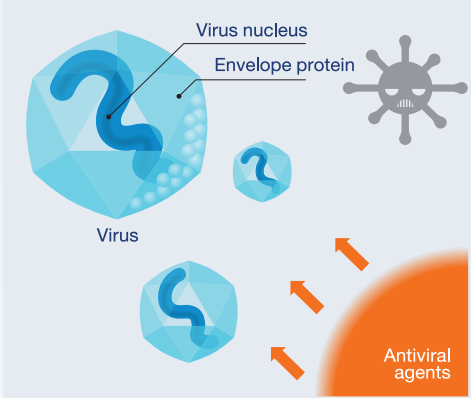
(\*1) : Because specific virus names cannot be shown for reasons related to the Pharmaceutical and Medical Devices Act of Japan on Securing Quality, Efficacy and Safety of Products including Pharmaceutical and Medical Devices, the virus is shown as Virus A  
(\*2) : Regarding membranous structure found in virus particles, it is said that if there is no envelop, resistance to disinfectants such as alcohol is stronger than having an envelope  
(\*3) : PFU ( Plaque-Forming Unit ) Virus count index measured by plaque assay

Test laboratory : Kanagawa Institute of Industrial science and technology  
Test Method : ISO 18071 : 2016 (referenced partially)  
Test Virus : Virus A(\*1) (No Envelope(\*2))

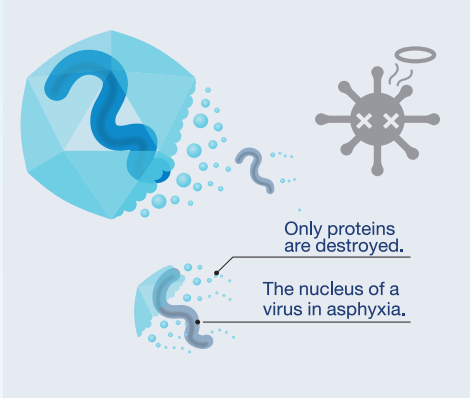
### Do you know the risk of virus and bacteria ?

- Spread of disease in building
- Lost of trust from clients and staff
- Decrease of clients
- Society distrust
- Unsanitary building interiors

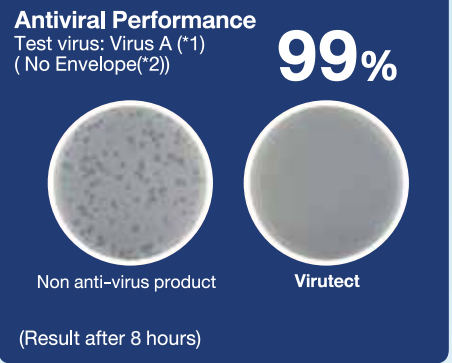
### Mechanism



Virus has a basic structure consisting of a protein membrane and the nucleic acid.



Virus whose protein in envelope is destroyed will be inhibited from synthesizing protein and finally die.



Antibacterial Performance		
Compare with “Non anti-virus / Non anti-bacterial product” and Virutect		
	Bacteria A	Bacteria B
Non anti-virus / Non anti-bacterial product		
Virutect		

Result of test by Bio-checker under specific condition.

Extra care is required for spots that are often touched by the hands.

