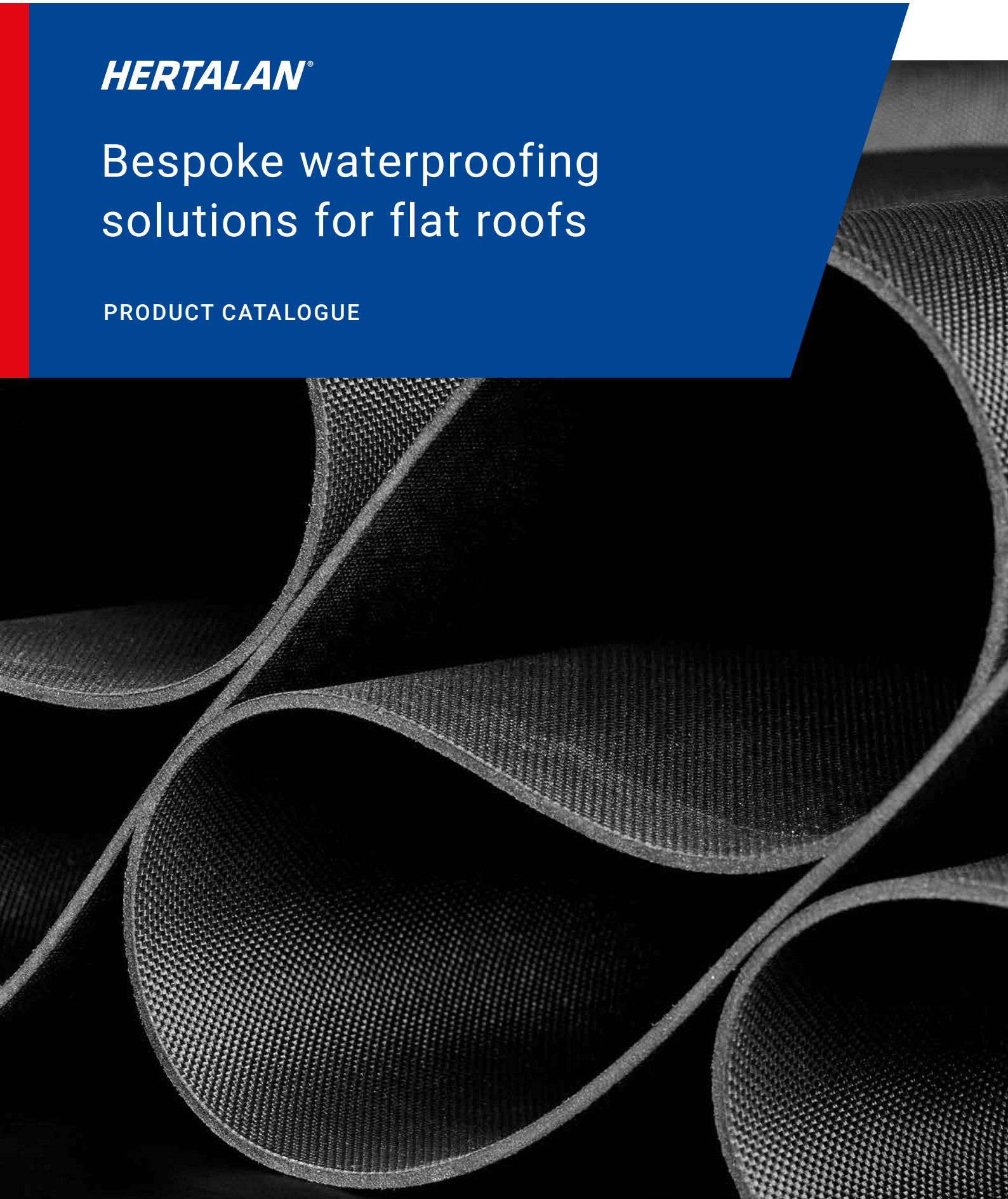


HERTALAN®

Bespoke waterproofing solutions for flat roofs

PRODUCT CATALOGUE



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“For over 50 years, HERTALAN® has been Europe’s leading manufacturer of EPDM waterproofing membranes. Our products are made with the highest quality materials and craftsmanship, and they are backed by our unmatched support. If you’re looking for waterproofing solutions for flat roofs and facades that you can trust, look no further than HERTALAN®.”



Allen Coldrake
Director of Sales and Technical Roofing

Why make things complicated when they can be done quickly? Whether as a prefabricated membrane, in sheets or strips, HERTALAN® makes durable EPDM water-proofing for flat roofs and façades easier than ever.

As far back as the late 1960s, we were asking ourselves how buildings could be reliably protected against weathering and moisture over the long term. Even then, ensuring straightforward installation was a key priority for us. As one of the first manufacturers of EPDM roofing membranes in Europe, we have now been producing HERTALAN® for more than 50 years.

Thanks to the unique material properties of EPDM, HERTALAN® is hard to beat when it comes to flexibility, ease of installation and durability. And because our HERTALAN® systems are installed without an open flame, installers do not have to worry about the associated fire risk.

HERTALAN® delivers exactly what it promises: reliable, long-lasting waterproofing.

