HERTALAN

Bespoke waterproofing solutions for flat roofs

PRODUCT CATALOGUE





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"We have been manufacturing HERTALAN® EPDM waterproofing membranes since the 1960's. This makes us Europe's first manufacturer of EPDM roof waterproofing solutions. We can look back on 50 years of tried and tested quality."



JOHN WHITTAKER TECHNICAL MANAGER

The sophisticated EPDM systems from HERTALAN® make the permanent waterproofing of flat roofs, façades and buildings with EPDM easier than ever before. Whether in the form of EPDM sheets, membranes or strips – with HERTALAN® we offer the right product for every application.

HERTALAN® EASY COVER sheets combine the outstanding material properties of EPDM with custom-made solutions.

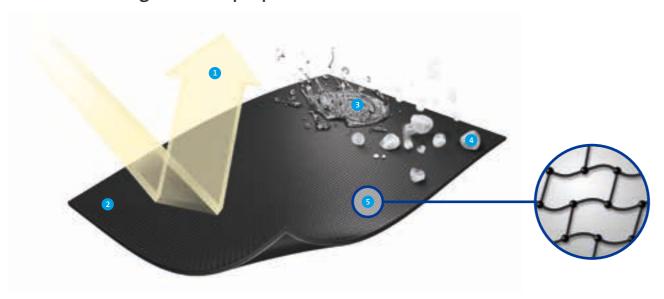
Due to EPDM's unique material properties, it is unbeatable in terms of flexibility and durability. The South German Plastics Centre (SKZ) in Würzburg, which has tested our HERTALAN® EPDM membranes in a long-term study, has acknowledged that the material has a service life of more than 50 years. Due to its long-lasting durability, the synthetic rubber has a positive environmental impact and can be recycled in an eco-friendly manner too. The fact that EPDM membranes can be applied without any need for naked flames provides additional work safety.

Waterproofing solutions with EPDM

Why use EPDM?

A waterproofing system such as used on flat roofs has to endure at lot. Above all, moisture, thermal and mechanical stresses (wind, sun, cold, precipitation and so on) lead to serious material demands and quickly age many waterproofing systems. It's no wonder that the procedure for producing EPDM (ethylene propylene diene monomer rubber) received a Nobel prize.

Due to its molecular structure, EPDM has outstanding material properties:



- 1 Permanently resistant to
- UV radiation
- Ozone radiation
- 2 EPDM
- **3 Extremely resistant to** a wide range of chemicals
- 4 Excellent resistance to ageing and weather, especially:
 - Rain
- Hail, ice, snow
- High and low temperatures
- 5 Fully cross-linked molecular structure
 - Permanently elastic and highly flexible
 - Elongation at tear of up to 600 %
 - Flexible in cold weather down to -40 °c
- Virtually shrink free
- Bitumen resistant
- Halogen and softener free

HERTALAN® – our EPDM waterproofing system

We have developed our sophisticated HERTALAN® EPDM systems for the special challenges and reliable protection of flat roofs and building waterproofing, for both refurb and new builds. As the first European manufacturer of EPDM waterproofing membranes and sheets, we have been supplying outstanding and long-lasting quality since the 1960's.



HERTALAN® is a plasticiser free material that is permanently resistant to UV rays, ozone and other natural atmospheric influences and is also extremely elastic within the temperature range of -45°C to +120°C. Thanks to its outstanding elasticity of up to 500%, it can be put to flexible use in various waterproofing situations. HERTALAN® withstands all tensile stresses that a flat roof is exposed to during the course of its normal life cycle.

These unique material properties of EPDM mean that HERTALAN® has an especially long service life. The South German Plastics Centre (SKZ) in Würzburg, which has tested our EPDM membranes in a long-term study, has acknowledged that HERTALAN® EPDM systems have a service life of more than 50 years.



In addition, the sustainability of HERTALAN® has been certified by the Dutch certification institute NIBE (Institute for Building Biology and Ecology) by way of a DUBO certificate and an environmental product declaration (EPD).

Our intelligent HERTALAN® EPDM systems make permanent flat roof and building waterproofing with EPDM easier than ever before. While the HERTALAN® EASY COVER sheet system, which is readymade in the factory, guarantees quick and easy application in a single work step, the HERTALAN® EASY WELD roofing membrane system enables safe processing without any risk of fire thanks to hot-air welding.

Good reasons to choose HERTALAN®

HERTALAN

50 YEARS OF PRACTICAL EXPERIENCE ON THE ROOF



In the middle of the 1960's, we became the first European manufacturer of EPDM waterproofing membrane – firing the starting shot for the HERTALAN® brand.

Since then, we have been pouring all of our experience and our passion for EPDM into the development, manufacture and application of sustainable waterproofing systems. We can look back on more than 50 years of tried and tested quality. Today, CARLISLE® CM Europe is Europe's market leader in the field of EPDM waterproofing solutions.

FLAMELESS APPLICATION



Product application without any need for naked flames is a requirement we have taken into consideration in our application techniques. The HERTALAN® seam joining method is implemented using hot-air technology and an EW joining edge that is readymade in the factory. An emerging welding bead indicates an ideal and permanently safe seam connection. Alternatively, seams can also be adhered together.

WATERPROOFING CONCEPTS FAR BEYOND THE FLAT ROOF



In addition to flat roof waterproofing, we offer you airtight and waterproof solutions for façades and buildings.

The following products are also used for this purpose: HERTALAN® EASY STICK GS, HERTALED® and HERTALAN® EPDM strips.

ECOLOGICALLY SAFE



HERTALAN® has an extremely high level of chemical resistance and is permanently resistant to bird droppings, numerous chemical emissions and other aggressive environmental influences.
HERTALAN® is a pure EPDM and does not contain any hazardous additives such as heavy metals, halogens or highly volatile plasticisers.

SUSTAINABILITY AND CERTIFICATION



The sustainability of HERTALAN® has been certified by the Dutch certification institute NIBE (Institute for Building Biology and Ecology) by way of a DUBO certificate and an environmental product declaration (EPD).

The South German Plastics Centre (SKZ) has also acknowledged that our HERTALAN® EPDM systems have a service life of more than 50 years.



CUSTOM MADE SHEETS – THANKS TO THE HOT BONDING PROCESS

Hot bonding is a process where EPDM membranes are homogeneously connected to one another to form large size sheets by means of vulcanisation. A high pressure, time and precisely preset temperature ensure that a completely leak-tight connection is created.

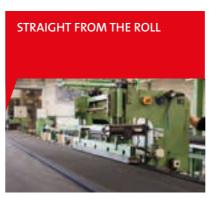
Factory conditions and continuous quality control in our production plant guarantee a consistent high level of quality.



HERTALAN® EASY COVER is a custom made solution for your flat roof. Permanently leak-tight waterproofing solutions can be made quickly, easily and safely with these EPDM sheets. Also, the number of seam connections to be created manually on the construction site and thus the risk of leaks is reduced to an absolute minimum. This means that largesize EPDM sheets can be produced as a result, which in turn translates into a quick application process with optimised progress on the construction site. A roof that has practically been sealed in the factory is delivered.

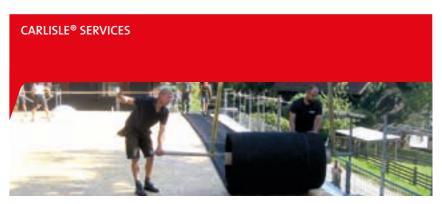


Roofs can be sealed quickly and easily in a single work step using HERTALAN® EASY COVER. Even in changeable weather conditions, it is hugely advantageous to use HERTALAN® sheets. Repeated surface drying operations are no longer necessary when using an EPDM sheet.



Our distributors stock various standard widths of HERTALAN® sheets for quick and safe waterproofing of flat roofs.

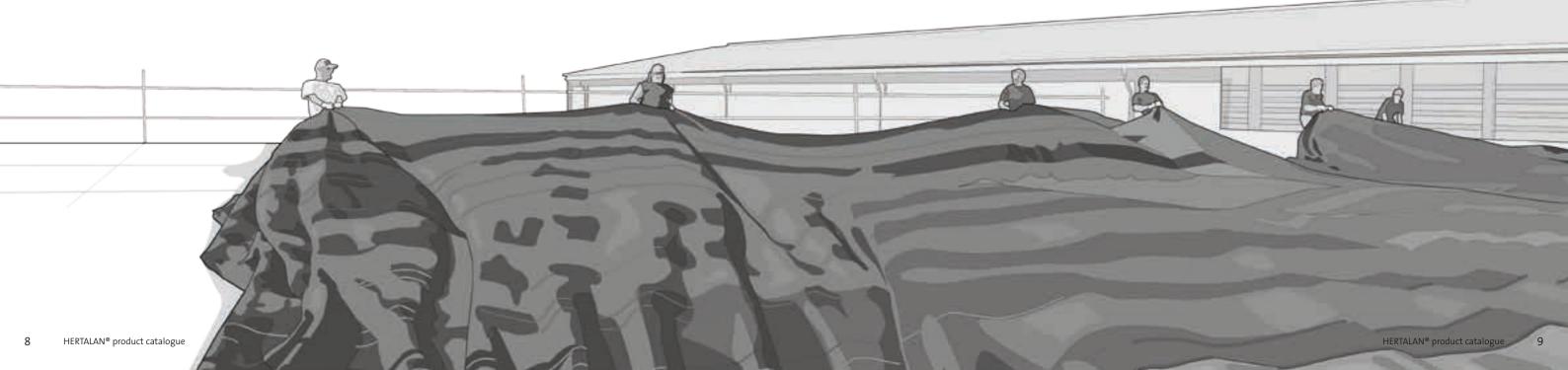
Even smaller roof areas such as garages, car ports, porches and so on can be extensively waterproofed in one piece without any long lead times. The EPDM sheets are cut off straight from the roll. The relevant system accessories such as adhesives, moulded parts, etc., form part of the overall package and are also available.



With CARLISLE® SERVICES, we offer Installing contractors the ideal addition to our HERTALAN® distribution stock. Sheets are produced as desired and delivered to the dealer's premises or even straight to the construction site along with the suitable accessories. Any requests received at short notice and that are not in stock can be processed quickly. The application installing contractor simply places an order with their dealer, who passes it on to CARLISLE® SERVICES. CARLISLE® SERVICES provides complete support until delivery. The procedure is still the same as before, only the installation time is significantly shortened.

A quick manufacture means our customers can even benefit from their roof being covered with a ready made sheet at a short notice. The potential sheet sizes are 8.2 to 11.2 m wide and up to 30 m long in the material thicknesses of 1.2 to 1.5 mm. Special lengths of up to 45 metres are also possible. A delivery can be made to the construction site.

Custom-made solutions can also be offered in other areas in addition to sheets for flat roofs. This includes lining containers with EPDM inlays, for example.



HERTALAN® – our expertise for your property



PUBLIC BUILDINGS



- Service life of more than 50 years
- UV resistant and weather proof
- Environmentally friendly and certified durability

RESIDENTIAL CONSTRUCTION



- Including garages and balconies
- Ozone and UV resistant
- Cost effective and fast installation
- CARLISLE® ACADEMY trained contractors for installation

BUILDING WATERPROOFING



- Simple application on almost any substrate
- Can be applied on complex components
- Available in several widths
- Waterproof and airtight solutions

GREEN ROOF



- For extensive and intensive green vegetation systems
- Proof from the FLL [Research Society for Landscape Development and Landscaping] available
- Few on site seams underneath the green vegetation

BIOGAS PLANTS / FIRE FIGHTING WATER TANK

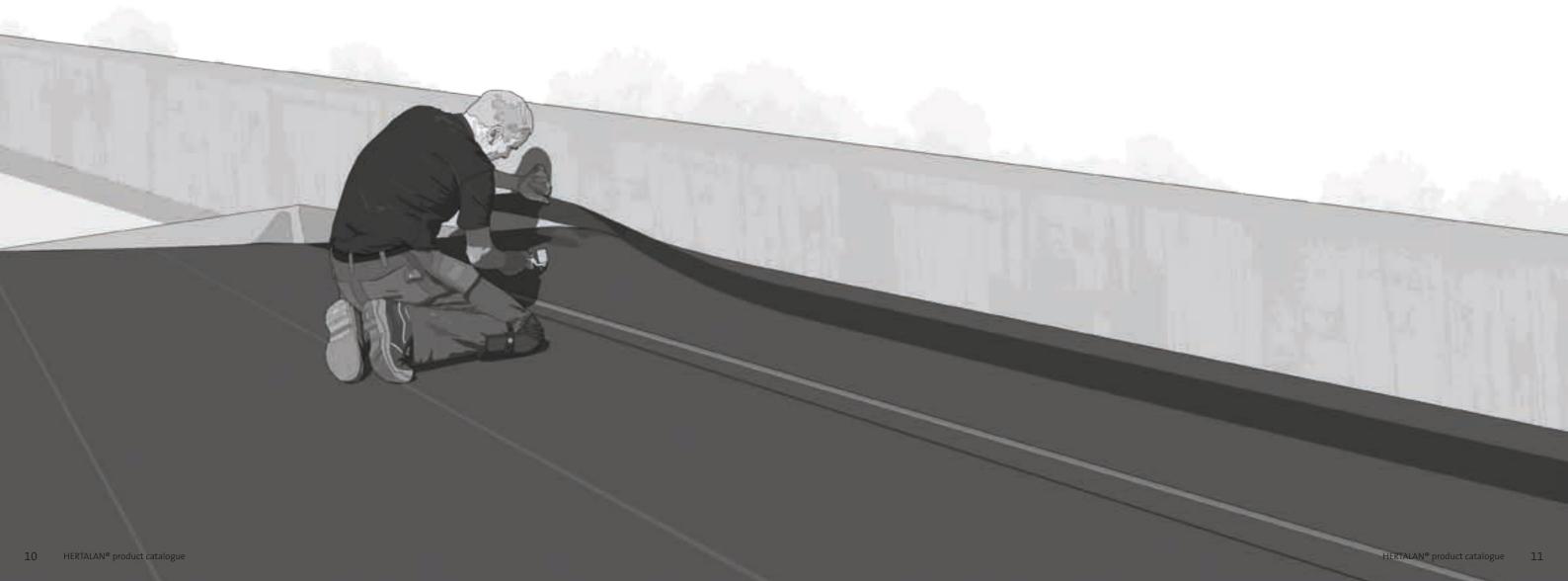


- Acid and alkali-resistant
- Permanently elastic from -45°C to +120°C
- Application without any need for naked flames





- No penetration of the roof waterproofing solution
- Even wind load distribution
- Up to 30% fewer fixing elements



HERTALAN

Overview of HERTALAN® products

We supply sustainable, waterproof solutions with HERTALAN® EPDM systems for both reliable protection and the particular challenges encountered in the fields of flat roof and building waterproofing, both on refurbs and new builds.

