

Systems and Components for Roof Landscapes Product List 2018



Life on Roofs

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Please note that this English Version of the Product List is for your information only, but is composed of

- 1. "German" Engineering
- 2. German Trademarks and Patents
- and therefore must be adapted to the needs of each market.







Slip Sheet and Separation Membrane

Separation and slip sheets, as loosely laid tarps or sheets, protect the waterproofing from tensile and shear forces. In the case of chemically incompatible materials (e.g. single soft PVC sheets on bitumen), a neutral separation layer has to be installed. Only permeable membranes (e.g. TGV 21), and not vapour barriers, should be used over an XPS insulation in inverted roof constructions, in order to avoid condensation within the insulation.

Slip Sheet TGF 20



Chemically neutral high-pressure-polyethylene sheet for application as separation and slip sheet on green roofs, for walkways and driveways; compatible with bitumen and polystyrene; resistant to most chemicals; UV-stabilized; smooth surface; vapour barrier ($S_d \ge 100 \text{ m}$); colour: black; thickness: ca. 0.20 mm; weight: ca. 190 g/m².

	Item No.	Dimensions	Unit	Pallet
TGF 20	1020	ca. 8.00 m × 25.00 m	200 m² roll	6600 m ²
	1022	ca. 3.00 m × 33.50 m	100.5 m² roll	2211 m ²

Separation Membrane TGV 21 (Diffusion Membrane)



Air and vapour permeable membrane; water-repellent; thermally bound; made of 100 % polypropylene; can be used as a separation layer and as protection against small particle infiltration, e.g. on inverted green roofs, as metal protection against harmful effects of adjoining materials, etc. Chemically and biologically neutral; compatible with bitumen and polystyrene; resistant to acids and alkalis; permeable to vapour ($S_d < 0.01$ m); colour: black; thickness: ca. 0.55 mm; weight: ca. 80 g/m².

	Item No.	Dimensions	Unit	Pallet
TGV 21	2180	ca. 1.60 m × 250.00 m	400 m² roll	3600 m ²
	2185	ca. 1.60 m × 50.00 m	80 m² roll	1600 m ²

Root Barrier

Root barriers, as loosely laid tarps or welded sheets, protect the waterproofing from root penetration. This protection is mainly necessary for bituminous waterproofings. The hot-air-weldable Root Barrier WSB 100-PO is used on complicated roof areas with many upstands, penetrations, etc. and on intensive green roofs. Large-size tarps of Root Barrier WSF 40 made of special polyethylene, laid with 1.5 m overlap, are suitable for simple extensive green roof areas. In general the material compatibility of the root barrier and the water-proofing has to be taken into account. ZinCo Root Barriers WSF 40 and WSB 100-PO are compatible with bitumen.

Root Barrier WSF 40



High-pressure polyethylene sheet, solid and with high tensile strength, for application as loosely laid root barrier mainly on extensive green roofs and in planters. Root proof; compatible with bitumen and polystyrene; free of plasticizer; resistant to humic acids and oil; UV-stabilized; Water vapour permeability of air layer thickness according to German Standard DIN 52615: $S_d \ge 200 \text{ m}$; colour: black; thickness: ca. 0.34 mm; weight: ca. 320 g/m².

	Item No.	Dimensions	Unit	Pallet
WSF 40	1040	ca. 8.00 m × 25.00 m	200 m² roll	4600 m ²
	1041	ca. 6.25 m × 20.00 m	125 m² roll	2500 m ²
	1043	ca. 2.00 m × 50.00 m	100 m² roll	2600 m ²
	1044	ca. 3.00 m × 33.50 m	100,5 m² roll	2211 m ²
	41040	ca. 6.25 m × 3.20 m	20 m ²	600 m ²

Root Barrier WSB 100-PO





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Root Barrier made of flexible polyolefin (FPO); compatible with bitumen, polyester scrim reinforced; flexible at low temperatures; hot-air-weldable; tested for root and rhizome resistance in accordance with FLL testing procedures; UV-stabilized for storage purposes, however not UV resistant in the long term; light grey colour; tensile strength > 8 N/mm²; elongation at rupture > 20 %; thickness: ca. 1.10 mm; weight: ca. 1.13 kg/m²; weight per roll ca. 84 kg.

	Item No.	Dimensions	Unit	Pallet
WSB 100-PO	1084	ca. 2.44 m× 30.50 m	74.40 m² roll	1116 m ²

Root Barriers / Accessories

Prefabricated Corner and Unsupported Flashing



Clamping Profile AP 40



Dam-up Element PE



Foil-Welding-Set



Adhesive System-Tape 40



Prefabricated corner made of FPO, used for Root Barrier WSB 100-PO; compatible with bitumen. Combined inner/outer corner.

	Item No.	Dimensions	Unit
Combined External (EC) and	1192		Piece
Internal (IC) Corner			
Unsupported Flashing	1195	ca. 0.60 m × 15.00 m	Roll
		weight: ca. 9 kg	

Clamping profile, e.g. for fixation of root barriers, or pond liners to concrete kerbs or planters, made of aluminium; pre-drilled holes, spacing between the holes ca. 200 mm. Profile height: ca. 40 mm.

	Item No.	Length	Unit
AP 40	7620	ca. 3.00 m	Bundle of 10 pieces

A Dam-up Element on a 0° flat roof provides long term irrigation, and is recommended mainly for intensive green roofs. It has a flange made of polyethylene to be welded into waterproofing membranes or root barriers made of FPO (e.g. root barrier WSB 100-PO); with detachable copper extension piece; includes sealing ring; extension piece for water dam-up level of ca. 40 mm. Extension pieces for other water levels are available upon request. Diameter of opening: ca. 90 mm; weight ca. 0.5 kg.

	Item No.	Unit
Dam-up Element PE	4142	Piece

Complete accessory set for hot air welding of root barrier, waterproofing or pond sheets and for joint welding of PVC-sheets. Delivered in a solid aluminium case. Contains: hot-air-fan with two jets, brush bottle for solution welding compound, spray bottle for liquid foil, pressing roll, gloves, protection glasses, mouth mask, compound action tin snips, blade knife, scissors, screwdriver, ruler, funnel, operating instructions.

	Item No.	Unit
Foil-Welding-Set	9520	Aluminium Case

Special double sided self-adhesive tape to bond foil and sheet to bituminous surfaces, flashings, or concrete. To be used as an installation aid only, joints are not root resistant.

	Item No.	Width	Unit	Pack
Adhesive System Tape 40	9500	ca. 40 mm	40 m rolls	120 m

Protection Mats

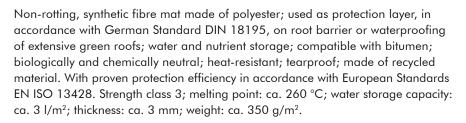
Protection Mats protect root barriers or root-resistant waterproofing from mechanical damages (necessary according to German Standard DIN 18195 T5, e.g. for single layer waterproofing). The mats also function as water and nutrient reservoirs and reduce subsonic noise. Protection Mats TSM 32 and SSM 45 are mainly used for extensive green roofs. On intensive green roofs and under hard surfaces, the solid Protection Mat ISM 50 and the thicker Protection Mat BSM 64 are recommended. In general, protection mats have to be installed with an overlap of at least 100 mm. The installation of a double layer increases the protection and water storage capacity.

Protection Mat TSM 32



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Protection Mat Stripes SM-R



	Item No.	Dimensions	Unit	Pallet
TSM 32	2032	ca. 2.00 m × 50.00 m	100 m² roll	
	42035	ca. 2.00 m × 10.00 m	20 m² roll	600 m ²



Protection mat stripes made of polyester fibres, to be used at roof upstands and in connecting areas. Ideal in combination with Fixodrain® XD 20. The rear side is sprayed with pressure-sensitive adhesive to ease the assembly process; compatible with bitumen, biologically and chemically neutral; thickness: ca. 3 mm; weight: ca. 320 g/m².

	Item No.	Dimensions	Unit
SM-R	2035	ca. 0.50 m × 25.00 m	12.5 m² roll

Protection Mat SSM 45



High quality synthetic fibre mat made of polyester/polypropylene mixture, used as protection layer, in accordance with German Standard DIN 18195, on root barrier (part of the ZinCo root barrier system "E") or waterproofing of extensive green roofs; water and nutrient storage; compatible with bitumen; biologically and chemically neutral; non-rotting; tearproof; made of recycled material. With proven protection efficiency in accordance with European Standards EN ISO 13428. CBR-Test according to European Standard EN ISO 12236: penetration resistance > 2000 N (strength class 3); strip tension test according to European Standard EN ISO 10319: tensile strength lengthwise > 5.5 kN/m; extension lengthwise > 75 %; water storage capacity: ca. 5 l/m²; thickness: ca. 5 mm; weight: ca. 470 g/m².

 Item No.
 Dimensions
 Unit

 SSM 45
 2045
 ca. 2.00 m × 50.00 m
 100 m² roll

Protection Mats

Protection Mat BSM 64



Protection Mat WSM 150

Non-rotting, synthetic fibre mat made of polyester/polypropylene mixture, with stabilising carrier sheet inlay; used as protection layer on root barrier or waterproofing; extremely high water storage capacity; compatible with bitumen; biologically and chemically neutral; tearproof; made of recycled material. With proven protection efficiency in accordance with European Standards EN ISO 13428. Strength class 4; water storage capacity ca. 7 l/m²; thickness ca. 7 mm; weight ca. 650 g/m².

	Item No.	Dimensions	Unit
BSM 64	2064	ca. 2.00 m×25.00 m	50 m² roll



Protection Mat ISM 50



Elastosave ES 30



Non-rotting, thermally reinforced needle fleece mat made of mixed fibres; used as water storage mat on green roofs, especially on pitched roofs; extremely high water storage capacity; compatible with bitumen; biologically and chemically neutral; tearproof; made of recycled fibres; water storage capacity ca. 12 l/m², thickness ca. 17 mm; weight ca. 1500 g/m².

	Item No.	Dimensions	Unit
WSM 150	2015	ca. 1.00 m × 15.00 m	15 m² roll

Non-rotting, synthetic mat made of polyester/polypropylene mixture with high mechanical durability; with bottom sided fiber bonding using acrylic dispersions and therefore easy to be glued; water and nutrient storage; used for intensive green roofs (part of the ZinCo Root Barrier System "I") and under walkways and driveways; compatible with bitumen; biologically neutral; spade-resistant; made of recycled material; reduces subsonic noise (VM: +25 dB, with gravel and concrete pavers).

CBR-Test in accordance with European Standard EN ISO 12236: penetration resistance (average) > 3500 N (strength class 5); water storage capacity ca. 4 l/m²; thickness ca. 6 mm; weight ca. 850 g/m².

	Item No.	Dimensions	Unit
ISM 50	2050	ca. 2.00 m×25.00 m	50 m² roll

High quality, extra slim protection mat made of recycled rubber, for full-surface installation onto roof waterproofing. The tensile strength of ca. 0.8 N/mm² is twice that of common chip rubber mats, and the elongation at rupture of 125 % is three times greater.

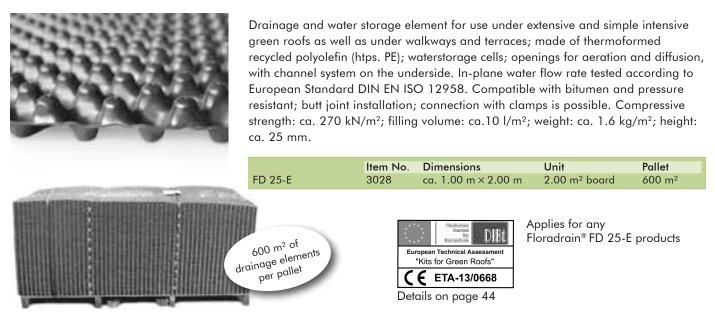
On bitumen layers the surface has to be swept clean. The ES 30 has to be installed with an overlap of 50 mm. In the case of synthetic roof waterproofing, it should be checked for rubber compatibility (generally this means the presence of bitumen-compatible tracks). If incompatible, an additional separation layer (ZinCo TGF 20) is required.

Thickness ca. 3 mm; weight ca. 3 kg/m²; temperature resistant from −30 °C to +80 °C.

	Item No.	Dimensions	Unit	Pallet
Elastosave ES 30	2094	ca. 1.50 m×8.00 m	12 m² roll	288 m ²

The Floradrain® System has been developed especially for landscaped flat roofs. The molded elements of thermoformed recycled polyolefin can store rainwater in water storage cells on the upper side and drain off excess water below. The necessary aeration of the root space is ensured. Floradrain® FD 25-E is particularly suitable for extensive green roofs with a slope while Floradrain® FD 40-E is also suitable for intensive green roofs and for terraces. With Floradrain® FD 60 neo, green roofs with a water dam-up can be created on 0°-roofs. Floradrain® in rolls is ideal for use on barrel roofs. Stabilodrain® SD 30 elements have been developed with a high load-bearing capacity (e.g. for use on parking lots, driveways).

Floradrain® FD 25-E



Floradrain® FD 25-R



Floradrain[®] FD 25-R on rolls, e.g. for landscaping barrel roofs. Floradrain[®] FD 25-R can be applied continuously and therefore can bear the tensile forces. Standard length: 15 m; material: recycled polyolefin (htps. PE).

	Item No.	Dimensions	Unit
FD 25-R (Roll)	3023	ca. 1.00 m × 15.00 m	15 m² roll

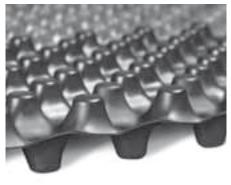
Floradrain[®] FD 25-RV is available with a filter sheet attached to the upper side, for efficient green roof installation. The filter sheet overlaps by ca. 100 mm along one side. Please note the greater transport volume of the rolls compared with the boards. Material: recycled polyolefin (htps. PE).