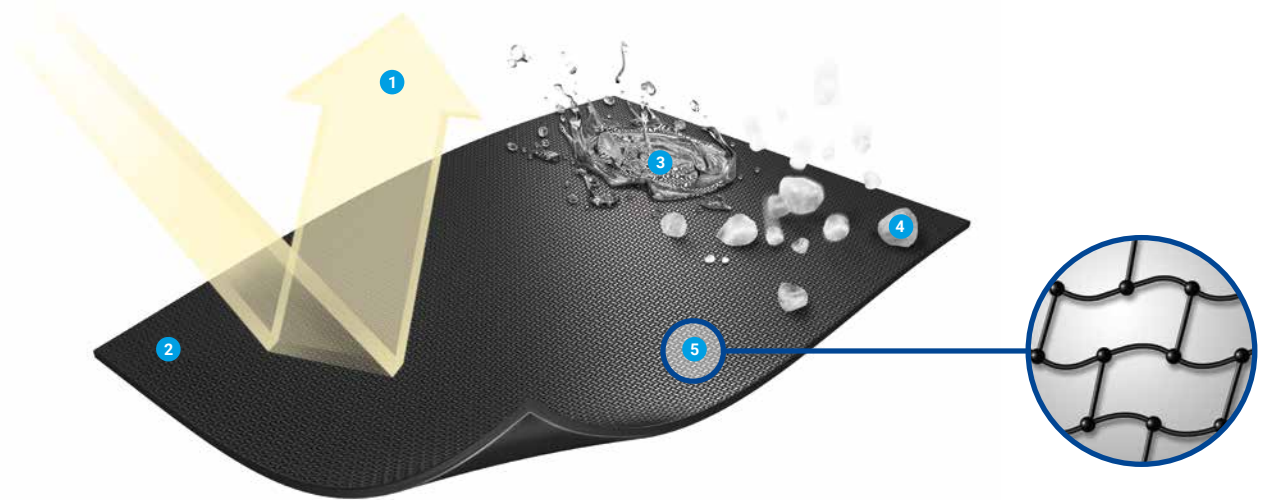
Waterproofing solutions with EPDM

Why use EPDM?

A waterproofing system has to withstand a great deal. Day after day, wind, sun, frost and rain place constant demands on the material, causing conventional systems to age quickly

Not EPDM. This synthetic ethylene propylene diene monomer rubber features a unique molecular network structure that provides outstanding resistance to weathering and a wide range of chemicals. EPDM remains permanently elastic and flexible, with a service life more than twice as long as bitumen.

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 -45 °C
- Virtually shrink free
- Bitumen resistant
- Halogen and softener free

HERTALAN® – our EPDM waterproofing system

Permanently watertight, permanently flexible – the versatile material EPDM is the perfect basis for our HERTALAN® systems. Whether as the prefabricated HERTALAN® EASY COVER membrane or in strips, HERTALAN® can be installed quickly and easily on both new-build and refurbishment projects, without the risk of fire.



HERTALAN® makes smart use of the unique material properties of EPDM:

Free from plasticisers, the material offers long-lasting resistance to UV radiation, ozone and other weathering effects, while remaining extremely elastic at temperatures ranging from -45 °C to +120 °C. With an elongation of up to 600%, EPDM can be used flexibly in a wide range of waterproofing applications and withstands the expansion stresses that a flat roof is exposed to throughout its normal life cycle. EPDM's long service life (70 years according to the SKZ study) and recyclability (Cradle to Cradle Certified®) also make it a future-ready choice.

Our intelligent HERTALAN® EPDM systems make durable EPDM waterproofing for flat roofs and structures easier than ever. The factory-prefabricated HERTALAN® EASY COVER membrane system ensures quick and straightforward installation in a single operation.

Our expertise for your project

Public buildings



- Service life of EPDM of more than 70 years (SKZ-study)
- UV resistant and weather proof

Biogas plants / Fire Fighting Water Tank



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

Residential construction



- Including garages and balconies
- Ozone and UV resistant
- Cost effective and fast installation

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
- Very long service life, which can be further extended by a green roof
- Rainwater can be used safely
- No harmful root protection agents

Good reasons to choose HERTALAN®



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 hotair technology and an EW joining edge that is ready-made in the factory. An emerging welding bead indicates an ideal and permanently safe seam connection. Alternatively, seams can also be adhered together.



Future-ready

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.



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 future-ready 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.



Certification

HERTALAN® is Cradle-to-Cradle certified and therefore suitable for circular building concepts. An EPD is available.



Overview of HERTALAN® products

HERTALAN® EPDM systems provide reliable, waterproof solutions for the specific challenges of flat roof and building waterproofing, both on new builds and refurbishments.

Overview of HERTALAN® products

HERTALAN® EASYCOVER

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 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.



Application options with HERTALAN®

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

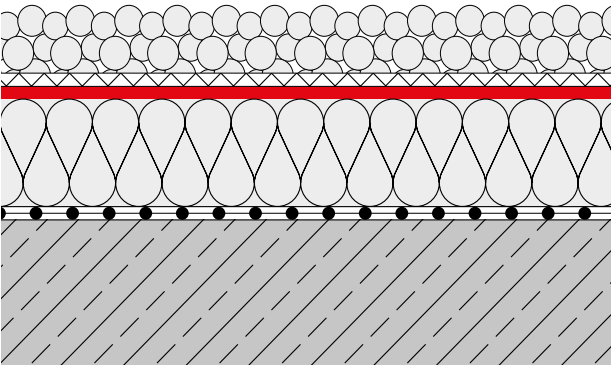
The loose-laying layers are secured in place by means of an appropriate ballasting solution, such as gravel with a grain size of 16 / 32. Ballasting for flat roofs is determined according to DIN EN 1991-1-4. The roof structure's load-bearing capacity must naturally be taken into consideration according 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

Required EPDM adhesive systems:

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

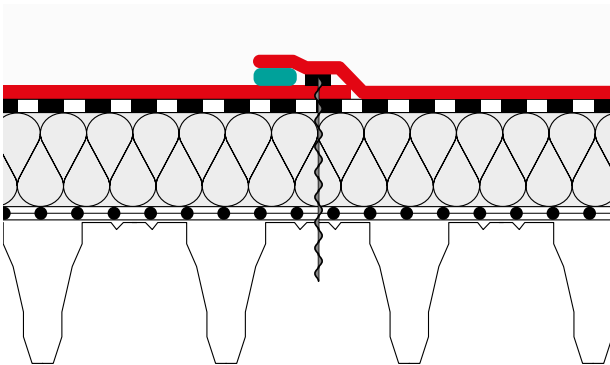
HERTALAN® EASY COVER

Required EPDM adhesive systems:

- Bonding of joints and junctions, as well as roof edge fixing with CARLISLE® KS 205 or CARLISLE® 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 CARLISLE® KS 137 contact adhesive in combination with CARLISLE® KS 96 adhesive.

HERTALAN® EASY COVER can be mechanically fixed with CARLISLE® Induction System using special plates and fixing.

More details on page 20-21



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

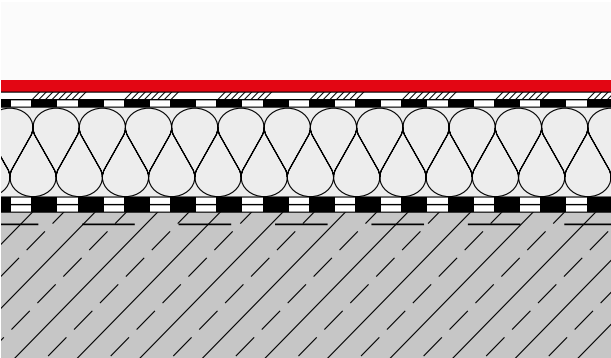
EPDM sheet or roofing membrane partially bonded to a suitable substrate.

