

LST Radiator Guards



Pioneering study reveals how to remove 91% of harmful bacteria from inside your LST radiator guards.



UK's first intelligent, parametric and data-rich LST radiator guard BIM objects.





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INTRODUCTION

Contour Casings has been at the forefront of low surface temperature (LST) radiator guard design for over 10 years. During this time, an extensive range of solutions has been developed to satisfy the changing needs of the market and our customers.

The need to protect vulnerable people from dangerously hot surfaces in healthcare, education and care environments is becoming more complex by requirements to raise hygiene and maintenance standards.

NHS Health Guidance Note, "Safe" Hot Water and Surface Temperatures (1998) states that; "Radiator guards should be fitted to ensure safety and should facilitate regular planned cleaning and maintenance. Covered heat emitters have been implicated with outbreaks of infection, as they can be difficult to access and allow the build-up of dust."

Driven by this, leading industry experts have been consulted to develop the DeepClean LST radiator guard. This slim line radiator cover has integral anti-microbial technology and is quickly and easily accessible for cleaning and maintenance, without the need for Estates staff to support cleaning regimes.



Regular QC testing and in-situ studies demonstrate the continual efficacy of Contour's anti-microbial protection and easy to clean design, demonstrating up to 91% reduction in bacteria in real life environments.

A full pipe casing solution is also available to complete the safe surface temperature package.

To make your radiator guard project as smooth as possible, Contour provides quick lead times, an accredited nationwide installation network and free technical site surveys. All Contour solutions are also available as powerful, parametric BIM objects.

SANDON PRIMARY SCHOOL - CASE STUDY (PAGE 2)

PROJECT: Sandon Primary School

CLIENT: Stoke City Council

MAIN CONTRACTOR: Kier Construction

DESCRIPTION: Survey, design and installation of 91 standard DeepClean LST radiator guards



Accessing the interior of LST radiator guards for cleaning and maintenance is a perennial problem.

Radiator guards have traditionally been basic, fixed units that make access difficult and time-consuming. Internal cleaning requires complete disassembly and assistance from Estates personnel. Ultimately, this impacts on cleaning schedules and hygiene standards.

A radiator guard interior that has not been cleaned combined with the convection process, work together to form the perfect conditions for the growth and distribution of potentially dangerous bacteria and particles.

Cleaner Radiator Guards = Safer Environments

The DeepClean LST Radiator Guard from Contour Casings has a unique, patented door design and quick-release locks, allowing the complete front of the radiator guard to lower and lie flat on the floor.

The DeepClean design makes it possible for a single cleaning operative to access every internal and external surface of the radiator guard without support from the Estates department. This significantly improves cleaning efficiencies, helps reduce overheads and more importantly raises hygiene standards. The open hinge arrangement also permits complete front door removal if required.

Rotating radiator valves can also be retrofitted to existing panel radiators to allow the emitter to also fully pivot down to the floor – delivering access behind the radiator for unrivalled cleaning and maintenance.

“Covered heat emitters raise the most infection control concern. Heat emitter covers allow dust to build up beneath and inside the grille. The dust has been found to contain MRSA and other potentially pathogenic organisms. When emitters are turned on during the winter, dust and bacteria are dispersed by convection to the ward area... estates departments have had to prioritise their resources in line with decreasing budgets.”

Source: NHS Estates (2002) Infection Control in the Built Environment guidelines.

“MRSA can survive in a desiccated state in dust for long periods of time – up to 175 days.”

**Source: Long-term-in-vitro survival of an epidemic MRSA phage-group III-29 strain
J.H.T Wagenvoort and R.J.R Penders.**

“In less stringently cleaned environments airborne routes such as the convection process of an LST radiator have been identified as sources of microbial dissemination.”

Source: King et al 2013 Bioaerosol Disposition in single and two-bed hospital rooms.



THE DEEPCLEAN LST RADIATOR GUARD PAYS FOR ITSELF

An example costing estimates that a property containing 800 radiators would require:

TRADITIONAL	DEEPCLEAN
 <p>2 person job involving estates personnel.</p>	 <p>1 cleaning operative can now open the LST casing.</p>
 <p>30 minutes to remove 1 LST casing, clean casing internally, clean radiator, clean wall, clean floor and refit casing (wall & back of radiator cannot be cleaned).</p>	 <p>5 minutes to clean every internal surface of the casing and the radiator, including back of radiator and whole wall space.</p>
 <p>7 hour working day = 14 LST radiator guards cleaned per day per team.</p>	 <p>In an average day of 7 working hours, 1 person can clean 84 radiators.</p>
 <p>57 days for 2 people to clean every radiator in the property.</p>	 <p>9.5 days for 1 person to clean every radiator in the property.</p>
 <p>Daily cleaning of radiators would require a team of 114 dedicated staff.</p>	 <p>Daily cleaning would now require only 10 dedicated cleaners, with little or no support from the estates department.</p>
 <p>An annual budget of £1.838 million at minimum wage (£6.31 ph) to clean all of its radiators on a daily basis.</p>	 <p>At minimum wage (£6.31 ph) this would cost the property £161,000 per year.</p>

SAVING £1.677 MILLION PER YEAR OR £2,096 PER RADIATOR GUARD

But more importantly, cleaning standards would be significantly improved and the risk of cross contamination dramatically reduced, thereby assisting in the reduction of HAI's. Consequently, this would provide greater savings and improved efficiencies within the property, as lower rates of HAI's free-up beds.

ANTI-LIGATURE TECHNOLOGY

As a key part of the low surface temperature offer, Contour Casings has developed a specialist range of LST radiator guard solutions for use in secure environments such as mental health facilities and prisons, where reducing the risk of potential ligature and tamper opportunities is of paramount importance.

The 2012 Ministry of Justice report, "Safety in Custody", states that 9 in 10 prison suicides are as a result of hanging.

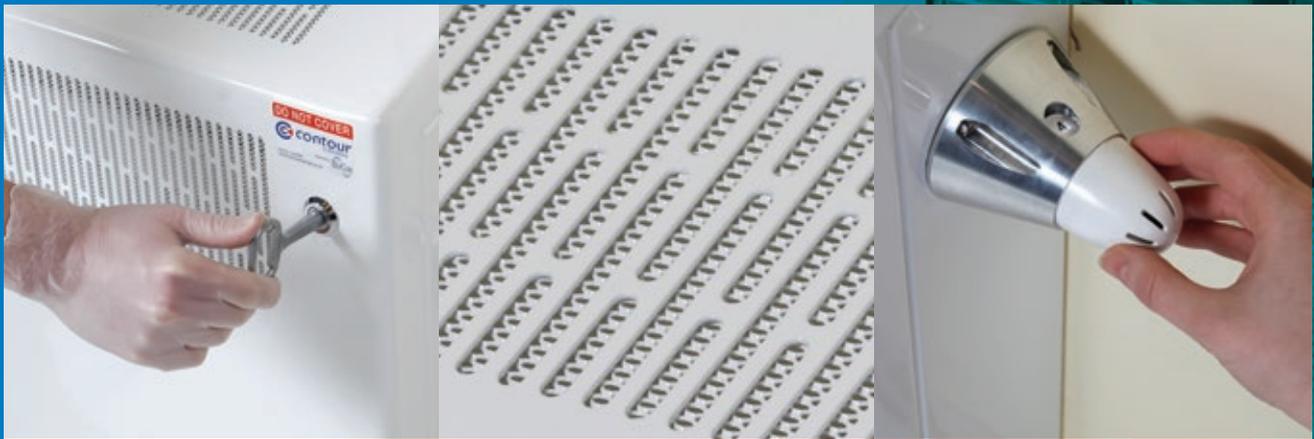
As death from hanging can often occur even when an individual is not fully suspended, reducing the risk of potential ligature points at all heights is of critical importance.

