

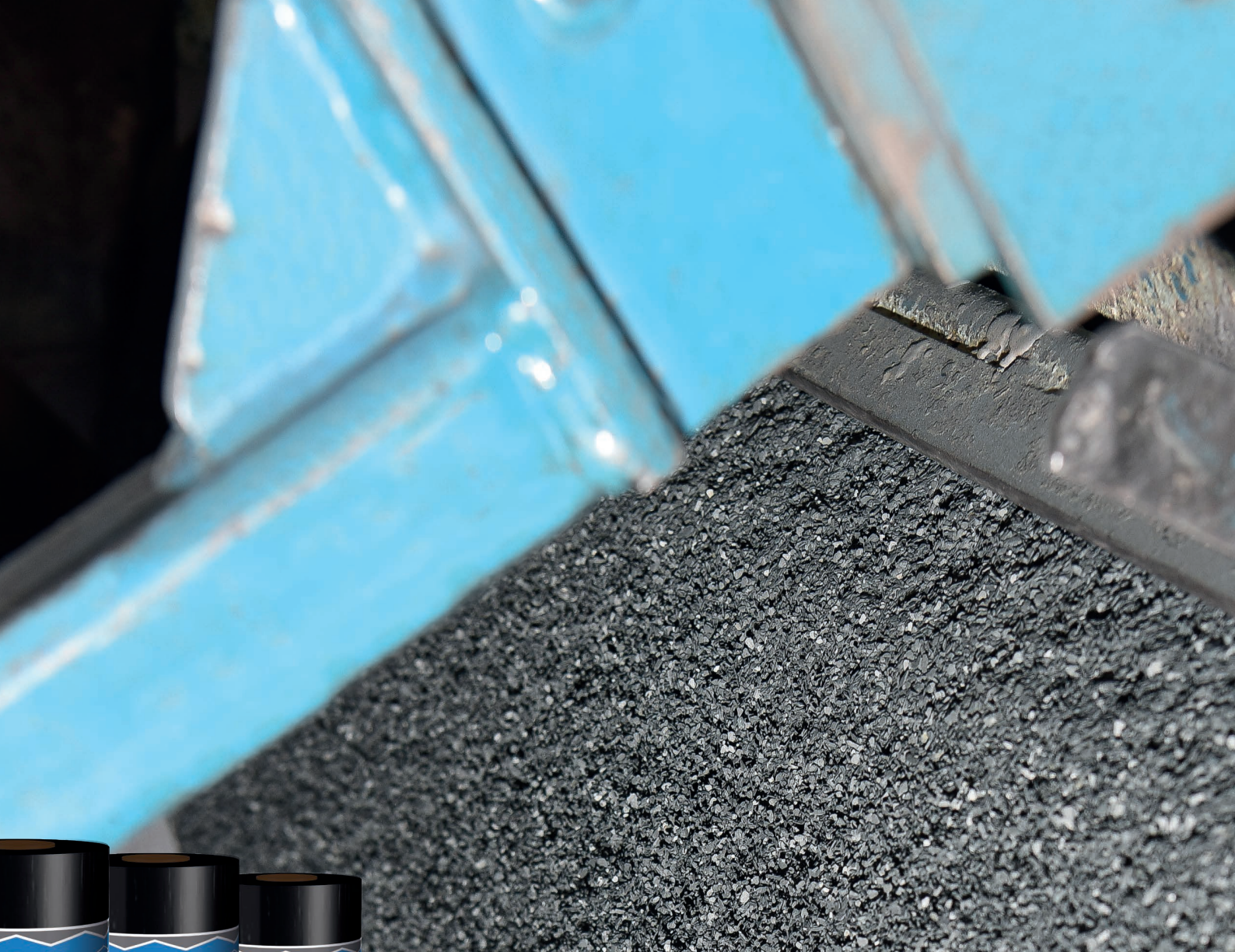
High Performance Bituminous Roofing Solutions

Over Four Decades of Roofing Excellence

Chesterfelt is a specialist manufacturer and distributor of high quality bituminous waterproofing products and has a long track record stretching back over forty years. The company prides itself on its ability to provide reliable products and exceptional customer service to roofing contractors, merchants, specifiers and building owners nationwide.