	Item No.	Dimensions	Unit
FD 25-RV	3022	ca. 1.00 m×15.00 m	15 m² roll
(Roll & Filter Sheet)			



FD 40-E

Floradrain® FD 40-E



Drainage and water storage element made of thermoformed material: recycled polyolefin (htps. PE), with water storage cells, openings for aeration and diffusion; with channel system on the underside. In-plane water flow rate tested according to European Standard DIN EN ISO 12958. Compatible with bitumen and pressure resistant; butt joint installation; connection with clamps is possible. Floradrain[®] FD 40-E is used under extensive and simple intensive green roofs as well as under walkways and terraces, even without a slope. Compressive strength: ca. 135 kN/m²; filling volume: ca. 17 l/m²; weight: ca. 1,9 kg/m²; height: ca. 40 mm.

ca. 1.00 m x 2.00 m

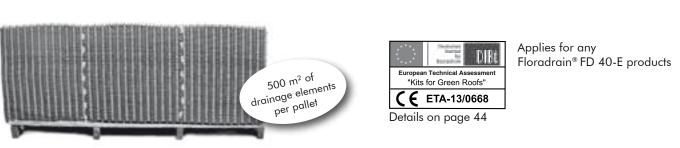
Unit

2.00 m² board

Pallet

500 m²

Dimensions



Item No.

3041

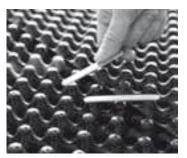
Floradrain[®] FD 40-RV

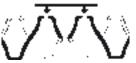


Floradrain[®] FD 40-RV is available with a filter sheet attached to the upper side, for efficient green roof installation. The filter sheet overlaps by ca. 100 mm along one side. Please note the greater transport volume of the rolls compared with the boards. Material: recycled polyolefin (htps. PE).

	Item No.	Dimensions	Unit
FD 40-RV			
(Roll & Filter Sheet)	3042	ca. 0.94 m×10.70 m	10 m² roll

Connectors for FD 25-E and FD 40-E





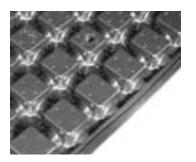
For a safe and stable connection of Floradrain[®] sheets; to be pressed into the diffusion openings, made of yellow plastic. Recommended quantity: ca. 2 connectors/m².

	Item No.	Unit
Connector for FD 25-E and FD 40-E	9620	Bag of 100 pieces

Floradrain® FD 60 neo



Floradrain® FD 60 natureline



Drainage and water storage element made of thermoformed recycled polyolefin (mainly PE). Developed on the basis of the proven Floradrain® FD 60; usable on both sides. Due the particularly large water storage cells FD 60 neo is especially suitable for use with intensive green roofs without water dam-up and under walkways and terraces. It can also serve as a permanent formwork to be filled with concrete as a base for other roof elements as e.g. driveways or foundations for furniture. Interlocking studs allow for a continuous and safe installation. Very stable and pressure resistant; water storage capacity: approx. 16 I/m² without infill, filling volume: ca. 27 I/m²; height ca. 60 mm; weight: ca. 2.2 kg/m².

	Item No.	Dimensions	Unit	Pallet
Floradrain® FD 60 neo	3062	ca. 2.30 m × 1.03 m	2.30 m ² board	450 m ²
		(net 2.25 m $ imes$ 1.00 m)		



Drainage and water storage element made of renewable raw materials to at least 95 %, height ca. 60 mm, with water storage cells and openings for ventilation and evaporation as well as multidirectional drainage channel system on the underside, in-plane water flow capacity tested according to EN ISO 12958, delivery and installation according to manufacturer's instructions.

	Item No.	Dimensions	Unit	Pallet
FD 60 natureline	306090	ca. 1.00 m×2.00 m	board 2,00 m ²	200 m ²

Stabilodrain[®] SD 30



Drainage and water storage element made of thermoformed polystyrene, used for driveways and parking lots; can be installed on inverted roofs. In-plane water flow rate tested according to European Standard DIN EN ISO 12958. Extremely solid; maximum load bearing capacity (without infilling) ca. 500 kN/m²; installation with overlapping, therefore ca. 3 % surplus required; weight: ca. 3 kg/m²; height: ca. 32 mm. Specially shaped lateral studs allow for interlocking connection of the boards.

	Item No.	Dimensions	Unit	Pallet
SD 30	3330	ca. 0.94 m×2.00 m	1.88 m² board	282 m ²

Floraset[®] Elements contain water storage cells, openings for aeration and diffusion as well as a drainage channel system on the underside. They are especially suited for large green roof areas without slope. In particular Floraset[®] FS 75 is also used for the System Build-up "Pitched Green Roof" with slopes up to 25°; in this case Floraset[®] FS 75 Elements are installed with the studs facing upwards. Floraset[®] Elements are made of expanded polystyrene (EPS) and are free of CFC.

Floraset[®] FS 50



Drainage board for extensive green roofs on flat roofs with and without slope; made of expanded polystyrene (EPS); free of CFC; with water storage cells, openings for aeration and diffusion as well as a continuous channel system on the underside. In-plane water flow rate tested according to European Standard DIN EN ISO 12958. Density: ca. 20 kg/m³; weight: ca. 0.6 kg/m²; height: ca. 50 mm.

	Item No.	Dimensions	Unit	Pallet
FS 50	3052	ca. 1.00 m × 1.00 m	1.00 m² board	64 m²

Floraset[®] FS 75



Drainage board usable on both sides, for extensive and simple intensive green roofs on flat and pitched roofs (slopes up to 25°, if studs face upwards); made of expanded polystyrene (EPS); free of CFCs; with water storage cells, openings for aeration and diffusion as well as a continuous channel system on the underside; in-plane water flow rate tested according to European Standard DIN EN ISO 12958. Density: ca. 23 kg/m³; weight: ca. 1.0 kg/m²; height: ca. 75 mm.

	Item No.	Dimensions	Unit	Pallet
FS 75	3076	ca. 1.00 m × 1.00 m	1.00 m² board	40 m ²

Filter Sheet Pin



Made of polyethylene; for punctual fixing of filter sheets on all drainage elements made of polystyrene hard foam (Floraset®). Ca. 1 Filter Sheet Pin/m² required. Head diameter: ca. 30 mm; pin diameter: ca. 8 mm; length of pin: ca. 34 mm.

	Item No.	Unit
Filter Sheet Pin	9621	Bag of 100 pieces

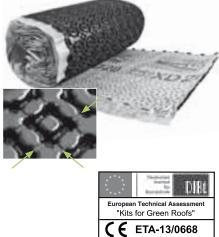
Building Protection and Drainage Elements

Thanks to the attached rubber protection mat Protectodrain[®] combines the functions of a proven protection of the waterproofing and a stable drainage element. It allows for a quick drainage of excess water and prevents the vegetation from water logging. Even though consisting of 2 parts Protectodrain[®] can easily be disassembled into its components for a sorted disposal and material recycling.

Elastodrain[®] is made of solid rubber and can be driven over by wheel loaders. It is mainly applied on used roofs of underground car parks serving as a protection and drainage layer, both under vegetated areas and walkways or driveways. Elastodrain[®] strips or cuttings are used under terrace slabs or as a protective strip for edge areas of vegetated green roofs.

The Fixodrain® XD 20 drainage sheet is mainly used for landscaping large industrial roofs. The thin DBV 10 studded sheet is mainly used as a drainage and protective layer, e.g. under terraces.

Fixodrain® XD 20

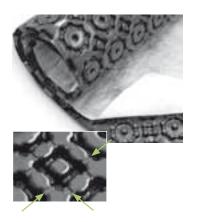


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Quick-to-lay protection, drainage and water storage element made of thermoformed recycled polyolefin with attached filter sheet, to be used under extensive green roofs; with interlocking studs for connection on its long side. Also suitable for inverted roofs due to the diffusion openings and underlying connected channels. In-plane water flow rate tested according to European Standard DIN EN ISO 12958. Colour: dark grey/white; height: ca. 20 mm; weight: ca. 1.0 kg/m²; max. load bearing capacity: ca. 50 kN/m²; water storage capacity: ca. 3 l/m².

	Item No.	Dimensions	Unit	Pallet
XD 20	3021	ca. 1.00 m × 20.00 m	20 m² roll	120 m ²

Fixodrive® FX 50

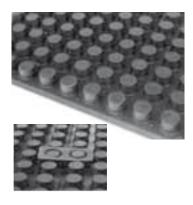


Driveable and quickly installed protection and drainage mat made of thermoformed recycled polyolefin with attached filter sheet of strength class 3 to be used under intensive green roofs as well as driveways and walkways. With interlocking studs for connection on its long sides and diffusion holes. Also suitable for inverted roofs due to the diffusion openings and underlying connected channels. Colour: grey/white; height: ca. 20 mm, in plane-water flow capacity tested according to European Standard EN ISO 12958, max. compressive strength up to 500 kN/m²; weight: ca. 1.8 kg/m², weight per roll: ca. 23 kg.

	Item No.	Dimensions	Unit	Pallet
FX 50	3150	ca. 1.00 m × 15.00 m	15 m² roll	90 m ²

Building Protection and Drainage Elements

Elastodrain® EL 202



Protectodrain® PD 250

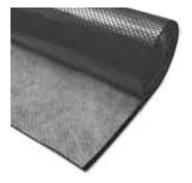
Especially developed for driveways and other build-ups with high load; extremely heavy duty drainage and building protection boards made of fully vulcanized rubber; with rebated edge. Elastodrain[®] EL 202 is particularly suitable for use under driveways, fire brigade access etc. It is spade resistant; reduces subsonic noise; non-rotting; compatible with bitumen; load bearing capacity at a compression of 10%: ca. 400 kN/m²; shore strength 75 Shore A; static bedding module ca. 285 MN/m³; weight ca. 19 kg/m²; total height ca. 19 mm; stud height ca. 12 mm; number of studs ca. 1200/m². The boards can be interconnected with special EL 202-Connectors. We recommend two connectors per running meter.

	Item No.	Dimensions	Unit	Pallet
EL 202	3220	ca. 1.00 m×1.00 m	1.00 m² board	50 m ²
EL 202-Connector	3221		Bag of 100 pieces	
2-holes				

Stable and heavy duty drainage board made of thermoformed hard plastic (ABS) with attached rubber protection mat on the underside and all-round overlap. One-sided stud structure. Easy to transport due to light weight. Can be used as a protective layer in accordance with German Standard DIN 18 195, providing a drainage function at the same time, e.g. under landscaped underground garage roofs, terraces, etc.. In-plane water flow rate tested according to European Standard DIN EN ISO 12958. Trafficable, spade resistant, reduces subsonic noise, non-rotting, compatible with bitumen. Weight: ca. 5 kg/m²; load bearing capacity: 460 kN/m²; total height: ca. 25 mm; stud height: 20 mm; number of studs: > 600/m². The boards can be interconnected with special PD 250-Connectors which can be clipped onto the specially shaped edge studs of the adjacent elements. We recommend one connector per running meter.

	ltem No.	Dimensions	Unit	Pallet
PD 250	3250	ca. 1.00 m×2.00 m	2.00 m² board	150 m ²
PD 250-Connector	3251		Bag of 200 pieces	

Drainage Mat DBV 10



Studded sheet made of recycled polyolefin with attached filter sheet for overlapping lengthwise. Connection of single sheets lengthwise on interlocking studs. Characteristic opening size $O_{_{90,W}}$ 150 μ m, total height ca. 10 mm; area weight ca. 850 g/m²; max. load bearing capacity ca. 500 kN/m²; in-plane water flow capacity tested according to EN ISO 12958, delivery and installation according to manufacturer's instructions.

	Item No.	Dimensions	Unit	Pallet
DBV 10	3011	ca. 1.04 m×12.00 m	12.5 m² roll	150 m ²

Filter Sheets

Only when a seeping layer is covered with a filter sheet does it become a filter-stable drainage layer as required by German Standard DIN 4095 "Drainage for the protection of built structures". On drainage elements such as Floradrain®, Floraset®, etc. the Filter Sheet SF is sufficient, on drainage layers of loose materials (especially where they consist of sharp-edged materials) and in build-ups for driveways filter sheets of type TG or PV should be installed with ca. 200 mm overlap. Filter sheets should not be exposed to direct sunlight for a long period of time due to their low-level UV resistance. With CE-marking, for use in drainage layers and many other areas.

Filter Sheet SF



Filter Sheet TG



Filter Sheet PV



Thermally strengthened filter sheet made of polypropylene; for normal mechanical stress and strain; applicable as a filter sheet on ZinCo drainage elements; non-rotting; water passage Q = ca. 70 l/m² x s at 100 mm water column; effective opening width (O_{90}) according to European Standard EN ISO 12956: ca. 95 μ m; strength class 2; weight: ca. 100 g/m².

	Item No.	Dimensions	Unit	Pallet
Filter Sheet SF	2100	ca. 2.00 m × 100.00 m	200 m² roll	4600 m ²
	2102	ca. 1.00 m × 100.00 m	100 m² roll	2500 m ²
Blank	2101	ca. 2.00 m × 10.00 m	20 m ²	

Thermally strengthened filter sheet made of polypropylene; for high mechanical stress and strain, can therefore be used particularly as a filter sheet on the drainage element EL 202 and on gravel or stone chippings drainage layers; non-rotting; water passage Q = ca. 40 l/m² × s at 100 mm water column; effective opening width (O_{90}) according to European Standard EN ISO 12956: ca. 85 μ m; strength class 3; weight: ca. 175 g/m².