Grilles and external TRV's on low surface temperature radiator guards are areas that should receive particular scrutiny, as these have been identified as potential ligature points.

These risks have therefore been analysed and addressed on all Contour Casings anti-ligature LST radiator solutions.

- Secure anti-ligature mesh behind all grilles
- Anti-ligature TRV shroud
- Internal fixings as standard
- Range of security fastenings
- Anti-ligature base plate

A separate range of products for other anti-ligature applications, such as ceiling grilles, has also been developed.





DORSET HEALTHCARE UNIVERSITY NHS TRUST

PROJECT: Alderney Hospital

MAIN CONTRACTOR: Stepnell Construction

CLIENT: Dorset Healthcare University NHS Trust

DESCRIPTION: Survey, design and supply of 102 Trionic DeepClean Anti-ligature LST radiators, with accompanying pipe boxing. LST radiators include pre-fabricated cut-outs for vinyl flooring and skirting, anti-ligature shroud kit and 8mm Pin Hex security locks.



BIOCOTE® ANTI-MICROBIAL PROTECTION

The Problem

Awareness of so called ‘Superbugs’ such as MRSA and the issue of Healthcare Acquired Infection (HAI) remains high in the public consciousness.

Healthcare associated bacteria such as MRSA have been reported in community associated outbreaks (Source: Centre for disease control, Methicillin-resistant *Staphylococcus aureus* (MRSA) Infections).

The threat of bacteria and the potential for cross-contamination is particularly high in healthcare environments.

There are over 300,000 HAI's each year in England, with over 9000 deaths attributed to MRSA and other “Superbugs” in 2007 (Source: House of Commons Public Accounts Committee – Reducing Healthcare Associated Infection in Hospitals in England – November 2009).

Research into the economic impact of HAI's concluded that the cost of introducing preventative measures is less than treating infections. Around 15-30% of infections could be prevented by better application of best practice, releasing resources of £150 – 300 Million for alternative NHS use.

The Solution

Contour Casings incorporates BioCote® anti-microbial protection into the paintwork of all LST radiator guards. This technology provides effective and permanent protection to the surface of the LST radiator guard, preventing the growth of harmful microbes such as bacteria and fungi.

BioCote® technology protects product surfaces from microbes, resisting the negative impact they can have on a product and the environment they are used within.

BioCote® is:

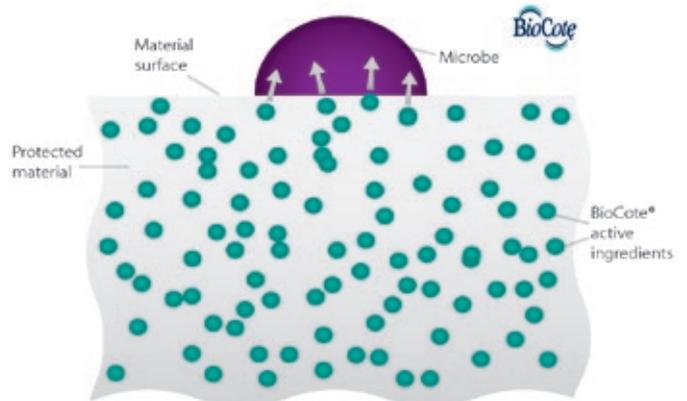
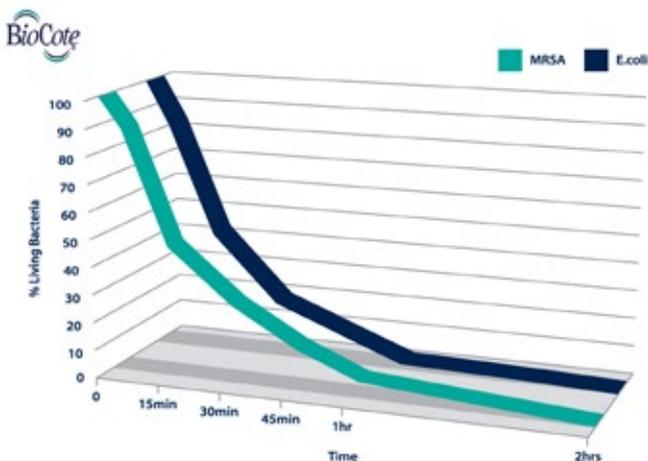
- **Effective** - The silver ions in BioCote® damage the cell wall, disrupting energy production and other cellular functions and stopping microbes from reproducing.
- **Proven** - BioCote® is a proven broad spectrum anti-microbial technology, effective against a wide range of bacteria, fungi and the H1N1 virus.
- **Performance** - BioCote® treated surfaces show significant reductions within just 15 minutes and up to 99.5% reduction in under 2 hours. This performance will last for the expected lifetime of the product.

Proven Protection

A regular schedule of laboratory-based QC testing is conducted to ensure the continual efficacy of Contour's LST solutions treated with BioCote®.



Contour also commissions in situ studies, which demonstrate significant reductions in bacteria on modern, full access radiator guards and identifies BioCote® as an integral component of good hygiene practice.



MICROBIOLOGICAL STUDY

Healthcare Sector | July 2013



Hypothesis

- Understand levels and diversity of bacteria present on traditional LST radiator guard which has no access for cleaning or anti-microbial coating, compared to a modern solution that has complete internal access and anti-microbial protection
- The convection process, heat and airborne routes of transmission have been identified as contributing toward microbial distribution
- Biocides and disinfectants play a major role in eliminating organisms; integration into building service elements can aid prevention and surface transmission

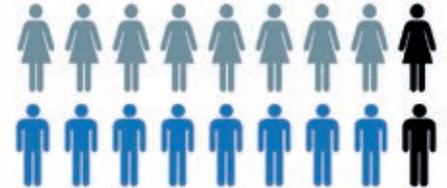
Methodology

- Swabbing samples were collected from the same number of radiator guards in a refurbished hospital corridor which had modern radiator guards and also a non-refurbished corridor which had traditional radiator guards
- In total a surface area of 0.2m² was swabbed on each guard
- Swabbing locations included internal and external guard surfaces, exposed internal rear wall and the emitter

Did you know...

1 in 9

patients in European hospitals has at least one hospital acquired infection



and that...

adults with a HAI spend 2.5 times longer in hospital resulting in higher treatment costs.



2.5x longer

Traditional Guard

More Bacteria



85%

503%

Over 500% more microbial colonies were found on the non-treated traditional radiators compared to the treated modern LST guards.

91%

Mean reduction in microbe loading when considering internal surfaces of the radiator guards only.

86%

Mean reduction when both internal and external surfaces of the radiator guards were analysed.

83%

Mean reduction in microbe loading when external radiator guard faces only were examined.

82%

Mean reduction in microbe counts when the exposed internal rear wall and emitter were also taken into consideration.

To request a full copy of the study or discover how we can help, please call:

01952 290 498

or visit

www.contourcasings.co.uk

Modern LST Guard

CONTOUR'S BIM PROGRAMME

All Contour Casings solutions have been modelled into high-quality BIM objects, available for download via the UK's first fully BIM-enabled fabricated building solutions website.

Built parametrically, Contour's pioneering content can be "stretched" to an almost limitless range of sizes and shapes.

The entire Contour LST radiator and radiator guard ranges have been modelled into intelligent MEP BIM objects, available via a unique set of "Quick Link" buttons on the Contour website and allowing designers to identify and specify the precise solution, quickly and simply.

Contour's BIM components are loaded with exhaustive background data, enhancing scheduling and estimation and allowing pre-emptive decisions to be made for the full life-cycle of a building.

