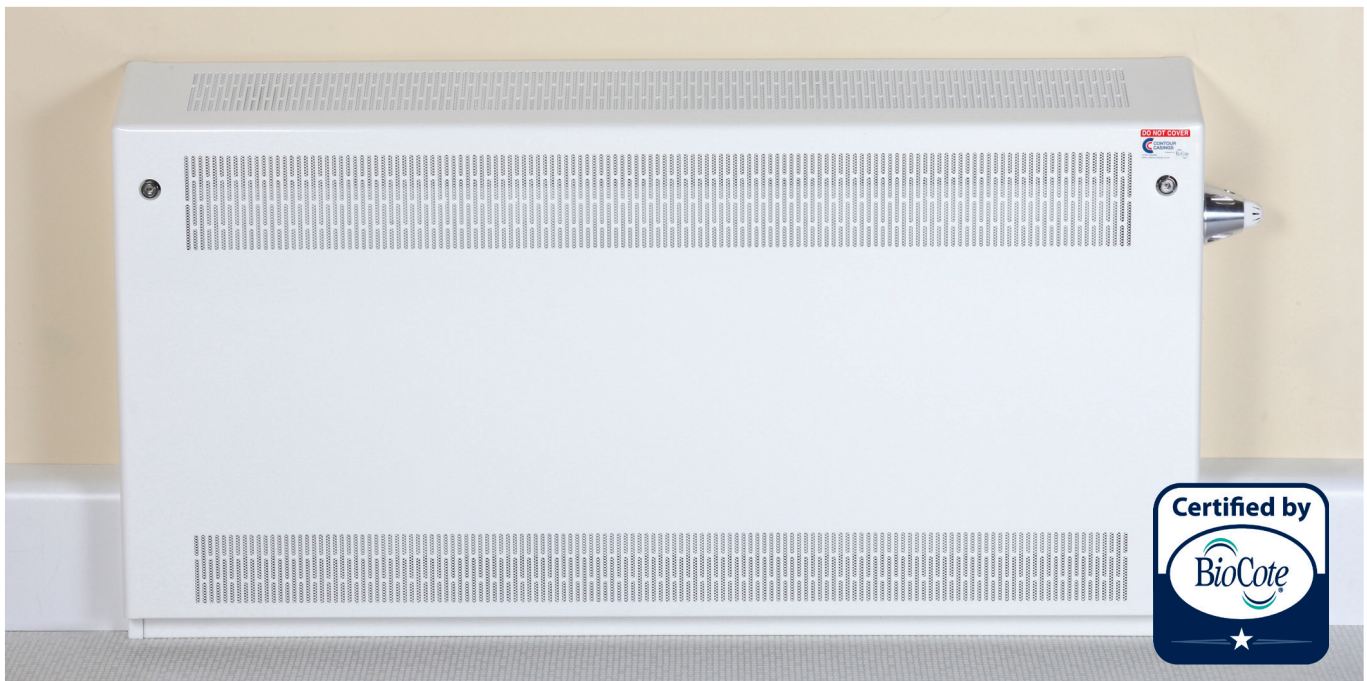




**Contour Casings
Incorporating BioCote®**

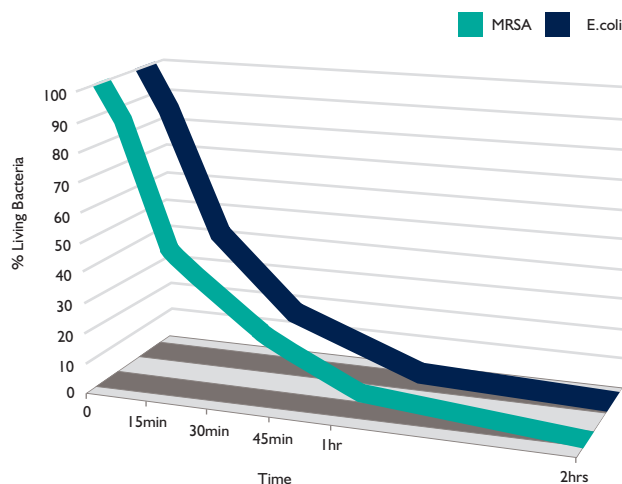
Technical Data Sheet

Contour Casings protects its range of radiator covers and low surface temperature (LST) guards with BioCote® antimicrobial technology



What is BioCote®?