	Item No.	Dimensions	Unit	Pallet
Filter Sheet TG	2192	ca. 2.00 m x 100.00 m	200 m² roll	2400 m ²
	2193	ca. 1.00 m x 100.00 m	100 m² roll	1200 m ²

Strengthened, extra stiff filter sheet made of polypropylene; for high mechanical stress and strain, therefore applicable in gravel layers or on Elastodrain[®] drainage elements under walkways and driveways; non-rotting; usable as protection layer where no water retention is desired (e.g. below Aquatec[®], under driveways with Stabilodrain[®] or Fixodrive[®]). Water passage Q = ca. 30 l/m² × s at 100 mm water column; effective opening width (O_{90}) according to European Standard EN ISO 12956: ca. 65 μ m; strength class 5; weight: ca. 300 g/m².

	ltem No.	Dimensions	Unit	Pallet
Filter Sheet PV	2131	ca. 2.00 m × 50.00 m	100 m² roll	1600 m ²

Filter sheets in different strength classes and weights available upon request.

Separation Sheet heat-resistant TVH 200



Heat-resistant sheet made of strengthened polyester to be used on top of Elastodrain[®] EL 202 for the manual installation of asphalt pavements. Please observe the installation instructions! Thickness: ca. 1.0 - 1.4 mm; weight: ca. 200 g/m²; tensile strength: min. 400 N/5cm; tensile extension lengthwise/crosswise: ca. 35/50 %; melting point > 200 °C.

	Item No.	Dimensions	Unit
Separation Sheet	2220	ca. 2.00 × 100.00 m	200 m² roll
heat-resistant TVH 200			

Mineral Substrates / Delivery Forms

Mineral Substrate Zincolit®



Substrate Delivery Forms





ZinCo Turbobag®



The Mineral Substrate Zincolit[®] is a high quality recycled product based on specially processed clay tiles; stable structure; frost resistant and non-flammable. Zincolit[®] is especially suited for infilling drainage layers and for creating fireproof zones. It is also suitable for extensive green roofs with multilayer build-ups, particularly for plants belonging to the plant list "Sedum Carpet".

Zincolit[®] Please note that ZinCo System Substrates are supplied in Big Bags, as bulk material or in silo.

Zincolit[®], Zincohum[®] and the Zinco System Substrates are available in various delivery types. Depending on the size and location of the roof and the type of substrate, a choice can be made from one of the following delivery types: bulk material, in Big Bags or in silo. Please don't hesitate to contact us should you require further information about our substrate delivery types.

Considerations before placing an order: Substrates, mainly those with a higher percentage of organic material, are subject to different rates of settlement. To reach the desired final height it is important to apply more substrate. The settlement factors are shown in the table. Example: Desired final height: 70 mm of System Substrate "Rockery Type Plants" Required amount: $70 / m^2 \times 1.2 = 84 / m^2$, e.g. 42 m³ of substrate are necessary for an area of 500 m².

The settlement factor refers to settlement after substrate installation. Please be aware that the substrate weight is quantified after loading. The specific weight of the substrate may change during transport.

Substrate	Settlement-factor	Weight/m ² saturated after settlement
Zincolit [®]	1.10	ca. 13 kg/cm
System Substrate "Sedum Carpet"	1.12	ca. 14 kg/cm
System Substrate "Rockery Type Plants"	1.20	ca. 14 kg/cm
System Substrate "Heather with Lavender"	1.25	ca. 15 kg/cm
System Substrate "Roof Garden"	1.30	ca. 15 kg/cm
System Substrate "Lawn"	1.35	ca. 14 kg/cm

The ZinCo Turbobag[®], a flexible chute with lockable and regulating outlet hose, is meant for the application of Zincolit[®] System Substrates "Sedum Carpet" and "Rockery Type Plants" as well as other free flowing bulk material with a maximum grain size of 32 mm. Using this effective method, substrates can be delivered as bulk material at a reasonable price and distributed easily over the roof. Technical data: size $5 \text{ m} \times 5 \text{ m}$; length of outlet hose ca. 3.5 m; max. load capacity: ca. 5000 kg; weight: ca. 60 kg; transport measures of empty bag: ca. 400 mm \times 700 mm \times 1300 mm.

	Item No.	Unit
ZinCo Turbobag®	15035	Piece
for System Substrates, Zincolit [®] , gravel etc.		
Quad Leg Bridle Sling	15036	Piece
for ZinCo Turbobag®		

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System Substrates

A system substrate that is adapted to meet the requirements of the selected plant community guarantees a durable and speciesappropriate development. It is a decisive factor for the long-term functionality of the green roof. ZinCo offers various system substrates for different system build-ups and for different kinds of green roofs. Special customized substrates are also available upon request. The system substrates are produced in accordance with German FLL-Guidelines and are available in various delivery types. We will be happy to provide you with a quotation for your project.

System Substrate "Sedum Carpet"



System Substrate "Sedum Carpet" is particularly suitable for extensive green roofs on single or multi-layer system build-ups in combination with plants belonging to the plant list "Sedum Carpet". The plants are available as plug plants or Sedum cuttings.

Substrate "Sedum Carpet" Please note that ZinCo System Substrates are supplied in Big Bags, as bulk material or in silo.

System Substrate "Rockery Type Plants" is particulary suitable for extensive green roofs

System Substrate "Rockery Type Plants"

System Substrate "Heather with Lavender"



on multi-layer system build-ups in combination with plants belonging to the plant list "Rockery Type Plants". The plants are available as plug plants.

Substrate "Rockery Type Plants"

Please note that ZinCo System Substrates are supplied in Big Bags, as bulk material or in silo.

System Substrate "Heather with Lavender" is particularly suitable for simple intensive green roof build-ups in combination with plants belonging to the plant list "Heather with Lavender". A higher depth of system substrate also allows bushes and small trees to grow.

Substrate "Heather with Lavender"

Please note that ZinCo System Substrates are supplied in Big Bags, as bulk material or in silo.

System Substrate "Roof Garden"



System Substrate "Roof Garden" is particularly suitable for intensive green roof build-ups. Depending on the substrate depth, more demanding plants such as perennials, higher bushes and trees are possible.

Substrate "Roof Garden"

Please note that ZinCo System Substrates are supplied in Big Bags and as bulk material.

System Substrate "Lawn"



System Substrate "Lawn" is a fine grading substrate especially developed for the cultivation of lawn. A greater depth of system substrate also allows for the growth of perennials, bushes and trees.

Substrate "Lawn"

Please note that ZinCo System Substrates are supplied in Big Bags, as bulk material or in silo.



Applies to everything listed on this page, as well as the bagged substrate on page 17.

Substrates in Bags / Fertilizer

Zincolit[®] Plus – Mineral Substrate



Zincolit[®] Plus is manufactured on the basis of Zincolit[®] and is enriched with other mineral aggregates. Zincolit[®] Plus has a stable structure and is pH-neutral, frost-proof and non-flammable. It is suitable for filling drainage elements and as a vegetation substrate for extensive green roofs with a single- or multi-layer build-ups. Bulk density, damp: ca. 1100 g/l; weight: ca. 22 kg/20 l bag.

	Item No.	Unit	Pallet
Zincolit [®] Plus	6030	20 l-bag	60 bags

System Substrate "Rockery Type Plants"



This proven standard substrate is best suited for extensive green roofs with a multilayer solution with Sedum types and perennials from the plant community "Rockery Type Plants". Bulk density, damp: ca. 1000 g/l; weight: ca. 20 kg/20 l bag.

	Item No.	Unit	Pallet
System Substrate "Rockery Type Plants"	6001	20 l-bag	60 bags

System Substrate "Heather with Lavender"



Zincohum®



Plantfit 4 M



This proven standard substrate is best suited for simple intensive green roofs with plant types from the ZinCo plant community "Heather with Lavender" or with deeper substrate layers for shrubs and trees. The system substrate is ideal for trough plants. Bulk density, damp: ca. 1000 g/l; weight: ca.20 kg/20 l bag.

	Item No.	Unit	Pallet
System Substrate "Heather with Lavender"		20 l-bag	60 bags

Zincohum[®] is a seed substrate manufactured on the basis of substrate compost and enriched with clay and fibrous materials. Zincohum[®] is used as an organic component for the manufacture of system substrates and as an organic fertilizer and top soil supplier. It is also used for the seed bed for the "Meadow Scents" and "Country Colours" seed mixtures. Bulk density, damp: ca. 600 g/l; weight: ca. 12 kg/20 l bag.

	Item No.	Unit	Pallet
Zincohum®	6053	20 I-bag	60 bags

Granulated and compacted slow release fertilizer NPK 23-5-10 with at least 80 % coated particles. Used for extensive and intensive green roofs, post-planting and later on. One application of the slow release fertilizer is sufficient for an entire vegetation period. The recommended period to fertilize is spring.

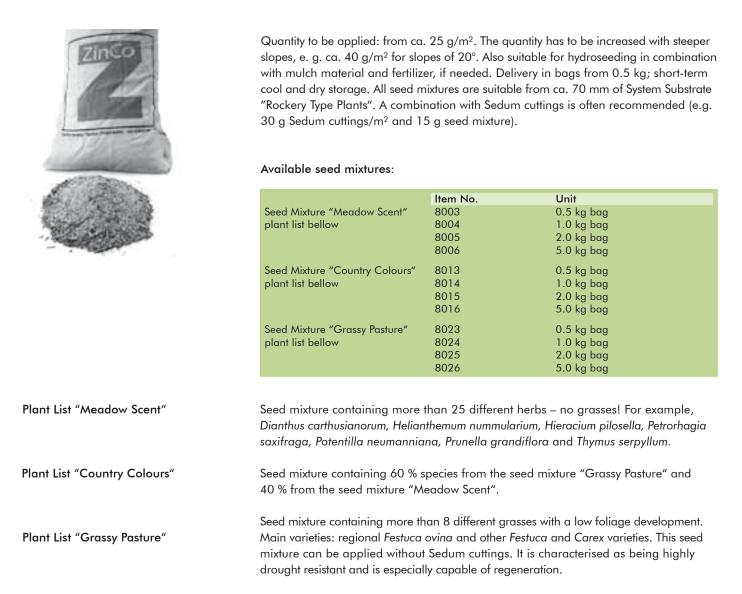
	ltem No.	Unit
ZinCo Plantfit [®] 4 M	8550	Container with 2.5 kg
ZinCo Plantfit® 4 M	8551	Container with 10 kg
ZinCo Plantfit® 4 M	8552	Container with 25 kg

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Seed Mixtures

ZinCo Seed Mixtures

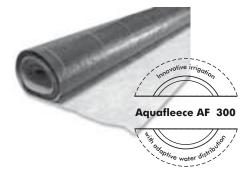
Ready-to-sow seed mixtures with added organic adhesive. All seed mixtures are high quality mixtures which do not contain any blenders (annual or fast growing species with a short lifespan). Extremely high growing plants and plants with extensive foliage are deliberately avoided. The added organic adhesive serves to fix the seed mixture on the substrate. The substrate should be moist before starting with sowing – so the bonding process starts immediately. Alternatively, irrigation after sowing starts the same process. Please avoid accessing the sowed areas afterwards as this destroys the grid structure of the adhesive!



System Build-ups with Aquafleece AF 300

The new Aquafleece AF 300 (utility model protected) is at the heart of the new System Build-ups "Urban Climate Roof" and "Irrigated Extensive Green Roof". The combination of a high-level capillary fleece with woven material allows the Aquafleece to distribute the water during irrigation while allowing excess water to pass through across the full area during a precipitation event. This allows for evenly distributed irrigation, while preventing the substrate from water logging.

Aquafleece AF 300



Dripperline 500-L2



Hook & Loop Tape



Highly capillary-effective fabric in particular for its use in conjunction with dripperlines in irrigated extensive green roof build-ups. Application on top of ZinCo drainage elements for the System Build-ups "Urban Climate Roof" and "Irrigated Extensive Green Roof".

The filter sheet is made of polyacrylic fibres, the woven fabric of polypropylene. Water absorption capacity: ca. $3-4 \text{ I/m}^2$; flow rate: ca. $20 \text{ I/(m}^2 \text{ s})$; total weight: ca. 300 g/m^2 ; total thickness: ca. 2.4 mm.

	Item No.	Dimensions	Unit
Aquafleece AF 300	2120	ca. 2.10 × 50.00 m	105 m² roll

Pressure compensating dripperline for the irrigation of vegetated green roofs in combination with Aquafleece AF 300, outside diameter: ca. 16 mm; with internal drippers; dripper spacing: ca. 500 mm; dripper flow rate: ca. 1.6 l/h; pressure compensation: between 0.4 and 2.5 bar.

	Item No.	Dimensions	Unit	Pallet
Dripperline 500-L2	9350	Ø ca. 16 mm	200 m roll	36 rolls

Hook & Loop Tape for the fixation of Dripperlines 500-L2 on the Aquafleece AF 300. Made of polyethylene; colour: black. The Hook & Loop Tape is delivered in rolls of 25 m and is perforated every 120 mm (resulting in 208 pieces per roll).

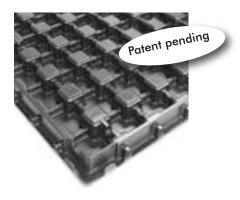
	Item No.	Dimensions	Unit
Hook & Loop Tape	9410	width 50 mm	25 m roll

These components are part of the System Build-ups "Irrigated Extensive Green Roof" and "Urban Climate Roof". For more detailed information please refer to the ZinCo planning guide "Green Roof 4.0". Download at www.zinco-greenroof.co.uk/downloads

System Build-up "Roof Garden" with Aquatec® AT 45

"Roof Garden" with Aquatec® AT 45 is a system build-up for a simple intensive green roof. The combination of the two products Aquatec AT 45 and the Wicking Mat DV 40, both registered for patent approval, provides a plant adapted, water saving capillary irrigation. The System Substrate "Sedum Carpet" with a topping layer of Zincohum offers a base for a simple intensive vegetation, for example shrubs, lawns or similar can be applied. The dripperlines can be clipped into the division bars of the Aquatec® elements. The Irrigation Manager BM 4 controls the irrigation, supplying up to 1000 m² of roof area. In addition, you only need standard water pipes (diameter 32 mm) and connection accessories. The standard accessories required are available from ZinCo, please ask for an object-specific quotation.