The Chesterfelt range of high-performance roofing membranes includes carefully selected vapour control layers, underlays and cap sheets and has been specially designed for the professional roofing contractor. The membranes are perfectly suited to a wide range of applications and are supported by comprehensive materials guarantees for complete peace of mind.





“ Chesterfelt products are manufactured in the UK to the highest ISO 9001 quality management standards and are CE marked and UKCA to EN 13707:2004+A2:2009. ”

Chesterfelt Vapour Control Layers & Underlays

Chesterfelt offer both traditional and contemporary preparation membranes which form the ideal base for a multi-layer roofing system. With a range of glass-fibre and polyester reinforced underlays and dedicated options for vapour control, these membranes are offered in a variety of weights and finishes.

Selected products also incorporate SBS modification for enhanced performance in demanding conditions. For combustible decks requiring flame-free application, there is also a self-adhesive vapour control layer which features an aluminium foil finish.

Product Code	Product Name	Base	Top / Bottom Finish	Application	Roll Size	Weight / m ²	Weight / Roll
2172	Deflector Underlay	Glass	Sand / Film	Torch-on	16m x 1m	2.0kg	32kg
P838	Universal Underlay SBS	Glass	Sand / Film	Torch-on	16m x 1m	2.0kg	32kg
P813	Peak Underlay SBS	Glass	Film / Film	Torch-on	12m x 1m	3.0kg	36kg
P901	Laser Gold Underlay SBS	Polyester	Sand / Film	Torch-on	12m x 1m	3.0kg	36kg
2203	Deboflex Film/Film Underlay	Polyester	Film / Film	Torch-on	16m x 1m	2.0kg	32kg
2174	Universal Polyester Underlay	Polyester	Sand / Film	Torch-on	12m x 1m	3.0kg	36kg
2706	Debovent Glass Fibre	Polyester	Film / Film	Torch-on	16m x 1m	1.4kg	22kg
P710	Chesterfoil S-A Vapour Barrier	Aluminium	Foil / S-A Film	Self-Adhesive	40m x 1.08m	0.7kg	29kg

“ Our high performance membranes have been specially formulated for the professional roofing contractor. ”



Chesterfelt Torch-on Cap Sheets

Chesterfelt's high performance cap sheets incorporate a tough polyester base and are all torch-applied to the relevant underlay membrane. The range includes a choice of membrane weights and a variety of mineral coloured finishes.

In addition, our top performing torch-on cap sheets include SBS modification to provide the ideal combination of high temperature stability and low temperature flexibility.

Laser Gold	Product Code	Product Name	Finish	Roll Size	Weight / m ²	Weight / Roll	Guarantee
	P902	Laser Gold Polyester Plain	Plain / Sand	8m x 1m	4.5kg	36kg	20 Years
	P903	Laser Gold Polyester Green	Green Mineral	8m x 1m	5.0kg	40kg	20 Years
	P906	Laser Gold Polyester Charcoal	Charcoal Mineral	8m x 1m	5.0kg	40kg	20 Years

Deflector Plus 5	Product Code	Product Name	Finish	Roll Size	Weight / m ²	Weight / Roll	Guarantee
	2180	Deflector Plus 5 Green	Green Mineral	8m x 1m	5.0kg	40kg	15 Years
	2181	Deflector Plus 5 Charcoal	Charcoal Mineral	8m x 1m	5.0kg	40kg	15 Years

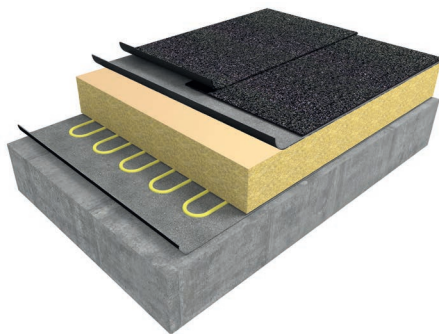
Deflector	Product Code	Product Name	Finish	Roll Size	Weight / m ²	Weight / Roll	Guarantee
	2176	Deflector Polyester Plain	Plain / Sand	8m x 1m	4.5kg	36kg	10 Years
	2175	Deflector Polyester Green	Green Mineral	8m x 1m	4.5kg	36kg	10 Years
	2178	Deflector Polyester Charcoal	Charcoal Mineral	8m x 1m	4.5kg	36kg	10 Years