BioCote® is a trademark which stands for a proven efficacy against bacteria and fungi (including mould). As there is currently no standard for levels of efficacy in the market place, BioCote Ltd has set its own standard. All treated products have to attain a minimum of 95% reduction in bacteria, during laboratory testing, to carry the BioCote® trademark (testing is conducted to ISO 22196, the international standard for antimicrobial testing).



Graph showing % reduction of MRSA and E.coli on a BioCote® protected surface using the ISO 22196:2007 test methods.

Why BioCote® as opposed to other antimicrobial additives?

BioCote® antimicrobial technology offers Contour Casings a guarantee that their treated radiator covers & LST guards will consistently prove the efficacious claims.



Is the BioCote® antimicrobial technology sustainable in Contour Casings radiator covers & LST guards?

25-year accelerated life cycle testing has been conducted on the BioCote® treated powder coated metal, with no significant reduction of efficacy being demonstrated.

What should a specifier request as proof of efficacy?

A one-off validation certificate for efficacy of an antimicrobial treated product is not sufficient. The supplier of antimicrobial treated radiator guards should be in a position to provide a range of certificates to prove ongoing quality control and that the efficacy of the treated products is consistently maintained.

BioCote Ltd provides Contour Casings with a regular QC programme to manage the efficacy ratings of the radiator covers & LST guards, offering a databank of evidence to prove the efficacious claims.

**PROVEN BACTERIAL
REDUCTION
OF 99.99%**

IMSL		INDUSTRIAL MICROBIOLOGICAL SERVICES LTD	
CERTIFICATE OF ANALYSIS Page 1 of 1			
CUSTOMER	CERTIFICATE NO.		1016019.160/5557
BioCote Ltd Wolverhampton Science Park Technology Centre Glasgater Drive Wolverhampton WV10 9RU.	CUSTOMER REF.		50327
SAMPLE DETAILS	DATE RECEIVED		10/05/2011
CONTOUR CASINGS	ORDER NO.		
METHOD: Determination of Antibacterial Activity using Test Based on MOD JIS Z 2801:2000			
DATE ANALYSED	11/05/2011	DATE REPORTED	13/05/2011
RESULTS (AS CFU CM ²)			
SAMPLE	SPECIES	CONTACT TIME	REDUCTION (CONTROL)
		0 hrs	24 hrs
CONTROL	E coli	1.6E+04	5.4E+05
29-B4000.102 BATCH 4920311	E coli	1.6E+04	< 11.11
CONTROL	MRSA	1.9E+04	1.0E+05
29-B4000.102 BATCH 4920311	MRSA	1.9E+04	< 11.11
			≥ 4.68
			≥ 99.99%
			≥ 3.95
			≥ 99.99%
<small>Key: Nil = None survived on control supplied. The above data shows the difference in the population following contact with the surface of the samples listed for 24 hours at 25°C under a RH of > 95% relative to the control sample.</small>			
IMSL MICROBIOLOGICAL SERVICES LTD PALE LANE HARTLEY WITNEY HANTS RG27 8DH UK		MANAGING DIRECTOR Peter D. Ashwin	
<small>Industrial Microbiological Services Ltd Registered in England No 536423 Registered Office: The Old Millers Hall Oxford Road Radnor Shropshire KY21 7NG</small>			

Do Contour Casings' radiator covers & LST guards fight microbes in the environment?

Contour Casings' BioCote® treated radiator covers were included in an environmental study conducted between BioCote Ltd and Leicestershire City Council at Arbor House.

Correlating the contaminated environment with clinical outcomes is problematic. Therefore it is important to quantify the effectiveness of decontamination technologies by measuring their ability to reduce levels of microbial contamination. This study investigated the effect that silver ion (BioCote®) technology had on spatial and temporal counts of bacteria in a nursing home environment compared to an untreated control environment. A mean difference of 94.8%* in bacterial counts was observed on BioCote®-treated surfaces compared to untreated products in the control environment. (British Journal of Community Nursing, Vol. 14, No. 6, June 2009 - "Silver ion antimicrobial technology: decontamination in a nursing home)

In 2002 the World Health Organisation stated that, "The benefit of a cleaner environment is envisaged to be improved clinical outcomes" (Gastmeier P et al, 2006; Huang R et al, 2006; /Boyce J, 2007; Boyce J, McDonald L, Adams N et al, 2008; Dancer S, 2008). Thus, the above study demonstrates that the treated products reduced bacterial loadings.

* This study has demonstrated again that the laboratory efficacy is transferable to the environment by BioCote® treated products.