Aquatec[®] AT 45



dripperline and the Wicking Mat DV 40. The basic principle is the distribution and storage of water in the cells of the elements. The water will be transported upwards through the Wicking Mat DV 40 by capillarity when needed. The water supply takes place via special dripperlines. These can be clipped without any tools into the division bars of the elements. The elements can be connected via special studs along one of the long and narrow sides. Material: ABS, colour: black; height: 45 mm, weight: 2.0 kg/m²; water storage volume in the troughs: about 17 l/m².

Water distribution, storage and drainage element made of thermoformed recycled

hard plastic ABS; especially developed to be used in connection with a special

	ltem No.	Dimensions	Unit	Pallet
Aquatec® AT 45	3345	ca. 1.02 m × 2.02 m (net 1.00 m × 2.00 m)	2.00 m² board	135 boards (270 m²)

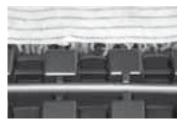
Wicking Mat DV 40



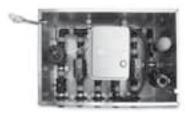
Water distributing polyester fleece with capillary-effective fibres on one side, especially developed for the use in combination with the water distribution, storage and drainage element Aquatec[®] AT 45. Material: polyester; colour: white (mat)/grey (fibres); weight: ca. 600 g/m²; fibre length: ca. 40 mm.

	Item No.	Dimensions	Unit
Wicking Mat DV 40	2160	ca. 2.00 m × 25.00 m	50 m² roll
, i i i i i i i i i i i i i i i i i i i	2165	ca. 2.00 m × 10.00 m	20 m² roll

Dripperline 100-L1



Irrigation-Manager BM 4



Dripperline for the irrigation of green roofs in combination with the water distribution, storage and drainage element Aquatec[®] AT 45 and the Wicking Mat DV 40. Outer diameter: ca. 16 mm, with internal drippers, dripper spacings 100 mm, dripper capacity ca. 1 l/h, pressure-compensating.

	Item No.	Dimensions	Unit	Pallett
Dripperline 100-L1	9310	Ø ca. 16 mm	200 m roll	36 rolls

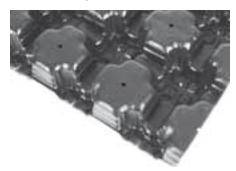
Pre-assembled programming unit for outdoor use for automated irrigiation of green roofs; lockable stainless steel box incl. connection for water supply pipe 32 mm, filter, pressure regulator, water tap connection, irrigation time controller, (operated via batteries, therefore no power supply required), 4 magnetic valves 1" including connectors for 32 mm tube and rain sensor. Weight: ca. 14 kg; required water pressure: min. 1.5 bar.

	Item No.	Dimensions
Irrigation-Manager	4045	$L \times W \times H$: ca. 580 mm \times 390 mm \times 250 mm
BM 4		

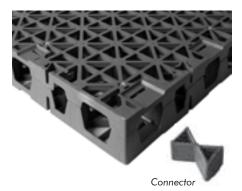
System Build-up "Stormwater Management Roof"

With this System Build-up ZinCo offers a solution for the increasing heavy rain events and the resulting overload of the sewer systems. Spacer elements, combined with a Retention Runoff Limiter installed on or in roof drains, allow for additional water storage on the roof without affecting the upper layers (vegetated green roofs, walkways, driveways, etc.). The retained precipitation is then released with a delay over a pre-defined period of time into the sewer systems. The System Build-up "Stormwater Management Roof" combines the advantages of a green roof with effective stormwater management. The system build-up is suitable for application on roofs without slopes.

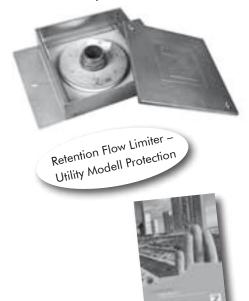
Retention Spacer RS 60



Retention Spacer RSX 65



Retention Flow Controller + Retention Inspection Chamber



Powerful and highly transportation friendly Spacer Element made of thermoformed recycled polyolefin; height: ca. 60 mm; weight: ca. 2.2 kg/m²; with multidirectional drainage channel system on the underside and interlocking studs for length- and crosswise connection; max. water retention volume: ca. 55 l/m²; compressive strength at 10 % compression according to EN ISO 25619-2: ca. 40 kPa, for use in Stormwater Management Roofs on roof surfaces without inclination.

	Item No.	Dimensions	Unit
Retention Spacer RS 60	3408	ca. 2.30 × 1.03 m	100 boards
		(net $2.25 \times 1.00 \text{ m}$)	net 225 m ²

Powerful, heavy duty but lightweight spacer element made of thermoformed polypropylene. Colour: green; height: ca. 65 mm; integrated void system; max. water retention volume: ca. 60 l/m². Compressive strength according to EN ISO 25619-2: 50 t/m²; for use in Stormwater Management Roofs on roof surfaces without inclination with heavy loads such as walkways or driveways or deep substrate levels on top.

	Item No.	Dimensions	Unit	Pallet
Retention Spacer RSX 65	3402	ca. 0.6 × 0.6 m		148 pcs/53.28 m ²
Connector	9622		4 pcs per spacer 100 pcs/unit	element required

Adjustable slow release drain, to be placed over roofdrains with selectable foam embedded connecting sleeve, flange of stainless steel, adjustable overflow made of plastic, diamater flange ca. 280 mm, aperture overflow ca. 75 mm, height overflow max. 85 mm, weight ca. 4.8 kg and Retention Inspection Chamber, height 100 mm; outer dimensions of the chamber ca. 400×400 mm, aperture dimensions ca. 34×34 mm; made of plastic-coated aluminium; lockable galvanized grating; mesh width ca. 30×10 mm; with pull out flange at two opposite sides, with flange ca. 400×620 mm; with vertical drainage slots along the sides, weight ca. 4.5 kg/piece. Total weight 10 kg.

Retention Flow Limiter + Retention Inspection Chamber Item No.Unit4000Set

In the ZinCo planning guide "Green Roof 4.0" you'll find detailed information on the components of the System Build-up "Stormwater Management Roof". Download at www.zinco-greenroof.co.uk/downloads

Pitched and Steep Pitched Green Roofs

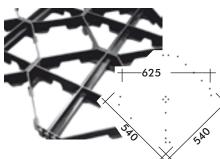
Floraset® FS 75



Jute Anti-Erosion Net JEG



Georaster[®]



Floraset® FS 75 is the core piece of the System Build-up "Pitched Green Roof". **It can be used for pitched roofs with slopes up to 25°**. FS 75 elements are made of expanded polystyrene (EPS); studs facing upwards interlocking with the substrate; drainage channel system on the underside; weight: ca. 1.0 kg/m²; height: ca. 75 mm, filling volume (when installed with studs facing upwards): ca. 20 l/m².

	Item No.	Dimensions	Unit	Pallet
Floraset [®] FS 75	3076	ca. 1.00 m × 1.00 m	1.00 m² board	40 boards

Coarse meshed net made of 100 % jute, to protect newly installed green roofs from wind and water erosion; jute is 100 % biologically degradable; used on pitched green roofs, banks, shores etc. For environmental reasons, the Jute Anti-Erosion Net is not flame retardant and therefore has to be protected from fire and embers. Weight: ca. 500 g/m²; mesh size: ca. 30–40 mm.

	Item No.	Dimensions	Unit	Pallet
Jute Anti-Erosion	2856	ca. 1.22 m×70.00 m	85.4 m ² roll	683.2 m ²
Net JEG				

Georaster[®] elements are used for the System Build-up "Steep Pitched Green Roofs" with a slope of 20° to 35°. The Georaster[®] elements are made of polyethylene (HD-PE). They contain a reinforced centre bar to bear the shear forces. An integrated T-plug connection locks the elements together. Georaster[®] can also be used for reinforcement of gravel turf, for building driveways on a smooth/soft subgrade or as slope protection. Height: ca. 100 mm; weight ca. 2.1 kg/piece; grid dimension 625 mm; requirement of 2.56 elements/m².

	Item No.	Dimensions	Unit	Pallet
Georaster®	3400	ca. 540 mm × 540 mm	Piece	96 pieces

Snow Guard Support SFH and Snow Guard Grid SFG



The snow guard support can be mounted on the Georaster[®] elements without using a tool. They comprise a support and a snow guard grid to catch the snow. The aluminium supports are available in a left and right version. The snow guard grid, made of galvanized steel plate, is ca. 3 m long and is delivered together with two connectors.

	Item No.	Dimensions	Unit
Snow Guard Support SFH right	9570	Height ca. 250 mm	Piece
Snow Guard Support SFH left	9571	Height ca. 250 mm	Piece
Snow Guard Grid SFG	7772	Height ca. 200 mm	Piece

Inspection Chamber for Pitched Roofs SKS 12



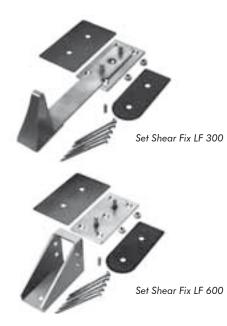
Inspection chamber made of galvanised and plastic-coated steel; triangular form without flange; for use on steep pitched roofs in connection with Georaster[®] elements; to be installed over the water outlet. Weight: ca. 1.5 kg; outer dimensions of the chamber: ca. 240 mm × 240 mm × 330 mm; aperture dimensions: ca. 200 mm × 200 mm × 280 mm.

	Item No.	Height	Unit
SKS 12	4298	ca. 120 mm	Piece

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Shear Protection Accessories

Shear Fix LF 300 and LF 600



Support Brackets TSH 80/100



Shear retainer made of solid stainless steel, material thickness 5 mm, for its use on waterproofed pitched roofs to prevent the green roof build-up from slipping. To be installed in connection with Eaves Profile TRP 80 or TRP 140 (see also page 30) at the eaves or as shear barrier in the roof area.

The base plate is fixed on the supporting structure using 5 corrosion-protected screws. It is sealed additionally as a lose flange / fixed flange construction according to German Standard DIN 18195using the same waterproofing material as for the roof itself. Height of both shear retainers: ca. 100 mm.

Load capacity: max. 300 kg/retainer (LF 300); max. 600 kg/retainer (LF 600)

Scope of delivery:

1 base plate, 1 bracket, 2 nuts M10 (all stainless steel) 5 wood screws (galvanised steel), 1 bit, 2 interim layers of EPDM (1 large + 1 small)

	Item No.	Weight	Length	Unit	Box
Shear Fix LF 300	9568	1.8 kg	ca. 400 mm	Piece	5 pieces
Shear Fix LF 600	9569	1.6 kg	ca. 150 mm	Piece	5 pieces

Support Bracket: Made of solid stainless steel; with sand-blasted, matt finish; ideal for use in connection with Eaves Profiles TRP 80 or TRP 140 for the bearing of shear forces on green roofs with slopes of min. 10°. To be fixed directly into the rafters.

Type "TSH 80": Made of flat steel 5 mm × 40 mm; height of front upstand ca. 80 mm; leg length ca. 400 mm; fixed using three 8 mm screws; can bear up to 150 kg/support bracket.

Type "TSH 100": Made of flat steel 5 mm \times 50 mm; height of front upstand ca. 100 mm; leg length ca. 400 mm; fixed using four 8 mm screws; can bear up to 300 kg/support bracket.

	Item No.	Unit
Support Brackets TSH 80	9563	Piece
Support Brackets TSH 100	9565	Piece

Both sets of Shear-Fix are subject to specific installation criteria regarding roof slope, max. load capacity, etc. We'd be glad to provide you with support for your project-specific planning.

For further information on the installation, e.g. on concrete, please refer to the installation instructions which you'll receive on request.

Eaves Profile TRP 140



Eaves Profile TRP 140, bend-proof angle profile made of stainless steel; for finishing eaves on pitched green roofs; ideal in combination with support brackets; with drainage slots and welded joint connectors. Height of vertical leg: 140 mm.

	Item No.	Dimension	Unit
Eaves Profile TRP 140	7782	Length 3 m	Piece

The Eaves Profile TRP 80 can be used as a shear protection in the roof area , for product specifications refer to page 30.

Inspection Chambers

Green roofs must be drained safely and constantly. A basic requirement for proper drainage is accessibility to the roof outlets at all times for checking and cleaning purposes. Therefore, an inspection chamber is installed over each roof outlet. The chamber height can be adjusted to match the system build-up height.

Inspection Chamber KS 6/KS 10/ Extension Pieces



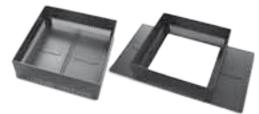
Inspection chambers made of plastic-coated aluminium; for installation onto the drainage elements or within the substrate layer; with steel cover resistant to compression; fits all drain outlet sizes. The inspection chambers can also be supplied with a lock. Combined with an KSA extension piece, the inspection chambers can be used for higher build-ups. Outer dimensions: ca. 300 mm \times 300 mm, with extended flange: ca. 530 mm \times 300 mm; aperture dimensions: 240 mm.