UNIQUE PROPERTIES

HERTALAN® EPDM solutions include waterproofing systems with unique USPs, have a very long service life, require hardly any maintenance, are FLL-tested and are naturally ozone and UV resistant. The product is very environmentally friendly and offers a substantial return on investment.

QUALITY ASPECTS

- Service life of more than 50 years (SKZ study)
- Environmentally friendly and recyclable
- Suitable for a wide variety of roof systems
- Highly resistant to a multitude of chemicals
- Komo, BBA, DIN, FLL and Dubokeur certification
- Outstanding weatherability
- Root resistant according to the FLL
- Compatible with bitumen
- Swift application with prefabricated sheets
- Ozone and UV resistant
- Permanently elastic from -45°C to +120°C
- Application without any need for naked flames
- Resistant to flying sparks and radiating heat (rigid roofing) for a multitude of roof structures



HERTALAN EASY COVER

EPDM sheet system

EPDM membranes are vulcanised with one another during the hot bonding process to produce HERTALAN® EASY COVER.
This bonding is considered the safest seam joint in the flat roof segment. Because the bonding is of such a high quality, the Flat Roof Guidelines only require a seam width of 2.5 cm, which is impermissible with any other material.

Since the EPDM sheets are delivered to the construction site in a pre-assembled state, they can be applied on site in virtually a single work step. As the number of seams to be created manually decreases, so too does the risk of leaks and the work effort required on the roof. HERTALAN® EASY COVER is applied without any need for naked flames and is FLL tested and resistant to roots and UV rays. The system is suitable for any flat roof, regardless of whether it is loose-laid and ballasted, mechanically fixed or subjected to partial or full surface bonding.



HERTALAN EPDM STRIPS

EPDM waterproofing E

HERTALAN® EASY WELD is an EPDM system that is particularly suitable for the mechanically fixed roof waterproofing solution. In the edge area, the roofing membranes have UV resistant welding strips made of a thermoplastic elastomer, which are welded to one another using hot air during the application process. This creates a durable, homogeneous and waterproof connection between the roofing

HERTALAN EASYWELD

Rolls

membranes.

HERTALAN® EASY WELD is FLL-tested and root, UV and ozone resistant.

EPDM strips

With HERTALAN® EPDM strips, we have developed a system that offers protection against moisture and can be used to waterproof any building.

Hollow wall structures, doors and window frames can be quickly and efficiently protected against moisture penetration using this system.

With HERTALAN® EPDM strips, you can benefit from quality, flexibility and comfort. Thanks to the special adhesive systems and the EPDM lining's textured surfaces, you can work on practically any substrate and create almost any connection. These properties make HERTALAN® EPDM strips the best solution for applications in hollow walls, around window frames and on curtain wall façades.

HERTALAN EASYSTICK GS

EPDM special solution

HERTALAN® EASY STICK GS are self-adhesive, reinforced EPDM strips that are particularly suitable for waterproofing façade penetrations such as windows and doors. The underside consists of a high quality butyl layer with a separating film that is cut into the middle. The strip is available in standard widths of 100 up to a maximum of 1000 mm and in a length of 20 m.

Due to its total thickness of 1.3 mm, the material can be very well adapted to the geometry of the different components.

HERTALAN® EASY STICK GS can also be used as a moisture barrier according to DIN EN 13967. The EPDM strip can be used even at low outside temperatures. A primer should also be used on absorbent substrates.

HERTALED°

EPDM building waterproofing

HERTALED® EPDM lead substitute is the ecological alternative to lead and conventional lead substitutes.

HERTALED® is made of EPDM strips that are reinforced with expanded metal to create a permanently workable material.

It can be adapted to and worked onto almost any shape and is particularly suitable for fixing on surfaces with a hollow interior.









With the HERTALAN® products, we have a wide range of EPDM systems that we can use to offer you customised waterproofing solutions for your flat roof.

Loose laying with ballast

The loose-laying layers are secured in place by means of an appropriate ballasting solution, such as gravel with a grain size of 16 / 32. Ballasting for flat roofs is determined according to DIN EN 1991-1-4. The roof structure's load-bearing capacity must naturally be taken into consideration according to the loads to be transferred. We also offer the suitable protective fleeces to create a separating layer between the ballast and the waterproofing system.

Product selection:

HERTALAN® EASY COVER or HERTALAN® EASY COVER FR

Required EPDM adhesive systems:

- Bonding of joints and junctions, as well as roof edge fixing with HERTALAN® KS 205 or HERTALAN® KS 137 contact adhesive
- Seam bonded with additional HERTALAN® EASY WELD cover strip, welded using hot air. Alternatively, seams can be bonded with HERTALAN® KS 137 contact adhesive in combination with HERTALAN® KS 96 adhesive.

Mechanical fixation

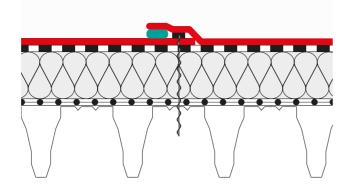
The EPDM is secured in place by means of mechanically fixing using screws and fastening plates. There are different systems for this purpose. The required fixing elements for flat roofs are calculated according to DIN EN 1991-1-4.

Product selection:

HERTALAN® EASY WELD MF, HERTALAN® EASY COVER or HERTALAN® EASY COVER FR

Required EPDM adhesive systems:

- Bonding of joints and junctions, as well as roof edge fixing with HERTALAN® KS 205 or HERTALAN® KS 137 contact adhesive.
- Seam bonding by means of hot air welding, with or without HERTALAN® EASY WELD cover strip depending on the product type. Alternatively, seams can be bonded with HERTALAN® KS 137 contact adhesive in combination with HERTALAN® KS 96 adhesive.



Bonded application

Here, all the layers are bonded to one another using suitable adhesives. The substrate must be sufficiently solid and load-bearing, and it must be possible to bond the layers to one another. The required amounts of adhesive and distribution of the same are calculated according to DIN EN 1991-1-4.

PARTIALLY BONDED ROOF SYSTEM

EPDM sheet or roofing membrane partially bonded to a suitable substrate.

Product selection:

HERTALAN® EASY COVER, HERTALAN® EASY COVER FR or HERTALAN® EASY WELD BASIC.

Required EPDM adhesive systems:

- · Bonding of joints and junctions, as well as roof edge fixing with HERTALAN® KS 205 or HERTALAN® KS 137 contact adhesive.
- Substrate bonding with HERTALAN® KS 143 PU adhesive
- Seam bonding with additional HERTALAN® EASY WELD cover strip, welded using hot air. Alternatively, seams can be bonded with HERTALAN® KS 137 contact adhesive in combination with HERTALAN® KS 96 adhesive.

FULLY BONDED ROOF SYSTEM

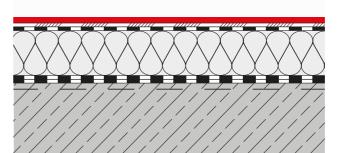
EPDM sheet or roofing membrane fully bonded to a suitable substrate.

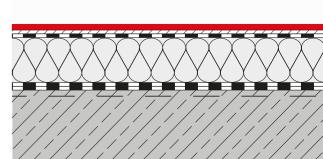
Product selection:

HERTALAN® EASY COVER, HERTALAN® EASY COVER FR or HERTALAN® EASY WELD BASIC.

Required EPDM adhesive systems:

- Bonding of joints and junctions, as well as roof edge fixing with HERTALAN® KS 205 or HERTALAN® KS 137 contact adhesive.
- Apply HERTALAN® KS 143 substrate bonding PU adhesive over the entire surface using a lambskin roller.
- Seam connection with additional HERTALAN® EASY WELD cover strip, welded on using hot air. Alternatively, seams can be bonded with HERTALAN® KS 137 contact adhesive in combination with HERTALAN® KS 96 adhesive.







HERTALAN® EASY COVER and EASY COVER FR – EPDM sheet systems

Individual EPDM membranes are welded to one another during the hot bonding process in the factory's prefabrication facility. The amount of seam welding on the construction site is therefore reduced to a minimum.

HERTALAN® EASY COVER AND EASY COVER FR can be applied easily, efficiently and without any need for naked flames, are root-resistant according to the FLL and have a service life of more than 50 years (SKZ study).

Please refer to the HERTALAN® specification guidelines or the HERTALAN® application instructions for the detailed substrate requirements and installation instructions.

Designation acc. to DIN SPEC 20000-201: DE / E1 EPDM BV 1.3 and 1.5 mm Designation acc. to DIN SPEC 20000-202: BA / MSB Q EPDM BV 1.3 and 1.5 mm, CE certification acc. to DIN EN 13956 and DIN EN 13967

1.23 / 1.31 kg / m² / mm THICKNESS 1.3 / 1.5 mm Mass Standard sizes and ready-made dimensions upon request

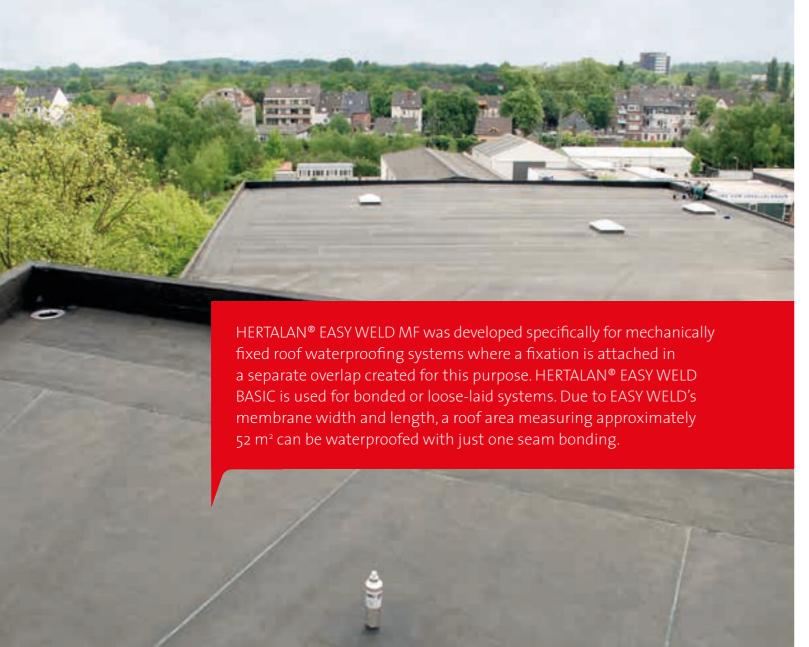
PROPERTIES TESTS **TARGET VALUE RESULT SPECIFIED EASY COVER EASY COVER FF** VISIBLE DEFECTS EN 1850-2 Satisfied Satisfied Passed STRAIGHTNESS EN 1848-2 ≤ 30 Satisfied Satisfied FLATNESS EN 1848-2 mm ≤ 10 Satisfied Satisfied TENSILE STRENGTH (L / Q) EN 12311-2B N / mm² ≥ 8.0 8.7 / 8.6 10/10 ULTIMATE ELONGATION (L / Q) EN 12311-2B ≥ 400 530/480 600 / 600 TEAR GROWTH RESISTANCE (L / O) 40/62 50/55 EN 12310-2 ≥ 25 DETERMINATION OF DIMENSIONAL STABILITY (L / Q) EN 1107-2 Max. 0.2 0.08/0.05 0.15 / 0.13 JOINING SEAM'S RESISTANCE TO PEELING 69/191* EN 12316-2 N / 50 mm ≥ 50 69/191* JOINING SEAM'S SHEARING RESISTANCE 282/341* 282/341* EN 12317-2 N / 50 mm FIRE BEHAVIOUR EN 13501-1 Class E Class E Class E See AhP See AhP [General Building [General Building RESISTANCE TO THE SPREAD OF FIRE EN 13501-5 Passed Supervisory Authority Test Supervisory Authority Test Certificate Certificate) DETERMINATION OF RESISTANCE TO STATIC LOADING EN 12730 ≥ 25 25 RESISTANCE TO STATIC LOADING EN 12691 ≥ 300 300 300 RESISTANT TO ROOT PENETRATION EN 13948 Satisfied Satisfied Passed WATERTIGHTNESS EN 1928 Satisfied Satisfied FOLDING IN THE COLD EN 495-5 ≤ -45 ≤ -45 ≤ -45 **UV IRRADIATION** EN 1297 / 495-5 Satisfied Satisfied Passed **EXPOSURE TO LIQUID CHEMICALS** EN 1847 Passed Satisfied Satisfied HAIL RESISTANCE OF HARD SURFACE EN 13583 ≥ 17 17 m/s SOFT CLADDING ≥ 35 37 WATER VAPOUR DIFFUSION RESISTANCE COEFFICIENT (µ VALUE) EN 1931 70.000 70.000 70.000 OZONE RESISTANCE EN 1844 No cracks Satisfied Satisfied BITUMEN COMPATIBILITY EN 1548 Passed Satisfied Satisfied

