

uPVC Technical Information

Marco Antimicrobial uPVC



Marco is pleased to offer an antimicrobial protection to its uPVC product ranges, including the new ELITE Hygieia Range.

These trunking systems are used nationwide in environments where the spread of infection must be controlled, such as hospitals, care homes, schools and laboratories.

Marco utilises silver ion technology, to create a defence against 99.9% of harmful bacteria growth. This provides built in protection from, and prevents the growth of, bacteria, fungi, mildew and moulds, including:

- MRSA
- E-Coli
- Salmonella
- Klebsiella
- Streptococcus Pneumoniae

The antimicrobial compound is incorporated into the uPVC, and is therefore an integral part of the trunking. This means there is no degradation of performance if the surface becomes scratched or damaged as there is protection throughout the system.

All antimicrobial products are tested in accordance with ISO22196:2007, which specifies the method of evaluating the antibacterial activity of treated uPVC products and is in compliance with all relevant European regulations.

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Quantitative Assessment of Activity - ISO22196:2007 - MRSA

Concentration of starting inoculum : 3.20×10^5 CFU/mL

Sample Description	Number of Bacteria Recovered	Log Value	R=[log(B/C)]	% Survival
White PVC - untreated control	4.57×10^6	6.7		
White Rigid PVC - Treated with Ag ion additive	$<5.00 \times 10^1$	<1.7	>5.0	<0.1

Quantitative Assessment of Activity - ISO22196:2007 - Klebsiella Pneumonia

Concentration of starting inoculum : 2.36×10^5 CFU/mL

Sample Description	Number of Bacteria Recovered	Log Value	R=[log(B/C)]	% Survival
White PVC - untreated control	1.76×10^6	6.3		
White Rigid PVC - Treated with Ag ion additive	$<5.00 \times 10^1$	<1.7	<4.4	<0.1

CFU = Colony Forming Units

Test results : Report No. 2418041

Laboratory : Thomson Research Associates Inc , Ontario , Canada

Test organism : MRSA (Methicillin Resistant Staphylococcus Aureus) / Klebsiella Pneumonia