Product selection:

HERTALAN® EASY COVER

Required EPDM adhesive systems:

- Bonding of joints and junctions, as well as roof edge fixing with CARLISLE® KS 205 or CARLISLE® KS 137 contact adhesive.
- Substrate bonding with CARLISLE® KS 143 PU adhesive
- Seam bonding with additional HERTALAN® EASY WELD cover strip, welded using hot air. Alternatively, seams can be bonded with CARLISLE® KS217 or CARLISLE® KS 137 contact adhesive in combination with CARLISLE® KS 96 adhesive.



Fully bonded roof system

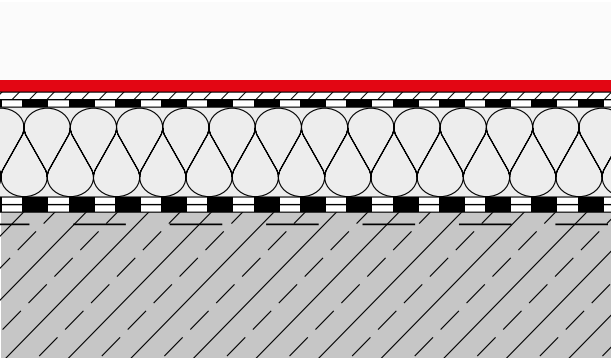
EPDM sheet or roofing membrane fully bonded to a suitable substrate.

Product selection:

HERTALAN® EASY COVER

Required EPDM adhesive systems:

- Bonding of joints and junctions, as well as roof edge fixing with CARLISLE® KS 205 or CARLISLE® KS 137 contact adhesive.
- Apply CARLISLE® 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 CARLISLE® KS217 or CARLISLE® KS 137 contact adhesive in combination with CARLISLE® KS 96 adhesive.



Custom made solutions
for flat roofs

EPDM SHEET SYSTEMS



HERTALAN® EASY COVER sheets combine the outstanding material properties of EPDM with custom-made solutions. Thanks to the seam joints prefabricated in the factory, only around 5 % of the manual connections have to be made directly on the construction site. Just like a tailor-made suit. The roof waterproofing system is delivered to the construction site as a perfect-fit solution in a single piece.

HERTALAN® EASY COVER

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 can be applied easily, efficiently and without any need for naked flames, are root-resistant according to the FLL. Furthermore EPDM has a service life of more than 70 years (SKZ study).

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

HERTALAN® EASY COVER			
Thickness	1.2 / 1.5 / 2.0 mm	Mass	1.23 kg/m²/mm
Standard sizes and ready-made dimensions upon request			

Properties	Tests		Target value	Result specified
Visible defects	EN1850-2		Passed	Satisfied
Straightness	EN1848-2	mm	≤ 30	Satisfied
Flatness	EN1848-2	mm	≤ 10	Satisfied
Tensile strength (L / Q)	EN 12311-2B	N/mm²	≥ 8.0	8.7 / 8.6
Ultimate elongation (L / Q)	EN 12311-2B	%	≥ 400	530 / 480
Tear growth resistance (L / Q)	EN 12310-2	N	≥ 25w	40 / 62
Determination of dimensional stability (L / Q)	EN 1107-2	%	max. 0.2	0.08 / 0.05
Joining seam's resistance to peeling	EN 12316-2	N/50mm	≥ 50	69 / 191*
Joining seam's shearing resistance	EN 12317-2	N/50mm	≥ 200	282 / 341*
Fire behaviour	EN 13501-1	-	Class E	Class E
Resistance to the spread of fire	EN 13501-5	-	Passed	See AbP [General Building Supervisory Authority Test Certificate]
Determination of resistance to static loading	EN 12730	kg	≥ 25	25
Resistance to static loading	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	EN 13583	hard surface	m/s	≥ 17
		Soft cladding	m/s	≥ 35
Water vapour diffusion resistance coefficient (μ value)	EN 1931		70.000	70.000
Ozone resistance	EN 1844		No cracks	Satisfied
Bitumen compatibility	EN 1548	-	Passed	Satisfied

* Values for bonded and hot bonding seams
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

CARLISLE® Induction System – Efficient, reliable and proven

INDUCTION FIXING SYSTEM

No need to worry about rain or wind! Our induction system does not penetrate the roof waterproofing, so no water can enter through the fastening points. And because the field fastening distributes wind loads evenly, there is no unwanted fluttering.

CARLISLE® Induction System

With electromagnetic induction welding technology, you are choosing a complete system that uses induction compatible plates to fix the HERTALAN® EPDM membrane and the insulation in the supporting shell without any need to penetrate the roof waterproofing solution.