^{*} Values for bonded and hot bonding seams

HERTALAN EASYWELD

The roofing membrane system designed specifically for mechanical fixation

EPDM WATERPROOFING MEMBRANES



HERTALAN® EASY WELD MF and HERTALAN® EASY WELD BASIC – waterproofing membranes

EPDM waterproofing membranes with EW joining edge for hot-air welding. HERTALAN® EASY WELD BASIC variant (1400 mm wide) for loose or bonded application and EASY WELD MF (1400 and 700 mm wide) for mechanical fixation. Standard roll length: 20 m.

HERTALAN® EASY WELD MF and HERTALAN® EASY WELD BASIC can be applied easily, efficiently and without any need for naked flames, are root-resistant according to the FLL and have a service life of more than 50 years (SKZ study).

Please refer to the HERTALAN® specification guidelines or the HERTALAN® application instructions for the detailed substrate requirements and installation instructions.

Designation acc. to DIN SPEC 20000-201: DE / E1 EPDM BV 1.3 and 1.5 mm, CE certification acc. to DIN EN 13956

HERTALAN® EASY WELD ROOFING MEMBRANES					
LENGTH	10 or 20 m	THICKNESS	1.3 / 1.5 mm		
WIDTH	1.4 m	MASS	1.31 kg / m² / mm		

PROPERTIES		TESTS		TARGET VALUE	RESULT SPECIFIED
VISIBLE DEFECTS		EN 1850-2		Passed	Satisfied
STRAIGHTNESS		EN 1848-2	mm	≤ 30	Satisfied
FLATNESS		EN 1848-2	mm	≤ 10	Satisfied
TENSILE STRENGTH (L / Q)		EN 12311-2B	N / mm²	≥ 8.0	12.5 / 10
ELONGATION AT FRACTURE (L / Q)		EN 12311-2B	%	≥ 400	500/500
TEAR GROWTH RESISTANCE (L / Q)		EN 12310-2	N	≥ 25	40 / 72
DETERMINATION OF DIMENSIONAL STABILITY (L / Q)		EN 1107-2	%	Max. 0.2	0.14 / 0.09
JOINING SEAM'S RESISTANCE TO PEELING		EN 12316-2	N / 50 mm	≥ 50	169
JOINING SEAM'S SHEARING RESISTANCE		EN 12317-2	N/50 mm	≥ 200	318
FIRE RESISTANCE		EN 13501-1	-	Class E	Class E
BEHAVIOUR IN THE EVENT OF EXPOSURE TO FIRE FROM TI	HE OUTSIDE	EN 13501-5	-	Passed	See AbP [General Building Supervisory Authority Test Certificate]
RESISTANCE TO STATIC LOADING		EN 12730	kg	≥ 25	25
RESISTANCE TO IMPACT		EN 12691	mm	≥ 300	300
RESISTANT TO ROOT PENETRATION		EN 13948	-	Passed	Satisfied
WATERTIGHTNESS		EN 1928	-	Waterproof	Satisfied
FOLDING IN THE COLD		EN 495-5	°C	≤ -45	≤ −45
UV IRRADIATION		EN 1297 / 495-5	-	Passed	Satisfied
EXPOSURE TO LIQUID CHEMICALS		EN 1847	-	Passed	Satisfied
HAIL RESISTANCE OF	HARD SURFACE	EN 13583	m / s	≥ 17	17
	SOFT CLADDING		m/s	≥ 35	37
WATER VAPOUR DIFFUSION RESISTANCE COEFFICIENT (µ \	VALUE)	EN 1931		70.000	70.000
OZONE RESISTANCE		EN 1844	-	Passed	Satisfied
BITUMEN COMPATIBILITY		EN 1548	-	Passed	Satisfied

^{*} Values for bonded and hot bonding seams



RhinoBond®

Experience the new dimension in installation with the RhinoBond® induction fixing system and our HERTALAN® EASY COVER sheets. This complete system uses induction compatible plates to fix the HERTALAN® EPDM sheet and the insulation in the supporting shell without any need to penetrate the roof waterproofing solution.

INNOVATIVE TECHNOLOGY

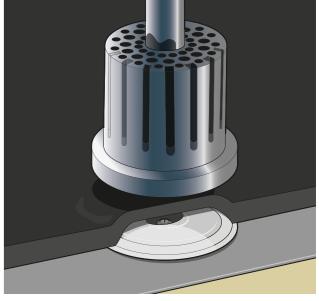
RhinoBond® is an electromagnetic induction welding technology and is used as an induction fixing system in combination with HERTALAN® EASY COVER EPDM sheets. The induction device is activated directly using the specially coated fastening plate. The coating on the fastening plates is heated to approximately 280°C and thus liquefied by means of induction. The heating process only lasts five seconds if the RhinoBond® device is calibrated to the ambient temperature, the lining thickness and the power source.

Straight after welding, a permanent connection to the HERTALAN® EPDM sheet is created within 45 seconds due to the magnetic cooling rods applying firm pressure on previously welded fastening plates.

The plates can be loosened again at a later time using the induction device. It is therefore possible to actually re-use the sheet.







SEVERAL MILLION SQUARE METRES OF ROOF AREA HAVE ALREADY BEEN PERMANENTLY WATERPROOFED IN THE USA WITH THE TRIED AND TESTED RHINOBOND® SYSTEM.

NO PENETRATION OF THE ROOF MEMBRANE

The RhinoBond® System is a penetration-free mechanical fixing solution for HERTALAN® EPDM-membranes.

EVEN DISTRIBUTION OF WIND LOAD

In contrast to traditional methods involving seam fixing, field fixing with the induction process distributes the wind load evenly over the EPDM-membranes.

UP TO 30% FEWER FIXING REQUIREMENTS

The even distribution of the wind force means that the point load per fixing requirements is less and the system can handle higher wind forces with fewer fixing requirements .

EFFICIENT INSTALLATION

The fixings are positioned precisely where they are actually needed. This reduces the number of fixings, shortens the labour time and minimises error.

CUSTOM-MADE MEMBRANES

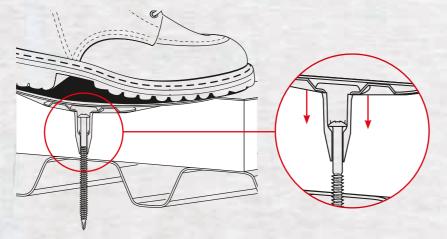
HERTALAN® EASY COVER is an EPDM-system. It is a factory fabricated system for an efficient onsite installation. This method considerably reduces the amount of onsite seaming required on the roof, consequently leading to a rapid and safe installation.

FAST PROTECTION FROM INGRESS AFTER MOISTURE

With HERTALAN® Easy Cover and the RhinoBond® fixing system, you can temporarily seal your roof quickly and easily, even at the peripheries. Your roof is protected against rain and all weather types even before the induction process. Welding can be carried out even in the rain and at temperatures down to -10 °C.

With Foot Traffic

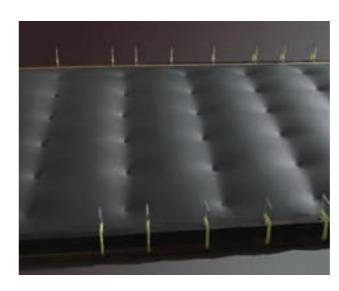
The TreadSafe® system counteracts normal loads when walked on and thereby minimises the risk of the fixing breaking through the roof sheeting.



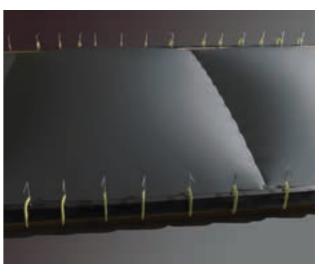
Even distribution of wind load

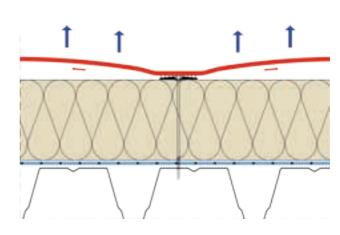
In contrast to traditional methods involving seam fixing, field fixing with the induction process distributes the wind load evenly over the EPDM-membranes. This prevents any asymmetrical force impact on the fastening plates and seams.

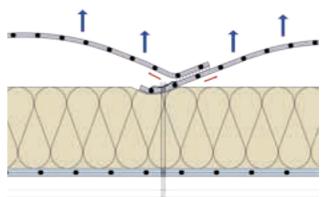
FIELD FIXATION



SEAM FIXATION







The position of the fastening plate is defined based on the wind load calculations for the property and distributed in the roof system. As a result, despite mechanical fixing, larger membranes can be used and a clear reduction achieved in the seam proportions and seam overlap compared to conventional systems fixed in place by mechanical means.

Since the fixing points are distributed like a grid across the entire roof and not just placed on the membrane joints, the wind forces are supported more evenly. As a result, the point load per fixing element is less and the system can handle higher wind forces with fewer fixing requirements.

The HERTALAN® RhinoBond® Induction Fixing System

The RhinoBond® fixing system is made up of perfectly coordinated components: an induction welding device, specially coated fastening plates for HERTALAN® EPDM sheets and magnetic cooling elements.



RHINOBOND® INDUCTION DEVICE





PROTECTIVE PLATE

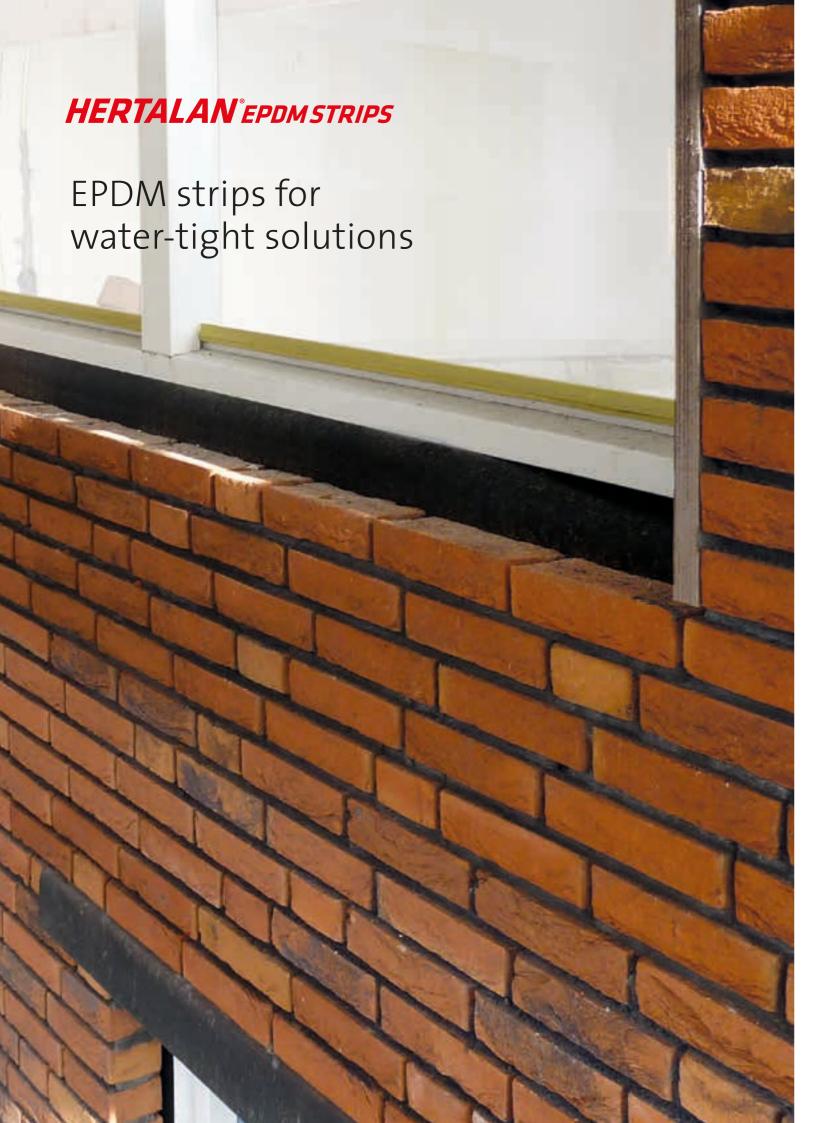
SUBSTRATES

FOR USE ON MELTABLE

WE SUPPORT YOU WITH DESIGN AND INSTALLATION

- Calculation of drainage, tapered insulation and wind uplift
- Creation of waterproofing specifications
- Dimensions of membranes (for your first project or any complex installation, CARLISLE® Technical Department will assist you)
- Calculation and design of membranes required
- Training of roofing contractors in the installation of HERTALAN® EPDM membranes and the RhinoBond® system in the CARLISLE® Academy and/or on the construction site





HERTALAN® – EPDM strips

With HERTALAN® EPDM strips, you can benefit from quality, flexibility and comfort. Thanks to the special adhesive systems and the EPDM membrane's textured surfaces, you can work on practically any substrate

and create almost any connection. These properties make HERTALAN® EPDM strips the best solution for applications in the façade area such as hollow walls, around window frames and on curtain wall façades.