Chestertorch	Product Code	Product Name	Finish	Roll Size	Weight / m ²	Weight / Roll	Guarantee
	P825	Chestertorch Polyester Plain	Plain / Sand	8m x 1m	4.0kg	32kg	N/A
	P826	Chestertorch Polyester Green	Green Mineral	8m x 1m	4.0kg	32kg	N/A
	P827	Chestertorch Polyester Brindle	Brindle Mineral	8m x 1m	4.0kg	32kg	N/A
	P829	Chestertorch Polyester Charcoal	Charcoal Mineral	8m x 1m	4.0kg	32kg	N/A

Guarantee System Selection

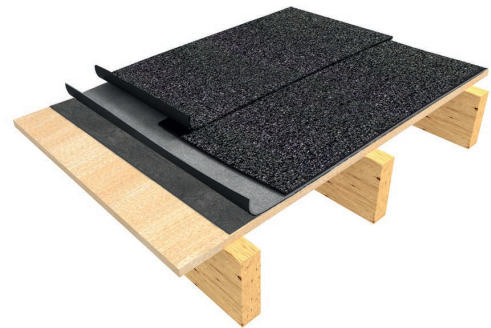
Chesterfelt's bituminous roofing membranes can be combined to create a selection of high performance waterproofing systems, supported by comprehensive materials guarantees:

Warm Roof Systems

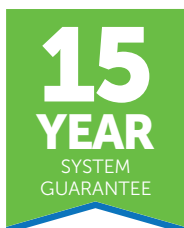


Vapour Control: Chesterfoil
Insulation: Torch Receivable as Specified
Underlay: Universal Underlay
Cap Sheet: Deflector Mineral

Cold Roof Systems



First Layer: Strongbond 180 Sand (nailed)
Underlay: Universal Underlay
Cap Sheet: Deflector Mineral



Vapour Control: Chesterfoil
Insulation: Torch Receivable as Specified
Underlay: Universal Underlay
Cap Sheet: Deflector Plus 5 Mineral

First Layer: Strongbond 180 Sand (nailed)
Underlay: Universal Underlay
Cap Sheet: Deflector Plus 5 Mineral



Vapour Control: Chesterfoil
Insulation: Torch Receivable as Specified
Underlay: Laser Gold Underlay
Cap Sheet: Laser Gold Mineral

First Layer: Strongbond 180 Sand (nailed)
Underlay: Laser Gold Underlay
Cap Sheet: Laser Gold Mineral

The above systems are shown as illustrative representations only – for alternative decks please consult Chesterfelt Technical Services for guidance on the most suitable system build-up.

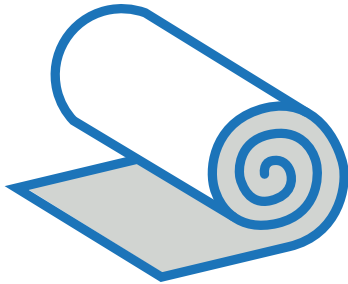


“ Established in 1978, Chesterfelt has been proudly manufacturing high quality roofing and waterproofing solutions in the UK for over forty years. ”

Chesterfelt Good Practice Guide

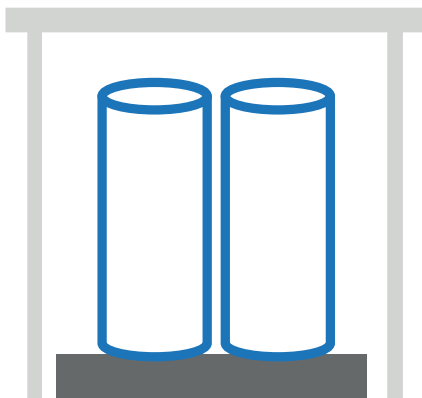
The following guide has been put together to help ensure that Chesterfelt bituminous roofing membranes are always installed in accordance with the latest British Standards and Codes of Practice.

For further details please speak to the Chesterfelt Technical Team or consult the relevant standards such as BS 6229:2018 and BS 8217:2005.



Choosing materials

Chesterfelt roofing materials should be selected according to the type of substrate on which they are being applied and the proposed method of attachment. Selection to take into account particular requirements for fire resistance, aesthetics, solar reflectivity, roof access and traffic along with any special requirements for chemical resistance.