	Item No.	Height	Unit
Inspection Chamber KS 6-GR	4005	ca. 60 mm	Piece
Inspection Chamber KS 6 (weight: 2.6 kg)	4006	ca. 60 mm	Piece
Inspection Chamber KS 10-GR	4009	ca. 100 mm	Piece
Inspection Chamber KS 10 (weight: 2.8 kg)	4010	ca. 100 mm	Piece
Extension Piece KSA 8 (weight: 1.0 kg)	4008	ca. 80 mm	Piece
Extension Piece KSA 20 (weight: 2.0 kg)	4020	ca. 200 mm	Piece
Locking Set	9031		

Inspection Chambers made of stainless steel are available upon request.

Inspection Chamber KS 6-GR and KS 10-GR

with detachable galvanized grill



Patent pending

Pull out flange - inside the chamber for easy transportation and storage

ion and installation

Pull out flange -

pulled out prior to

Low transport volume, yet fixed positioning achieved by superimposed load when installed.

Inspection Chamber AKS 8



Made of galvanized and plastic coated steel; with one open side and three flanged sides, developed for water outlets near parapets or water spouts, can be used on upstands with insulation material fillet, perforated edges to install without tools. Removable lid, walkable with thermally insulating material and water openings according to German Standard FLL-Green Roofing Guideline, can be combined with the Extension Pieces KSA 8 and KSA 20. Height: ca. 80 mm; aperture dimensions: ca. 240 mm × 240 mm; flange: ca. 300 mm × 300 mm; slots: ca. 3 mm; colour: old silver-antique; flange on three sides ca. 85 mm.

H = Height

W = Width

F = Flange

A = Aperture dimension

		Item No.	Height	Unit
Inspection Chamber AKS 8	(weight: 2.9 kg)	4007	ca. 80 mm	Piece
Extension Piece KSA 8	(weight: 1.0 kg)	4008	ca. 80 mm	Piece
Extension Piece KSA 20	(weight: 2.0 kg)	4020	ca. 200 mm	Piece
Locking Set		9031		

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Inspection Chambers

Inspection Chamber for Pitched Roofs SKS 12



Inspection chamber made of galvanised and plastic-coated steel; triangular form without flange; for use on steep pitched roofs in connection with Georaster[®] elements; to be installed over the water outlet. Weight: ca. 1.5 kg; dimensions: 240 mm × 240 mm × 330 mm; aperture dimensions: 200 mm × 200 mm × 280 mm.

	ltem No.	Height	Unit
Steep Pitched Roof			
Inspection Chamber SKS 12	4298	ca. 120 mm	Piece

Inspection Chamber KS 30, stainless steel / fillable cover / Extension Piece

with lockable and we membrane collar for weight: ca. 4.0 kg; di 240 mm × 240 mm. Inspection Chamber KS stainless steel (with stain Extension Piece KSA 15-(weight: ca. 1.8 kg) Inspection Chamber KS stainless steel -"B" (lid may be filled with gr

High quality inspection chamber made of stainless steel; with lateral drainage slots; with lockable and walkable cover with openings for water; vertically adjustable membrane collar for continuous installation of the filter sheet. Colour: stainless steel; weight: ca. 4.0 kg; dimensions: ca. 300 mm \times 300 mm; aperture dimensions: ca. 240 mm \times 240 mm.

	Item No.	Height	Unit
Inspection Chamber KS 30 – stainless steel (with stainless steel lid)	4035	ca. 300 mm	Piece
Extension Piece KSA 15-E (weight: ca. 1.8 kg)	4036	ca. 150 mm	Piece
Inspection Chamber KS 30 – stainless steel -"B" (lid may be filled with gravel)	4038	ca. 360 mm	Piece

Inspection Chamber KS 52



Inspection chamber made of polyethylene; solid design; with lockable cover; with load distributing support footing; bigger than KS 30 with lateral all-round reinforcing flange for continuous installation of the filter sheet. Weight: ca. 13.5 kg; dimensions: ca. 400 mm \times 500 mm; aperture dimensions: ca. 380 mm \times 480 mm.

	Item No.	Height	Unit
Inspection Chamber KS 52	4060	ca. 520 mm	Piece

Available in project specific sizes. Extension pieces available upon request.

Irrigation Units / Accessories

Challenging roof gardens can be irrigated within the drainage layer using a water dam-up system over the waterproofing layer (on 0°-roofs only). The irrigation unit regulates the level of dammed water. ZinCo Irrigation Units use a mechanical swimmer-control unit. For ecological reasons, rainwater, e.g. collected in a tank or subsurface cistern should be used for irrigation. However, potable water can also be used.

Irrigation Unit B 32



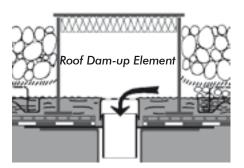
Irrigation unit made of durable polyethylene; solid design; lockable cover; mechanical swimmer-control; valve in accordance with European Standard EN 1717 to be provided by the customer. If necessary, the Irrigation Unit B 32 is available with vertically adjustable membrane collar for continuous installation of the filter sheet (see page 22, KS 30). Colour: black; connection $\frac{1}{2}$ " – tube or hose pipeline; weight: ca. 7 kg; dimensions: ca. 300 mm × 300 mm; aperture dimensions: ca. 270 mm × 270 mm.

	ltem No.	Height	Unit
Irrigation Unit B 32	4031	ca. 320 mm	Piece
Extension Piece KSA 15-PE (weight: ca. 2.2 kg)	4016	ca. 150 mm	Piece

The B 32 is available in stainless steel upon request.

Roof Dam-up Element copper/PE





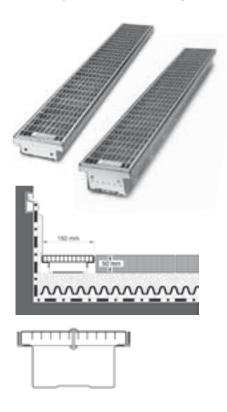
Roof Dam-up Element copper: To create water dam-up over the waterproofing for long-term irrigation, mainly used on intensive green roofs. Made of copper with adhesive flange and detachable extension piece, including sealing ring. To be glued into bituminous waterproofing; extension piece for water dam-up level of ca. 40 mm. Extension pieces for other water levels are available upon request. Diameter of opening ca. 90 mm; weight ca. 1.0 kg.

Roof Dam-up Element PE: Like the Roof Dam-up Element copper, but with flange made of polyethylene to be included into waterproofing membranes or root barriers made of FPO (e.g. Root Barrier WSB 100-PO). Aperture diameter ca. 90 mm; weight ca. 0.5 kg.

	Item No.	Unit
Roof Dam-up Element copper	4140	Piece
Roof Dam-up Element PE	4142	Piece

Drainage Channels

Drainage Channels FR – galvanized steel and plastic-coated



Solid drainage channel, made of galvanized and plastic-coated steel sheet, to be screwed at the joints, with walkable, galvanized grill; ensures efficient water drain-off in front of facades and areas with a higher water accumulation; allows for reduced connection height around thresholds and on terraces (special solution in accordance with Standard DIN and FLL). If necessary, the endings can be turned inwards manually (only FS 75). Grill mesh width: ca. 33 mm × 11 mm; width: ca. 150 mm.

	Item No.	Height	Unit
FR 50-1 (length ca. 1.00 m; weight: ca. 4.7 kg)	4741	ca. 50 mm	Piece
FR 50-2 (length ca. 2.00 m; weight: ca. 9.2 kg)	4742	ca. 50 mm	Piece
FR 50-3 (length ca. 3.00 m; weight: ca. 14.0 kg)	4743	ca. 50 mm	Piece
FR 75-1 (length ca. 1.00 m; weight: ca. 5.0 kg)	4751	ca. 75 mm	Piece
FR 75-2 (length ca. 1.00 m; weight: ca. 9.8 kg	4752	ca. 75 mm	Piece
FR 75-3 (length ca. 1.00 m; weight: ca. 14.3 kg)	4753	ca. 75 mm	Piece
90°-Comer for FR 50 (weight: ca. 4.0 kg)	4745	ca. 50 mm	Piece
90°-Corner for FR 75 (weight: ca. 4.3 kg)	4755	ca. 75 mm	Piece
Leg length ca 500×500 mm each			
Screw Kit for connecting the	9130		Piece
Drainage Channels			
Project specific cuttings	4998		Piece
according to customer's specification			
Screw Kit for locking the "grill" to	9135		Piece
Drainage Channel FR			

Drainage Channel FTR – Aluminium



Aluminum drainage channel adjustable from above; cover with oblong hole slots: $30 \text{ mm} \times 8 \text{ mm}$ or with galvanized grating; grill mesh width: $33 \text{ mm} \times 11 \text{ mm}$. The channel ensures the rapid dispersal of rainwater flowing from the facade and allows low connection structures in the door and terrace area. Channel body and side slits: slit width of about 3 mm; with integrated bumper connector which may also serve as an ending when folded up.

	Item No.	Dimensions	Unit
FTR – 55/75 A (cover made of aluminium adjustable 55–75 mm; weight: ca. 2.5 kg)	4747	ca. l: 1.00 m, w: 145 mm	Piece
FTR – 75/100 A (cover made of aluminium adjustable 75–100 mm; weight: ca. 2.7 kg)	4757	ca. l: 1.00 m, w: 145 mm	Piece
FTR – 55/75 Eck, prefabricated 90°-corner (cover made of aluminium; weight: ca. 1.1 k leg length outside: ca. 250 mm × 250 mm)	4749 ‹g;	ca. l: 0.25 m, w: 145 mm	Piece
FTR – 75/100 Eck, prefabricated 90°-corner (cover made of aluminium; weight: ca. 1.2 k leg length outside: ca. 250 mm × 250 mm)		ca. l: 0.25 m, w: 145 mm	Piece
FTR – 55/75 G (with galvanized grate adjustable 55–75 mm; weight: ca. 5.5 kg)	4748	ca. l: 1.00 m, w: 145 mm	Piece
FTR – 75/100 G (with galvanized grate adjustable 75–100 mm; weight: ca. 5.7 kg)	4758	ca. l: 1.00 m, w: 145 mm	Piece

Drainage Channels

Drainage Channel FR – Vario



As on the left but adjustable in length due to telescopic channel body. The grill can be cut to the required length; the cut edge has to be protected from corrosion. Available in dimensions: 600–1000 mm and 1150–2000 mm; height 50 mm; weight: 5.4 kg and 10 kg.

	Item No.	Height	Unit
FR 50 – Vario 100	4746	ca. 50 mm	Piece
(horizontally adjustable			
from 600 to 1000 mm)			
FR 50 – Vario 200	4744	ca. 50 mm	Piece
(horizontally adjustable			
from 1150 to 2000 mm)			
Galvanizing Spray (400 ml)	9540		Can

Balcony and Terrace Channel / System Gutter

Balcony and Terrace Channel BTR – Stainless Steel

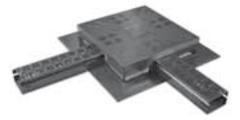


End piece BTR

System Gutter SR 50 / SR 75



Collecting Inspection Chamber



Vertically adjustable channel made of premium stainless steel; grill with oblong hole slots, channel body with lateral slots for drainage; includes connectors and integrated grill locking mechanism. Channel with ca. 107 mm; vertically adjustable from 40 mm to 55 mm.

	Item No.	Length	Unit
Balcony and Terrace Channel BTR (weight: ca. 3.6 kg)	4771	ca. 1.00 m	Piece
90°-Corner for BTR (weight: 1.2 kg)	4775	ca. 220 mm×220 mm	Piece
End piece to be inserted into the BTR Channel	4773		Piece

Galvanized steel gutter with anthracite-grey plastic coating and hinged, slotted lid; gutter body with drainage slots. ZinCo System Gutters provide for quick and safe drainage e.g. in front of facades where higher amounts of rainwater are expected. SR 75 can be used ideally as linear drainage in all single and multi-layer extensive green roofs. Delivery with 1 butt joint for each gutter; gutter width: ca. 125 mm; weight: ca. 4.3 to 4.8 kg.

	Item No.	Height	Unit
SR 50, weight 4.3 kg, length ca. 1.50 m	4251	ca. 50 mm	Piece
SR 75, weight 4.8 kg, length ca. 1.50 m	4271	ca. 75 mm	Piece

Made of galvanized and plastic coated steel, for the installation above roof outlets (also above fixed gravel retainers); special openings for potential System Gutter insertion; the lateral slots hold back substrate particles but drain the water unhindered (slotted cross section for drainage ca. 380 cm²). The light-proof construction prevents plant growth in the water outlets.

Outer dimensions: ca. 500 mm × 500 mm; flange: ca. 700 mm × 700 mm; weight: ca. 6.5 kg; aperture dimensions: ca. 470 mm × 470 mm.

	Item No.	Height	Unit
Collecting Inspection Chamber	4211	ca. 110 mm	Piece

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Terrace Grills

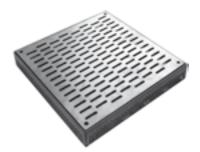
Terrace Grill – vertically adjustable



Vertically adjustable drainage grill made of galvanized steel with coated gravel retainer frame. The rough height adjustment is done by selecting the corresponding gravel retainer frame; if necessary in combination with the 60 mm tall stacking element; the fine adjustment with a screwdriver from above, without removing the grill. In this way, the height-adjustable terrace grill 400 mm \times 400 mm is suitable for mounting heights from 65 mm to 185 mm. For direct installation in paving over the water outlet; grill mesh width: ca. 33 mm \times 12 mm.