Please refer to the HERTALAN® specification guidelines or the HERTALAN® application instructions for the detailed substrate requirements and installation instructions.

EPDM membranes are made in compliance with EN 13984, EN 13967 and DIN V 20000–202:2006–11 (code: BA / MSB EPDM BV); this applies only to thicknesses of 1.0 to 1.5 mm.

HERTALAN® EPDM STRIPS			
LENGTH	20 m	Polymer	EPDM
WIDTH	100 - 1.400 mm	Colour	Black
THICKNESS	1.0 to 1.5 mm	Mass	1.23 kg / m² / mm

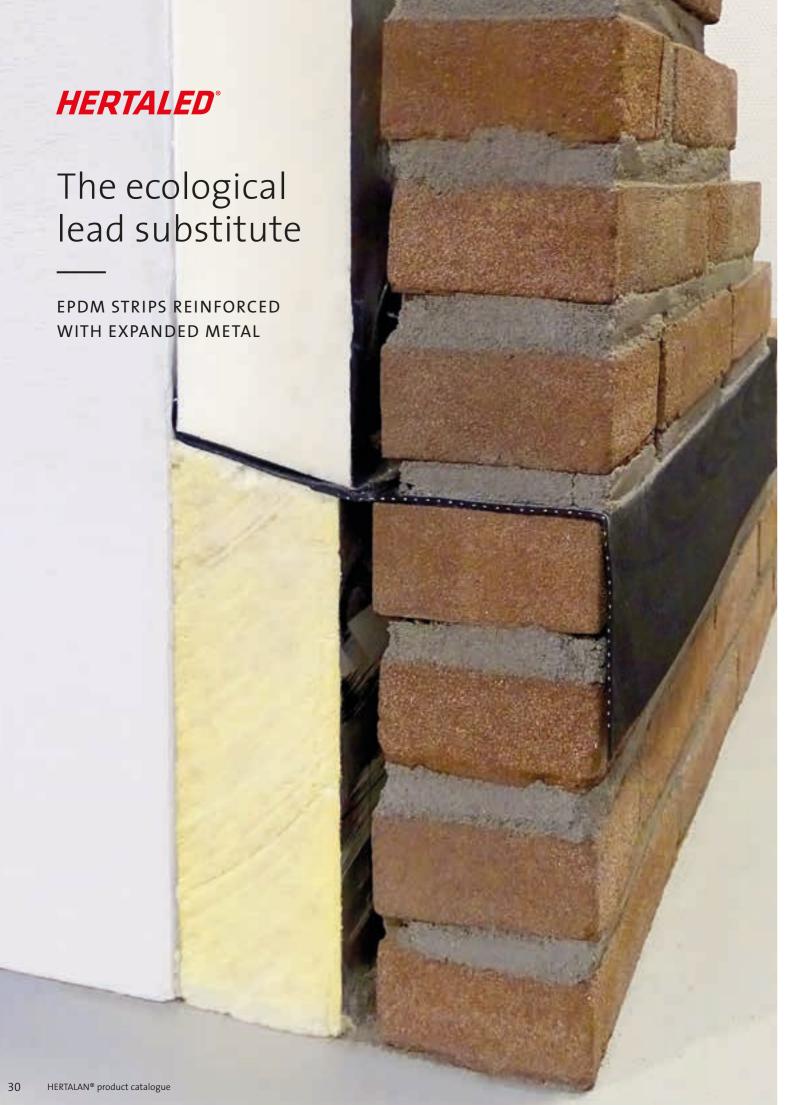
PROPERTIES	TESTS		TARGET VALUE	RESULT SPECIFIED
VISIBLE DEFECTS	EN 1850-2	-	Passed	Satisfied
STRAIGHTNESS	EN 1848-2	mm	≤ 30	Satisfied
EVENNESS	EN 1848-2	mm	≤ 10	Satisfied
NAIL TEAR GROWTH RESISTANCE (L / Q)	EN 12310-1*	N	> 100	120
AGEING TEST	EN 1296 / EN 1928	-	Passed	Satisfied
JOINING SEAM'S SHEARING RESISTANCE	EN 12317-2	N / 50 mm	> 200	282
FIRE BEHAVIOUR	EN 13501-1	-	Class E	Class E
DETERMINATION OF RESISTANCE TO STATIC LOADING	EN 12730*	kg	≥ 25	25
DETERMINATION OF RESISTANCE TO SHOCK LOADING	EN 12691*	mm	≥ 300	300
WATERTIGHTNESS	EN 1928	-	Waterproof	Satisfied
ALKALITEST	EN 1847 / EN 1928	-	Passed	Satisfied
WATER VAPOUR DIFFUSION RESISTANCE COEFFICIENT (µ VALUE)	EN 1931	-	70.000	70.000

^{*} Values for a thickness of 1.2 mm.

BUILDING AND FAÇADE WATERPROOFING

With HERTALAN® EPDM strips, we have developed a system that offers protection against moisture and can be used to waterproof any building. Hollow wall structures, doors and window frames can be quickly and efficiently protected against moisture penetration using this system.

With HERTALAN® EPDM strips, you can benefit from quality, flexibility and comfort. Thanks to the special adhesive systems and the EPDM lining's textured surfaces, you can work on practically any substrate. These properties make HERTALAN® EPDM strips the best solution for applications in hollow walls, around window frames and on curtain wall façades.



HERTALED® – the ecological lead substitute

HERTALED® is an ecological substitute for lead that offers all the advantages of our EPDM quality. It is a lightweight material that is delivered on 12 metre rolls so that you can cover areas quickly and thus cut labour costs. HERTALED® is made up of HERTALAN® EPDM strips that are reinforced with expanded metal.

It can be moulded into almost any shape thanks to the expanded metal. It is used as a moisture barrier and lead substitute and consists of an aluminium insert measuring 210 mm wide or fully laminated with EPDM on both sides. The roll is 12 m long; other dimensions are available upon request.

Please refer to the HERTALAN® specification guidelines or the HERTALAN® application instructions for the detailed substrate requirements and installation instructions.

HERTALED® is CE-certified according to EN 14909

HERTALED (FULL ALUMINIUM REINFORCEMENT)					
LENGTH	12 m	Polymer	EPDM		
WIDTH	200 / 400 / 750 mm	Colour	Black		
THICKNESS	2.0 mm	Mass	2.75 kg / m²		

HERTALED (210 mm ALUMINIUM REINFORCEMENT)					
LENGTH	12 m	Polymer	EPDM		
WIDTH	450 / 650 mm	Colour	Black		
THICKNESS	2.0 mm	Mass	1.8 / 1.5 kg / m²		

PROPERTIES	TESTS		TARGET VALUE	RESULT SPECIFIED
VISIBLE DEFECTS	EN 1850-2	-	Passed	Satisfied
STRAIGHTNESS	EN 1848-2	mm	≤ 30	Satisfied
EVENNESS	EN 1848-2	mm	≤ 10	Satisfied
NAIL TEAR GROWTH RESISTANCE (L / Q)	EN 12310-1*	N	≥ 50	70
AGEING TEST	EN 1296 / EN 1928	-	Passed	Satisfied
JOINING SEAM'S SHEARING RESISTANCE	EN 12317-2	N / 50 mm	≥ 200	282
FIRE BEHAVIOUR	EN 13501-1	-	Class E	Class E
FOLDING IN THE COLD	EN 495-5	°C	≤ -45	≤ -45
WATERTIGHTNESS	EN 1928	-	Waterproof	Satisfied
ALKALITEST	EN 1847 / EN 1928	-	Passed	Satisfied
WATER VAPOUR DIFFUSION RESISTANCE COEFFICIENT	EN 1931	-	70.000	70.000

^{*} Value of the EPDM lining

HERTALAN EASYSTICKGS

Flexible waterproofing

SELF-ADHESIVE EPDM STRIPS



HERTALAN® EASY STICK GS – EPDM strips

HERTALAN® EASY STICK GS is an EPDM waterproofing membrane according to EN 13967 / EN 13984 with a glass fabric and butyl rubber self-adhesive layer on the underside.

<u>.</u>

Please refer to the HERTALAN® specification guidelines or the HERTALAN® application instructions for the detailed substrate requirements and installation instructions.

HERTALAN® EASY STICK GS						
LENGTH	20 m	Polymer	EPDM			
WIDTH	0.25 / 0.50 / 0.75 / 1.0 m	Colour	Black			
THICKNESS	1.3 mm	Mass	1.4 kg / m²			

PROPERTIES	TESTS		TARGET VALUE	RESULT SPECIFIED
VISIBLE DEFECTS	EN 1850-2	-	Passed	Satisfied
STRAIGHTNESS	EN 1848-2	mm	≤ 30	Satisfied
TENSILE STRENGTH (L / Q)	EN 12311-2	N / mm	≥ 6	7
ULTIMATE ELONGATION (L / Q)	EN 12311-2	%	≥ 400	450
TEAR GROWTH RESISTANCE (L / Q)	EN 12310-1	N	≥ 50	65
JOINING SEAM'S SHEARING RESISTANCE	EN 12317-2	N / 50 mm	≥ 200	250
FIRE BEHAVIOUR	EN 13501-1	-	Class E	Class E
DETERMINATION OF RESISTANCE TO SHOCK LOADING	EN 12691	mm		NPD
WATERTIGHTNESS	EN 1928	-	Waterproof	Satisfied
WATER VAPOUR DIFFUSION RESISTANCE COEFFICIENT	EN 1931			NPD
DURABILITY OF WATER VAPOUR PERMEABILITY AGAINST AGEING	EN 1296 / EN 1931			NPD
EXPOSURE TO LIQUID CHEMICALS	EN 1847 / EN 12311-2	-	Passed	Satisfied

ROOF GUTTERS

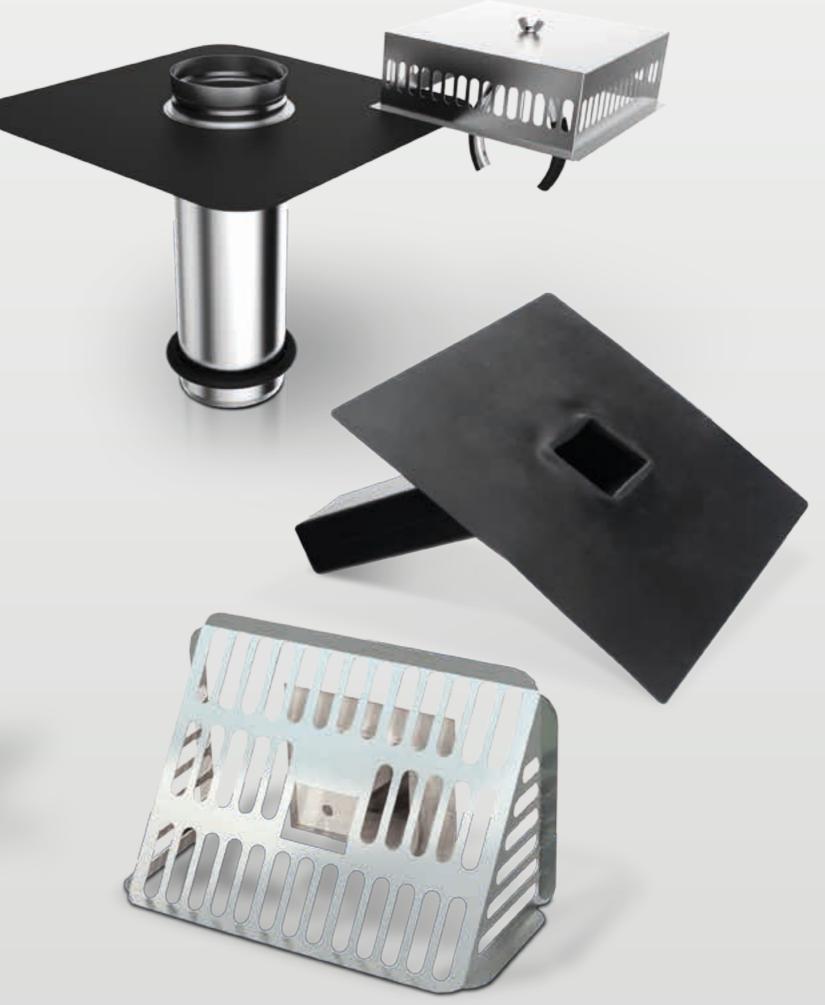
HERTALAN® EASY STICK GS is excellently suited to lining roof gutters in refurbishment and new build projects. HERTALAN® EASY STICK GS is easy to use during subsequent waterproofing of zinc roof gutters. Once the substrate has been cleaned, HERTALAN® EASY STICK GS can be bonded on directly with HERTALAN® contact adhesive. Prefabricated rainwater pipes and corners ensure a quick and easy application process.