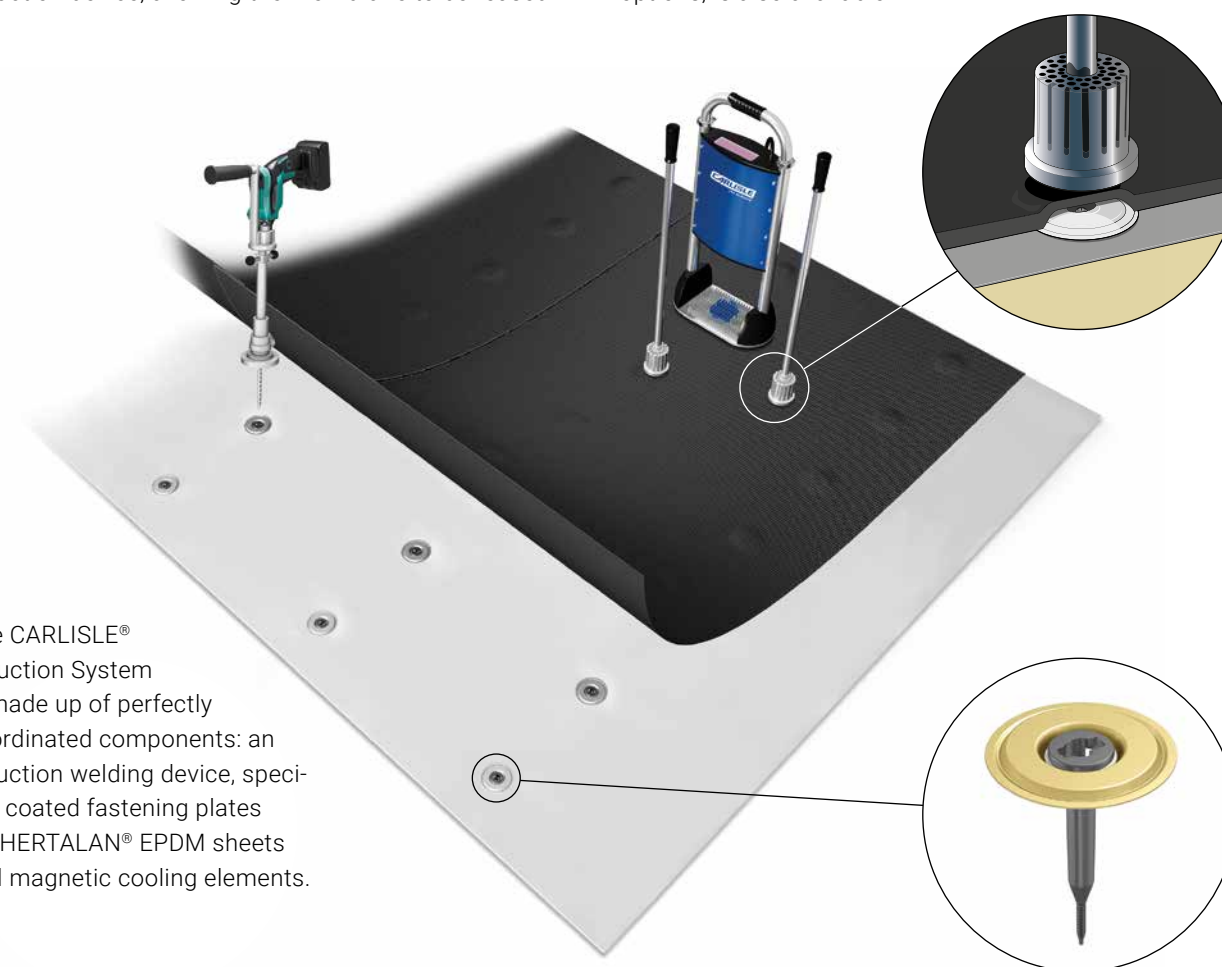
Innovative technology

With the induction system, HERTALAN® membranes can be installed quickly in a single step using electromagnetic induction welding. The induction device is activated directly above the specially coated fastening plate. The coating is heated by induction, liquefies, and bonds to the underside of the EPDM membrane – without penetrating the roof waterproofing.

Immediately after welding, a permanent connection to the HERTALAN® EPDM membranes is created as magnetic cooling rods apply consistent pressure to the fastening plates. A key advantage of the system is that the plates can be loosened again at a later stage using the induction device, allowing the membrane to be reused.

The system combines the benefits of HERTALAN® membranes with a penetration-free mechanical fastening method. It is suitable for new build projects as well as refurbishment applications, particularly for direct renovation on existing waterproofing systems such as PVC or bitumen – without dismantling or disposal, saving time and costs.

The fastening system consists of coordinated components including the induction welding device, specially coated fastening plates with step-safe plastic sleeve, protection plates and magnetic cooling rods. A wide range of screws, including stainless steel options, is also available.



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

Advantages of the CARLISLE® Induction System

✓ No penetration of the roof membrane

The induction system is a penetration-free mechanical fixing solution for HERTALAN® EPDM membranes. During installation, the step-safe plastic sleeve counteracts foot traffic loads and reduces the risk of the fastener penetrating the membrane.

✓ Even distribution of wind load

Unlike traditional seam fixing, the fastening points are distributed across the entire roof area in a grid pattern. This ensures that wind loads are absorbed more evenly, relieving both fastening plates and seams. As a result, larger membrane sheets can be used while reducing seams and overlaps.

✓ Up to 30% fewer fixing requirements

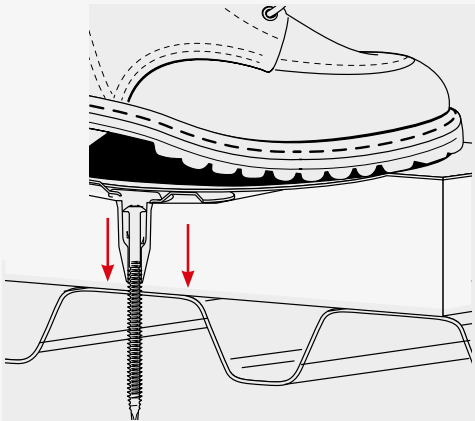
The even distribution of the wind force means that the point load per fixing requirements is less and the system can handle higher wind forces with fewer fixing requirements.

✓ Reusability

The bond between the EPDM membrane and fastening plates can be released using the induction device without damaging the membrane. It can then be reused with new plates for a new installation, for example in the case of a later roof extension.

✓ 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 a factory-fabricated EPDM system designed for efficient on-site installation. It significantly reduces the amount of seaming required on the roof, enabling a fast and reliable installation.

✓ Fast protection from moisture ingress

With HERTALAN® EASY COVER and the induction system, the roof can be quickly and easily temporarily sealed, even at the perimeters. This ensures protection against rain and weather influences even before the induction process. Welding can be carried out even at temperatures down to -10 °C.

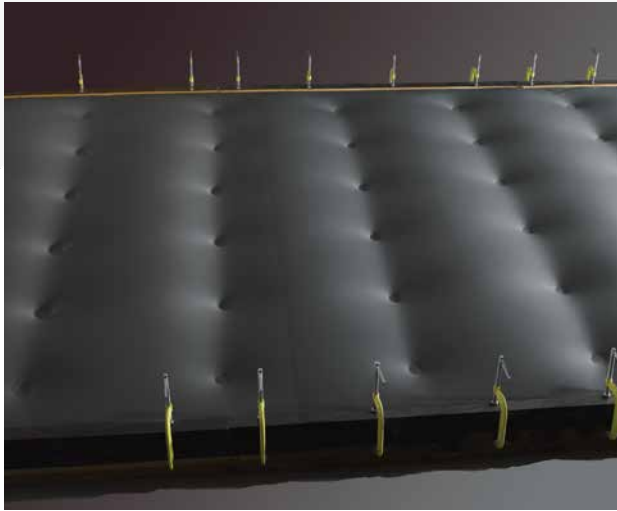
✓ Suitable for refurbishment and new build

The system is suitable for new construction projects as well as refurbishment, particularly for direct renovation on existing waterproofing systems such as PVC or bitumen – without dismantling or disposal, saving time and costs.