Storing equipment and materials

Chesterfelt roofing materials should be stored carefully on end upon clean, dry, level surfaces, under cover and clear of the ground. The same protection should be given to materials temporarily kept outdoors or on the roof during construction. If materials become wet during storage, they should be dried fully before construction, or rejected if they become susceptible to weakening.



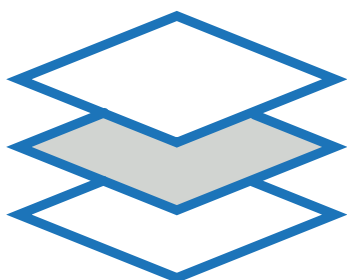
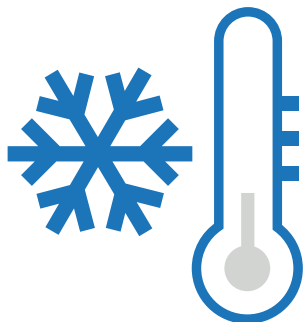
Preparation

Before roofing begins, all necessary scaffolding should be in position together with hoisting facilities. It is important that all roofs are provided with safety rails and all openings are adequately protected for the safety of workmen and public.

The deck should be in an adequate condition to receive the roofing (see Clause 8.10 of BS 8217:2005) and all necessary builder's work should be completed.

Only sufficient materials for the day's requirements should be taken out of store and placed convenient to the area being worked. They should only be unwrapped immediately prior to use and all wrapping materials should be disposed of responsibly.

Installing Chesterfelt roofing products



Preliminary work

Before the works proceed, the contractor should ensure that the surfaces to receive the waterproofing are acceptable and that the specification conforms to the requirements. Attention should always be given to relevant Health and Safety requirements, along with any additional requirements that have been specified for the working procedures.

Working conditions

Reinforced bitumen roofing membranes should not be laid in frost, rain, snow, high winds or in extremes of temperature. Successive roof layers should be laid with the minimum of delay, to avoid trapping water during construction. Works should also be planned so that, at the end of each day, or earlier if adverse weather develops, a "night joint" can be formed to seal off the completed (or part-completed) areas to prevent water ingress. A strip of robust bitumen membrane roofing should be dressed over and sealed onto new and old sections along the full working edge.

Methods of attachment

Chesterfelt's bitumen roofing membranes should be suitably attached to the substrate, and to each subsequent layer, in order to resist wind uplift forces. The edges of the roof should be closed off against entry of air to the underside of the waterproofing.

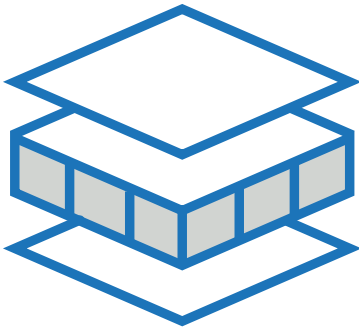
Preparing and priming the deck

Any substrate to receive reinforced bitumen membrane roofing should be dry, even, free of dust, debris, laitance, grease, projecting nail heads, mortar snots, holes or sharp arises. Prior to the installing the vapour control layer, supporting decks should be primed with a suitable primer and allowed to dry, except when bonding to either plywood or OSB boards.

Installing the vapour control layer (VCL)

Vapour control layers should be securely attached to the supporting substrate in order to resist the design wind pressure, with all joints lapped by 75mm and bonded. Torching a VCL is not recommended unless it has been specifically designed for torch application and the roof deck is non-combustible. Self-adhesive VCLs such as Chesterfoil should only be used on very even, smooth surfaces. Care should also be taken to observe the minimum material application temperatures in accordance with the relevant technical data sheet.

At all edges, abutments, and penetrations the VCL should be either turned back at least 150mm onto the insulation and sealed down or turned up and sealed to the main roof covering for at least 50mm, to encapsulate the insulation.



Laying insulation boards (warm roofs)

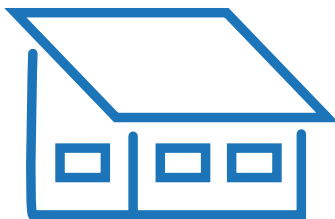
Insulation boards should be sufficiently bonded to the vapour control layer or substrate to ensure adequate restraint and resistance to wind uplift. All joints should be close butted and cross-joints staggered to minimise cold bridging. The layout of insulation boards should be carefully planned and a treated timber 'hard edge' or similar protection should be incorporated at all exposed insulation edges to prevent crushing under traffic. For further details on suitable fixing methods (cold adhesive, mechanical fixings etc), please consult with the insulation board manufacturer.