Contour's BIM content has been built to allow maximum design flexibility for the user; each model has a multitude of user-controlled design options and with a dynamic rendering facility which delivers an array of vibrant finishes for client visualisations.

Contour's data-rich BIM content can be downloaded fast and for free via the resource centre at www.contourcasings.co.uk



LOW SURFACE TEMPERATURE BIM OBJECTS

Contour's low surface temperature BIM components are modelled as individual families, which can be manipulated and bespoke to meet precise project requirements.

Wall and floor mounted radiator guard BIM objects are available, with adjustable height, depth and length parameters. A range of internal and external TRV's can also be selected.

An array of fastening devices can be added to the models, with pipework / skirting cut-out options available for retrofit applications and to aid scheduling.

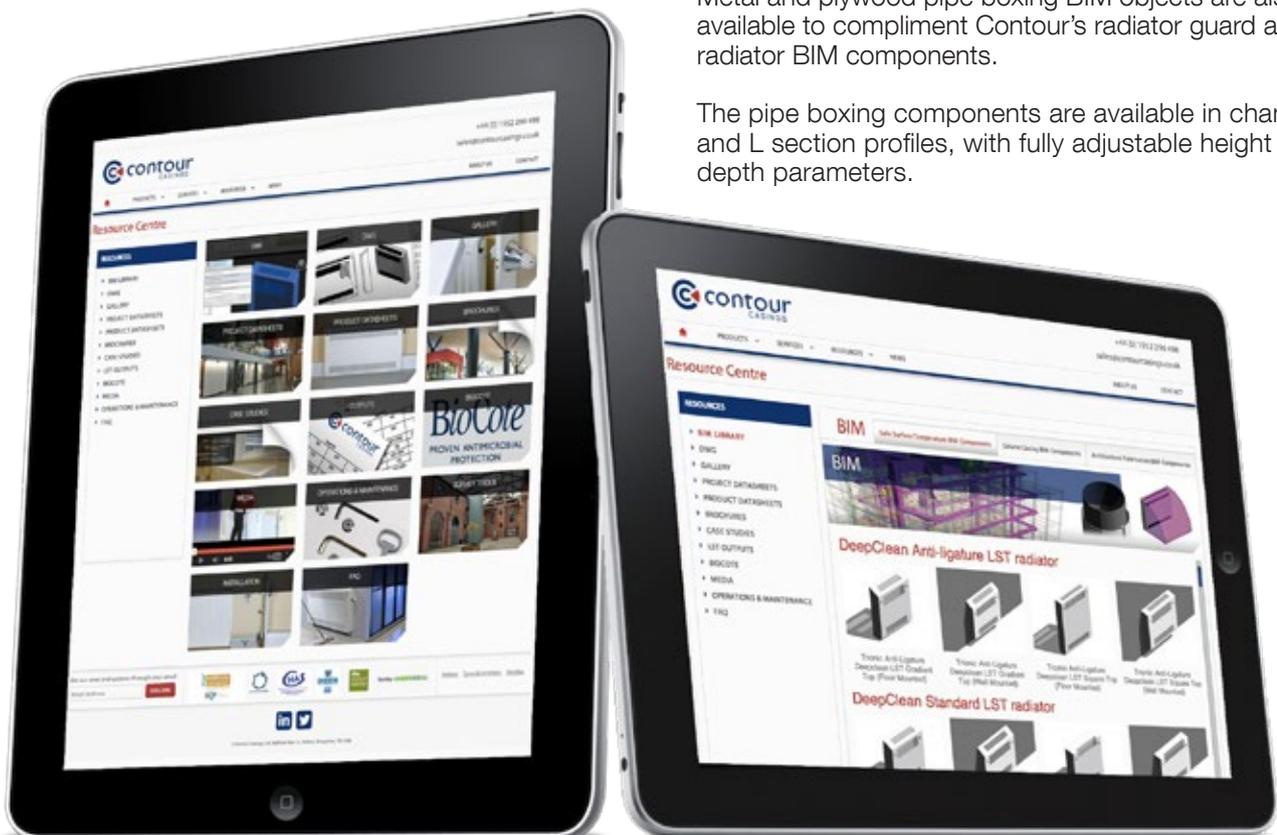
Clearance zones show the amount of space required when positioning objects in high-traffic areas or plant rooms.

For secure environments, a range of anti-ligature options can also be selected.

Metal and plywood pipe boxing BIM objects are also available to compliment Contour's radiator guard and LST radiator BIM components.

The pipe boxing components are available in channel and L section profiles, with fully adjustable height and depth parameters.

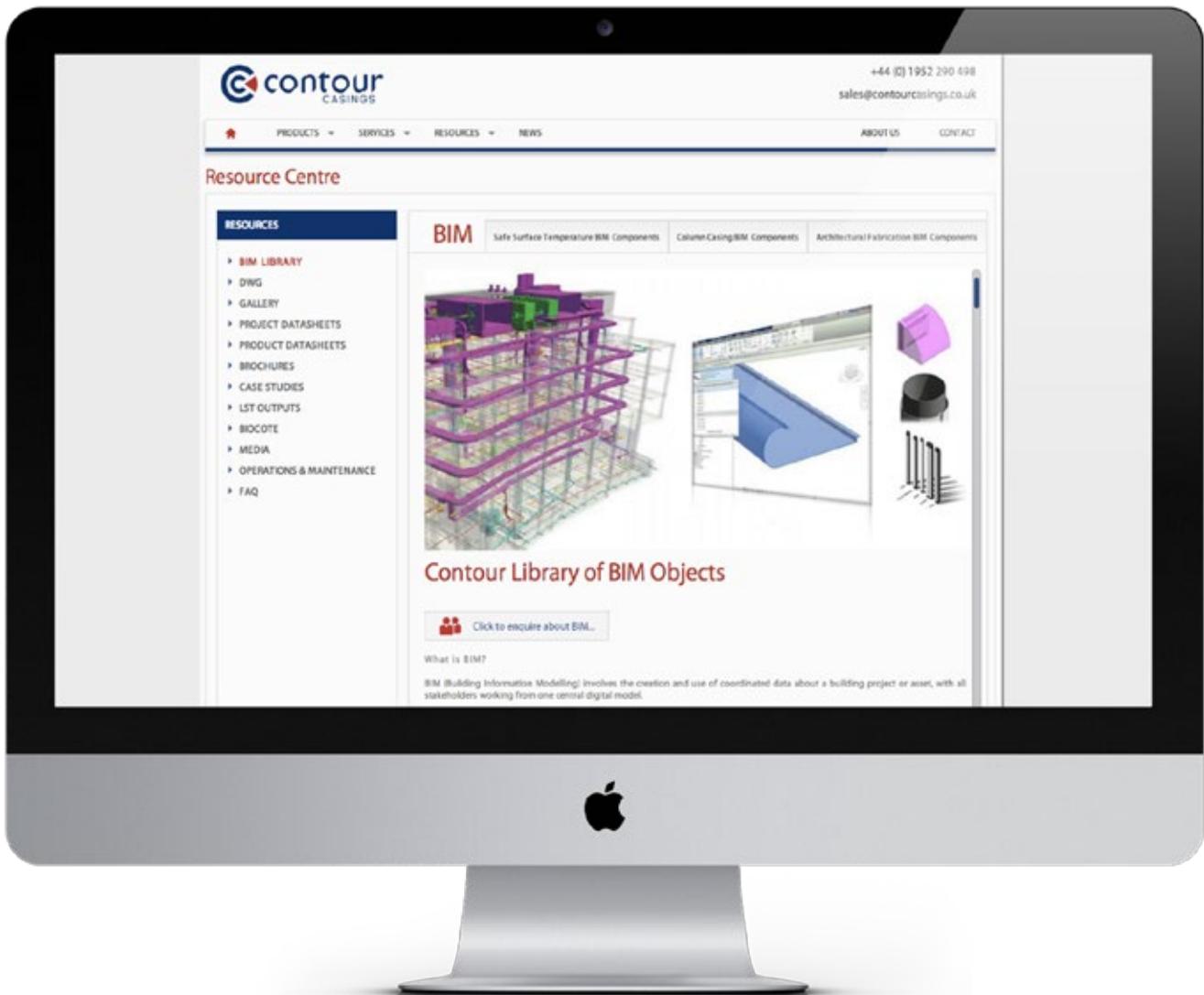
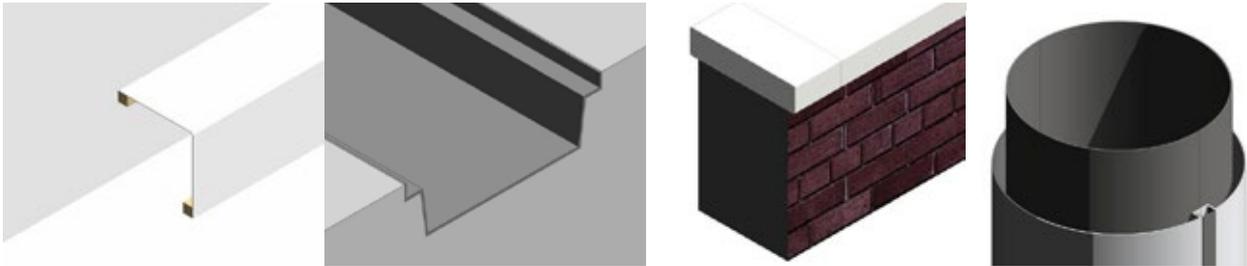
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OTHER CONTOUR BIM COMPONENTS