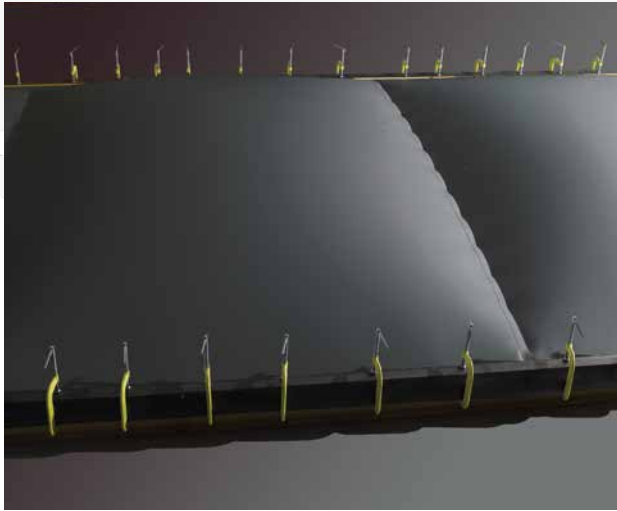
Even distribution of wind load

In contrast to traditional seam fixing, the fastening points in the induction process are distributed in a grid across the entire roof area based on wind load calculations. This ensures that wind loads are evenly distributed over the EPDM membranes and prevents uneven stress on fastening plates and seams. At the same time, the load per fixing point is reduced, allowing higher wind loads to be handled with fewer fixings.

Field fixation



Seam fixation



EPDM Strips for water-tight solutions

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 HERTALAN® specification guidelines or HERTALAN® installation instructions for detailed substrate requirements and installation instructions.

HERTALAN® EPDM Strips				
Length	20 m	Polymer	EPDM	
Width	100 - 1400 mm	Colour	Black	
Thickness	1.0 to 1.5 mm	Mass	1.23 kg/m²/mm	
Properties	Tests		Target value	Result specified
Visible defects	EN1850-2	-	Passed	Satisfied
Straightness	EN1848-2	mm	≤ 30	Satisfied
Evenness	EN1848-2	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
Alkali test	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.
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.

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.

The easy-to-use,
waterproofing solution

SELF-ADHESIVE EPDM STRIPS



HERTALAN® EASY STICK GS are self-adhesive, reinforced EPDM Strips that are particularly suitable for waterproofing façade penetrations such as windows and doors.

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.

⚠ Please refer to HERTALAN® specification guidelines or HERTALAN® installation instructions for 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