In new build projects, nowadays often the quality of the building material is sacrificed, resulting in cold zinc gutters causing condensation. This significantly shortens the durability of trough and valley gutters. HERTALAN® EASY STICK GS offers a solution for this purpose. The gutters are fully lined with HERTALAN® EASY STICK GS. This means that a longer service life is achieved for the gutters. Your structure is given a visually appealing touch when this product is used in conjunction with a zinc cornice cover.

HERTALAN® accessories

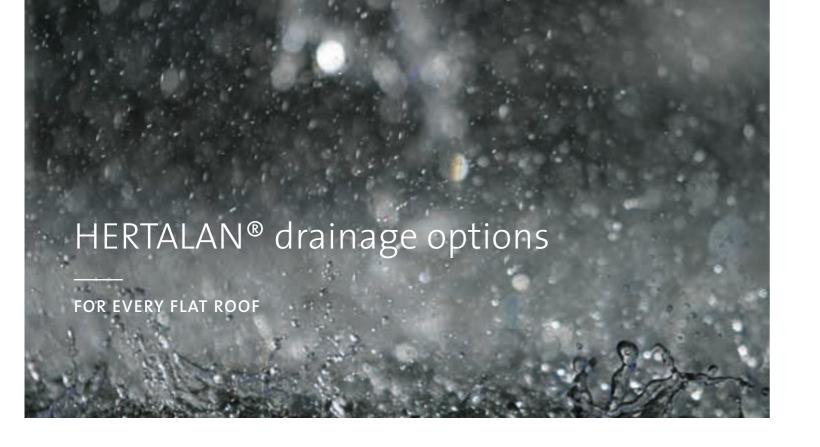
HERTALAN® offers a wide range of accessories and adhesives, where all the components are optimally coordinated to one another. With our extensive range, we offer you the perfect solution to overcome an extremely wide range of challenges encountered in roof waterproofing.





HERTALAN® product catalogue

HERTALAN® product catalogue



Stainless steel accessories – as durable as our roofing membranes

Whether they're used in new build or refurbishment projects – the HERTALAN® stainless steel accessories are suitable for any application and cut an impressive figure due to quick and safe installation.

Heavy and once-in-a-lifetime rainstorms are continually increasing due to climate change. This is why drainage elements are some of the most important system addons. Roof penetrations are the most critical parts of a flat roof; indeed, they are essential. Accordingly, the demands on drainage systems and roof penetrations are particularly high. In our HERTALAN® drainage accessories, we can provide the perfect addition to our range of extremely durable roof-sealing systems. All of the components are ideally tailored to each other.

HERTALAN® drainage accessories consist of versatile corrosion and acid-resistant stainless steel elements. These already have factory-fitted EPDM sleeves made from self-adhesive HERTALAN®. This makes a watertight connection to the surface sealing particularly quick and easy. The range includes the right element for every drainage situation.

An overview of the benefits:

- Safe installation with no fire risk, thanks to hot-air welding
- Simple installation without special tools
- A service life of decades
- Stainless steel is not sensitive to acids or cold, and is extremely heat resistant
- Safe, complete solution
- TÜV tested
- Fire protection acc. to DIN 18234



Stainless steel accessories



OVERFLOW DRAINS				
DESCRIPTION		STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
CCM OVERFLOW DRAIN, VERTICAL, TWO-PIECE, WITH LEAF CATCHER M	T	Thermally-insulated base element with level base plate, extension element and factory connection sleeve, retaining element and retaining rings.	110 mm	Length of extension element: 400 or 600 mm Length of base element: 280 mm
CCM OVERFLOW DRAIN, VERTICAL, ONE PIECE, WITH LEAF CATCHER M		Extension element with level base plate and factory connection sleeve, retaining element and 3 retaining rings.	110 mm	Length of extension element: 400 or 600 mm
CCM OVERFLOW DRAIN, ANGLED, WITH LEAF CATCHER M		Horizontally angled run-off connector with level base plate and factory connection sleeve, retaining element and 3 retaining rings. Arrangement for lateral continuation within the thermal insulation and through the wall / parapet.	110 mm	Length of run-off con- nector: 730 mm

DRAINAGE ELEMENTS			
DESCRIPTION	STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
CCM ROOF DRAIN, VERTICAL, TWO PIECE, WITH SLEEVE AND UNIVERSAL LEAF CATCHER	Thermally-insulated base element with level base plate, extension element with level base plate and factory connection sleeve and universal leaf catcher.	75,110, 125,160mm	Length of extension element: 400 or 600 mm Length of base element: 280 mm
CCM RENOVATION DRAIN / ONE PIECE EXTENSION ELEMENT, WITH SLEEVE AND LEAF CATCHER	Extension element with level base plate and factory connection sleeve; leaf catcher itemised separately.	50,63,75, 90,110,125, 145,160 mm	Length of extension element: 400 or 600 mm
CCM ROOF DRAIN, ANGLED, WITH SLEEVE AND UNIVERSAL LEAF CATCHER	Roof drain with level base plate and factory connection sleeve; arrangement for lateral continuation within the thermal insulation and universal leaf catcher.	50,63,75, 90,110 mm	Length of run-off connector: 460 mm with 2° head Installation heights: 75, 88, 100, 115, 135 mm

Stainless steel accessories



STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
Parapet drain with level base plate and factory connection sleeve; arrangement for lateral continuation within the thermal insulation layer and through the wall / parapet; leaf catcher M.	110 mm	/
Horizontal run-off connector with angled base plate and factory connection sleeve. The run-off connector is run on the top edge of the roof seal directly through the wall / parapet; horizontal leaf catcher	50, 75, 90, 110 mm	Length of run-off con- nector: 400 or 600 mm
	50-160 mm	
	Parapet drain with level base plate and factory connection sleeve; arrangement for lateral continuation within the thermal insulation layer and through the wall / parapet; leaf catcher M. Horizontal run-off connector with angled base plate and factory connection sleeve. The run-off connector is run on the top edge of the roof seal directly through the wall / parapet; horizontal	Parapet drain with level base plate and factory connection sleeve; arrangement for lateral continuation within the thermal insulation layer and through the wall / parapet; leaf catcher M. Horizontal run-off connector with angled base plate and factory connection sleeve. The run-off connector is run on the top edge of the roof seal directly through the wall / parapet; horizontal leaf catcher

VENT PIPES				
DESCRIPTION		STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
CCM VENT PIPE WITH HOOD, SECURE AGAINST DRIVING RAIN	The second	Vent pipe with level base plate and factory connection sleeve, with protective hood against driving rain.	40, 63, 75, 90 mm	
CCM RENOVATION VENT PIPE WITH HOOD, SECURE AGAINST DRIVING RAIN	1	Renovation vent pipe with level base plate and factory connection sleeve, with protective hood against driving rain.	90/40, 90/60, 110/75, 125/90 mm	

DESCRIPTION	STRUCTURE	EXTERNAL Ø	OTHER PARAMETER
CCM CABLE PIPE		50	
CCM EXTENSION PIPES		50, 63, 75, 90, 110, 125, 145, 160 mm	Length: 300 and 600 mm
CCM VAPOUR- BARRIER PLATE		50, 63, 75, 90, 110, 125, 145, 160 mm	

Stainless steel accessories – Product codes

ITEM	DESCRIPTION	Ø IN mm		GTH mm	PRODUCT COD	E (FOR LENGTH) 600 mm		
1.	CCM OVERFLOW DRAIN, VERTICAL, ONE PIECE, WITH LEAF CATCHER M	110	400	600	HSS 65003029	HSS 65003030		
ITEM	DESCRIPTION	Ø IN mm	LENGTH	H IN mm	PRODUC	T CODE		
2.	CCM OVERFLOW DRAIN, ANGLED, WITH LEAF CATCHER M	110	7:	30	HSS 65	003031		
ITEM	DESCRIPTION	Ø IN mm	LENGTH	l IN mm	PRODU	CT CODE		
3.	CCM ROOF DRAIN, VERTICAL,	75	2	80	HSS 65	003016		
٥.	TWO PIECE, WITH SLEEVE AND	110	2	80	HSS 65	003017		
	UNIVERSAL	125	2	80	HSS 65	003018		
	LEAF CATCHER —	160	2	80	HSS 65	003019		
ITEM	DESCRIPTION	Ø IN mm		GTH mm	PRODUCT COD	E (FOR LENGTH) 600 mm		
		50	400	600	HSS 65002989	HSS 65002993		
4.	CCM RENOVATION DRAIN/ONE PIECE — EXTENSION ELEMENT, WITH SLEEVE	63	400	600	HSS 65002994	HSS 65002995		
	AND LEAF CATCHER	75	400	600	HSS 65002996	HSS 65002997		
	_	90	400	600	HSS 65002998	HSS 65002999		
	_	110	400	600	HSS 65003000	HSS 65003001		
	_	125	400	600	HSS 65003002	HSS 65003003		
	_	145	400	600	HSS 65003004	HSS 65003005		
	_	160	400	600	HSS 65003006	HSS 65003007		
ITEM	DESCRIPTION	Ø IN mm			PRODU	CT CODE		
5.	CCM ROOF DRAIN, ANGLED, WITH SLEEVE —	50			HSS 65	003023		
5.	AND UNIVERSAL LEAF CATCHER	63			HSS 65	003024		
	_	75			HSS 65	003025		
	_	90			HSS 65	003026		
		110			HSS 65	003027		
ITEM	DESCRIPTION	Ø IN mm			PRODUC	CT CODE		
6.	CCM PARAPET DRAIN WITH LEAF CATCHER M	110			HSS 65	003028		
ITEM	DESCRIPTION	Ø IN mm		GTH mm	PRODUCT COD 400 mm	E (FOR LENGTH) 600 mm		
7.	CCM PARAPET DRAIN, WITH ANGLED BASE —	50	400	600	HSS 65003008	HSS 65003009		
7.	PLATE AND HORIZONTAL LEAF CATCHER	75	400	600	HSS 65003010	HSS 65003011		
	_	90	400	600	HSS 65003012	HSS 65003013		
		110	400	600	HSS 65003014	HSS 65003015		
ITEM	DESCRIPTION	Ø IN mm			PRODU	T CODE		
8.	8.1 CCM LEAF CATCHER UNIVERSAL	50 - 160			HSS 65	003033		
0.	8.2 CCM LEAF CATCHER M	50 - 160			HSS 65	003032		
	8.3 CCM LEAF CATCHER HORIZONTAL	50 - 160			HSS 65	HSS 65003034		

ITEM	DESCRIPTION	Ø IN mm			PRODU	CT CODE		
9.	CCM VENT PIPE	40			HSS 65	003035		
	CONVENTILE	63			HSS 65	003036		
		75			HSS 65	003037		
		90			HSS 65	003038		
TEM	DESCRIPTION	Ø IN mm			PRODU	CT CODE		
		90/40			HSS 65	003039		
LO.	CCM RENOVATION VENT PIPE	90/60			HSS 65	003040		
		110/75				003041		
		125/90			HSS 65	003042		
TEM	DESCRIPTION	Ø IN mm			PRODU	CT CODE		
11.	CCM CABLE PIPE	50				003059		
TEM	DESCRIPTION	Ø IN mm		NGTH mm	300 mm	E (FOR LENGTH) 600 mm		
12.	CCM EXTENSION PIPES	50	300	600	HSS 65003069	HSS 65003070		
		63	300	600	HSS 65003071	HSS 65003072		
		75	300	600	HSS 65003073	HSS 65003074		
		90	300	600	HSS 65003075	HSS 65003076		
		110	300	600	HSS 65003077	HSS 65003078		
		125	300	600	HSS 65003079	HSS 65003080		
		145	300	600	HSS 65003081	HSS 65003082		
		160	300	600	HSS 65003083	HSS 65003084		
TEM	DESCRIPTION	Ø IN mm			PRODUCT CODE			
L3.	CCM VAPOUR BARRIER PLATE	50			HSS 65003098			
	CCM VAPOUR BARRIER PLATE	63		HSS 65003099				
		75			HSS 65003100			
		90			HSS 65	003101		
		110			HSS 65	003102		
		125			HSS 65	003103		
		145			HSS 65	003104		
		160			HSS 65	003105		
TEM	DESCRIPTION	Ø IN mm			PRODU	CT CODE		
4.	CCM VENT PIPE PROTECTION HOOD	50			HSS 65	003043		
.4.	COM VENT FIFE PROTECTION FIGOD	63			HSS 65	003044		
		75			HSS 65	003045		
		90			HSS 65	003046		
		110			HSS 65	003047		
		125			HSS 65	003048		
		145			HSS 65	003049		
		160			HSS 65	003050		
TEM	DESCRIPTION	Ø IN mm			PRODU	CT CODE		
L5.	CCM EXTRACTOR PIPE HOOD	50			HSS 65	003051		
IJ.	CONTEXTRACTOR FIFE HOOD	63			HSS 65	003052		
		75	HSS 65003053			003053		
		90			HSS 65	003054		
		110			HSS 65	003055		
		125			HSS 65	003056		
		145			HSS 65	003057		
		160			HSS 65	002050		

Accessories

Flat roof drains

HERTALAN® FLAT ROOF DRAINS

HERTALAN® flat roof drains compliment our HERTALAN® roof systems and thus offer the reliability of optimum compatibility with all HERTALAN® products.