In addition to LST radiator guard BIM components, Contour has developed an extensive library of other pioneering BIM objects, spanning a broad range of architectural and building services fabrications, these include;

- Aluminium Parapet Wall Coping
- Aluminium Fascia & Bullnose
- Aluminium Soffit
- Column Casings
- CDT Floor Ducting
- Pipe Boxing



OUR SERVICES

Contour Casings offer a complete survey, design, manufacture and installation package – reducing the number of subcontractor liaisons and streamlining operations.

Lead Times

Contour’s advanced in-house manufacturing facility provides short lead times and complete quality control, with lead times of up to half that of other radiator guard suppliers.

Technical Support & Bespoke Design

Contour Casings provide a bespoke design service for projects with unique requirements (See Page 18 - 19).

Our technical team are available to discuss your needs, ensuring a product matching your exact criteria is delivered.

Please call us on; Tel: 01952 290 498, or Email: technical@contourcasings.co.uk



Site Surveys

Free site surveys are available from Contour Casings, ensuring manufacturing and supplied products are accurate.

Technical surveyors will assess the environment and identify the correct size of product needed, taking note of any cut-outs or special requirements that are necessary. These are programmed into manufacture, making the installation process more efficient and less disruptive.

Radiator Guard Installation

If required, experienced installation and project management teams can handle the entire project for you through to completion.

The project management team work closely with the contractor on all aspects of the installation, providing project programmes, method statements, risk assessments, COSHH documentation, flexible working practices and O&M manuals.

All installers hold CSCS cards, are CRB checked and have manual handling, safety and asbestos awareness training.

Contour’s installation team has extensive experience operating in a wide range of sensitive environments, minimising disruption to building occupants at all times.



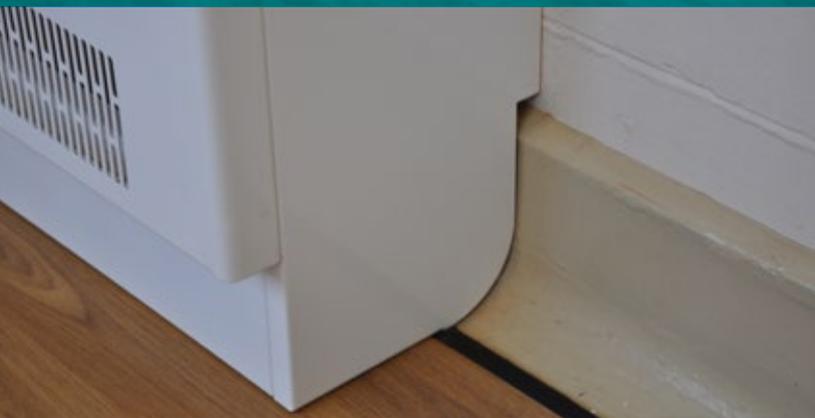
WARSTONES PRIMARY SCHOOL

CLIENT: Wolverhampton Local Authority

PROJECT: Warstones Primary School

CONTRACTOR: Jacob's Consulting Engineers

DESCRIPTION: Survey, design and installation of 20 Trionic DeepClean radiator guards, with pre-fabricated cut-outs and associated pipeboxing



STANDARD DEEPCLEAN LST RADIATOR GUARD

Application

For demanding healthcare, education and commercial environments which require regular cleaning and maintenance, the design of the DeepClean LST radiator guard delivers fast, secure and simple access to every internal surface, while minimising loss of floor space in high-traffic areas.

Manufacture

Manufactured from robust 1.5mm Mild Steel, the one-piece construction and pre-fabricated cut-outs for skirting and pipework deliver a fast installation. No site assembly or cutting is required, minimising disruption to live environments during installation.

The patented design (Pat No. 2 410 544) permits the door to lower down to floor level and also allows complete door removal if required. For external TRV's, side apertures can be provided.

Radius edges and bullnose corners protect service users in the event of a fall and small 5.5mm radius grille apertures remove dust traps and prevent small items or fingers being inserted.

Fixings and Fastenings

All fixings are internal to remove tamper points and deliver a neat finish. Fast and simple fastening is by a quarter-turn lock, with a range of locking keys offered.

Finish

The DeepClean LST Radiator Guard is polyester powder coated in RAL 9003 with integrated BioCote® anti-microbial protection as standard.

Standard Specification

Manufacturer:

Contour Casings Ltd, Stafford Park 15, Telford, Shropshire, TF3 3BB,
Tel: 01952 290 498, Email: sales@contourcasings.co.uk

Type:

DeepClean LST Radiator Guard

Top Design:

Square / Gradient Top

Mounting:

Floor Mounted / Wall Mounted

Manufacture:

1.5mm Mild Steel
25mm Radius Edges / Bullnose Corners
Full Height Front Access Door
Patented Open Hinge Door (Pat. No. 2 410 544)
5.5mm Punched Grille
Cut-Outs Programmed into Manufacture
External TRV Apertures Available

Sizes:

Single Casing Length Up To 2000mm
Single Casing Height Up To 1000mm
Lengths Over 2000mm Can Be Achieved
Bespoke Solutions, Extended Guards & Multiple Door Units Available

Finish:

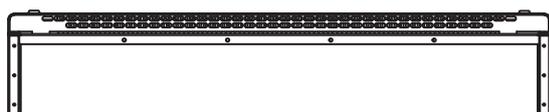
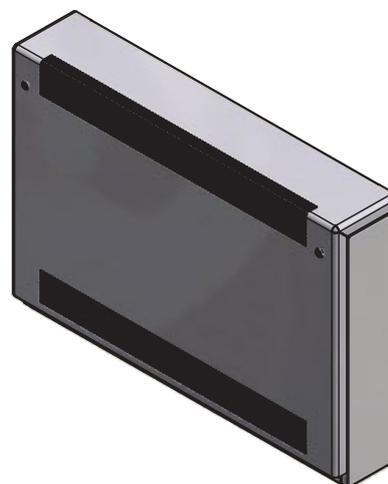
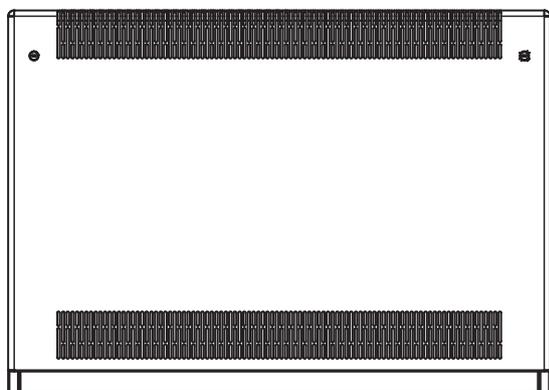
Polyester Powder Coated RAL 9003
Patented BioCote® Anti-Microbial Agent

Fixings:

All Fixings Internal
6mm Allen Key Door Locks
(Security Locks Also Available)

Anti-ligature Options:

Contact Contour for details



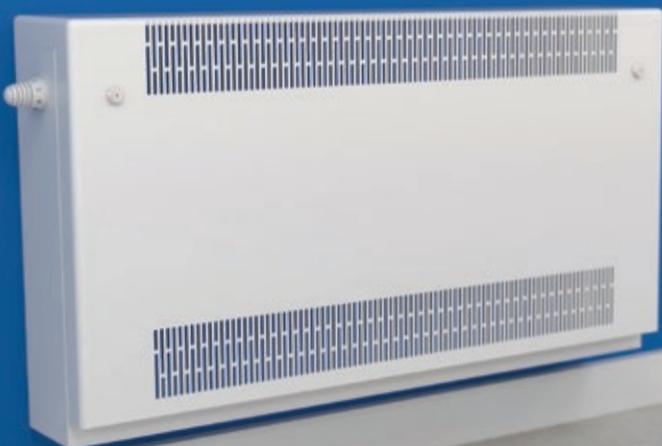
Square Top / Floor Mounted



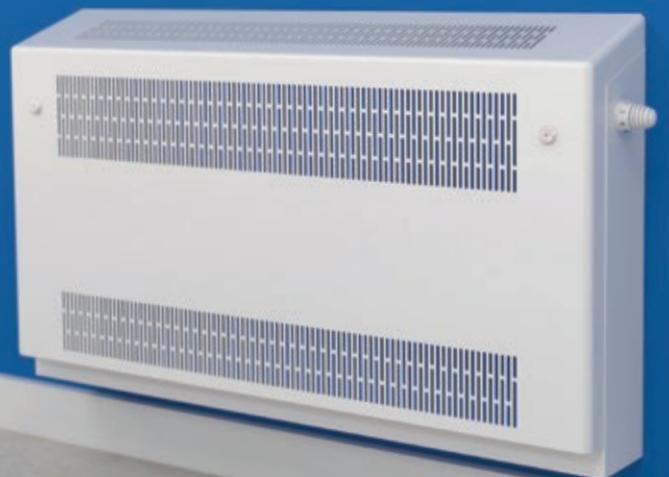
Gradient Top / Floor Mounted



Square Top / Wall Mounted



Gradient Top / Wall Mounted



CLASSIC LST RADIATOR GUARD

Application

For use in environments where protecting service users from high surface temperatures is a priority, the design of the Classic LST Radiator Guard has been developed for application in a range of public spaces.

This cost-effective LST radiator guard solution has hinged doors at either end to deliver fast internal access to valves and controls, also enabling cleaning to the interior of the guard.

Manufacture

Manufactured from robust 1.5mm Mild Steel, the one-piece construction and pre-fabricated cut-outs for skirting and pipework deliver a fast installation. No site assembly or cutting is required, minimising disruption to live environments during installation.

Radius edges and bullnose corners protect service users in the event of a fall and small 5.5mm radius grille apertures remove dust traps and prevent small items or fingers being inserted.

Fixings and Fastenings

An internal joggle bracket and external side lugs deliver a neat finish. Fastening on the hinged side doors is by an Allen key lock.

Finish

The Classic LST Radiator Guard is polyester powder coated in RAL 9003 with integrated BioCote® anti-microbial protection as standard.

Standard Specification

Manufacturer:

Contour Casings Ltd, Stafford Park 15, Telford, Shropshire, TF3 3BB, Tel: 01952 290 498, Email: sales@contourcasings.co.uk

Type:

Classic LST Radiator Guard

Top Design:

Square Top

Mounting:

Floor Mounted / Wall Mounted

Manufacture:

1.5mm Mild Steel
25mm Radius Edges / Bullnose Corners
Hinged Side Doors
5.5mm Punched Grille
Cut-Outs Programmed into Manufacture
External TRV Apertures Available

Sizes:

Single Casing Length Up To 2000mm
Single Casing Height Up To 1000mm
Lengths over 2000mm Can Be Achieved
Bespoke Solutions, Extended Guards & Multiple Door Units Available

Finish:

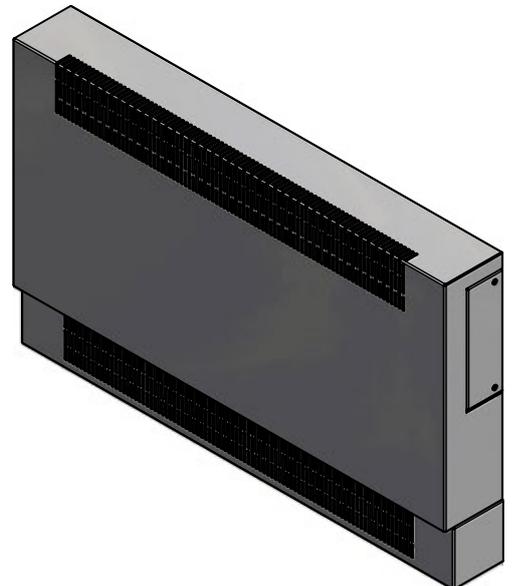
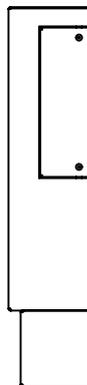
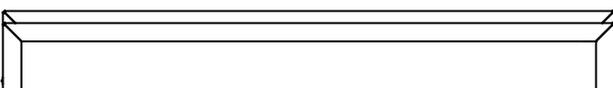
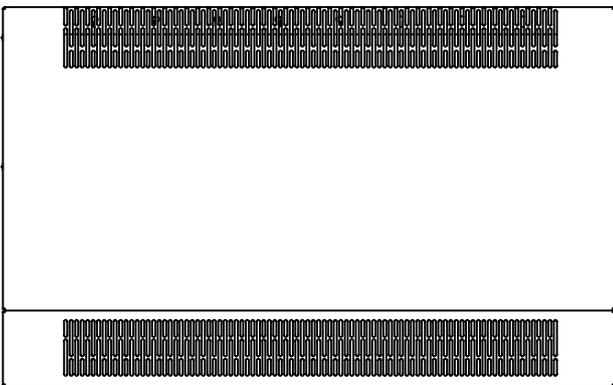
Polyester Powder Coated RAL 9003
Patented BioCote® Anti-Microbial Agent

Fixings:

Internal Top Joggle Bracket
External Side Lugs
Allen Key Door Lock

Anti-ligature Options:

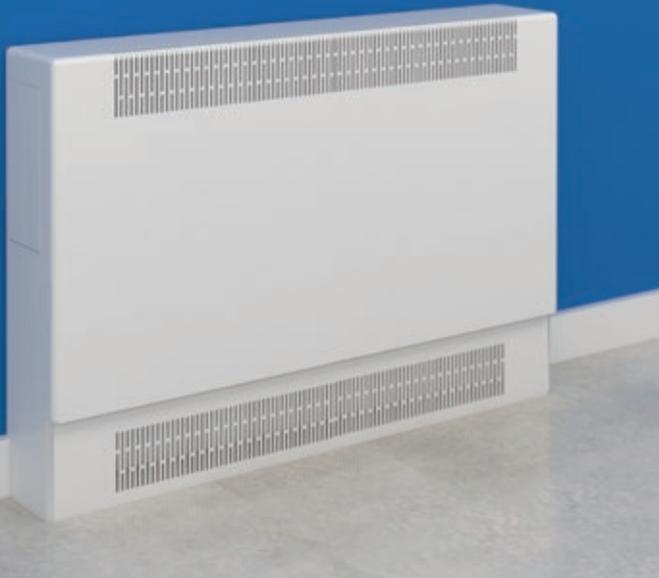
Grille Mesh, TRV Shroud, Base Plate, Fastenings & Fixings.