	Item No.	Outer Dimensions	Aperuture Dimensions	Height	Unit
TR-H 40×40–65	4404	ca. 400 mm×400 mm	ca. 340×340 mm	65–95 mm	Piece
TR-H 40×40–95	4409	ca. 400 mm×400 mm	ca. 340×340 mm	95–125 mm	Piece
TR-H 40×20–65	4402	ca. 400 mm×200 mm	ca. 340×140 mm	65–95 mm	Piece
TR-H 50×50–65	4405	ca. 500 mm × 500 mm	ca. 440×440 mm	65–95 mm	Piece
Extension piece: TR-H 40 × 40	4412	ca. 400 mm×400 mm	ca. 340×340 mm	60 mm	Piece

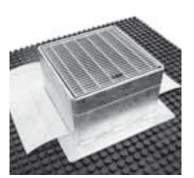
Terrace Grill – TR-H 40 × 40 – Stainless Steel



Visually appealing terrace grill made of stainless steel; vertically adjustable for mounting heights of 65 mm–95 mm; height adjustment from above on site with screwdriver, cover with oblong holes in accordance with the look of the BTR Channel.

	Item No.	Outer Dimensions	Aperuture Dimensions	Height	Unit
TR-H 40×40-65	4474	ca. 400 mm × 400 mm	ca. 340×340 mm	65–95 mm	Piece

Inspection Chamber BES / Extension Piece



Trafficable inspection chamber made of galvanized steel; dimensions: ca. 300 mm \times 300 mm; dimensions with flange: ca. 400 mm \times 400 mm; with lockable grill; mesh width: ca. 11 mm \times 41 mm; sand trap made of aluminium; with load distributing flange; weight: ca. 30 kg; aperture: ca. 200 mm \times 200 mm.

	Item No.	Height	Unit
BES 125 (weight: ca. 26.0 kg)	4812	ca. 125 mm	Piece
BES 200 (weight: ca. 32.0 kg)	4820	ca. 200 mm	Piece
BES 300 (weight: ca. 39.0 kg)	4830	ca. 300 mm	Piece
Extension Piece for BES (weight: ca. 8.0 kg) EL 202-Support Board for BES	4825 3225	ca. 25 mm ca. 20 mm	Piece Piece

Separations

Concrete Kerb



Concrete Kerb

For edging plant areas, bordering walkways and terraces or for building troughs etc. Leg length: $250 \text{ mm} \times 300 \text{ mm}$; reversible; length 500 mm; weight: ca. **28.5 kg** only.

Internal Corner

Two angular stones bevelled to an angle of 45° ; to create a 90° internal angle. Leg length: ca. 480 mm × 480 mm; weight: ca. 46–48 kg.

External Corner

Two angular stones bevelled to an angle of 45°; to create a 90° external angle. Leg length: ca. 230 mm × 230 mm; weight: ca. 33–35 kg.

	Item No.	Dimensions	Unit	Pallet
Concrete Kerb	5025	ca. 500 mm×300 mm×250 mm	Piece	40 pieces
Internal Corner	5028	H: ca. 250 mm	Piece	10 pieces
	5030	H: ca. 300 mm	Piece	10 pieces
External Corner	5029	H: ca. 250 mm	Piece	10 pieces
	5031	H: ca. 300 mm	Piece	10 pieces

Eaves Profiles

Eaves Profiles TRP 80/TRP 140

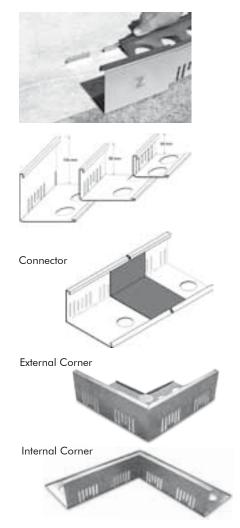


Heavy-duty angle profile made of stainless steel for the edge of walkways or as shear barrier in pitched green roofs (in combination with support brackets). Also to be used as edging in case of missing upstands. Slots in vertical leg for drainage, perforation in support leg for fixing purposes. Includes butt joints. Leg Height 80 mm and 140 mm; length each ca. 3 m.

	Item No.	Dimensions	Unit
TRP 80	7780	L: 3.00 m, H: 80 mm	Piece
TRP 140	7782	L: 3.00 m, H: 140 mm	Piece

Eaves Profiles

Eaves Profiles DP 55/DP 80/DP 120



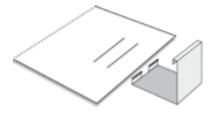
Angle profile made of metal; it is used for bordering green areas, as a gravel retainer or where there is no upstand at the eaves or roof edge. Continuous perforation of the support leg allows for fixation to the waterproofing. Slot perforation for water drainage of ca. 8.500 mm²/m. Length: ca. 3 m. Suitable connectors made of aluminium for professional joint connection of the eaves profiles (butt joint: ca. 5 mm). Suitable external and internal corners in various profile heights; leg length: ca. 250 mm × 250 mm.

A = Aluminium, E = Stainless Steel

	Item No.	Height	Unit
DP 55-A	7777	ca. 55 mm	Bundle of 10 pieces (30 m)
DP 55-E	7779	ca. 55 mm	Bundle of 10 pieces (30 m)
External Corner DP 55-A	7792	ca. 55 mm	Piece
External Corner DP 55-E	7793	ca. 55 mm	Piece
Internal Corner DP 55-A	7707	ca. 55 mm	Piece
Internal Corner DP 55-E	7706	ca. 55 mm	Piece
Connector for DP 55	7778	ca. 55 mm	Piece
DP 80 A Aluminium	7781	ca. 80 mm	Bundle of 10 pieces (30 m)
DP 80 E Stainless Steel	7784	ca. 80 mm	Bundle of 10 pieces (30 m)
External Corner DP 80-A	7794	ca. 80 mm	Piece
External Corner DP 80-E	7795	ca. 80 mm	Piece
Internal Corner DP 80-A	7710	ca. 80 mm	Piece
Internal Corner DP 55-E	7709	ca. 80 mm	Piece
Connector for DP 80	7783	ca. 80 mm	Piece
DP 120-A	7785	ca. 120 mm	Bundle of 10 pieces (30 m)
DP 120-E	7788	ca. 120 mm	Bundle of 10 pieces (30 m)
External Corner DP 120-A	7796	ca. 120 mm	Piece
External Corner DP 120-E	7797	ca. 120 mm	Piece
Internal Corner DP 120-A	7714	ca. 120 mm	Piece
Internal Corner DP 120-E	7713	ca. 120 mm	Piece
Connector for DP 120	7787	ca. 120 mm	Piece

DP-FIX





The ideal way to fix DP Profiles without penetrating the roof waterproofing. The DP-Fix aluminium support is delivered with a pre-slotted fixing mat 750 mm \times 500 mm. DP-Fix is a butt joint connector which ensures an even appearance. On roofs with a slope of up to 5°, it can be used as edging board, to border green areas, to retain gravel or as intersectional piece (between gravel, greenery and paved areas). Also available in stainless steel upon request.

DP-FIX 55, incl. fixing mat DP-FIX 80, incl. fixing mat DP-FIX 120, incl. fixing mat	Item No. 7705 7708 7712	Height 55 mm 80 mm 120 mm	Unit Piece Piece Piece
		\langle	ne la

Gravel Retainer / Separation Profile

For clear separation e.g. between substrate and gravel strips we offer gravel retainers and separation profiles. Due to production by extrusion the new gravel bars are very stable. They can also be used on both sides, so that you can service two heights with one product. And because of the profile length of 2 m, the gravel retainers are easy to transport, store and process.

Gravel Retainer KL 60/80 / Gravel Retainer KL 80/100 Gravel Retainer KL 100/120 / Gravel Retainer KL 140/160

Profile retainer for aravel retainers

Creation of an external corner with corner connector

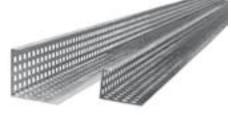
Creation of an interna corner with corner connector Angle profiles made of natural aluminium for the separation of different build-ups, e.g. gravel strip and vegetated area, strips of Zincolit[®] or similar. Gravel Retainer KL 60/80: Material thickness: ca. 1.5 mm; length ca. 2.0 m;

	weight ca. 1.1 kg/piece
Gravel Retainer KL 80/100:	Material thickness: ca. 1.5 mm,length ca. 2.0 m;
	weight ca. 1.6 kg/piece
Gravel Retainer KL 100/120:	Material thickness: ca. 1.8 mm, length ca. 2.0 m;
	weight ca. 2.1 kg/piece
Gravel Retainer KL 140/160:	Material thickness: 2.2 mm on average, length ca. 2.0 m;
	weight ca. 4.0 kg/piece, with integrated joint connector

		Item No.	Height	Unit
	KL 60/80	7760	ca. 60/80 mm	Bundle of 15 pieces (30 m)
	Connector for KL 60/80	7907	ca. 60/80 mm	15 pieces
	Corner Connector for 60 mm	7916	60 mm	10 pieces
	Corner Connector for 80 mm	7917	80 mm	10 pieces
	KL 80/100	7767	ca. 80/100 mm	Bundle of 10 pieces (20 m)
	Connector for KL 80/100	7909	ca. 80/100 mm	10 pieces
	Corner Connector for 80 mm	7917	80 mm	10 pieces
	Corner Connector for 100 mm	7918	100 mm	10 pieces
	KL 100/120	7765	ca. 100/120 mm	Bundle of 10 pieces (20 m)
	Connector for KL 100/120	7911	ca. 100/120 mm	10 pieces
	Corner Connector for 100 mm	7918	100 mm	10 pieces
	Corner Connector for 120mm	7919	120 mm	10 pieces
al	KL 140/160	7745	ca. 140/160 mm	Bundle of 10 pieces (20 m)
	Connector for KL 140/160	7746	ca. 140/160 mm	10 pieces
	Corner Connector for 140 mm	7920	140 mm	10 pieces
	Corner Connector for 160 mm	7921	160 mm	10 pieces
	Comer Connector for 100 mm	//21		i o pieces
	Fastener for Gravel Retainer	7905	ca. 100/150mm	10 pieces

Prefabricated welded corners available upon request.

Gravel Retainer KL 55/KL 85



Separation Profile TP 75



Angular aluminium profiles with rectangular perforations for retaining gravel or for edging gravel strips. Support leg ca. 80 mm; length: ca. 3m.

	Item No.	Height	Unit
KL 55	7750	ca. 55 mm	Bundle of 10 pieces (30 m)
Connector for KL 55	7751	ca. 55 mm	Piece
KL 85	7766	ca. 85 mm	Bundle of 10 pieces (30 m)
Connector for KL 85	7768	ca. 85 mm	Piece

Profile made of aluminium with drainage slots and alternating support legs (for bending in situ). Enhanced stability and visually appealing due to visible bending edge. The profile is supplied in a space-saving flat-pack; includes joint connectors. Material thickness: 1.0 mm; length: ca. 2 m; profile height: ca. 75 mm; width support leg 30 mm each (alternating left and right, or as required).

	Item No.	Length	Unit
TP 75	7975	2.00 m	Piece

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Clamping and Protection Profile

The waterproofig needs to be taken up at any connections and needs to be protected against slipping with clamping profiles. This applies in particular for wall connections. The minimum height of these profiles depends on local regulations in building and constructions. The upper end of these protective profiles needs to be waterproof. Clamping profiles applied in this field need to be resistant against bending; the distance between the single fastening devices shall not exceed 200 mm.

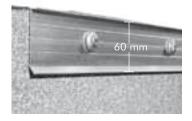
Clamping Profile AP 40



Clamping profile, e.g. for fixation of root barriers, or pond liners to concrete kerbs or planters, made of aluminium; pre-drilled holes, spacing between the holes: ca. 200 mm. Profile height: ca. 40 mm.

AP 40 7620 ca. 3.00 m Bundle of 10 pieces		Item No.	Length	Unit
	AP 40	7620	ca. 3.00 m	Bundle of 10 pieces

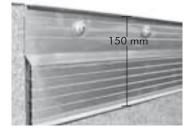
Clamping Profile AP 60



Clamping profile, for fixation of root barriers, plastic and bituminous waterproofings, made of aluminium; pre-drilled holes, spacing between the holes: ca. 200 mm. Profile height: ca. 60 mm.

	ltem No.	Length	Unit
AP 60	7625	ca. 3.00 m	Bundle of 20 pieces
AP 60 Internal Corner	7626	ca. 0.25 m×0.25 m	Piece
AP 60 External Corner	7627	ca. 0.25 m×0.25 m	Piece
AP 60 Butt Joint Connector	7628		Piece

Clamping and Protection Profile AP 150





Bending resistant clamping and protection profile made of extruded aluminium, for plastic and bituminous waterproofings, with cover for the protection layer, pre-drilled holes, spacing between holes: ca. 200 mm. Profile height: ca. 150 mm.

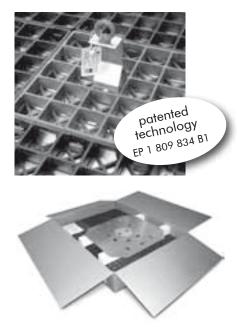
	Item No.	Length	Unit
AP 150	7640	ca. 3.00 m	Bundle of 20 pieces
AP 150 Internal Corner	7641	ca. 0.25 m×0.25 m	Piece
AP 150 External Corner	7642	ca. 0.25 m×0.25 m	Piece
AP 150 Butt Joint Connector	7643		Piece

On request also available as bended profile in higher version.

Fall Protection

When working on roof areas, which also includes the maintenance of green roofs, the use of personal safety equipment to prevent from falling off the roof is a requirement at heights of over 3 m (regulated in accident prevention legislation and specific DIN standards). As the inventor of (roof) non-penetrating fall prevention equipment, we can provide you with a comprehensive range of safety equipment with our Fallnet[®] system suitable for all building-specific situations on your roof. The various types of safety equipment can be installed without penetrating the roof membrane, from the single fixing point device to the rail solution and the Guardrail system.