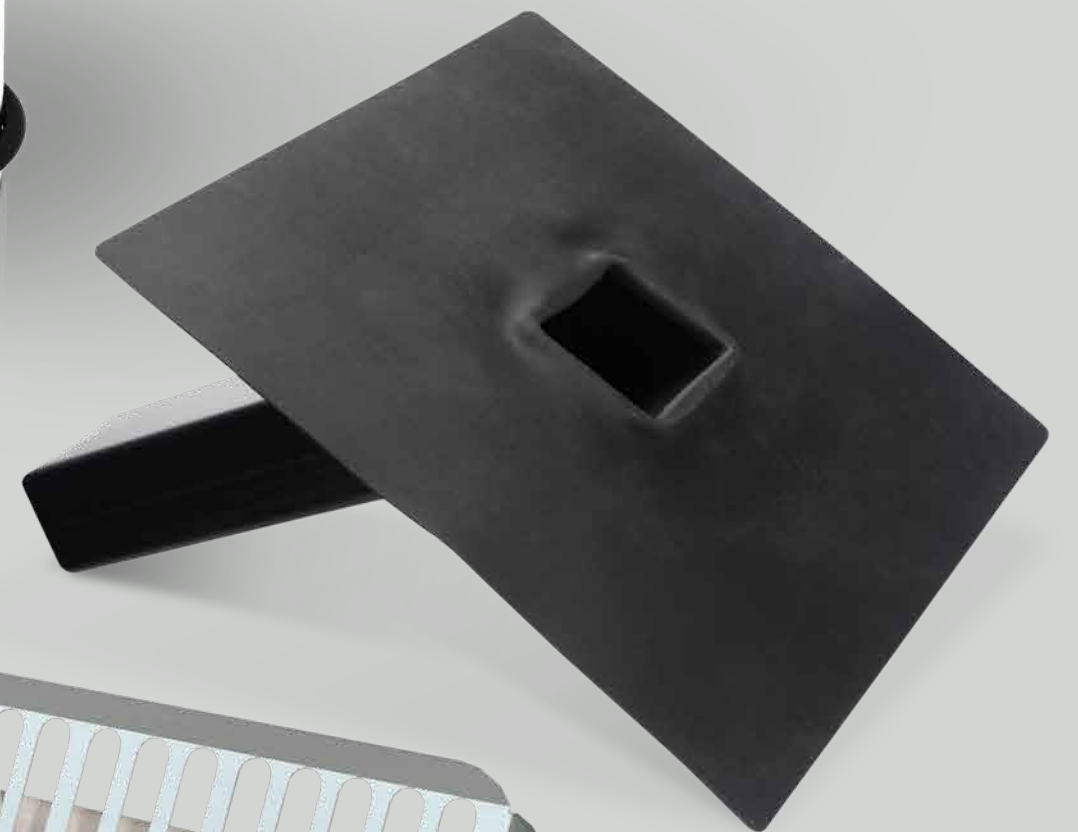
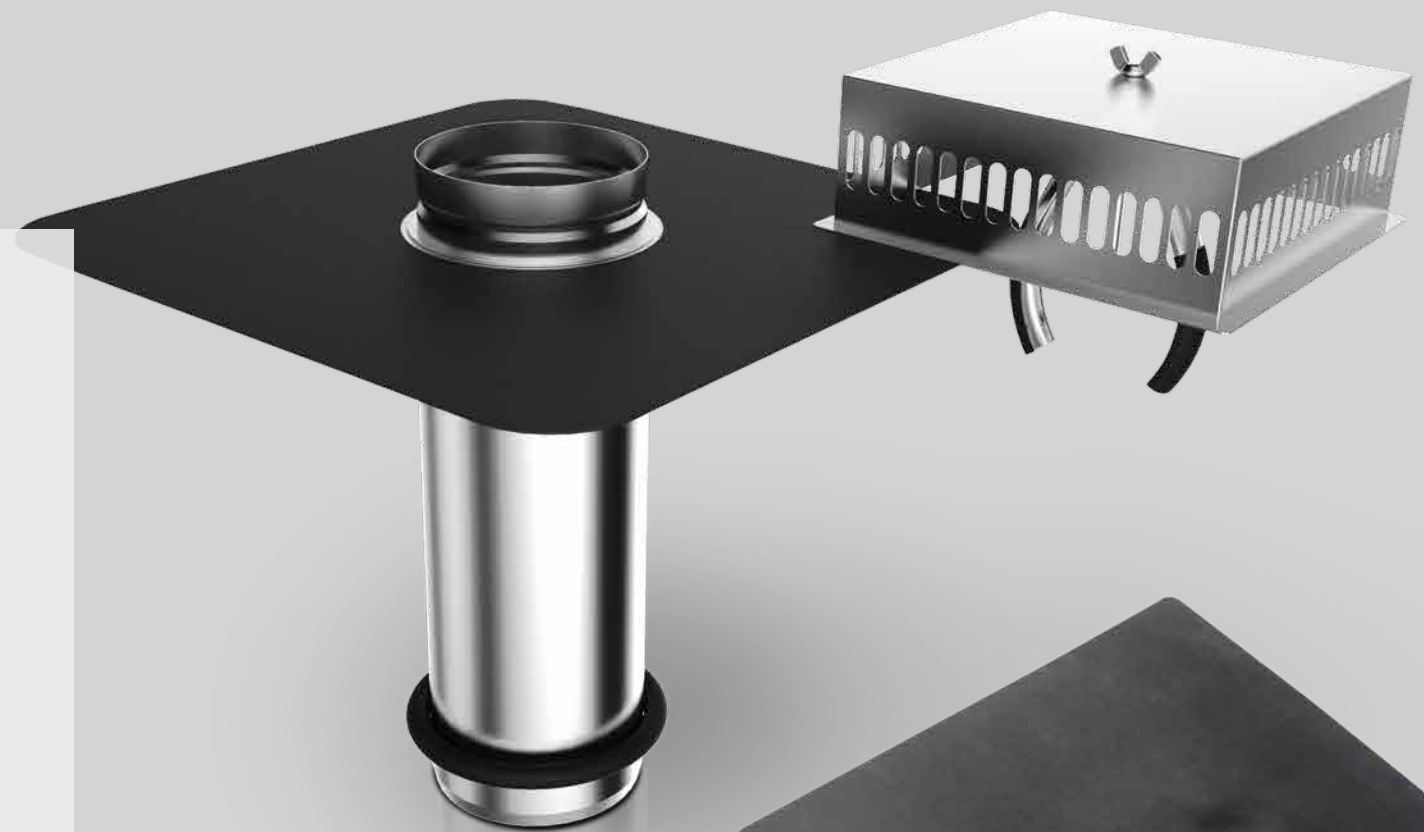
Roof gutters

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® drainage options

FOR EVERY FLAT ROOF



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 water-tight 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
1. CCM overflow drain, vertical, one piece		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
2. CCM overflow drain, angled		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 connector: 730 mm
Drainage elements				
Description		Structure	External Ø	Other parameters
3. CCM roof drain, vertical, two piece, with sleeve		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 base element: 280 mm
4. CCM renovation drain / one piece extension element		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
5. CCM roof drain, angled, with sleeve		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

Stainless steel accessories

Drainage elements				
Description		Structure	External Ø	Other parameters
6. CCM parapet drain		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	
7. CCM parapet drain, with angled base plate		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.	50, 75, 110 mm	Length of run-off connector: 400 or 600 mm
8. CCM leaf catcher			50-160 mm	
8.1 Universal				
8.2 M				
8.3 Horizontal				
Vent pipes				
Description		Structure	External Ø	Other parameters
9. CCM vent pipe		Vent pipe with level base plate and factory connection sleeve.	90, 110 mm	

Stainless steel accessories – Product codes

Item	Description	§ In mm	Length in mm		Product code (for length)	
			400	600	400 mm	600 mm
1.	Ccm overflow drain, vertical, one piece	110	400	600	65003029	65003030
Item	Description	§ In mm	Length in mm		Product code	
2.	Ccm overflow drain, angled	110	730		65003031	
Item	Description	§ In mm	Length in mm		Product code	
3.	Ccm roof drain, vertical, Two piece, with sleeve	75	280		65003016	
		110	280		65003017	
		125	280		65003018	
		160	280		65003019	
Item	Description	§ In mm	Length in mm		Product code (for length)	
4.	Ccm renovation drain/one piece Extension element, with sleeve				400 Mm	600 Mm
					65002989	65002993
					65002994	65002995
					65002996	65002997
					65002998	65002999
					65003000	65003001
					65003002	65003003
					65003004	65003005
5.	Ccm roof drain, angled, with sleeve				Product code	
					65003023	
					65003024	
					65003025	
					65003026	
6.	Ccm parapet drain				Product code	
					65003027	
					65003028	
					Product code (for length)	
					400 Mm	600 Mm
7.	Ccm parapet drain, with angled base plate	50	400	600	65003008	65003009
		75	400	600	65003010	65003011
		90	400	600	65003012	65003013
		110	400	600	65003014	65003015
Item	Description	§ In mm			Product code	
8.	8.1 Ccm leaf catcher universal	50 - 160			65003033	
	8.2 Ccm leaf catcher m	50 - 160			65003032	
	8.3 Ccm leaf catcher horizontal	50 - 160			65003034	
Item	Description	§ In mm			Product code	
9.	Ccm vent pipe	40			65003035	
		63			65003036	
		75			65003037	
		90			65003038	

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 mm			
EPDM flange, square with EW joining edge	200 x 200 mm					300 x 300 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 water-proofing solution (HERTALAN® EASY COVER / EASY WELD) is made by means of bonding with CARLISLE® 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.