Square Top / Floor Mounted



Square Top / Wall Mounted



LST RADIATOR GUARD SELECTION GUIDE

To assist with product selection we have produced a general guide based upon typical needs by application.

We would recommend a thorough risk assessment of service user needs before final selection.

The table provides a quick and easy way of finding the LST Radiator Guard Selection Guide that is most suited to yours and your clients needs.

- DeepClean LST Radiator Guard, Anti-Ligature, Floor Mounted, Square Top
- DeepClean LST Radiator Guard, Anti-Ligature, Wall Mounted, Square Top
- DeepClean LST Radiator Guard, Anti-Ligature, Floor Mounted, Gradient Top
- DeepClean LST Radiator Guard, Anti-Ligature, Wall Mounted, Gradient Top
- DeepClean LST Radiator Guard, Floor Mounted, Square Top
- DeepClean LST Radiator Guard, Wall Mounted, Square Top
- DeepClean LST Radiator Guard, Floor Mounted, Gradient Top
- DeepClean LST Radiator Guard, Wall Mounted, Gradient Top
- Classic LST Radiator Guard, Floor Mounted, Square Top
- Classic LST Radiator Guard, Wall Mounted, Square Top

	Library	Rehabilitation Unit	Sport Centre	Rehab Clinic	Prison/Secure Unit	Childrens Home	Youth Centre	School/Nursery	S E N School	Sheltered Housing	Elderly Peoples Home	Psychiatric Unit	Health Centre	Doctor Surgery	Hospital
DeepClean LST Radiator Guard, Anti-Ligature, Floor Mounted, Square Top	Red	Green	Red	Green	Green	Red	Yellow	Yellow	Green	Red	Red	Green	Red	Red	Yellow
DeepClean LST Radiator Guard, Anti-Ligature, Wall Mounted, Square Top	Red	Green	Red	Green	Green	Red	Yellow	Yellow	Green	Red	Red	Green	Red	Red	Yellow
DeepClean LST Radiator Guard, Anti-Ligature, Floor Mounted, Gradient Top	Red	Green	Red	Green	Green	Red	Yellow	Yellow	Green	Red	Red	Green	Red	Red	Yellow
DeepClean LST Radiator Guard, Anti-Ligature, Wall Mounted, Gradient Top	Red	Green	Red	Green	Green	Red	Yellow	Yellow	Green	Red	Red	Green	Red	Red	Yellow
DeepClean LST Radiator Guard, Floor Mounted, Square Top	Green	Red	Green	Red	Yellow	Yellow	Green	Green	Yellow	Yellow	Yellow	Red	Green	Green	Green
DeepClean LST Radiator Guard, Wall Mounted, Square Top	Green	Red	Green	Red	Yellow	Yellow	Green	Green	Yellow	Yellow	Yellow	Red	Green	Green	Green
DeepClean LST Radiator Guard, Floor Mounted, Gradient Top	Green	Red	Green	Red	Yellow	Yellow	Green	Green	Yellow	Yellow	Yellow	Red	Green	Green	Green
DeepClean LST Radiator Guard, Wall Mounted, Gradient Top	Green	Red	Green	Red	Yellow	Yellow	Green	Green	Yellow	Yellow	Yellow	Red	Green	Green	Green
Classic LST Radiator Guard, Floor Mounted, Square Top	Yellow	Red	Yellow	Red	Red	Green	Yellow	Yellow	Red	Green	Green	Red	Green	Yellow	Yellow
Classic LST Radiator Guard, Wall Mounted, Square Top	Yellow	Red	Yellow	Red	Red	Green	Yellow	Yellow	Red	Green	Green	Red	Green	Yellow	Yellow

- Contour Casings recommended LST Radiator Guard for these environments
- Could possibly be used in these environments
- Not advisable to use in these environments

Note: If the project that you are working on is not shown in the above table, please contact our technical department on Tel: 01952 290498 or email us at sales@contourcasings.co.uk for further assistance.

BESPOKE RADIATOR GUARDS

The technical design department at Contour Casings has extensive experience in designing bespoke radiator guards for individual projects that require a precise solution.

① Wall to Wall LST Radiator Guards

To cover-up perimeter heating or finned element, or to take up surplus space between an adjoining wall and a radiator, wall to wall radiator guards help to deliver a uniform finish.

② Radius LST Radiator Guards

To follow existing angled walls or radiators, this product uses Contours' internal wall fixing bracket.

③ Free-standing LST Radiator Guards

For use in applications where fixings are not available to the rear of the radiator, floor mounted fixings are provided.

④ Aluminium LST Guards

For application in areas of high humidity or exposure to water, Aluminium Guards can be wall mounted to facilitate cleaning underneath.

⑤ Alcove Radiator Guards

When a radiator is recessed into a wall, Contour's alcove radiator guard is a system designed to reduce loss of floor space.

⑥ Raised Finned Element Radiator Guards

Designed to deliver a low surface temperature solution to existing raised fin pipe emitters, Contour's engineered system ensures an aesthetic appearance and complete protection for service users.

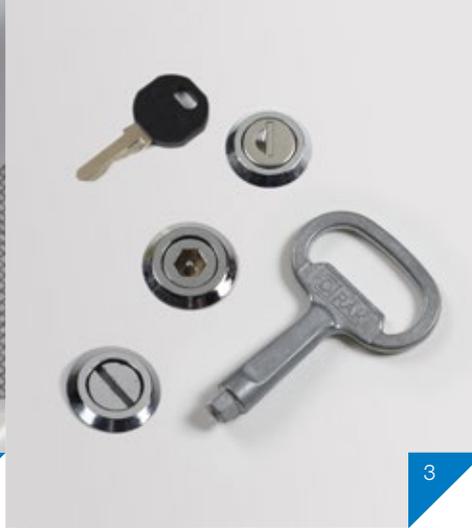
⑦ Vertical LST Radiator Guards

For use in environments where wall space is limited, the vertical guards contain a grille halfway up the guard body, allowing heat to dissipate at the optimum level.





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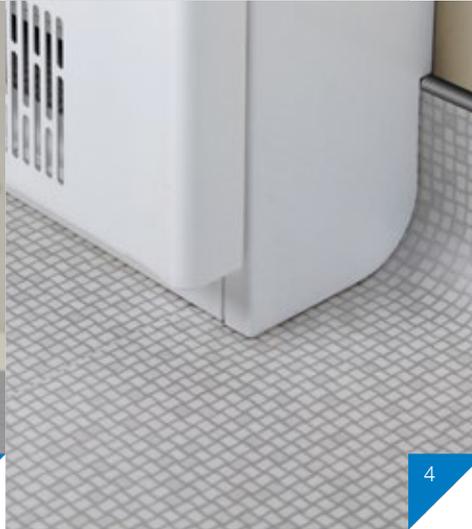
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5



2



4



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BESPOKE OPTIONS

A range of bespoke options can be added to your radiator guard to deliver an exact solution for your specific requirements.