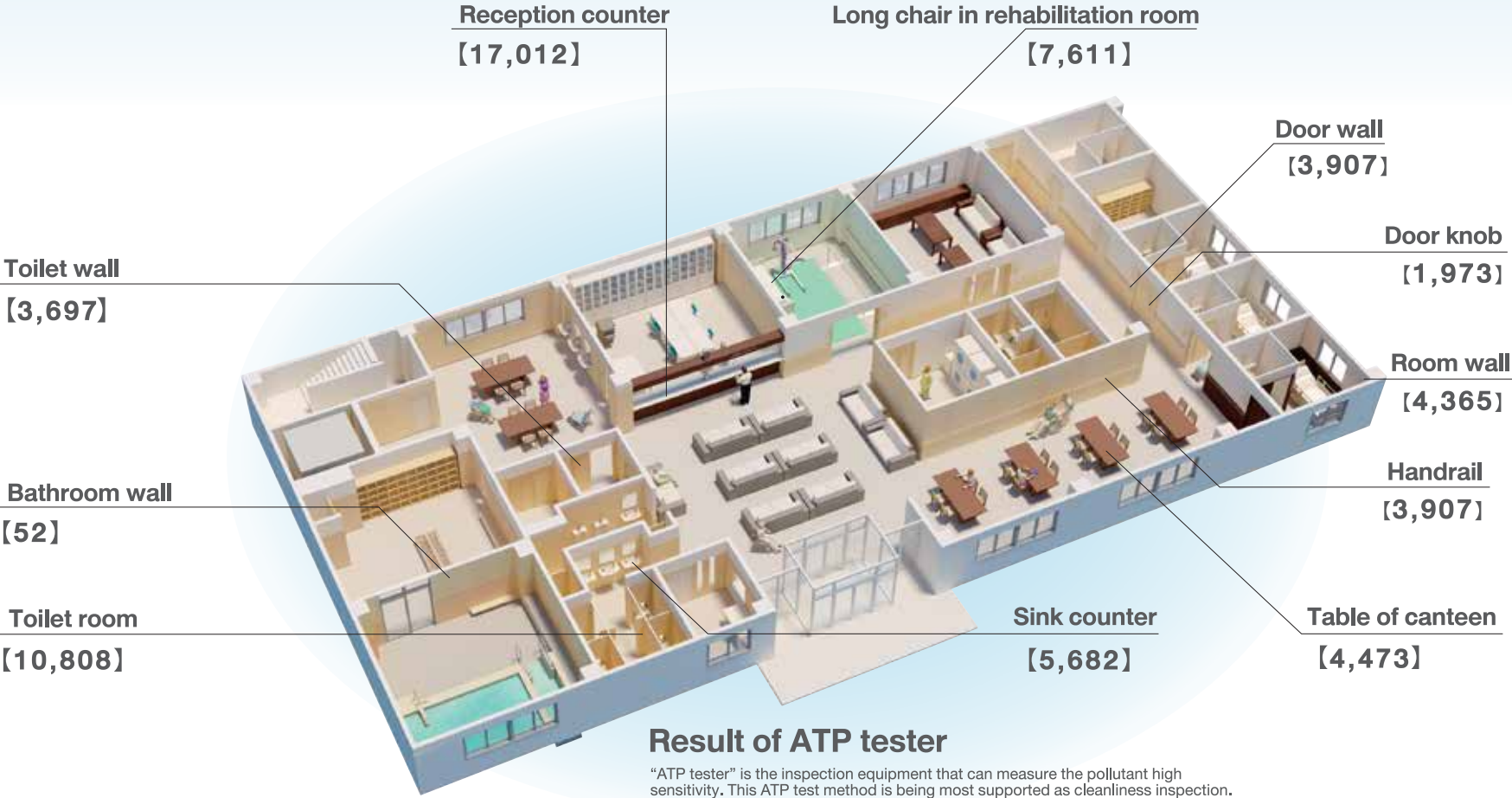
The locations with high measured values are spots which are “easy to become dirty” and “difficult to clean.” Even surfaces that are regularly cared for on an everyday basis may have spots that are left unwiped, and it is there that bacteria and viruses could possibly remain. For spots like these, we recommend the Virutect series, which is effective at reducing the amounts of bacteria and viruses specified by the product.

[Values measured with an ATP tester (RLU\*)]

\*1: RLU is a value indicating the presence of contaminants in an ATP tester. RLU is an index of contamination, not a value of total bacterial count.

(Reference) RLU 2000 or lower: A value that 90% of people can achieve after hand washing measured by an ATP tester

(This indicator is used in food factories to check the cleanliness, such as bacteria and food residues.)



Result of ATP tester

“ATP tester” is the inspection equipment that can measure the pollutant high sensitivity. This ATP test method is being most supported as cleanliness inspection.