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® 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® FLASHWELD

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® FLASHWELD			
Polymer	EPDM / TPE	Thickness	1,6 mm
Colour	Black / green	Width	180 mm
		Length	5 m



HERTALAN® FLASHWELD 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



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

Properties	Tests		Target value	Result specified
MiFi value of the welding layer	ISO133 2,16 kg / 190°C	dg/min		19
Tensile strength (L / Q)	EN12311-2B	N/mm²	≥ 8,0	8,7 / 8,6
Ultimate elongation (L / Q)	EN12311-2B	%	≥ 400	530 / 480
Tear growth resistance (L / Q)	EN12310-2	N	≥ 25	40 / 62
Determination of dimensional stability (L / Q)	EN1107-2	%	max. 0,2	0,08 / 0,05
Joining seam's resistance to peeling	EN12316-2	N/50 mm	≥ 80	169
Joining seam's shearing resistance	EN12317-2	N/50 mm		318
Behaviour in the event of exposure to fire from the outside	EN13501-5	-	Passed	NPD
Determination of resistance to static loading	EN12730	kg	≥ 25	25
Determination of resistance to shock loading	EN12691	mm	≥ 300	300
Resistant to root penetration (FLL)	EN13948	-	Root-resistant	Root-resistant
Bitumen compatibility	EN1548		Passed	Satisfied

HERTALAN® EASY WELD cover 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 cover strip:

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



Adhesives

HERTALAN® offers a comprehensive range of adhesives and sealants designed for the optimal application of EPDM roof systems. Developed specifically for HERTALAN® EPDM membranes, they ensure reliable performance, long-term durability and can be used on a wide variety of substrates and roof structures.



The Adhesive

1-COMPONENT ADHESIVE AND SEALANT
BASED ON MS POLYMER

CARLISLE® KS 96 securely and permanently bonds suitable CARLISLE® membranes to one another. The bond remains elastic and waterproof.



! For the handling of our products, please observe the information contained in our EC Safety Data Sheets and the safety instructions on our packaging labels. In particular, the provisions of the Hazardous Substances Regulations and the accident prevention regulations of the professional trade associations must be complied with. For correct processing of CARLISLE® KS 96, the relevant installation instructions must be observed.

Technical data	
Product type	CARLISLE® KS 96 is a high-quality, one-component sealant and bonding adhesive based on MS polymer
Colour	Black
Odour	Odourless
Shrinkage	None
Density (20 °C)	1.415 kg/m³
Curing (24 h)	2 mm
Elongation at break	300 % (DIN 53504)
Shelf life	18 months when stored in a cool and dry place between +5 °C and +25 °C in unopened original packaging

Packaging and Coverage		
Packaging type	Possible seam length Width 20 mm	Packaging unit
Foil sausage 600 ml	Up to 15 m	12 pcs.
Cartridge 290 ml	Up to 7 m	12 pcs.

Perfect for seam joints

THE BRUSH-ON CONTACT ADHESIVE

CARLISLE® KS 137 contact adhesive is applied to both sides to create seam joints between compatible CARLISLE® waterproofing membranes and sheets (in combination with KS 96 adhesive). Additionally, it is intended for the surface bonding of joints and junctions on dry, smooth, clean and oil and grease-free substrates, such as suitable insulating materials, wood, concrete and metal (aluminium, galvanised steel, zinc plate, etc.).

! Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products. Particular attention must be given to the provisions of the Hazardous Substances Ordinance and the accident prevention regulations of the employers' liability insurance associations. Please observe the respective laying instructions for correct application of CARLISLE® KS 137.



Technical data	
Product type	Solvent-based contact adhesive with a synthetic rubber and resin base
Colour	Blue
Smell	Of organic solvents
Viscosity (20°C)	1,200 mPas
Density (20°C)	~ 830 kg/m³
Solid content	41.9%
Dry film	Not waterproof
Shelf life	18 months, when stored in its original unopened packaging in a cool and dry (+5 to +25 °C) and well ventilated place

Delivery unit		
Container	Consumption per m²	Packaging unit
Can 0.9 kg	min. 500 g	6 pc.
Bucket 5.3 kg	min. 500 g	1 pc.

Ready to use
for large surfaces

The water-based
bonding adhesive

ONE-COMPONENT PU ADHESIVE
WITH ORGANIC SOLVENT

READY-TO-USE, SOLVENT-FREE ADHESIVE FOR
BONDING TO WOOD, WOOD-BASED SUBSTRATES
(EXCEPT TREATED PLYWOOD) AND CONCRETE

CARLISLE® KS 143 is a ready-to-use 1-component PU adhesive with organic solvent which has been specially developed for the bonding of suitable CARLISLE® roof systems on flat horizontal surfaces. Suitable substrates are heavy-/lightweight concrete, non-gravel bituminous membranes, bituminous-laminated insulation boards, wood, etc. The substrates must be flat, clean, dry and free of oil/grease.



Technical data	
Product type	Moisture-reactive adhesive based on polyurethane
Colour	Amber
Viscosity	5,000 ± 1,500 mPas
Flash point	< 0°C (closed cup)
Density (20°C)	1,003 ± 10 kg/m³
Solid content	82 ± 2%
Shelf life	9 months, when stored unopened in the original packaging in a dry, cool (between +5 and +25 °C) and ventilated place

Delivery unit		
Container	Consumption per m²	Packaging unit
Canister 2 kg	min. 250 g	6 pcs.
Canister 6 kg	min. 250 g	1 pc.



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products. Particular attention must be given to the provisions of the Hazardous Substances Ordinance and the accident prevention regulations of the employers' liability insurance associations. This product contains diisocyanates. For commercial users only. As of 24 August 2023, appropriate training is required prior to any industrial or commercial use. For correct processing of KS 143, the relevant installation instructions must be observed.

KS 217 is a ready-to-use, water-based adhesive specially developed for bonding suitable CARLISLE® roofing systems to wood, wood-based substrates (except wood fibre insulation boards and treated plywood) and concrete. It is applied to one side only.