Fallnet® SR – Fixing device – Single point



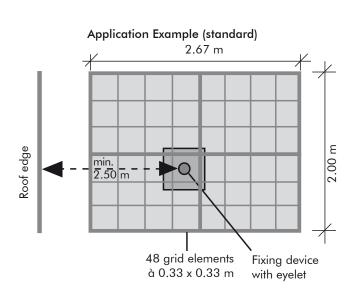
Fixing device for fall protection without roof penetration, tested and certified according to European Standard EN 795:2012 Type E. It consists of single grid elements which are plugged together to a unit and covered with at least 110 kg/m² of superimposed load (e.g. ZinCo System Substrate, gravel or comparable bulk material). The fixing point with ring eye is situated centrally in the unit.

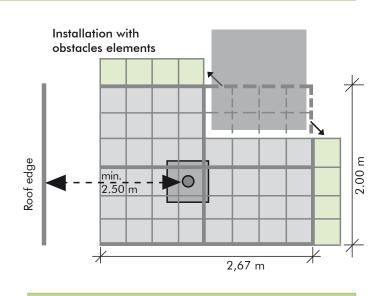
Grid elements made of RC polyethylene, height: ca. 30 mm, dimensions: ca. 330 mm \times 330 mm; surface area: 2.00 m \times 2.67 m (delivery in grid segments of 1.00 m \times 1.33 m).

Fixing point with ring eye: Support and fixing eye made of stainless steel, height ca. 200 mm, base plate made of aluminium, ca. 750 mm × 750 mm.

Fallnet® SR offers the following system advantages: little space required (5.3 m²), therefore suitable for small or narrow roof areas. Variable forms possible due to connectable grid elements. Installation within existing green roof is easily possible.

	Item No.	Dimensions	Unit
Fallnet® SR	9050	ca. 2.00 m×2.67 m	4 pre-assembled segments + 1 fixing point
Fallnet [®] SR packed	9053	ca. 2.00 m×2.67 m weight: 47.0 kg	Box 1400 × 1050 × 230 mm
Extension Segment SR for Fallnet® SR	9051	ca. 1.00 m×1.33 m	1 segment

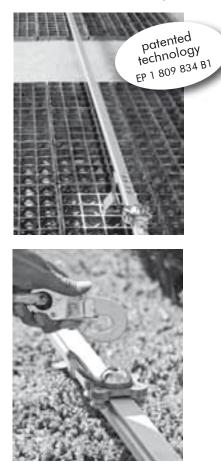




The guidelines of the installation instructions have to be observed when differing from the standard installation!

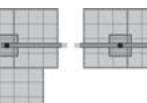
Fall Protection

Fallnet® SR Rail – Fixing device – Horizontal Rail System



Grid Unit AE

Grid Unit M



Rail system with horizontally gliding fixing point ("Runner") to be installed with grid elements, rail supports, rail components and superimposed load. Fixing device for fall protection without roof penetration, tested and certified according to European Standard EN 795, Class E

Grid elements made of RC polyethylene, height: ca.30 mm; delivery in grid segments of 1.00 m \times 1.33 m

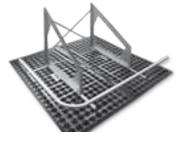
Rail support made of stainless steel, height: ca. 225 mm, base plate made of aluminium, ca. 750 mm × 750 mm; max. distance between both rail supports: 4.5 m

Fixing Rail made of high quality aluminium alloy, standard lengths of 2.00 m, 3.00 m and 6.00 m. Adjusting pieces upon request.

	Item No.	Components/Dimensions	Unit
Grid Unit AE	49047	Grid unit for beginning and end of the rail; consisting of 3 pre-assembled grid elements of 1.0 × 1.33 m each	Piece
Grid Unit M	49057	Grid unit for the middle of the rail, consisting of 2 pre-assembled grid elements of 1.0 x 1.33 m each	Piece
Rail Support	9057	one rail support per raster unit is required	Piece
Rail 2 m*	49064	coatless, pre-punched	Piece
Rail 3 m*	9065	coatless, pre-punched	Piece
Rail 6 m*	9071	coatless, pre-punched	Piece
Joint Connector	9056	made of stainless steel, incl. screw set	Piece
End Piece Rail	9068	incl. stopper	Piece
90°- End Piece Rail	9069	coatless, pre-punched	Piece
3-way Junction Unit	49063	for 90° junctions	Piece
Runner	9067	made of stainless steel, with anchorage point	Piece
Fallnet® Rail – Drilling Set	9526	delivery in tool case; consisting of drilling template; twist drill Ø 10.5 m countersink bits Ø 12.4 mm and Ø 20.5 mm, cutting oil, one-handed	
Rail Fitting Pieces	9599	project-specific production	

* The rails have drillholes at the ends to fix the joint connector. If a rail has to be cut insitu to fit a special measurement, the necessary hole can be drilled exactly by means of the drilling set.

Fallnet® SB 200-Rail – Fixing device – Horizontal Rail System



Rail system with horizontally gliding fixing point ("Runner") to be installed in combination with the ZinCo Solar Base SB 200, Solar Base Frame SGR or ZinCo Guardrail Base GB / GB Corner, fixing device for fall protection without roof penetration, tested and certified according to European Standard EN 795, Class E.

Rail Support	Item No.	Material/Dimensions	Unit
	9075	Stainless Steel, L: ca. 600 mm	Piece
Rail Support	9076	Stainless Steel, L: ca. 1200 mm	Piece

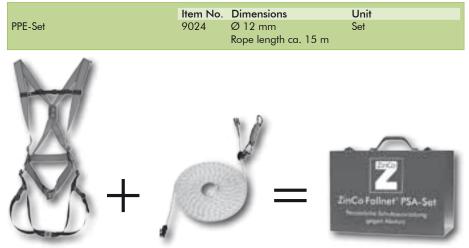
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Fall Protection

PPE-Set (Personal Protective Equipment)



Personal Protective Equipment for safe working on roofs, tested and certified to European Standard EN 363, suitable for ZinCo fixing devices "Fallnet[®]". Consisting of a harness in accordance with European Standard EN 361, 15 m rope (diameter 12 mm), rope shortener, shock absorber, connector and instruction manual; delivery in a stable metal case.



Guardrail Solutions

Guardrail Base GB / GB Corner



Made of profiled recycled hard plastic (ABS), with integrated aluminium profiles on underside, post support(s) with fixing flange made of galvanized steel, suitable for all posts with appropriate fixing flange (hole distance 100 mm \times 75 mm), tested according to German Standard DIN 1055-3 for horizontal loads up to 1 kN/m, consisting of:

Guardrail Base GB:	length \times width ca. 2.00 m \times 1.00 m, height: ca. 43 mm, filling volume ca. 16 l/m²
Post support:	height: ca. 35 mm from top edge of Guardrail Base GB
Fixing flange:	4 slots for screws M10, hole distance: 100 mm $ imes$ 75 mm
Total height (Base plate	+ Post support): ca. 78 mm

	Item No.	Dimensions	Unit
Guardrail Base GB	3420	ca. 2.00 m × 1.00 m	Piece
Guardrail Base GB corner left	3445	ca. 2.00 m×1.00 m	Piece
Guardrail Base GB corner right	3446	ca. 2.00 m × 1.00 m	Piece

Combinable with the fixing device Fallnet[®] SB 200-Rail, making a modified railing base. Other accessories as well as object-specific modifications are available upon request.

Guardrail Solutions

Railing System SG 40-E, Stainless Steel



The SG 40-E stainless steel Railing System is designed by our technical department and tailored to your project needs. We will be happy to give you a detailed and itemised quotation. The following is an example of the different components.

	Item No.	Dimensions	Unit
Railing Post E	9800	Ø 40 mm × 2 mm, L: 1.20 m	Piece
Handrail E	9801	Ø 40 mm×2 mm, L: 3.00 m	Piece
Handrail Support E	9806	Ø 18 mm, ca. 100 mm vertically adjustable	Piece
Handrail Coupling E	9808	for handrail Ø 40 mm	Piece
Midrail E	9802	Ø 12 mm×1.5 mm, L: 3.00 m	Piece
Midrail Support E	9807	with ring and fixing screw	Piece
Midrail Coupling E	9809	for midrail Ø 12 mm	Piece

Further accessories and project-related modifications are available upon request.

Railing System SG 40-S, Galvanized Steel





handrail + handrail support



midrail+ rt midrail support

Functional and stable railing to be installed without drilling, made of galvanized steel, harmonized with the ZinCo Guardrail Base GB / GB Corner. The Railing System can be adjusted to suit the individual project. It consists of several individual components. Depending on the project, components other than those listed may be required.

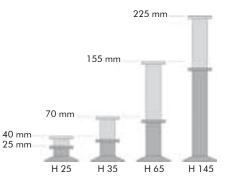
	Item No.	Dimensions	Unit
Railing Post S	9850	Ø 42 mm × 3 mm, L: 1.20 m	Piece
Handrail S	9851	Ø 42 mm × 3 mm, L: 6.00 m	Piece
Handrail Support S	9856	for handrail Ø 42 mm	Piece
Handrail Coupling S	9858	for handrail Ø 42 mm	Piece
Midrail S	9852	Ø 34 mm×3 mm, L: 6.00 m	Piece
Midrail Support S	9857	for midrail Ø 34 mm	Piece
Midrail Coupling S	9859	for midrail Ø 34 mm	Piece

Vertically Adjustable Pedestals

Elefeet[®] – Pedastals



of polypropylene for an easy installation of slab pavings on areas with or without slopes. The mobile head plate allows for inclinations up to 8 %. The integrated 3 mm wide joint spacers ensure a neat joint pattern and a good drainage. 4 different standard types (25, 35, 65 and 145 mm) and an extension piece (80 mm) allow for continuously adjustable heights between 25 mm and 460 mm.



The broad pedestal foot transmits the load into the sub-construction; the Protection Mat ES 30 provides additional protection of the waterproofing. It is advisable to fix the mobile head plate in edge areas by inserting an aluminium locking disc (thickness ca. 2 mm; diameter ca. 100 mm) between the bottom part and the mobile top part.

	Item No.	Unit	Pack
Elefeet® H 25 (vertically adjustable from 25 bis 40 mm)	9670	Piece	Box with 54 pieces
Elefeet® H 35 (vertically adjustable from 35 bis 70 mm)	9671	Piece	Box with 42 pieces
Elefeet® H 65 (vertically adjustable from 65 bis 155 mm)	9672	Piece	Box with 32 pieces
Elefeet® H 145 (vertically adjustable from 145 bis 225 mm)	9673	Piece	Box with 24 pieces
Extension Piece A 80 for Elefeet® (Height of 80 mm)	9654	Piece	Box with 60 pieces
Locking Disc	9675		Box with 50 pieces

The Adjusting Tool is available as an accessory for the energy efficient height adjustment of the various Elefeet® types.

	Item No.	Unit
Elefeet® Adjusting Tool	9656	Piece

High quality, extra slim protection mat made of recycled rubber, for full-surface installation onto roof waterproofing. The tensile strength of ca. 0.8 N/mm² is twice that of common chip rubber mats, and the elongation at rupture of 125 % is three times greater. On bitumen layers the surface has to be swept clean. The ES 30 has to be installed with an overlap of 50 mm. On synthetic waterproofings which are compatible with bitumen you can proceed as described above; an additional separation sheet has to be installed if synthetic waterproofing is not compatible with bitumen, (ZinCo TGF 20). Thickness: ca. 3 mm; weight: ca. 3 kg/m²; temperature resistant from e.g. -30 °C to +80 °C

	Item No.	Dimensions	Unit	Pallet
Elastosave ES 30	2094	ca. 1.50 m×8.00 m	12 m² roll	288 m ²

For the installation of thin terrace slabs it is advisable to use a buffer pad made on the Elefeet[®]. Made of RC rubber, thickness ca. 3 mm.

	Item No.	Unit
Buffer Pad	9636	Box with 100 pieces



Locking Disc

Elefeet[®] Adjusting Tool



Elastosave ES 30



Buffer Pad



Accessories for Pedestals

Elefeet® Mitre Cut Support



The Elefeet[®] Mitre Cut Support is used when slabs are laid in edge areas which are not at right angles with the installation pattern of the slabs. The 170 mm wide profile is installed parallel to the edge on the Elefeet® and supports even small slab cuttings. The 15 mm high continuous upstand borders the slabs. The attached rubber lining ensures a non-slip surface.

	Item No.	Length	Unit
Elefeet® Mitre Cut Support	9657	ca. 2.00 m	Piece

Elefeet® Cantilever Arm Support / Elefeet® Edge Retainer Support



Elefeet® Edge Retainer Support

Drainage Grill



The Elefeet® Cantilever Arm Support and Edge Retainer Support made of galvanized steel are used to lay concrete slabs firmly around the edges. The lack of support around the edges is compensated for by the Cantilever Arm Support, which is placed solidly on at least two Elefeet® pedestals. The weight of the slab pavement ensures the firmness. The upstand on the Elefeet® Edge Retainer Support prevents the slabs from slipping away. The Cantilever Arm Support is fixed to the Elefeet® by slots. A non-slip rubber surface prevents the slabs from slipping off.

	Item No.	Unit
Elefeet [®] Cantilever Arm Support	9658	Piece
width 125 mm, length 800 mm,		
with non-slip rubber surface		
Elefeet [®] Edge Retainer Support	9659	Piece
width 125 mm, length 175 mm,		
with non-slip rubber surface		

The drainage grill made of galvanized steel, mesh width ca. 44 mm \times 11 mm, as alternative to concrete slabs can be installed over roof outlets or by means of cantilever arm support along facades. It allows quick passage of rainwater into the cavity under the covering.