These additional bespoke options deliver added flexibility, allowing you to maintain design control and develop a solution for any environment.

① Door Safety Cables / Chains

For added safety when opening the access door, safety cables can be fitted to the inside of any DeepClean model as an optional safety feature; this is of particular use on oversized doors.

② Rotarad

Rotarad is a unique, WRAS, KTW and ACS approved rotating valve kit, which can be used on both new build projects and retrofitted to existing radiators. The rotating valve allows the emitter to pivot-down away from the wall to the floor, delivering complete access to the rear of the emitter and the wall behind for cleaning and maintenance. A robust bracket holds the emitter upright and against the wall.

③ Special Fastenings

A range of special fastenings is available for application in environments where security and safety are essential considerations; these include Allen Key locks, Pin Hex fastenings and key locks.

④ Radiator Guard Cut-outs

To eliminate disruption, debris and noise when installing in a live environment, all required cut-outs for vinyl flooring, skirting or pipework can be programmed into fabrication. This also helps reduce installation time on site and ensures a far higher standard of finish.

⑤ Universal Valve Adaptor

The technical design department has developed a universal valve adaptor which converts existing valves, allowing them to accept Contour's internal or external valve bodies.

⑥ Front-Facing TRV

When access to the side of a guard is restricted, TRV's can be positioned on the front of a unit.



PIPE BOXING

Application

Contour pipe boxing is a range of metal and preformed plywood pipe boxing solutions, suitable for application in commercial and domestic applications.

Robust and with a flawless finish, the composition of the pipe boxing excels in high-traffic areas and the smooth finish enables easy cleaning.

These solutions are widely-specified across Healthcare, Education and Local Authority sectors.

A complete turnkey solution is available, from survey, design and manufacture, through to installation.

Manufacture

Metal pipe boxing manufactured from 1.2mm Mild Steel, access panels for internal services can be programmed into manufacture, delivering a fast, clean, low disturbance installation. Preformed plywood is available in 8mm thickness.

The flexibility of the range incorporates almost any size, with a wide choice of profiles and angled corners available.

Venting can also be programmed into fabrication without compromising lead time on metal pipe boxing.

The one-piece construction of metal pipe boxing removes the presence of dirt traps.

A range of accessories are available, including stop ends, internal / external corners and a range of jointing methods.

Fixings and Fastenings

Security fixings can be provided for secure environments. Metal pipe boxing uses a mechanical fix and plywood boxing uses wooden battens.

Finish

Metal pipe boxing is polyester powder coated and plywood pipe boxing is white Melamine. Anti-microbial paint can be incorporated.

Standard Specification - Metal

Manufacturer:

Contour Casings Ltd, Stafford Park 15, Telford, Shropshire, TF3 3BB, Tel: 01952 290 498, Email: sales@contourcasings.co.uk

Material Specification:

For interior applications pressed Mild Steel Sheet to BS EN 10152 Minimum Thickness 1.2mm

For exterior applications pressed Aluminium Alloy Sheet to BS EN 485/515/573, Grade 1050A/H14/4015-812. Minimum Thickness 2mm

Shapes:

L Section / U Channel

Sizes:

See table opposite

Bespoke sizes available, contact Contour for details

Finish:

Polyester Powder Coated to all visible faces in any RAL or BS colour.

Optional BioCote® anti-microbial agent available

Accessories:

Stop-ends, welded internal and external corners, jointing straps, access panels

Method of Jointing:

Internal or External jointing straps with mechanical fix

Installation:

90° angled fixing bracket

Standard Specification – Preformed Plywood

Supplier:

Contour Casings Ltd, Stafford Park 15, Telford, Shropshire, TF3 3BB, Tel: 01952 290 498, Email: sales@contourcasings.co.uk

Material Specification:

8mm Preformed Plywood. Vented boxing available.

Shapes:

L Section in 90° & 115° Profiles

U Channel in 180° Profile. Double Angles available.

Sizes:

See table opposite

Bespoke sizes available, contact Contour for details

Finish:

White Melamine as standard. Veneers and anti-microbial paint also available

Accessories:

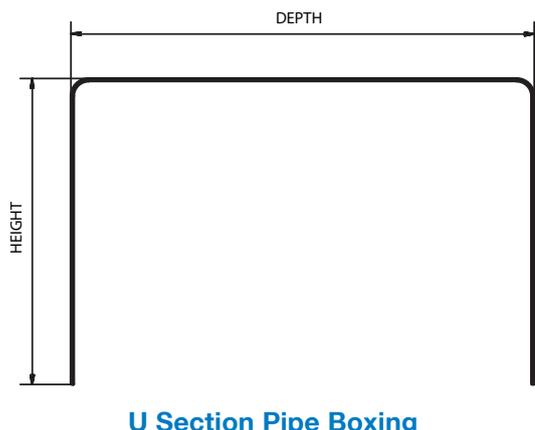
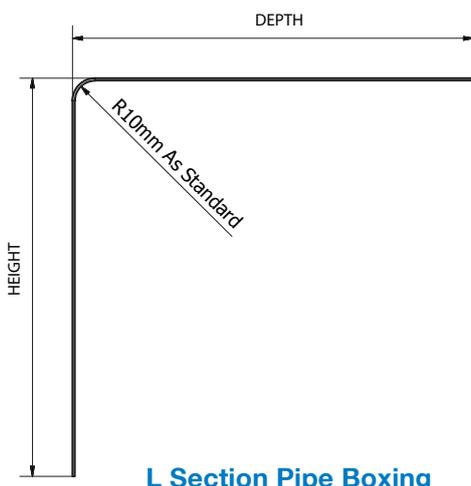
Stop-ends, internal and external corners, butt joint covers, timber fixing battens, fixing screws

Method of Jointing:

Butt Joint, PVC Shadow Gap Joint and Aluminium Shadow Gap Joint

Installation:

Wooden battens



PIPE BOXING STANDARD SIZES

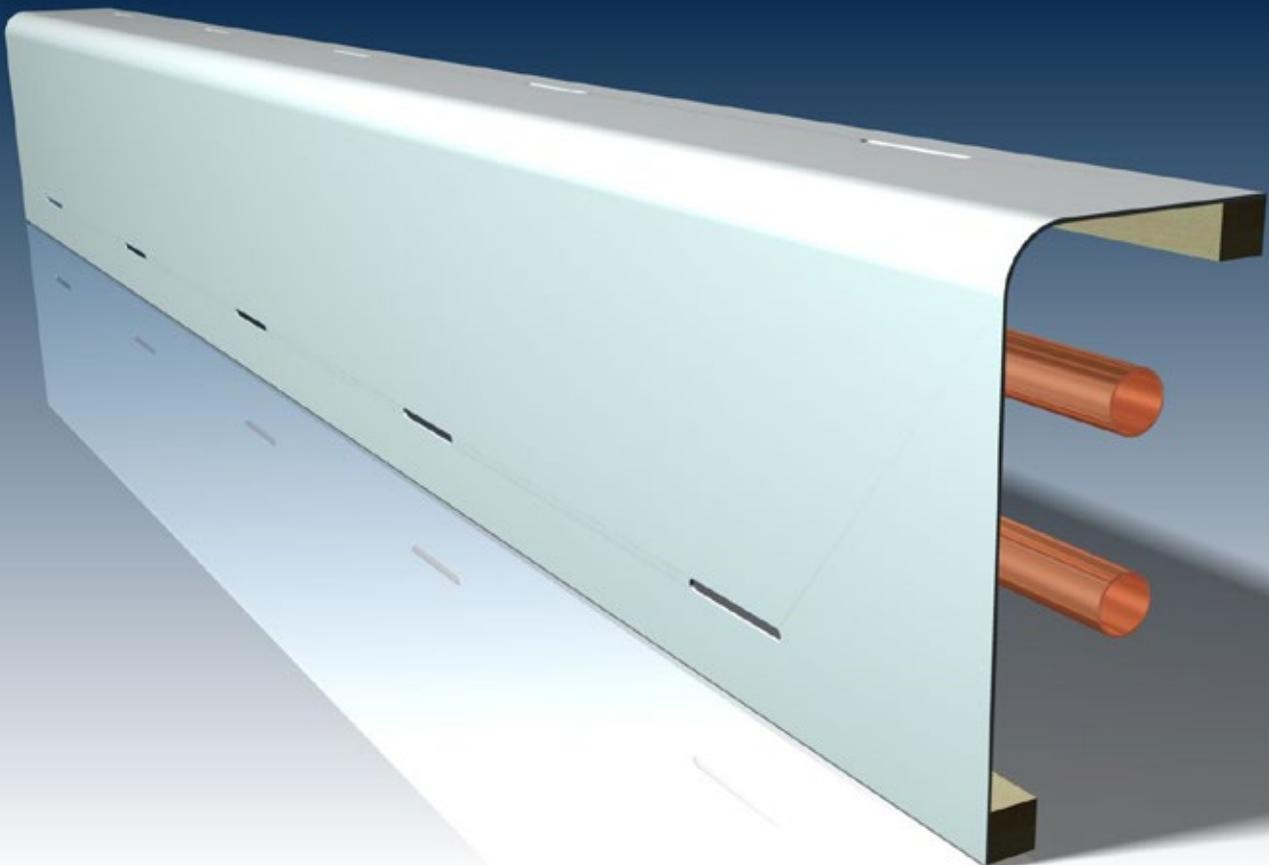
8mm L Section Plywood Pipe Boxing - Standard Sizes						
Depth (mm)	Thickness (mm)	Lengths (mm)		Weight (kg)		Finish
				2.5m	3.0m	
100	8	2500	3000	2.5	3.1	White Melamine
100	8	2500	3000	3.4	4.1	
150	8	2500	3000	3	3.6	
150	8	2500	3000	3.8	4.6	
200	8	2500	3000	3.4	4.1	
200	8	2500	3000	4.2	5.1	
300	8	2500	3000	5.1	6.1	



1.2mm L Section Zintec Mild Steel Pipe Boxing - Standard Sizes						
Depth (mm)	Thickness (mm)	Lengths (mm)		Weight (kg)		Finish
				2.5m	3.0m	
100	1.2	2500	3000	4.7	5.6	PPC Mild Steel
150	1.2	2500	3000	7.1	8.4	
200	1.2	2500	3000	9.4	11.3	
250	1.2	2500	3000	11.8	14.1	
300	1.2	2500	3000	14.1	16.9	
400	1.2	2500	3000	18.9	22.6	
500	1.2	2500	3000	23.6	28.2	

8mm U Section Plywood Pipe Boxing				
Depth (mm)	Height (mm)	Length (mm)	Weight (kg)	Finish
100	200	3000	4.1	White Melamine
150	200	3000	5.1	
200	200	3000	6.1	
100	400	3000	6.1	
150	400	3000	7.1	
200	400	3000	8.1	

1.2mm U Section Zintec Mild Steel Pipe Boxing				
Depth (mm)	Height (mm)	Length (mm)	Weight (kg)	Finish
100	100	3000	8.4	PPC Mild Steel
150	150	3000	12.7	
200	200	3000	16.9	
300	300	3000	25.4	
400	400	3000	33.9	
500	500	3000	42.3	



OTHER PRODUCTS

Contour Casings also design, manufacture and install a wide range of other fabricated building solutions, ensuring the same short lead times, quality control and bespoke design.

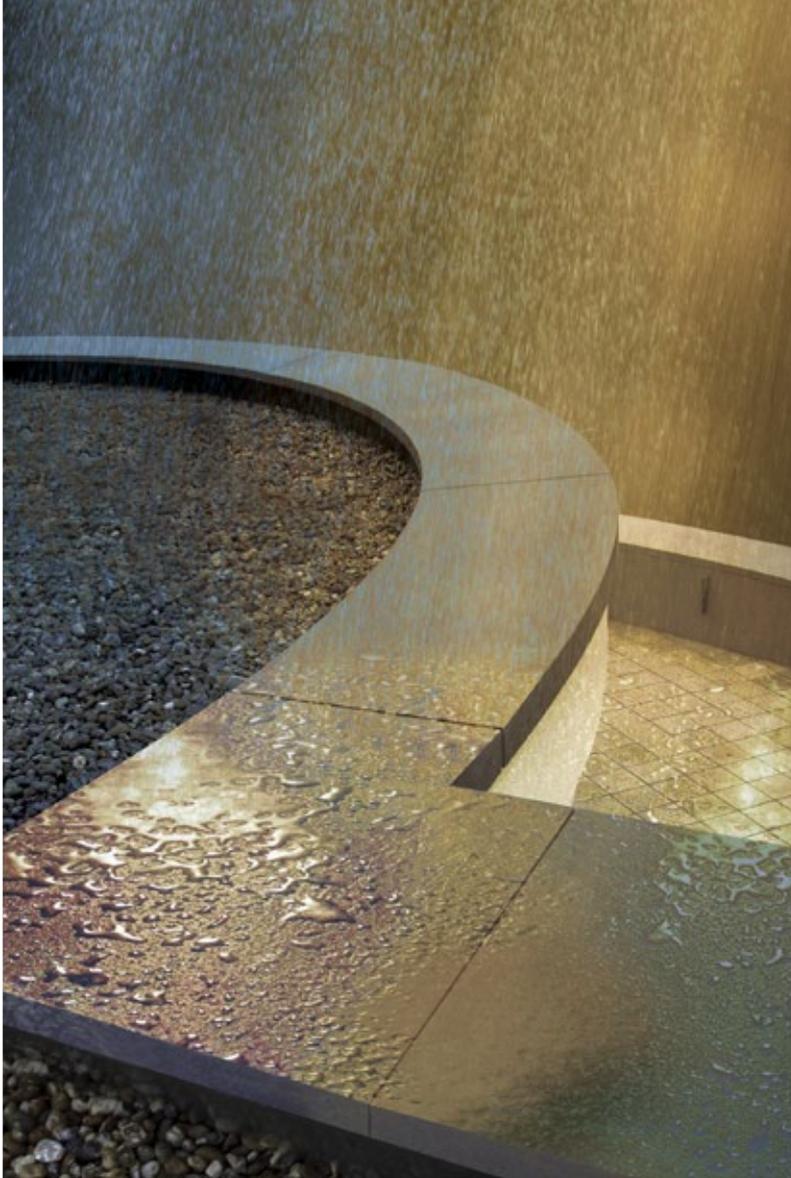
LST Radiators

The Trionic DeepClean LST radiator and the Contour Classic LST radiator have been developed for application in demanding public spaces. These robust, hygienic, practical and slim line solutions deliver outstanding long-term energy performance and protection from hot surfaces.



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Architectural Fabrications

Contour Casings manufacture an extensive range of architectural Aluminium fabrications to your exact specifications, comprising parapet wall coping and capping, fascia / soffit solutions, flashings and trims, rainwater goods and window sills.



Column Casings

Contour offer an extensive range of metal column casing systems. Column Casings are suitable for both internal and external environments and can be manufactured to almost any size and shape. Material options include; PPC Aluminium, brushed Aluminium, Stainless Steel and Rimex textured metal. Casings can be stacked for extended heights, with access panels available for channelling services.





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