HWA'S ROUND, HDPE PIPE, 600 mm long									
DIMENSIONS (MM)	40	50	63	75*	90*	110	125	140	160
EPDM FLANGE, ROUND WITHOUT EW JOINING EDGE	Ø 300 mm			Ø 400 r	Ø 400 mm				
EPDM FLANGE, SQUARE WITH EW JOINING EDGE	200 x 20	00 mm				300 x 3	00 mm		
CAPACITY (L / S) ACC. TO EN 1253 (INCL. GRAVEL TRAP)				4.7	4.5	6.0	9.5		10.5

^{*} Diameters of 75 and 90 mm are also available as a 45° variant.

The diameters 75, 90, 110, 125 and 160 mm are tested according to EN 1253.

HWA'S EMERGENCY OVERFLOW, HDPE SQUARE, 600 mm long						
DIMENSIONS	60 x 80**	60 x 100**				
FLANGE DIMENSIONS WITHOUT EW JOINING EDGE	300 x 300 mm	300 x 300 mm				
FLANGE DIMENSIONS WITH EW JOINING EDGE	300 x 300 mm	300 x 300 mm				

^{**} A 45° and a 90° variant are available for both variants.

HERTALAN® GRAVEL GUARD

The HERTALAN® gravel guard according to EN 1253 forms part of the tested drainage system according to EN 1253, round (diameter: 75, 90, 110, 125 and 160 mm).

ROUND AND EMERGENCY OVERFLOWS

The connection to the HERTALAN® flat roof system depends on how our flat roof drains (round / square) are used. The connection or joint to the flat roof waterproofing solution (HERTALAN® EASY COVER / EASY WELD) is made by means of bonding with HERTALAN® KS 137 / KS 96 or hot-air technology (EW joining edge) according to the application instructions and with reference to the valid technical regulations.



UNIVERSAL HERTALAN® GRAVEL GUARD

System accessories for HERTALAN® flat roof drains measuring 75 – 160 mm.



SEALING RINGS / PROTECTION AGAINST BACKWATER

Connecting or sealing rings are available for the round diameters of 75, 90, 110, 125 and 160 mm to create a secure connection to the wastewater system.



Accessories

Pre Formed Accessories

HERTALAN® PRE FORMED CORNERS

HERTALAN® pre formed accessories are compliment to the HERTALAN® roof systems and thus offer guaranteed optimum compatibility with other HERTALAN® products.

DIMENSIONS	
INTERNAL CORNER (90°)	100 x 100 x 100 mm
	200 x 200 x 300 mm
EXTERNAL CORNER (90°)	100 x 100 x 100 mm
	300 x 300 x 150 mm
SKYLIGHT CORNER (45°)	180 x 150 x 150 mm

The standard dimensions are also available with an EASY WELD joining edge on the underside. Different dimensions and shapes can be custom-made upon request.

Application

Depending on the HERTALAN® roof system, HERTALAN® pre formed accessories are attached by means of hot-air welding or adhesion .

If the detail can no longer be processed with a pre formed accessory, HERTALAN® EASY WELD cover strip or HERTALAN® FLASH WELD can be used depending on the HERTALAN® roof system.





HERTALAN® PRE FORMED ACCESSORIES FOR EXTERNAL AND INTERNAL CORNERS

HERTALAN® SLEEVES

HERTALAN® sleeves are coordinated to the HERTALAN® roof systems and thus offer guaranteed optimum compatibility with other HERTALAN® products.

DIMENSIONS	
SLEEVE (ROUND)	500 mm
SLEEVE WITH EW JOINING EDGE	450 x 450 mm
SLEEVE WITH EW JOINING EDGE	700 x 700 mm
CUSTOM-MADE SKYLIGHT SLEEVE WITH EW JOINING EDGE	Upon request



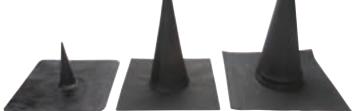
HERTALAN® PIPE SLEEVES

HERTALAN® pipe sleeves compliment the HERTALAN® roof systems and thus offer guaranteed optimum compatibility with other HERTALAN® products.

DIMENSIONS	
0 - 50 mm, 150 mm tall	300 x 300 mm
20 - 75 mm, 300 mm tall	300 x 300 mm
70 - 125 mm, 300 mm tall	300 x 300 mm
120 - 180 mm, 300 mm tall	400 x 400 mm

Application

Depending on the selected roof system, the HERTALAN® roof penetration is adhered or affixed to the HERTALAN® roof waterproofing solution with hot air.



HERTALAN® FLASH WELD

HERTALAN® FLASH WELD is a plastically ductile, unvulcanised strip material. The underside is equipped with a weldable HERTALAN® EASY WELD TPE layer. It is used to create "difficult" details on a HERTALAN® roof. The strip can simply be moulded into shape and then welded onto the substrate.

HERTALAN® FLASH WELD			
POLYMER	EPDM / TPE	THICKNESS	1.6 mm
COLOUR	Black / green	WIDTH	180 mm
		LENGTH	5 m



HERTALAN® FLASH WELD FINISHED PARTS

The pre-cut HERTALAN® FLASH WELD parts are the perfect solution for corner areas where no prefabricated corners can be used. Because the unvulcanised material can be deformed under the influence of heat, all corner shapes can be created.

HERTALAN® FLASH WELD FINISHED PARTS	
DIMENSIONS OF "TONGUE, OVAL"	350 x 170 mm
DIMENSIONS OF "CIRCLE WITH GROOVE"	Ø 170 mm



Accessories

HERTALAN® FLASHING

HERTALAN® FLASHING is a non-vulcanised chloroprene rubber lining that is deformable. This lining is used to create "difficult" details on a HERTALAN® roof. This lining can be simply moulded into shape using hot air and then bonded using HERTALAN® KS 137.

HERTALAN® FLASHING			
POLYMER	CR	THICKNESS	1.6 mm
COLOUR	Black / green	WIDTH	300 mm
		LENGTH	5 m

PROPERTIES	TESTING		SPECIFICATIONS
TENSILE STRENGTH (L / W)	EN 12311-2B	≥ 8.0	8.7 / 8.6
ELONGATION AT BREAK (L / W)	EN 12311-2B	≥ 400	530 / 480

Application

Cut a piece of HERTALAN® FLASHING to the right size to waterproof the detail on the HERTALAN® roof. Apply HERTALAN® KS 137 to the underside of the piece of HERTALAN® FLASHING and to the roof area. The contact adhesive must evaporate for 5 – 15 minutes, before HERTALAN® FLASHING is applied. Heat the HERTALAN® FLASHING with a hot-air gun during the application process and shape it so that it fits well. Under no circumstances should you heat it up directly on the HERTALAN® KS 137. The HERTALAN® FLASHING must be rolled out firmly with a silicone pressure roller. Also see the HERTALAN® KS 137 product specification. Finally, apply a bead of HERTALAN® KS 96 along the outside of the HERTALAN® FLASHING. Then carefully wipe off excess.

Shelf life and storage

HERTALAN® FLASHING can be stored for three months at a temperature of o°C to 8°C (in the refrigerator).

Vulcanisation

HERTALAN® FLASHING vulcanises slowly within six to 12 months, depending on the ambient temperature.

Hazardous substances

This product contains > 5% - < 10% lead tetroxide (CAS no. 1314-41-6), which is included in the list of substances of very high concern (SVHC). You will find further information at: http://echa.europa.eu.



HERTALAN® EASY WELD COVER STRIPS

HERTALAN® EASY WELD cover strips consist of an EPDM top layer and a factory applied coating that is weldable on the underside (EW / hot-air technology). It is used for joining the seams of HERTALAN® EASY WELD transverse joints and HERTALAN® EASY COVER sheets.



HERTALAN® SEAM TAPE			
THICKNESS	1.7 mm	LENGTH	20 m
THICKNESS OF THE EW COATING	0.5 mm	WIDTH	12, 18 and 36 cm

TESTS		TARGET VALUE	RESULT SPECIFIED
ISO133 2.16 kg / 190°C	dg / min		19
EN 12311-2B	N / mm²	≥ 8.0	8.7 / 8.6
EN 12311-2B	%	≥ 400	530 / 480
EN 12310-2	N	≥ 25	40 / 62
EN 1107-2	%	Max. 0.2	0.08 / 0.05
EN 12316-2	N / 50 mm	≥ 80	169
EN 12317-2	N / 50 mm		318
EN 13501-5	-	Passed	NPD
EN 12730	kg	≥ 25	25
EN 12691	mm	≥ 300	300
EN 13948	-	Root-resistant	Root-resistant
EN 1548		Passed	Satisfied
	ISO133 2.16 kg / 190°C EN 12311-2B EN 12311-2B EN 12310-2 EN 1107-2 EN 12316-2 EN 12317-2 EN 13501-5 EN 12730 EN 12691 EN 13948	ISO133 2.16 kg / 190°C	ISO133 2.16 kg / 190°C dg / min

HERTALAN® EASY WELD welding rope:

3 mm thick HERTALAN® EASY WELD cord as a supplementary product for T-joint development. It is available in a 5 m or 10 m roll.

HERTALAN® EASY WELD welding strip:

Auxiliary product for welding HERTALAN® EASY WELD with an automatic welder.



HERTALAN® adhesives

HERTALAN® provides a supplementary package of adhesives and sealants for optimum application of our EPDM roof systems. Our EPDM adhesives and sealants were developed specifically for the application of HERTALAN® EPDM waterproofing membranes and sheets. We guarantee that you will benefit from the decades of reliability our products are famous for. Our EPDM adhesives can be applied to many substrates and to every roof structure.



HERTALAN®KS96

Adhesive Sealant

MS POLYMER BASED SINGLE COMPONENT

HERTALAN® KS 96 is specifically developed for the bonding of HERTALAN® EPDM rubber waterproofing solutions on vertical and horizontal substrates and for the additional waterproofing of bonded seams in the edge area.

PROPERTIES

HERTALAN® KS 96 demonstrates very strong adhesion properties – both between the various EPDM linings and when used for bonding on the aforementioned substrates. The bond is elastic and waterproof. HERTALAN® KS 96 is applied on one side. Once it is completely cured, a temperature resistance of -40 °C to +100 °C is achieved.

APPLICATION

HERTALAN® KS 96 is ready for use and must not be thinned or mixed with external materials. It must be applied in dry weather conditions and at a temperature of at least +5 °C. Both the material and the substrate must be dry, free from frost and clean.

An overlap should measure at least 50 mm.

Otherwise, the overlap depends on the application.

Apply HERTALAN® KS 96 on one side in two lines measuring at least 7 mm in diameter – do not spread out.

In the case of adhered seams (HERTALAN® KS 137), at the edge a 20 mm wide zone is sealed with HERTALAN® KS 96 (cartridge or foil). To this end, the adhesive is applied and then rolled onto the seam with a silicone pressure roller. Care must be taken here to ensure that the escaping bead of adhesive is approximately 1 mm wide.



HERTALAN® KS 96

SUBSTRATES

HERTALAN® KS 96 is specifically developed for bonding on vertical and horizontal substrates such as wood, concrete, metals, brickwork, EPDM, etc. Substrates must be even, dry, free from frost, clean and free from grease. It is not possible to perform bonding directly on EPS and PVC.

COVERAGE RATE

Foil 600 ml of HERTALAN® KS 96, coverage approx. 15 lm (with a round diameter of min. 7 mm). Cartridge with 290 ml of KS 96, coverage approx. 7 lm (with a round diameter of min. 7 mm).