Bituminous membrane roofing

Chesterfelt's reinforced bituminous roofing membranes are generally applied in two or more layers and are bonded together with sealed joints in order to form a continuous waterproofing covering.

NB: Chesterfelt's torch-applied materials should only be installed by trained professionals. Special care must be taken when working in the close vicinity of combustible materials and the NFRC's Safe2Torch guidelines MUST be followed at all times.



Sloping and Vertical work

For guidance on installing Chesterfelt bituminous membranes onto sloping or vertical substrates, please consult the recommendations contained within BS 6229:2018 and BS 8217:2005 or speak to our Technical Services Department.



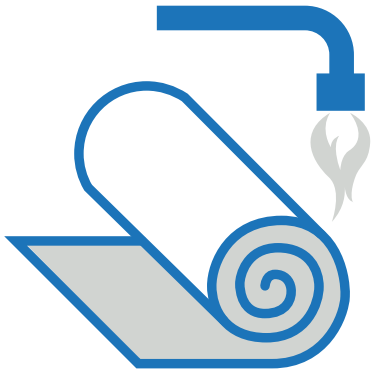
Detailing work

The general arrangement of details and the principles to be followed at gutters, verges, upstands, risers, and expansion joints can be found in BS 8217:2005. A selection of specific detail drawings can also be obtained from Chesterfelt Technical Services upon request.



Sitework Equipment

The equipment for the installation of Chesterfelt roofing products should be selected to suit the method of application. All such equipment must be purpose-made for professional use, suitably maintained and safely used in accordance with the manufacturer's instructions. In addition, it is essential that appropriate safety equipment is accessible on site and used correctly, including fire extinguishers, protective clothing (e.g. gloves, footwear & hardhats) and first aid equipment.



Torch application

Full bonding of Chesterfelt roofing membranes by torching techniques is achieved by reactivating the coating on the underside of the membrane with a gas torch. Most products have a heat dispersible film on the underside that melts during application. The sequence of work should be as follows:

- a) Roll the roofing membrane into position and cut to length;
- b) Roll back the membrane for a portion of the length (approximately 50%);
- c) Heat activate by torching in the v-area between the roll and substrate. Heated coating should flow down the front of the roll to provide a continuous bead of molten coating across the full width of the membrane. The roll should be moved along with a downward pressure exuding a molten bead from the edges;
- d) The roll can be pushed forward by hand, or drawn along with the aid of a roll bar;
- e) Roll back the remainder of the roll and repeat step c).



Self-adhesive application

Chesterfelt's self-adhesive roofing membranes are installed by removing the backing release film while unreeling the membrane onto the substrate. The full work sequence should be as follows:

- a) Roll the roofing membrane into position and cut to length;
- b) Roll back the membrane for a portion of the length (approximately 50%);
- c) Carefully cut across the backing release film and peel the film off the roll;
- d) Peel the landing edge of the backing film up and tuck it under the roll to enable release of the remainder when unreeling.
- e) Roll the membrane forward, pressing downward and outward, ensuring that no air pockets are trapped;
- f) Roll back the other portion of the membrane to the leading edge of the release film;
- g) Peel the remainder of the film away while pushing the roll forward, pressing downward and outward, ensuring that no pockets are trapped;
- h) On completion, use a soft broom or roller to apply pressure over the total area.



Chesterfelt Ltd Foxwood Way, Sheepbridge, Chesterfield, Derbyshire, S41 9RA
Telephone: 01246 268000 Email: technical@chesterfelt.co.uk Web: chesterfelt.co.uk



All rights are reserved, including those of photomechanical reproduction and storage in electronic media. Commercial use of the processes and work activities presented in this document is not permitted. Extreme caution was observed when putting together the information, texts and illustrations in this document. Nevertheless, errors cannot quite be ruled out. The publisher and editors cannot assume legal responsibility or any liability whatever for incorrect information and the consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of errors pointed out.