Technical data	
Product type	Water-based polymer dispersion
Colour	White
Viscosity (20 °C)	~12,000 mPas
Density (20 °C)	~1.1 g/cm³
Solids content	~65.0 %
Shelf life	12 months when stored in a cool, dry place between +5 and +25 °C in unopened original packaging.

Supply Form		
Container	Coverage per m²	Packaging unit
Bucket 5 l / 5.1 kg	min. 250 g/m²	1 pc.
Bucket 18 l / 18.4 kg	min. 250 g/m²	1 pc.



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products. Particular attention must be given to the provisions of the Hazardous Substances Ordinance and the accident prevention regulations of the employers' liability insurance associations. For correct processing of KS 217, the relevant installation instructions must be observed.

Fast application on small and large surfaces

PRESSURISED AND SPRAYABLE CONTACT ADHESIVE

CARLISLE® 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 with HERTALAN®, ECOLAN® and SURE-WELD®.

Not suitable for use on cold-bonded seams!



CARLISLE® KS 205 – SPRAY CAN
Spray can for use on small and hard-to-reach surfaces.



Please observe the instructions on our EC safety data sheets and the safety instructions on our container labels for handling our products. Particular attention must be given to the provisions of the Hazardous Substances Ordinance and the accident prevention regulations of the employers' liability insurance associations.

For correct processing of CARLISLE® KS 205, the relevant installation instructions must be observed.

Technical data	
Product type	Solvent-based, sprayable contact adhesive
Consistency	Liquid
Colour	Yellowish
Flash point	< 0 °C
Mixable with water	No
Shelf life	18 months, when stored unopened in its original packaging in a cool and dry place at between +5 and +25 °C

Delivery unit	
Spray can	
Application	Spray
Consumption	At least 250 g/m²
ml/container	750 (550 gram)
Packaging unit (qty./box)	12

A well-designed system with perfectly matched components



CARLISLE® KS 205 – Disposable pressurised canister

The disposable pressurised canister for fast and efficient bonding.

- Reusable and to be ordered separately:
- Hose 5.5 m
 - Spray gun, alternatively also with extension

Delivery unit	
Pressurised canister (disposable)	
Application	Spray
Consumption	At least 250 g/m²
l/container	18 (approx. 14.2 kg)
Hose	
1.5 m (suitable for backpack) or 5.5 m	
Spray gun, including extension	
61 cm	



CARLISLE® backpack

The perfect carrying solution for convenient and fast application of the contact adhesive.

Product properties:

- Reinforced and padded back
- Top carrying strap
- Padded shoulder straps on back and padded waist strap, each with a plastic fastening buckle
- Additional strap with buckle for securing the pressurised canister

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 | Weesp | The Netherlands**
(Production)
- 4 | Kampen | The Netherlands**
(Production and Administration)
- 5 | Kirkby-in-Ashfield | Great Britain**
(Production and Administration)
- 6 | Baia Mare | Romania**
(Production)

America

- 7 | Scottsdale | USA**
(Headquarters of CARLISLE® Companies Inc.)
- 8 | Carlisle | USA**
(Division of CARLISLE® Construction Materials)

www.ccm-europe.com

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 Belper, 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



Do you want to deepen your knowledge of EPDM and its possible uses? In our Advanced Course, 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.

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.

More information about our training sessions can be found at www.ccm-europe.com

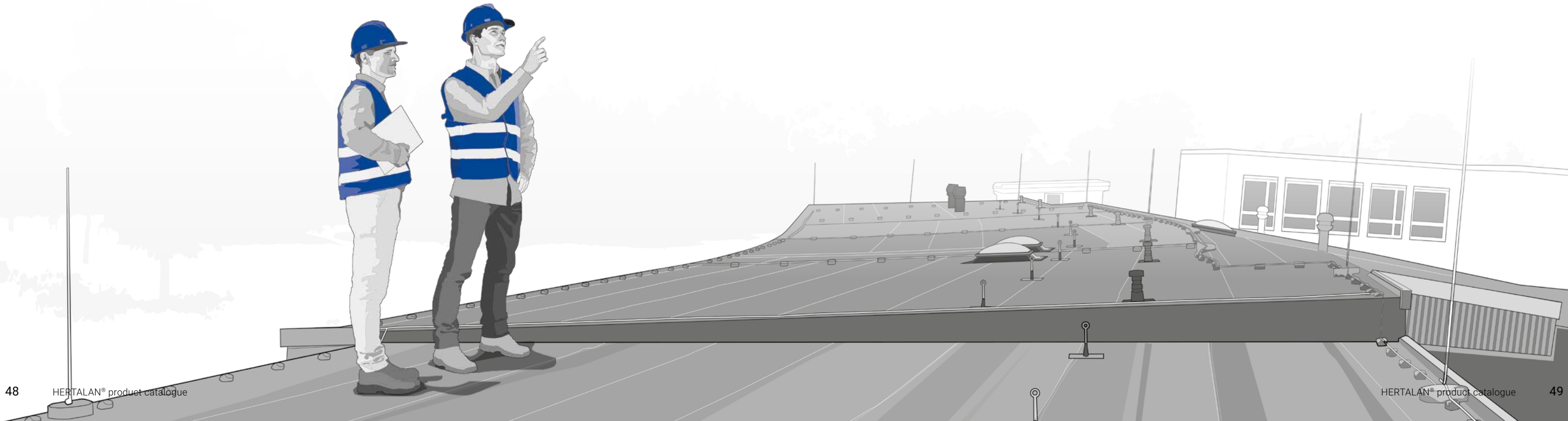
An overview of our services

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.

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 waterproofing of buildings. We are even there for you after the completion of your project.

Our team of qualified and experienced employees consists of specialist advisers, application engineers, civil engineers and architects. In this way, we can always provide tailor-made services to our customers, whether they are installers, planners, architects or specialist trading partners.

Advice and planning	Calculations	On-site service	Delivery	Safety	Training
• 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 • Drafting of specifications • CAD drawings for individual connecting areas or roof superstructures	• Wind load calculations • Drainage calculations • Cost estimates	• 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 to the location of your choice, even direct to the construction site • 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	• Production certified acc. to DIN EN ISO 9001 and DIN EN ISO 14001 • Environmental product declaration (EPD) • Comprehensive certification and test records • Extended tests carried out in our in-house test laboratories	CARLISLE® ACADEMY for • Roofers • Architects • Contractors • Distributors



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