CLEANING

The application devices should be cleaned with white spirit straight away if they are dirty.

USAGE TIME

The open time (pot life) depends on the relevant outdoor temperatures. Generally speaking, do not apply any more adhesive than can be worked within five minutes. This means that the open time is shortened significantly at higher temperatures.

CURING

Approx. 2 mm / 24 hours. After a few days (> 20 days), depending on the relevant outdoor temperatures, optimum bonding and heat resistance with respect to the mechanical stresses to be expected is achieved. However, leak tightness is guaranteed straight after application.

TECHNICAL DATA	
PRODUCT TYPE	HERTALAN® KS 96 is a high-quality, single-component, MS polymer-based adhesive and sealant
COLOUR	Black
SMELL	Odourless
SHRINKAGE	None
DENSITY (20°C)	1.415 kg / m³
CURING (IN 24 HOURS)	2 mm (in 24 hours)
ELONGATION AT BREAK	300% (DIN 53504)
SHELF LIFE	12 months, when stored unopened in its original packaging in a cool and dry place

DELIVERY UNIT	
CONTAINER	POTENTIAL SEAM JOINT
Foil 600 ml	Up to 15 lm
Cartridge 290 ml	Up to 7 lm



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products.

O HERTALAN® product catalogue

HERTALAN® product catalogue

HERTALAN KS96 PRIMER

KS96 primer

WITH A POLYURETHANE RESIN AND SOLVENT BASE

A high-quality primer with a polyurethane resin and solvent base. The primer is used on porous substrates to improve the adhesion of HERTALAN® KS 96.

PROPERTIES

Especially on porous substrates, HERTALAN® KS 96 PRIMER guarantees a bonding surface for the use of HERTALAN® KS 96.

APPLICATION

HERTALAN® KS 96 PRIMER is ready for use and must not be thinned or mixed with other products. Only use the product in dry weather conditions and from a temperature of +5 °C.

HERTALAN® KS 96 PRIMER is applied evenly and not too thickly using a brush. The primer is not suitable for underwater applications or for application on substrates such as PTFE, PP, PE and soft PVC.



HERTALAN® KS 96 PRIMER

SUBSTRATES

Porous substrates such as brickwork, natural stone, concrete, wood and plaster. Substrates must be smooth, dry, clean and load-bearing.

COVERAGE RATE

Depending on the quality of the substrate, approx. $100 - 250 \text{ g/m}^2$.

CLEANING

Uncured material can be removed with xylene.

CURING

Depending on the substrate and weather conditions such as humidity.

Approx. 60 minutes at +25 °C and 50 % RH. HERTALAN® KS 96 PRIMER has an open time (setting process/drying) of approximately 4 hours.

TECHNICAL DATA	
PRODUCT TYPE	Primer with a polyurethane resin and solvent base
COLOUR	Almost colourless, clear
SMELL	Solvent
DENSITY (20°C)	980 kg/m³
VISCOSITY	50 - 200 mPas
FLASH POINT	26 °C
SHELF LIFE	6 months, when stored unopened in its original packaging in a cool place (+5 to 20 °C)

DELIVERY UNIT

1.000 ml per container



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products.

HERTALAN®K5143

Surface adhesive

READY TO USE, SINGLE COMPONENT
PU ADHESIVE WITH ORGANIC SOLVENTS

HERTALAN® KS 143 is a ready to use, single component PU adhesive with organic solvents which was specifically developed for bonding the HERTALAN® EPDM membranes and sheets to substrates in the surface area.

APPLICATION

HERTALAN® KS 143 is ready for use. Do not thin or mix with external materials. HERTALAN® KS 143 should be applied in a longitudinal direction in adhesive strips that are at least 8 mm in diameter, whereby the surface area is at least 50 %. The product is applied in dry weather conditions and at an ambient temperature of at least +5 °C. Both the material and the substrate must be smooth, dry, clean and free from frost. Let the adhesive surfaces air-dry for min. 5 and max. 20 minutes before laying the EPDM sheets/membranes, so as to prevent subsequent bubble formation.



HERTALAN® KS 143 – the surface adhesive

SUBSTRATES

Heavy / lightweight concrete, non-sanded bitumen roofing membranes, bituminously laminated insulation materials, wood, etc. Substrates must be smooth, clean, dry and free from oil / grease. The substrate must be free from sharp objects such as sharp stones, glass, etc. Such objects must be removed in any case. It is not possible to perform bonding directly on polystyrene foam or soft PVC!

COVERAGE RATE

Coverage is approx. 225 g/m² with one-sided application (and a surface area of approx. 50 %).
Care must be taken to ensure a sufficient applied quantity when bonding on absorbent substrates.

COVERAGE

The devices can be cleaned with white spirit as long as the adhesive has not cured yet. Afterwards, the adhesive can only be removed mechanically.

USAGE TIME

The open working time very much depends on the relevant outdoor temperatures. Generally speaking, do not apply any more adhesive than can be worked within 5 – 20 minutes. The working time can be shortened significantly at higher temperatures.

CURING

Dependent on the relevant outdoor temperature and humidity. The maximum frictional connection (curing) is achieved after approximately 48 hours. Once the product is completely cured, a temperature resistance of approx. -40 °C to +80 °C is achieved.

TECHNICAL DATA	
PRODUCT TYPE	Moisture-responsive adhesive with a polyurethane base
COLOUR	Golden yellow
VISCOSITY	5.000 ± 1.500 mPas
FLASH POINT	< 0°C (closed cup)
DENSITY (20°C)	1.003 ± 10 kg/m ³
SOLIDS CONTENT	82 ± 2%
SHELF LIFE	12 months, when stored unopened in its original packaging in a cool and dry place

DELIVERY UNIT	
CONTAINER	COVERAGE PER m ²
Canister, 2 kg	250 g
Canister, 6 kg	250 g



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products.

HERTALAN®KS137

Contact adhesive

READY TO USE

HERTALAN® KS 137 is a ready to use contact adhesive for HERTALAN® EPDM membrane and sheet seam connections and for surface bonding on dry, smooth and clean substrates (wood, concrete, metals such as aluminium, steel, zinc plate, etc.), preferably in the area of joints and junctions.

PROPERTIES

HERTALAN® KS 137 demonstrates very strong adhesion properties – both between the various HERTALAN® EPDM layers and when used for bonding on various substrates. The adhesive connection is elastic and waterproof. HERTALAN® KS 137 is always applied on both sides. Once it is completely cured, heat resistance of approx. -40 °C to +80 °C is achieved.

APPLICATION

General:

HERTALAN® KS 137 is ready for use and must not be thinned or mixed with external materials. It must be applied in dry weather conditions and at an ambient temperature of at least +5 °C. Both the EPDM material and the substrate must be dry and clean.



HERTALAN® KS 137 – contact adhesive

Seam connections:

The seam overlap should be at least 100 mm (80 mm HERTALAN® KS 137 and 20 mm HERTALAN® KS 96). HERTALAN® KS 137 is applied on both sides with a width of 80 mm using a brush / paint roller so as to provide good coverage. The adhesive consumption is approx. 50 g/m. After an open time of approx. 5 – 15 minutes, carefully close the seam connections without creating any air bubbles and firmly compress with a silicone roller . The outer, adhesive-free seam edge is sealed with HERTALAN® KS 96 and compressed with a silicone roller. The adhesive connection can be fully loaded after approximately 12 hours. A maximum adhesive force and heat resistance is achieved after approx. one week.

Surface bonding:

Here, too, it must be ensured that the substrate is clean and dry and cannot be attacked by the solvent. The adhesive is always applied on both sides. Care must be taken to ensure a sufficient applied quantity on absorbent substrates. The adhesive is applied on both sides with a wide brush so as to provide good coverage. After an open time (5 – 15 minutes), the waterproofing membrane is firmly rolled onto the substrate in a pressurised state to prevent air bubbles from forming.

SUBSTRATES

Heavy / lightweight concrete, non-sanded bitumen roofing membranes, bituminously laminated insulation materials, wood, etc. Substrates must be smooth, clean, dry and free from oil / grease. The substrate must be free from sharp objects such as sharp stones, glass, etc. Such objects must be removed in any case. It is not possible to perform bonding directly on polystyrene foam or soft PVC!

COVERAGE RATE

Depending on the substrate, the coverage is approx. 500 g/m² when adhesive is applied on both sides.

CLEANING

Devices can be cleaned with white spirit.

USAGE TIME

The open time very much depends on the relevant outdoor temperatures. Generally speaking, it is approximately 5 – 15 minutes. This means that the open time can be shortened significantly at higher temperatures.

CURING

The connection can be loaded approximately 12 hours after bonding. Maximum bonding and heat resistance is achieved after approximately one week.

TECHNICAL DATA	
PRODUCT TYPE	Adhesive with a synthetic rubber and synthetic resin base, dissolved in combustible and organic solvents
COLOUR	Black
SMELL	Organic solvents
VISCOSITY (20°C)	3.500 ± 500 mPas
DENSITY (20°C)	860 ± 10 kg/m³
SOLIDS CONTENT	45 ± 2 %
DRY FILM	Elastic, waterproof
SHELF LIFE	12 months, when stored unopened in its original packaging in a cool and dry place

DELIVERY UNIT	
CONTAINER	COVERAGE PER m ²
Can, 2 kg	500 g
Bucket, 6 kg	500 g



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products.

HERTALAN®KS205

Contact adhesive

PRESURRISED AND SPRAYABLE

HERTALAN® KS 205 is a solvent based, sprayable contact adhesive with a synthetic rubber and synthetic resin base. The adhesive is applied on both sides and is used on horizontal and vertical substrates.

APPLICATION

The product is applied in a closed airless spraying system. Bonding should take place max. 5 – 15 minutes after adhesive has been applied on both sides (depending on the weather and the temperature). Carefully lay the HERTALAN® sheet or membrane in the adhesive zone without creating any creases or air bubbles, then firmly compress with a silicone roller. The ambient temperature is min. + 5 °C.

SUBSTRATES

Heavy/lightweight concrete, non-sanded bitumen roofing membranes, bituminously laminated insulation materials, wood, etc. Substrates must be smooth, clean, dry and free from oil/grease. The substrate must be free from sharp objects such as sharp stones, glass, etc. Such objects must be removed in any case. It is not possible to perform bonding directly on polystyrene foam or soft PVC; carry out your own tests if necessary!

COVERAGE RATE

Depending on the substrate, the coverage is approx. 300 g/m² (0.35 l/m²) when adhesive is applied on both sides.

CLEANING

Application devices can be cleaned with white spirit.

USAGE TIME

The open setting time very much depends on the relevant outdoor temperatures. Do not apply any more product than can be worked within 5 – 15 minutes. This means that the open time can be shortened significantly at higher temperatures.

CURING

The maximum frictional bond is achieved after approximately 48 hours depending on the outdoor temperatures and humidity.

TECHNICAL DATA	
PRODUCT TYPE	Sprayable contact adhesive, solvent-based
CONSISTENCY	Liquid
COLOUR	Yellowish
FLASH POINT	< 0°C
MIXABLE WITH WATER	No
SHELF LIFE	12 months, when stored unopened in its original packaging in a cool and dry place



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products.

HERTALAN® KS 205 – container variants



KS 205 - SPRAY CAN

Spray can for use on small and hard-to-reach surfaces.

DELIVERY UNIT	
AEROSOL CAN	
Application	Spraying on
ml/container	750
Packaging unit (qty/box)	6



KS 205 – SPRAYING CANNISTER

The spraying device for fast and efficient bonding.

DELIVERY UNIT	
PRESSURE CANNISTER (DISPOSABLE)	
Application	Mechanically
kg/container	14.2
HOSE	
5.5 m long	
SPRAY GUN INCL. LANCE	
470 mm	



CARLISLE® BACKPACK

The perfect carrying aid for convenient and quick surface application when applying product with a spraying cannister.

Product properties:

- Reinforced and padded back panel
- Carry handle at the top
- Shoulder straps padded on the back and padded waist strap, all with lockable plastic buckles
- Additional strap with buckle for securing the pressure cannister

HERTALAN® KS 205 – spraying device

The HERTALAN® KS 205 disposable pressure cannister spraying system contains a contact adhesive for bonding HERTALAN® flat roof waterproofing solutions without using a compressor or a power supply.

PROPERTIES

• Pressure cannister's capacity: 14.2 kg (18 litres)

 Net consumption approx. 200 g/m² when product is applied on both sides

• Open setting time of 2 to max. 30 minutes

• Free from toluene and methylene chloride

• Pressure cannister's weight when pressurised: 19.9 kg

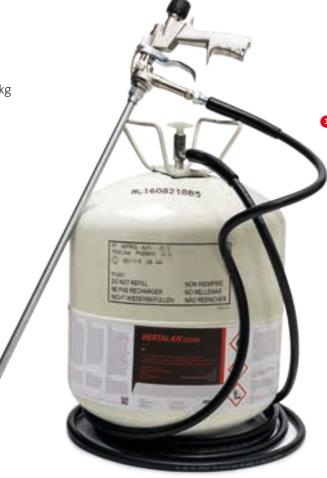
The priming set with the spraying device (mechanical application) consists of:

• KS 205 pressure cannister (disposable)

Connection hose

Stainless steel spray gun including extension piece (spraying lance)

 CARLISLE® backpack for pressure cannister, optional



1 Pressure cannister spraying system with hose and spray gun

2 Connect the spray gun to the hose, tighten with union nut

3 Spray gun

4 Adjusting nut

Nozzle

6 Connection nozzle

Adjusting nut without end stop

8 Hose connection to cannister valve

9 Predetermined breaking point. To be driven in to cure the product residue







BEFORE USE

Ensure that all the parts of the pressure cannister spraying system (disposable cannister, connection hose, spray gun and spraying lance) are undamaged and have no defects.