	Item No.	Outer Dimension	Unit
Terrace Grill TR-F $40 \times 40 \times 4$ (weight: ca. 4.5 kg;	4210	ca. 400 mm × 400 mm, H = 40 mm	Piece
aperture dimensions:	ca. 340 mm \times	400 mm)	
TR-F $40 \times 40 \times 5$ (weight: ca. 5.0 kg;	4213	ca. 400 mm × 400 mm, H = 50 mm	Piece
aperture dimensions:	ca. 340 mm × 4	400 mm)	
TR-F 50 \times 50 \times 5 (weight: ca. 6.3 kg;	4215	ca. 500 mm × 500 mm, H = 50 mm	Piece
aperture dimensions:	ca. 440 mm×	500 mm)	

Drainage Channel BTR – Stainless Steel



Vertically adjustable channel made of premium stainless steel; grill with oblong hole slots, channel body with lateral drainage slots; includes connectors and integrated grill locking mechanism. Channel width ca. 107 mm; vertically adjustable from ca. 40 mm to 55 mm.

	Item No.	Length	Unit
Drainage Channel BTR	4771	ca. 1.00 m	Piece
(weight: ca. 3.6 kg)			
90°-Corner for BTR	4775	ca. 220 mm × 220 mm	Piece
(weight: ca. 1.2 kg)			

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Accessories for Slab Pavements

Elastoring



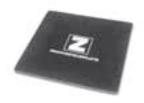
Ring-shaped pedestal, made of synthetic rubber, diameter 120 mm, heights available in 5, 10, 15 and 20 mm. With 5 mm integrated joint spacer. Elastoring can be used on roofs without standing water. Slightly uneven roof areas can be adjusted with the various ring heights and the 1 mm Spacer Ring / Slip Protection.

	ltem No.	Height	Unit
Elastoring ER 5	9630	ca. 5 mm	Box with 100 pieces
Elastoring ER 10	9631	ca. 10 mm	Box with 100 pieces
Elastoring ER 15	9632	ca. 15 mm	Box with 100 pieces
Elastoring ER 20	9633	ca. 20 mm	Box with 100 pieces

Levelling Pad



Load Distributing Board



Spacer 5 mm



Spacer 3 mm (for use with Elefeet®)



The 1 mm Levelling Pad, made of natural rubber, is placed on the Elastoring in order to balance out slight differences in height. It can also be used on the header of Elefeet[®] pedestals as slip protection.

	Item No.	Unit
Levelling Pad	9635	Box with 100 pieces

In order to protect the waterproofing from heavy point loads and the resulting damage, a load distributing rubber board can be used beneath the Elastoring. With the Load Distributing Board (200×200 mm), the build-up height is raised by ca. 4 mm.

	ltem No.	Unit
Load Distributing Board	9634	Box with 50 pieces
thickness 4 mm,		
dimensions 200×200 n	nm	

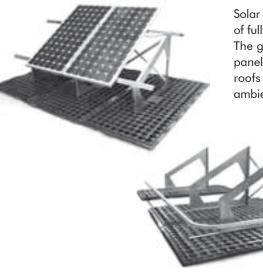
Spacer, thickness of legs ca. 5 mm, height of legs ca. 11 mm, made of non rotting PE plastic, for an easy, time saving and lasting precise laying of slabs on a bedding layer.

Item No.		Thickness of legs	Form	Unit
Spacer with base plate	9623	5 mm	four legs	Bag of 300 pieces

This spacer with a leg thickness of ca. 3 mm ensures a uniform joint pattern even if an Elefeet[®] pedestal cannot be placed directly below the intersection point of the slabs (e.g. when mitre cut supports or edge retainers are used).

	Item No.	Thickness of legs	Form	Unit
Spacer with base plate	9624	3 mm	four legs	Bag of 300 pieces 3 bags per box

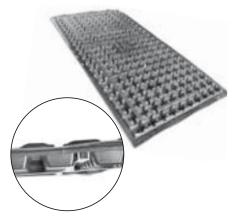
Photovoltaics and Green Roofs



Solar energy generation has become an integral part of the flat roof landscape, in terms of fully exploiting roof areas. A combination of green roof and solar technology is ideal. The green roof build-up functions as additional load to provide stability for the solar panels, even in the case of strong winds and storms. Compared to gravel roofs, green roofs increase the efficiency of the photovoltaic plant due to the comparatively lower ambient temperature.

Please note that solar energy systems on roofs require servicing. Therefore, applicable accident prevention regulations must be adhered to. Fallnet® SB 200-Rail is an appropriate system component. For detailed product information please see page 35.

Solar Base SB 200



Completely pre-assembled board (made of thermoformed ABS hard plastic) with integrated aluminium profiles on the underside. Used for ZinCo Solar Base Frame SGR . Element height: ca. 43 mm; weight including reinforced profiles: ca. 7 kg; infill volume: ca. 16 l/m². Fixing material made of stainless steel. Screw thread M 10.

	Item No.	Dimensions	Unit
olar Base SB 200	3460	ca. 1.00 m×2.00 m	Piece
olar Base SB 200-Q r crosswise installation	3463	ca. 1.00 m×2.00 m	Piece
olar Base SB 200-4 r east-west orientation	3465	ca. 1.00 m×2.00 m	Piece

Solar Base Frame SGR



Structurally proven aluminium frame, manufactured in one piece, matches the ZinCo Solar Base SB 200. Variable use for standard exposure, east-west orientation and for height adjustment elements. Module inclinations to be chosen in 5° steps between 5° and 45°. weight: ca. 2.6 - 3.0 kg/pc; material: ALMG III; colour: natural aluminium.

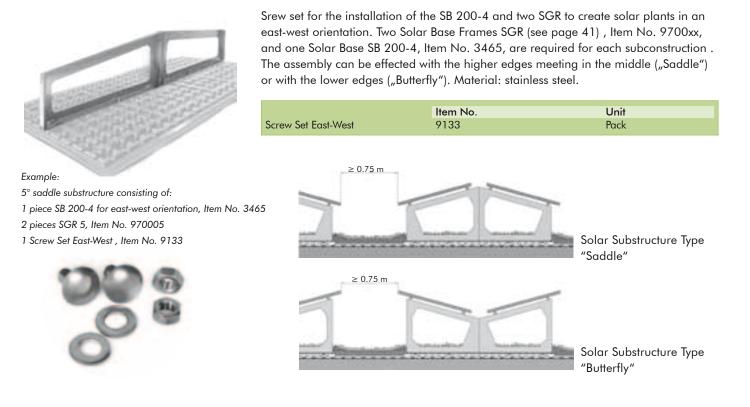
	ltem No.	Inclination	Length mm	Front height mm	Rear height mm
SGR 5	970005	5°	950	350	430
SGR 10	970010	10°	950	350	520
SGR 15	970015	15°	950	350	610
SGR 20	970020	20°	950	350	700
SGR 25	970025	25°	950	350	790
SGR 30	970030	30°	950	350	900
SGR 35	970035	35°	950	350	1020
SGR 40	970040	40°	950	350	1150
SGR 45	970045	4°	950	350	1300

Further dimensions are available on request.

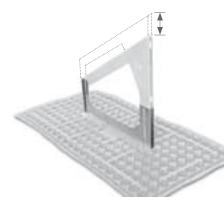
Sol Sol for Sol for

Photovoltaics and Green Roofs

Solar Substructure East-West



Solar Base Frame Height Adjustment SGR-HV



Bottom part made of aluminium; allows for a continuous height adjustment of the Solar Base Frame of up to 210 mm. The given inclination (5° to 45°) can be adapted up to \pm 2°. These features guarantee an optimal adaptation to changing roof slopes and the best possible alignment of the modules. Weight: ca. 1 kg/piece.

	ltem No.	Length	Front height	Rear height	Unit
SGR HV	970090	950 mm	350 mm– 560mm	> 430 mm (depending on the slope)	Piece
Screw Set	9132				Pack

Example:

Height adjustable Solar Base Frame consisting of:

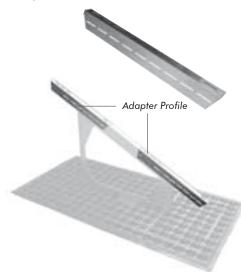
- 1 Piece SGR HV, Item No. 970090
- 1 Piece Solar Base Frame, Item No. 99700xx
- 1 Screw Set SGR HV, Item No. 9132





Accessories Photovoltaics and Green Roofs

Adapter Profile



Adapter Profile made from one piece which allows for the installation of particularly large modules onto the ZinCo Solar Base Frame SGR. Secured with at least 2 screws per profile. The supporting surface for the adapter profile on the base frame must be at least 250 mm long, so the adapter profile will extend beyond this surface by a maximum of 450 mm. Two adapter profiles (above and below) can be used per solar base frame.

	Item No.	Dimension	Unit
Adapter Profile	9706	L: 0,7 m	Piece

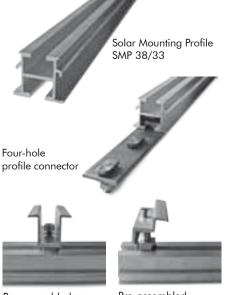
Wind Bracings



Two pre-drilled flat aluminium profiles to provide a brace for two solar base frames (clearance 1 m); incl. stainless steel reinforcement materials. The wind bracings for photovoltaic systems are installed with a maximum clearance of 10 m (centre line), and for solar thermal systems with a maximum clearance of 7 m. Due to the considerable weight of the thermal systems themselves, additional wind bracings should be installed on the front side. We will be pleased to assist you in establishing the correct position for this product.

	Item No.	Inclination	Unit
Wind Bracing WV 5/10	971005	5° and 10°	Piece
Wind Bracing WV 15/20	971015	15° and 20°	Piece
Wind Bracing WV 25/30	971025	25° and 30°	Piece
Wind Bracing WV 35/40	971035	35° and 40°	Piece
Wind Bracing WV 45	971045	45°	Piece

Solar Mounting Profile SMP 38/33 with Accessories



Pre-assembled middle clamp

Pre-assembled end clamp **Solar-Montageprofil SMP 38/33**: made of extruded aluminium, natural AlMgSi 0,5 F25; mill-finish, with profile channel both on upper and lower side. 40 mm x 36 mm (width x height), weight ca. 0.85 kg/m, including connectors and screws.

Cross Connector: for coupling solar mounting profiles, including screw and threaded plate M8.

Length compensation connector: allows for thermal expansion ; supplied with fasteners. Fastening set: consisting of hammer-head bolt and locking nut.

Four-hole profile connector: to connect the joints of the SMP 38/33 Solar Mounting Profile; made of 30 × 6 mmm flat material, including 4 bolts and 4 locking nuts. **Pre-assembled middle clamp**: variable height 35 to 50 mm

Pre-assembled end clamp: variable height 35 to 46 mm

		Item No.	Dimension	Unit
	Solar Mounting Profile SMP 40/36	9720	L: 6,00 m;	Piece
			$W \times H$: 38 mm \times 33 mm	
	Cross connector	9732		Piece
	Length compensation connector	9733		Piece
	Fastening set	9734		50 pcs. per pack
	Four-hole profile connector	9735		Piece
	Pre-assembled middle clamp	9736	35 mm – 50 mm	Piece
	Pre-assembled end clamp	9737	35 mm – 46 mm	Piece

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ZinCo Green Roofing Systems now with European Technical Assessment!

In 2013 ZinCo received European Technical Approval ETA with the number 13/0668 for a wide range of proven green roof systems. Since June 2018, the European Technical Approval has been replaced by the European Technical Assessment.

On the one hand, this is a prerequisite for unrestricted access to the European

market and its contracting states and, on the other hand, it reassures architects, contractors and owners that the relevant systems and products have passed the mandatory proof procedures and are in accordance with the assessment requirements.



The following System Build-up versions have a European Technical Assessment:

		Extensive green roof "Sedum Carpet"	Extensive green roof "Rockery Type Plants"	Simple intensive green roof "Heather with Lavender"	Intensive green roof "Roof Garden"
	oot Barrier optional)	(Root Barrier WSB 100-PO)	(Root Barrier WSB 100-PO)	(Root Barrier WSB 100-PO)	(Root Barrier WSB 100-PO)
P	rotection Mat	Protection Mat TSM 32 / Protection Mat SSM 45	Protection Mat TSM 32 Protection Mat SSM 45	Protection Mat SSM 45	Protection Mat ISM 50
D	rainage Element	Floradrain FD 25-E Fixodrain® XD 20	Floradrain FD 25-E	Floradrain® FD 40-E	Floradrain® FD 60 neo
Fi	lter sheet	Filter Sheet SF	Filter Sheet SF	Filter Sheet SF	Filter Sheet SF
S	ubstrate laver	System Substrate Sedum Carpet	System Substrate Rockery Type Plants	System Substrate Heather with Lavender	System Substrate Lawn, System Substrate Roof Garden

The number of European-approved products and systems will be expanded gradually.

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What ZinCo can do for you

ZinCo provide a comprehensive package of environmentally sound Green Roof Systems and customized project support, based on:

- 35+ years of experience in Green Roofs
- Tested & proven Green Roof Systems
- Exceeding quality standards & permanent innovation through research and development
- Compliance with relevant international standards
- Experts in structural engineering, landscape architecture, horticulture, material and soil science, ...
- Support from planning to completion (design, specifications, CAD, consultancy, on-site)
- An international network of partners
- Comprehensive warranties

To date, ZinCo Green Roof solutions have inspired planners and contractors throughout the world, providing them with the necessary flexibility to accommodate a wide range of designs and building needs.

Tell us about your project! We've got the expertise to bring it to life.



System Build-ups with European Technical Assessment (Details on page 44)



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