Please shake or roll the pressure cannister for at least 30 seconds before use.

SET UP AND ASSEMBLY

The screwable individual components must be connected with one another. Ensure that the union nuts are secure during this process. The adjusting nut on the spray gun must be closed.

INSTRUCTIONS FOR USE

HERTALAN® KS 205 is a contact adhesive that is applied on both sides. The adhesive can be used on both horizontal and vertical substrates. Shake or roll the pressure cannister for at least 30 seconds before use to distribute the propellant gas well and to achieve a homogeneous spraying result. Hold the spray gun approx. 20 cm away from the surface to be sprayed and adjust so that an even spraying result is achieved. The adhesive is applied on both sides, namely on the substrate and on the HERTALAN® EPDM. After an open time (within 5 – 15 minutes), carefully turn the HERTALAN® EPDM membrane without creating any air bubbles (avoid tautness and folds) and firmly roll on with a silicone roller to achieve optimum adhesion.

The working temperature is min. +5 °C and max. +35 °C. The pressure cannister may not be exposed to direct sunlight or temperatures above +40 °C.

The disposable pressure cannister is user-friendly and ready for use straight after the hose and the gun have been connected. Thanks to the closed system, curing of the adhesive is eliminated, so the system can be used several times. After use, however, the spray gun must be locked immediately. Please clean and reattach the gun's nozzle before starting further work, re-open the gun and continue. The valve on the disposable pressure cannister remains open until the cannister is replaced after emptying.



Please do not unscrew the spray gun's adjusting nut entirely, because it does not have an end stop. The adhesive would spray out in an uncontrolled manner otherwise.

REPLACING THE CANNISTER

The cannister must only be replaced once it has been completely emptied. The empty condition is detected by means of propellant gas audibly escaping. Once the cannister valve has been closed, the connection hose is unscrewed from the container and the spray gun is opened at the same time to relieve pressure. Once the adjusting nut on the spray gun has been closed, the accessories can be connected to a new cannister again.

DISPOSAL

The empty cannister's valve is opened so that the remaining residual pressure can be released. This process should take place outdoors, because any residual adhesive can escape here. The residual pressure is completely released after at least 24 hours. Product residues can cure once a predetermined breaking point has been opened next to the valve.



Follow your local authority guidelines for safe disposal.

SUBSTRATES

Concrete, aerated concrete, wood, (mineralised) bituminous roofing membranes, etc. The substrate on which the HERTALAN® KS 205 is applied must be loadbearing, clean, dry and free from grease. Uneven areas must be levelled out. HERTALAN® KS 205 is not suitable for bonding unlaminated polystyrene foam or soft PVC.

CONSUMPTION

Depending on the evenness of the substrate and the materials to be bonded, the amount of adhesive to be applied (on both sides) is approx. 0.35 l/m^2 . The disposable pressure cannister is sufficient for a roof area measuring approx. $50 - 55^2$.

CLEANING

Dirty tools can be cleaned with white spirit.

USAGE TIME

The usage time depends on the temperature and the humidity. Under normal circumstances, you should not apply any more adhesive than you can work in 5 – 15 minutes at most. The open time is shortened significantly at higher temperatures.

CURING TIME

Dependent on the temperature and humidity. Curing increases gradually and is complete after approximately 48 hours.

ADVANTAGES

- No risks in terms of durability or quality due to the tried and tested HERTALAN® KS 205 contact adhesive
- Tested contact adhesive with a high level of adhesion for HERTALAN® EPDM roof systems, tested by the BDA [Association of German Architects] and included as a system in our KOMO certificate
- Multifunctional adhesive system for various substrates. No PVC or non-laminated EPS
- Flexible in use, ready for use within a few minutes to be used according to our standard installation guidelines
- No compressor, so no power supply, only individual disposable cannister
- Contents are sufficient for application on roof edges, partition walls, a dormer or a car port
- Reusable hose and gun, also available separately

DURABLE AND WEATHER PROOF

Pressure cannister spraying systems have been used in various industries – such as interior design and furniture upholstery – for many years. This system is particularly useful for bonding roof waterproofing solutions too, but use on the roof requires greater adhesion. The roof waterproofing solution is exposed to the sheer diversity of the elements over many years and you want to make sure that there is no risk in terms of durability.



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HERTALAN® product catalogue

CARLISLE® CM Europe

HERTALAN® is one of the innovative products brought together under the strong umbrella brand of CARLISLE® CM Europe, standing for decades of skill in EPDM sealing solutions. Quality manufactured in Germany, at home on the roofs throughout the world.

Regional roots, global network.

The CARLISLE® CM Europe Group brings together the decades of experience of European rubber producers under one roof. It is part of the listed US group CARLISLE® Companies Incorporated and can look back on many years of tradition.

As an established specialist in high-quality technical elastomer products for flat roofs, façades and the water-proofing of buildings, we have at the same time always looked ahead. With our 475 employees, we do what we can every day to inspire our customers – with the best products, the best advice and the best training.

We want to give our customers the knowledge they need to carry out their projects properly and thus successfully. Only a manufacturer knows its products of today and the ways they can be used in the future.

For years, we have intensively trained craftsmen so that they can achieve the very best build quality. We have significantly expanded our training capability in our CARLISLE® ACADEMY and we can offer tailor-made training to installers, retailers, architects and planners. Success starts in the CARLISLE® ACADEMY.

Locations

EUROPE

- 1 | Hamburg | Germany (European Head Office and Production)
- 2 | Waltershausen | Germany (Production)
- 3 | Kaufbeuren | Deutschland (CARLISLE® Services)
- 4 | Weesp | The Netherlands (Production)
- 5 | Kampen | The Netherlands (Production and Administration)
- **6 | Mansfield | Great Britain** (Production and Administration)
- 7 | Belper | Great Britain (Production and Administration)
- 8 | Baia Mare | Romania (Production)

AMERICA

- 9 | Scottsdale | USA (Headquarters of CARLISLE® Companies Inc.)
- 10 | Carlisle | USA (Division of CARLISLE® Construction Materials)

www.ccm-europe.com



Professional training delivered by experts



Training with the CARLISLE® ACADEMY

As Europe's leading manufacturer of EPDM, each of our CARLISLE® ACADEMY training sessions provides you with sound expert knowledge and practical expertise. Our courses focus on our company's own product lines.

No matter which products, systems or solutions you are interested in – in the CARLISLE® ACADEMY you can find the right course on offer, from classic publicity training in the training centre at the CARLISLE® ACADEMY in Mansfield, to individual training sessions on your premises. The taught content is tailor-made to the everyday professional life of installers, retailers, architects and planners – so you can use your newly-acquired knowledge immediately.

BASIC TRAINING



What are the benefits of EPDM and how do you install it? In our Basic Training, we give you an initial overview of our products and our company. In the practical section, you can see for yourself how easy it is to install.

ADVANCED COURSE 1



Do you want to deepen your knowledge of EPDM and its possible uses? In our Advanced Course 1, you will learn more about our products and important standards, and can practise installation in a practical way on a model. At the end, you will receive proof of participation in the form of a certificate.

ADVANCED COURSE 2

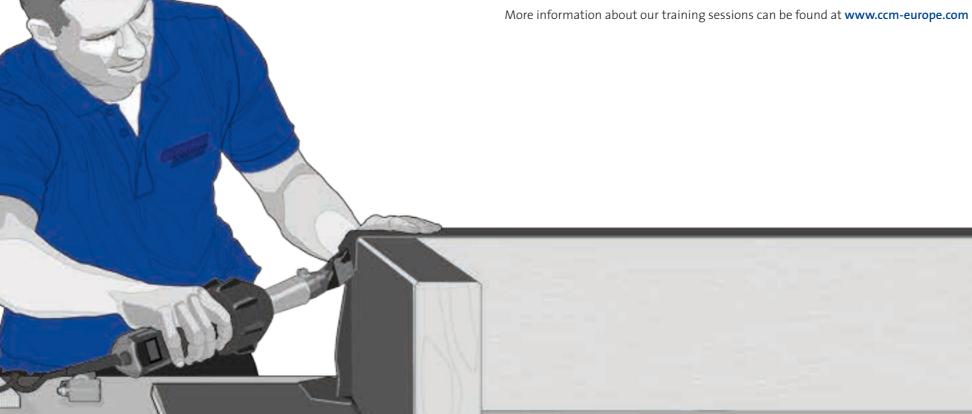


What standards have to be met when using our products? What are the tips for installation? In our Advanced Course 2, we extend your knowledge to include theoretical principles and in the practical section work on a large model. During our factory tour, you can look behind the scenes of EPDM production.

INDIVIDUAL COURSES



Furthermore, we can provide individual company certification, and architect and retailer seminars that are perfectly tailored to your needs and, of course, industry requirements.



An overview of our services

We want you to feel secure all round with CARLISLE® CM Europe. So for us, this not only includes supplying the best products for your project but also the best possible customer service.

ADVICE AND PLANNING

- Individual consultancy appointments
- Technical advice for new builds and renovations
- Creation of renovation concepts and illustration of renovation alternatives
- Individual designs of roof structures and detailed solutions
- Tender documents

HERTALAN® product catalogue

- Drafting of specifications
- CAD drawings for individual connecting areas or roof superstructures

CALCULATIONS

- Wind load calculations
- Drainage calculations
- Cost estimates

ON-SITE SERVICE

- On-site personal consultation appointments
- Roof inspections and property surveys with status reports
- Roof openings in the case of renovations
- Construction supervision up to the final site inspection

DELIVERY

completion of your project.

 Delivery to the location of your choice, even direct to the construction site

Our requirement for good service is that we accompany

you in word and deed from the first consultation to

measuring up and on-site briefings. Whether for new

builds or renovations, from the roof to the waterproof-

ing of buildings. We are even there for you after the

- Provision of unloading facilities on demand
- Free delivery may apply on certain orders, subject to Terms and Conditions.
- On-time deliveries at fixed times are possible on request

SAFETY

 Production certified acc. to DIN EN ISO 9001 and DIN EN ISO 14001

trading partners.

- Environmental product declaration (EPD)
- Comprehensive certification and test records
- Extended tests carried out in our in-house test laboratories

TRAINING

Our team of qualified and experienced employees con-

sists of specialist advisers, application engineers, civil

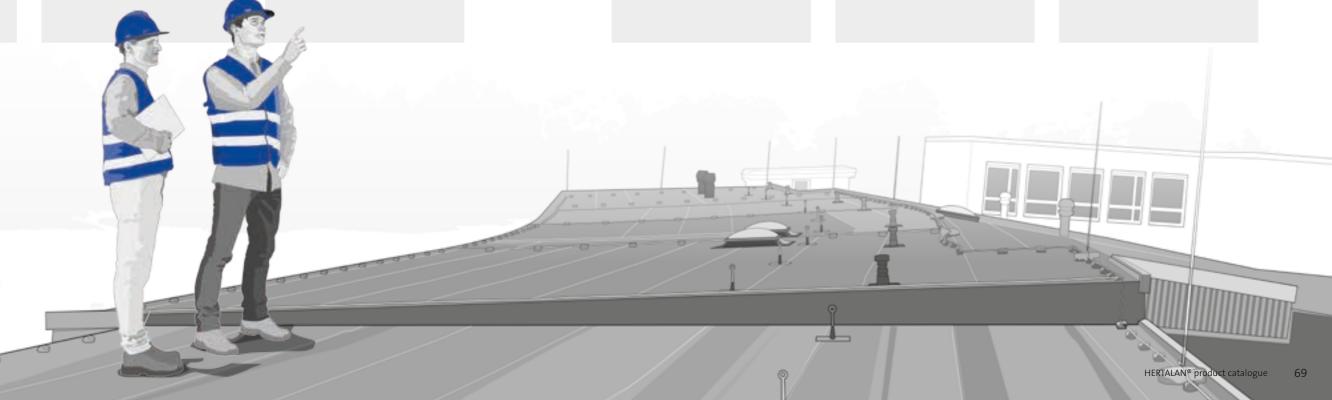
provide tailor-made services to our customers, whether

engineers and architects. In this way, we can always

they are installers, planners, architects or specialist

CARLISLE® ACADEMY for

- Roofers
- Architects
- Contractors
- Distributors



Notes

Contact

We are happy to advise on the selection or combination of suitable products for your property.

Just call, fax or mail us.



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